TABLE OF CONTENTS

2025-2026 Kent State University Catalog 15

Courses A-Z 16

- Accounting (ACCT) 16
- Accounting Technology (ACTT) 21
- Adolescent and Adult Education (ADED) 22
- Aeronautics (AERN) 25
- Aerospace Studies (ASTU) 38
- Africana Studies (AFS) 40
- Agribusiness (AGRI) 45
- Allied Health Sciences (AHS) 47
- American Sign Language (ASL) 47
- Animation Game Design (AGD) 50
- Anthropology (ANTH) 52
- Applied and Technical Studies (ATS) 60
- Arabic (ARAB) 60
- Architectural Studies (ARCS) 63
- Architecture (ARCH) 64
- Architecture and Environmental Design (AED) 74
- Art (ART) 75
- Art Education (ARTE) 77
- Art History (ARTH) 79
- Art Studio Art (ARTS) 87
- Arts and Sciences (AS) 100
- ASL English Interpreting (ASEI) 101
- Athletic Training (ATTR) 107
- Aviation Maintenance Technology (AMRT) 113
- Biological Sciences (BSCI) 114
- Biomedical Sciences (BMS) 141
- Biostatistics (BST) 148
- Biotechnology (BTEC) 150
- Business Administration Interdisciplinary (BUS) 150
- Business Analytics (BA) 153
- Business Management and Related Technologies (BMRT) 156
- Career and Community Studies (CCS) 159
- Career and Technical Teacher Education (CTTE) 163
- Chemistry (CHEM) 167
- Chinese (CHIN) 182
- Classics (CLAS) 183
- Clinical Education (CLI) 186
- Clinical Laboratory Sciences (CLS) 189
- College of Aeronautics and Engineering (CAE) 190
- College of the Arts (CA) 191
- Communication and Information (CCI) 192
- Communication Studies (COMM) 196
- Community Medicine (CMD) 206
- Computer Information Systems (CIS) 206
- Computer Science (CS) 210
- Construction Management (CMGT) 228
- Cooperative Education (COOP) 232
- Counselor Education and Supervision (CES) 233
- Criminology and Justice Studies (CRIM) 244
- Cultural Foundations (CULT) 251
- Curriculum and Instruction (CI) 258
- Dance (DAN) 271
- Data Science (DATA) 277
- Design Innovation (DI) 278
- Early Childhood Education (ECED) 279
- Early Years Education and Care (EYEC) 290
- Earth Science (ESCI) 292
- Economics (ECON) 301
- Education, Health and Human Services (EHHS) 309
- Educational Leadership K-12 (EDLE) 311
- Educational Psychology (EPSY) 316
- Educational Technology (ETEC) 319
- Electrical Engineering and Related Technologies (EERT) 324
- Emerging Media and Technology (EMAT) 326
- Engineering (ENGR) 330
- Engineering Technology (ENGT) 354
- English (ENG) 355
- Enology (ENOL) 377
- Entrepreneurship (ENTR) 379
- Environmental Health Sciences (EHS) 381
- Environmental Studies (ENVS) 383
- Epidemiology (EPI) 384
- Exercise Physiology (EXPH) 389
- Exercise Science (EXSC) 392
- Fashion Design and Merchandising (FDM) 395
- Finance (FIN) 406
- French (FR) 411
- Gender and Sexuality Studies (GSS) 414
- General Medicine (GMD) 415
- Geography (GEOG) 416

German (GER) 434
Gerontology (GERO) 438
Graduate College (GCOL) 439
Greek (GRE) 440
Green and Alternate Energy (GAE) 440
Health Education (HED) 441
Health Informatics (HI) 449
Health Policy and Management (HPM) 454
Healthcare Design (HCD) 457
Hebrew (HEBR) 458
Heritage Languages (HRTG) 459
Higher Education (HIED) 459
History (HIST) 469
Honors (HONR) 485
Horticulture (HORT) 486
Hospitality and Event Management (HEM) 490
Hospitality and Tourism Management (HTM) 493
Human Development and Family Science (HDF) 495
Human Resource Management (HRM) 500
Human Services (HSRV) 503
Information Technology (IT) 504
Insurance Studies (INS) 510
Integrated Health Studies (IHS) 511
Integrative Studies (IGST) 511
Interior Design (ID) 512
International Studies (INTS) 515
Italian (ITAL) 516
Japanese (JAPN) 518
Jewish Studies (JWST) 520
Kent Blossom Music (KBM) 521
Kent Blossom Theatre (KBT) 522
Knowledge Management (KM) 523
Landscape Architecture (LARC) 526
Latin (LAT) 528
Learning Science (LRNS) 530
Lesbian, Gay, Bisexual, Transgender and Queer Studies (LGBT) 531
Liberal Studies (LSTU) 532
Library and Information Science (LIS) 532
Long-Term Care Administration (LTCA) 542
Management (MGMT) 543
Managerial Marketing (MMTG) 547
Marketing (MKTG) 547
Materials Science (MTSC) 550
Mathematics (MATH) 556
Mechanical Engineering and Related Technology (MERT) 574
Media and Journalism (MDJ) 575
Medical Assisting (MA) 588
Middle Childhood Education (MCED) 589
Military Science (MSCI) 592
Modern and Classical Language Studies (MCLS) 594
Multidisciplinary Social Sciences and Humanities (MSSH) 598
Music (MUS) 599
National Student Exchange (NSE) 637
Neuroscience (NEUR) 637
Nursing (NURS) 638
Nursing Technology (NRST) 661
Nutrition (NUTR) 664
Occupational Therapy Assistant (OTA) 669
Office of Global Education (OGE) 671
Office Technology (OTEC) 671
Paralegal Studies (PLST) 672
Peace and Conflict Studies (PACS) 675
Peace Officer Training Academy (POTA) 682
Philosophy (PHIL) 683
Physical Activity, Wellness and Sport (PWS) 690
Physical Education and Sport Performance (PESP) 694
Physical Therapist Assisting Technology (PTST) 698
Physics (PHY) 700
Podiatric Biomechanics and Orthopedics (ORT) 708
Podiatric Medicine (PMD) 708
Podiatric Surgery (SUR) 710
Political Science (POL) 711
Preclinical Sciences (PCS) 723
Professional Studies (PROS) 725
Psychology (PSYC) 726
Public Administration (PADM) 740
Public Health (PH) 742
Radiologic and Imaging Science (RIS) 751
Radiologic Technology (RADT) 756
Reading (READ) 758
Recreation, Park and Tourism Management (RPTM) 759
Religion (REL) 762
Research, Measurement and Statistics (RMS) 763
Respiratory Care (RSPC) 769

Respiratory Therapy (RESP) 770
Russian (RUSS) 772
School Psychology (SPSY) 774
Social and Behavioral Sciences (SBS) 780
Social Work (SWK) 784
Sociology (SOC) 787
Spanish (SPAN) 797
Special Education (SPED) 804
Speech Pathology and Audiology (SPA) 820
Sport, Exercise and Performance Psychology (SEPP) 834
Sports Administration (SPAD) 835
Technical and Applied Studies (TAS) 841
Theatre (THEA) 842
Translation Studies (TRST) 861
University College (UC) 865
Urban Design (UD) 868
User Experience (UX) 869
User Experience Design (UXD) 871
Veterinary Technology (VTEC) 871
Visual Communication Design (VCD) 873
Viticulture and Enology (VIN) 883
Women's Studies (WMST) 884
University Undergraduate Requirements .....
Diversity Course Requirement 887
Flashes 101 (New Student Orientation) 890
Experiential Learning Requirement 890
Kent Core (General Education Requirement) 897
Writing-Intensive Course Requirement 900
Colleges 903
Ambassador Crawford College of Business and Entrepreneurship 903
Business Administration - Ph.D. 945
Department of Accounting 947
Accounting - B.B.A. 952
Accounting - M.S.A. 956
Accounting - Minor 957
Accounting Analytics - Graduate Certificate 958
Accounting Fundamentals - Graduate Certificate 959
Advanced Accounting - Graduate Certificate 960
Department of Economics 961
Data Analytics - Minor 969
Economics - B.B.A. 970
Economics - M.A.E. 974
Economics - Minor 975
Quantitative Methods in Econometrics - Graduate Minor 976
Department of Finance 977
Finance - B.B.A. 982
Finance - Minor 986
Financial Management - Graduate Certificate 987
Department of Information Systems and Business Analytics 988
Business Analytics - B.B.A. 996
Business Analytics - Graduate Certificate 999
Business Analytics - M.S. 1001
Computer Information Systems - B.B.A. 1003
Computer Information Systems - Minor 1007
Quantitative Business Management - Graduate Certificate 1008
Department of Management 1009
Business - Minor 1018
Business Administration - M.B.A. 1019
Business Management - B.B.A. 1031
General Business - B.B.A. 1035
Healthcare Systems Management for Business Majors - Minor 1039
Healthcare Systems Management for Non-Business Majors - Minor 1039
Human Resource Management - B.B.A. 1040
Human Resource Management - Graduate Certificate ... 1044
Human Resource Management - Minor 1045
International Business - Graduate Certificate 1046
International Business for Business Majors - Minor 1047
International Business for Non-Business Majors - Minor 1048
Leadership - Minor 1049
Leadership and Management - Graduate Certificate 1050
Leading Through Challenge - Graduate Certificate 1051
Management for Business Majors - Minor 1052
Management for Non-Business Majors - Minor 1053
Military and Leadership Studies - Minor 1054
Department of Marketing and Entrepreneurship 1054
Entrepreneurship - B.B.A. 1061
Entrepreneurship for Business Majors - Minor 1064
Entrepreneurship for Non-Business Majors - Minor 1065
Managerial Marketing - B.B.A. 1066

Marketing - B.B.A. 1066
Marketing - Minor 1070
Professional Sales - Undergraduate Certificate 1071
College of Aeronautics and Engineering 1072
Aeronautical Studies - B.S. 1110
Aeronautical Systems Engineering Technology - B.S. 1113
Aerospace Engineering - B.S. 1117
Aerospace Engineering - M.S. 1120
Aerospace Engineering - Ph.D. 1122
Air Traffic and Airspace Management - B.S. 1123
Aircraft Dispatch - Minor 1126
Applied Engineering - B.S. 1127
Aviation Law and Policy - Minor 1127
Aviation Maintenance Management - B.S. 1128
Aviation Management - B.S. 1130
Aviation Management - Minor 1133
Aviation Management and Logistics - M.S. 1134
Aviation Weather - Minor 1136
Computer Engineering Technology - B.S. 1137
Computer Engineering Technology - Minor 1140
Cybersecurity Engineering - B.S. 1141
Electronics - Minor 1144
Engineering Technology - M.E.T. 1145
Innovation - Minor 1148
Mechanical Engineering Technology - B.S. 1148
Mechatronics Engineering - B.S. 1152
Mechatronics Engineering - M.S. 1156
Mechatronics Engineering - Ph.D. 1157
Mechatronics Engineering Technology - B.S. 1159
Professional Pilot - B.S. 1163
Professional Pilot - Minor 1166
Safety, Quality and Lean in Manufacturing - Minor 1167
Sustainability - Minor 1167
Technology - Minor 1168
Unmanned Aircraft Systems - Minor 1169
Unmanned Aircraft Systems Flight Operations - B.S. 1170
College of Applied and Technical Studies 1173
Accounting Technology - A.A.B. 1231
Advanced Semiconductor Manufacturing Technician - Undergraduate Certificate 1233
Animation Game Design - B.S. 1235
Associate of Arts 1239
Associate of Science 1241
Brewing Technology - Undergraduate Certificate 1242
Business Management Technology - A.A.B. 1243
CAD for Manufacturing - Undergraduate Certificate 1246
Computed Tomography - Undergraduate Certificate 1247
Computer Forensics and Information Security - Undergraduate Certificate 1248
Computer Forensics and Security - Minor 1249
Computer-Aided Drafting/Design Technician - Undergraduate Certificate 1250
Criminology and Justice Studies - A.A.S. 1251
Cybersecurity - A.A.B. 1254
Early Years Education and Care - A.A.S. 1255
eBusiness - Undergraduate Certificate 1258
Electrical/Electronic Engineering Technology - A.A.S. 1258
Engineering Technology - B.S. 1260
Enology - A.A.S. 1268
Enology - Undergraduate Certificate 1268
Entrepreneurship - Undergraduate Certificate 1269
Environment Management - A.T.S. 1270
Essentials for Business Decision Making - Undergraduate Certificate 1270
Floriculture - Undergraduate Certificate 1272
Game Design - Minor 1273
Greenhouse Production - Undergraduate Certificate 1273
Help Desk Support - Minor 1275
Horticulture - B.A.H. 1275
Horticulture Technology - A.A.S. 1278
Human Services - A.A.S. 1281
Individualized Program - A.T.S 1283
Information Technology - A.A.B. 1284
Information Technology - B.S.I.T. 1287
Insurance Studies - B.S. 1291
Insurance Studies - Minor 1294
Magnetic Resonance Imaging - Undergraduate Certificate ... 1295
Mammography - Undergraduate Certificate 1296
Mechanical Engineering Technology - A.A.S. 1297
Medical Assisting - Undergraduate Certificate 1299
Medical Billing - Undergraduate Certificate 1301
Modeling and Animation - Minor 1302
Nursing ADN - A.A.S. 1302
Occupational Therapy Assistant - A.A.S. 1306
Office Software Applications - Undergraduate Certificate 1309

Office Technology - A.A.B. 1310
Peace Officers Training Academy - Undergraduate Certificate 1313
Physical Therapist Assistant Technology - A.A.S. 1314
Radiologic Imaging Sciences - B.R.I.T. 1318
Radiologic Technology - A.A.S. 1331
Radiologic Technology - A.T.S. 1334
Respiratory Care - B.S. 1336
Respiratory Therapy - A.A.S. 1339
Semiconductor Manufacturing Technician - Undergraduate Certificate 1342
Social Work - B.S.W. 1343
Software Development - Minor 1345
Technical and Applied Studies - B.T.A.S. 1346
Technical Modeling Design - A.A.S. 1348
Veterinary Technology - A.A.S. 1350
Viticulture - A.A.S. 1352
Viticulture - Undergraduate Certificate 1352
College of Architecture and Environmental Design 1354
Architectural History - Minor 1378
Architectural Studies - B.A. 1379
Architectural Studies - Minor 1381
Architecture - B.S. 1382
Architecture - M.Arch. 1385
Architecture and Environmental Design - M.S. 1389
Construction Management - B.S. 1391
Construction Management - M.S. 1395
Construction Management - Minor 1396
Health Systems and Facilities Design - Graduate Certificate 1397
Healthcare Design - M.H.D. 1398
Historic Preservation - Minor 1400
Interior Design - B.A. 1400
Landscape Architecture - M.L.A. I 1404
Landscape Architecture - M.L.A. II 1406
Urban Design - M.U.D. 1407
College of Arts and Sciences 1410
Department of Africana Studies 1714
African Studies - Minor 1720
Africana Studies - B.A. 1720
Africana Studies - Minor 1724
Race, Gender and Social Justice - Graduate Minor 1725
Department of Anthropology 1725
Anthropology - B.A. 1734
Anthropology - B.S. 1737
Anthropology - M.A. 1741
Anthropology - Minor 1743
Forensic Anthropology - Minor 1744
Medical Anthropology - Minor 1744
Department of Biological Sciences 1745
Biological Sciences - Cell Biology and Molecular Genetics - M.S. 1776
Biological Sciences - Cell Biology and Molecular Genetics - Ph.D. 1778
Biological Sciences - Ecology and Evolutionary Biology - M.S. 1779
Biological Sciences - Ecology and Evolutionary Biology - Ph.D. 1781
Biological Sciences - Integrative Physiology and Neurobiology - M.S. 1783
Biological Sciences - Integrative Physiology and Neurobiology - Ph.D. 1784
Biological Sciences - Minor 1786
Biology - B.A. 1787
Biology - B.S. 1791
Biology - M.A. 1797
Biology for Environmental Management and Conservation - Minor 1800
Biotechnology - B.S. 1801
Botany - B.S. 1804
Environmental and Conservation Biology - B.S. 1804
Human Disease - Minor 1809
Medical Laboratory Science - B.S. 1810
Microbiology - Minor 1814
Neuroscience - B.S. 1814
Zoology - B.S. 1819
Department of Chemistry and Biochemistry 1822
Biochemistry - B.S. 1839
Biotechnology - B.S. 1844
Chemistry - B.A. 1847
Chemistry - B.S. 1851
Chemistry - M.A. 1857
Chemistry - M.S. 1858
Chemistry - Minor 1860
Chemistry - Ph.D. 1861
Department of Computer Science 1862
Artificial Intelligence - M.S. 1881

Bioinformatics - Minor 1882
Computer Science - B.A. 1883
Computer Science - B.S. 1886
Computer Science - M.A. 1893
Computer Science - M.S. 1894
Computer Science - Minor 1896
Computer Science - Ph.D. 1897
Computers and Geosciences - Minor 1898
Cybersecurity Foundations - Minor 1899
Data Science - M.S. 1900
Game Programming - Minor 1903
Web Programming - Minor 1903
Department of Earth Sciences 1904
Applied Geology - Ph.D. 1914
Earth Science - B.A. 1915
Earth Science - Minor 1918
Environmental Geology - Minor 1918
Geology - B.A. 1919
Geology - B.S. 1922
Geology - M.S. 1926
Geology - Minor 1928
Paleontology - Minor 1928
Department of English 1929
Creative Writing - M.F.A. 1952
Creative Writing - Minor 1954
English - B.A. 1955
English - M.A. 1960
English - Minor 1961
English - Ph.D. 1962
English - Rhetoric and Composition - Ph.D. 1964
Professional and Technical Writing - Minor 1964
Teaching English as a Foreign Language - Undergraduate Certificate 1965
Teaching English as a Second Language - B.A. 1966
Teaching English as a Second Language - M.A. 1969
Teaching English as a Second/Foreign Language - Graduate Certificate 1972
Teaching English as Second Language Endorsement Preparation - Graduate Non-Degree 1973
Teaching English as Second Language Endorsement Preparation - Undergraduate Non-Degree 1975
Department of Geography 1977
Climate Change - Minor 1996
Environmental Geographic Information Science - Graduate Certificate 1997
Environmental Studies - B.A. 1998
Environmental Studies - Minor 2001
Geographic Information Science - Graduate Certificate . 2002
Geographic Information Science - M.G.I.Sc. 2003
Geographic Information Science - Minor 2004
Geography - B.A. 2005
Geography - M.S. 2009
Geography - Minor 2010
Geography - Ph.D. 2011
Urban Studies - Minor 2012
Department of History 2013
History - B.A. 2030
History - M.A. 2033
History - Minor 2035
History - Ph.D. 2037
Department of Mathematical Sciences 2038
Actuarial Mathematics - B.S. 2058
Applied Mathematics - B.S. 2062
Applied Mathematics - M.A. 2069
Applied Mathematics - M.S. 2071
Applied Mathematics - Minor 2072
Applied Mathematics - Ph.D. 2073
Applied Statistics - Minor 2075
Data Science - M.S. 2075
Mathematics - B.A. 2078
Mathematics - B.S. 2081
Mathematics - Minor 2085
Mathematics for Secondary School Teachers - M.A. 2086
Pure Mathematics - M.A. 2088
Pure Mathematics - M.S. 2089
Pure Mathematics - Ph.D. 2091
Department of Modern and Classical Language Studies 2092
American Sign Language - B.A. 2133
American Sign Language - Minor 2136
Arabic - Minor 2137
Arabic Translation - Graduate Minor 2138
Business French - Minor 2138
Business German - Minor 2138
Business Russian - Minor 2139
Business Spanish - Minor 2140

Chinese - Minor 2140
Classics - B.A. 2141
Classics - Graduate Minor 2144
Classics - Minor 2145
French - B.A. 2146
French - M.A. 2149
French - Minor 2151
French Translation - Graduate Minor 2151
German - B.A. 2152
German - Minor 2155
German Studies - Minor 2156
German Translation - Graduate Minor 2157
Greek - Minor 2158
Italian - Minor 2158
Italian Studies - Minor 2159
Japanese - Minor 2161
Japanese Translation - Graduate Minor 2162
Latin - M.A. 2163
Latin - Minor 2164
Russian - Minor 2165
Russian Literature, Culture and Translation - B.A. 2166
Russian Studies - Minor 2169
Russian Translation - Graduate Minor 2170
Spanish - B.A. 2171
Spanish - M.A. 2174
Spanish - Minor 2176
Spanish Translation - Graduate Minor 2177
Translation - B.S. 2177
Translation - M.A. 2184
Translation Studies - Ph.D. 2188
Department of Philosophy 2189
Bioethics and Health Humanities - Minor 2196
Philosophy - B.A. 2197
Philosophy - M.A. 2200
Philosophy - Minor 2202
Department of Physics 2203
Physics - B.A. 2211
Physics - B.S. 2214
Physics - M.A. 2223
Physics - M.S. 2224
Physics - Minor 2225
Physics - Ph.D. 2226
Department of Political Science 2227
Columbus Program in State Issues 2242
Global Issues - Undergraduate Certificate 2242
Nonprofit Management - Graduate Certificate 2243
Political Science - B.A. 2245
Political Science - M.A. 2248
Political Science - Minor 2250
Political Science - Ph.D. 2251
Pre-Law - Minor 2253
Public Administration - M.P.A. 2255
Washington Program in National Issues 2257
Department of Psychological Sciences 2257
Clinical Psychology - Ph.D. 2273
Neuroscience - B.S. 2276
Psychological Science - M.A. 2280
Psychological Science - Ph.D. 2281
Psychology - B.A. 2283
Psychology - B.S. 2288
Psychology - Minor 2294
Department of Sociology and Criminology 2295
Criminology and Criminal Justice - M.A. 2313
Criminology and Justice Studies - B.A. 2315
Criminology and Justice Studies - Minor 2318
Society, Health and Medicine - Minor 2318
Sociology - B.A. 2320
Sociology - M.A. 2323
Sociology - Minor 2324
Sociology - Ph.D. 2325
Economics - B.A. 2326
Materials Science - M.S. 2329
Materials Science - Ph.D. 2331
Neuroscience - Minor 2333
Pre-Health - Undergraduate Certificate 2334
School of Biomedical Sciences 2335
Biomedical Sciences - Cellular and Molecular Biology - M.S. 2342
Biomedical Sciences - Cellular and Molecular Biology - Ph.D. 2343
Biomedical Sciences - Human Evolutionary Biology - Ph.D. 2344
Biomedical Sciences - Neurosciences - M.S. 2346
Biomedical Sciences - Neurosciences - Ph.D. 2347
Biomedical Sciences - Pharmacology - M.S. 2348

Biomedical Sciences - Pharmacology - Ph.D. 2349
Biomedical Sciences - Physiology Interdisciplinary - M.S. 2350
Biomedical Sciences - Physiology Interdisciplinary - Ph.D. 2352
School of Multidisciplinary Social Sciences and Humanities 2353
Ancient, Medieval and Renaissance Studies - Minor 2365
Cybercriminology - B.S. 2367
Gender and Sexuality Studies - B.A. 2370
Integrative Studies - B.I.S. 2373
International Studies - B.A. 2375
Jewish Studies - Minor 2378
Latin American Studies - Minor 2379
Lesbian, Gay, Bisexual, Transgender and Queer Studies - Minor 2380
Liberal Studies - L.S.M. 2381
Paralegal Studies - B.A. 2382
Paralegal Studies - Minor 2385
Paralegal Studies - Undergraduate Certificate 2386
Religion Studies - Minor 2387
Studies in Globalization, Identity and Space - Minor 2388
Women's Studies - Minor 2388
World Literature and Cultures - Minor 2390
School of Peace and Conflict Studies 2391
Environment, Peace and Justice - Minor 2399
Peace and Conflict Studies - B.A. 2400
Peace and Conflict Studies - M.A. 2403
Peace and Conflict Studies - Minor 2406
College of Communication and Information 2406
Applied Media - B.A. 2471
Communication and Information - Ph.D. 2473
Media Advocacy - Minor 2475
School of Communication Studies 2476
Communication and Advocacy - Graduate Certificate 2486
Communication Studies - B.A. 2488
Communication Studies - M.A. 2492
Communication Studies - Minor 2494
School of Emerging Media and Technology 2495
Broadcast Engineering Technology - Minor 2500
Emerging Media and Technology - B.S. 2501
Emerging Media and Technology - M.S. 2504
Web Design and Development - Minor 2506
School of Information 2507
Applied Data and Information - Minor 2527
Health Informatics - Graduate Certificate 2528
Health Informatics - M.S. 2530
Knowledge Management - Graduate Certificate 2532
Knowledge Management - M.S. 2533
Library and Information Science - M.L.I.S. 2535
Medical Librarianship - Graduate Certificate 2539
School Library Media K-12 - M.L.I.S. 2540
School Library Media Licensure - Non-Degree 2542
User Experience - M.S. 2544
User Experience Design - Minor 2546
School of Media and Journalism 2546
Advertising - B.S. 2559
Advertising - Minor 2563
Digital Media Production - B.S. 2563
Digital Media Production - Minor 2567
Fashion Media - Minor 2567
Journalism - B.S. 2568
Journalism - Minor 2571
Journalism Education - Graduate Certificate 2572
Journalism Education - M.A. 2573
Media and Journalism - M.A. 2575
Photojournalism - Minor 2575
Public Relations - B.S. 2575
Public Relations - Minor 2579
School of Visual Communication Design 2580
Design - Minor 2591
Information Design - Minor 2591
Photography - B.F.A. 2592
Photography - Minor 2595
User Experience Design - Minor 2595
Visual Communication Design - B.A. 2596
Visual Communication Design - B.F.A. 2599
Visual Communication Design - M.A. 2603
Visual Communication Design - M.F.A. 2605
College of Education, Health and Human Services 2607
Education - Minor 2804
School of Foundations, Leadership and Administration 2808
Career and Academic Advising - Graduate Certificate 2853
College Teaching - Graduate Certificate 2854
Community College Leadership - Graduate Certificate 2856

Cultural Foundations - M.A. 2857
Cultural Foundations - M.Ed. 2859
Cultural Foundations - Ph.D. 2860
Disability Studies and Community Inclusion - Graduate Certificate 2862
Disability Studies and Community Inclusion - Minor 2864
Educational Leadership K-12 - Ed.S. 2865
Educational Leadership K-12 - M.Ed. 2867
Educational Leadership K-12 - Ph.D. 2868
Esports - Minor 2869
Event Management - Undergraduate Certificate 2870
Event Planning - Minor 2872
Higher Education Administration - Ph.D. 2873
Higher Education Administration and Student Affairs - Ed.S. 2875
Higher Education Administration and Student Affairs - M.Ed. 2876
Hospitality and Event Management - B.S. 2878
Hospitality and Event Management - Minor 2882
Hospitality and Tourism Management - M.S. 2883
Hospitality Management - Undergraduate Certificate 2885
Institutional Research and Assessment - Graduate Certificate 2886
Internationalization of Higher Education - Graduate Certificate 2888
Interprofessional Leadership - Ed.D. 2889
Ohio Superintendent's Licensure - Graduate Certificate . 2893
Park Management - Minor 2894
Principal Grades 4-9 Licensure Preparation - Non-Degree 2895
Principal Grades 5-12 Licensure Preparation - Non-Degree 2896
Principal Grades PK-6 Licensure Preparation - Non-Degree 2898
Professional Studies - B.S. 2899
Qualitative Research - Graduate Certificate 2901
Recreation Management - Minor 2903
Recreation, Park and Tourism Management - B.S. 2904
Research, Measurement and Statistics - M.Ed. 2910
Research, Measurement and Statistics - Ph.D. 2911
Sport Administration - B.S. 2912
Sport Administration - M.A. 2916
Sport Administration - Minor 2918
Tourism Management - Minor 2919
School of Health Sciences 2920
Alcohol, Tobacco and Other Drug Prevention - Undergraduate Certificate 2961
Athletic Training - B.S. 2962
Athletic Training - M.S. 2962
Audiology - Au.D. 2964
Audiology - M.A. 2966
Audiology - Ph.D. 2967
Communication Sciences and Disorders - Ph.D. 2969
Community Health Education - B.S. 2970
Community Health Education - Minor 2974
Exercise Physiology - M.S. 2974
Exercise Physiology - Ph.D. 2976
Exercise Science - B.S. 2977
Health Education and Promotion - M.Ed. 2986
Health Education and Promotion - Ph.D. 2988
Human Sexuality - Minor 2990
Integrated Health Studies - B.S. 2991
Nutrition - B.S. 2998
Nutrition - M.S. 3001
School Health Education (P-12) Additional Licensure Preparation - Non-Degree 3003
School Health Education - B.S.E. 3005
Speech Language Pathology - M.A. 3013
Speech Pathology and Audiology - B.S. 3016
Speech Pathology and Audiology - Minor 3019
Sports Medicine - B.S. 3020
Sports Medicine: Administration - Minor 3023
Sports Medicine: General Medical and Emergency Care - Minor 3025
Sports Medicine: Orthopedic Patient Care - Minor 3026
School of Lifespan Development and Educational Sciences 3027
Addictions Counseling - Graduate Certificate 3084
Addictions Counseling - Undergraduate Certificate 3086
American Sign Language/English Interpreting - B.S. 3087
American Sign Language/English Interpreting Licensure Preparation - Non-Degree 3093
Autism Spectrum Disorders - Graduate Certificate 3096
Autism Spectrum Disorders - Minor 3098
Behavioral Intervention Specialist - Graduate Certificate 3099
Career and Community Studies - Non-Degree 3100

Career and Community Studies-College Preparation - Non-Degree 3102
Career and Community Studies-Employment Readiness - Non-Degree 3103
Clinical Mental Health Counseling - M.Ed. 3105
Clinical Rehabilitation Counseling - M.Ed. 3107
Counseling - Ed.S. 3108
Counselor Education and Supervision - Ph.D. 3109
Deaf Education Multiple Disabilities - Graduate Certificate 3111
Deaf Education Multiple Disabilities - Undergraduate Certificate 3112
Early Intervention - Graduate Certificate 3114
Early Intervention - Minor 3115
Educational Psychology - M.Ed. 3116
Gerontology - Graduate Certificate 3118
Gerontology - Minor 3119
Gifted Education Endorsement Preparation - Non-Degree 3120
Human Development and Family Science - B.S. 3122
Human Development and Family Science - M.A. 3126
Human Development and Family Science - Minor 3127
International Family Science - Minor 3129
Learning Science - M.A. 3130
Learning Science - Ph.D. 3131
Long-Term Care Administration - B.S. 3133
Mild to Moderate Special Education - Minor 3136
Nonprofit Studies - Minor 3137
Nursing Home Administration - Graduate Certificate 3139
School Counseling - M.Ed. 3141
School Psychology - Ed.S. 3143
School Psychology - M.Ed. 3144
School Psychology - Ph.D. 3146
Special Education - B.S.E. 3148
Special Education - Ed.S. 3159
Special Education - M.Ed. 3161
Special Education - Ph.D. 3163
Special Education Deaf Education Additional Licensure Preparation - Non-Degree 3165
Special Education Deaf Education Initial Licensure Preparation - Non-Degree 3167
Special Education Early Childhood (PK-5) Additional Licensure Preparation - Non-Degree 3169
Special Education Early Childhood (PK-5) Initial Licensure Preparation - Non-Degree 3171
Special Education Mild/Moderate Needs Additional Licensure Preparation - Non-Degree 3172
Special Education Mild/Moderate Needs Initial Licensure Preparation - Non-Degree 3174
Special Education Moderate/Intensive Needs Additional Licensure Preparation - Non-Degree 3176
Special Education Moderate/Intensive Needs Initial Licensure Preparation - Non-Degree 3178
Special Education Pre-K Special Needs Endorsement Preparation - Non-Degree 3180
Special Education Transition-to-Work Endorsement Preparation - Non-Degree 3181
School of Teaching, Learning and Curriculum Studies 3183
Adapted Physical Education Endorsement Preparation - Non-Degree 3233
Alternative Licensure Professional Development Institute, English/Language Arts - Non-Degree 3234
Alternative Licensure Professional Development Institute, Mathematics - Non-Degree 3236
Alternative Licensure Professional Development Institute, Science - Non-Degree 3237
Alternative Licensure Professional Development Institute, Social Studies - Non-Degree 3239
Athletic Coaching - Minor 3240
Career-Based Intervention Endorsement Preparation - Non-Degree 3241
Career-Technical Teacher Education - Graduate Certificate 3242
Career-Technical Teacher Education - M.Ed. 3244
Career-Technical Teacher Education - Undergraduate Certificate 3245
Computer Science Endorsement Preparation - Non-Degree 3247
Computer Technology Endorsement Preparation - Non-Degree 3249
Curriculum and Instruction - Ed.S. 3250
Curriculum and Instruction - M.Ed. 3251
Curriculum and Instruction - Ph.D. 3253
Early Childhood Education (P-5) Additional Licensure Preparation - Non-Degree 3254
Early Childhood Education - B.S.E. 3256
Early Childhood Education - M.A.T. 3263
Early Childhood Education - M.Ed. 3265
Early Childhood Education Pre-Kindergarten (3-5 years) Endorsement Preparation - Non-Degree 3268
Earth Science - B.S.E. 3270
Educational Technology - M.Ed. 3277

Integrated Language Arts - B.S.E. 3279
Integrated Language Arts Additional Licensure Preparation - Non-Degree 3287
Integrated Mathematics - B.S.E. 3288
Integrated Mathematics Additional Licensure Preparation - Non-Degree 3294
Integrated Science - B.S.E. 3296
Integrated Science Additional Licensure Preparation - Non-Degree 3307
Integrated Social Studies - B.S.E. 3309
Integrated Social Studies Additional Licensure Preparation - Non-Degree 3323
Life Science - B.S.E. 3324
Life Science/Chemistry - B.S.E. 3332
Middle Childhood Education (4-9) Language Arts/Reading and Mathematics Initial Licensure Preparation - Non-Degree 3339
Middle Childhood Education (4-9) Language Arts/Reading and Science Initial Licensure Preparation - Non-Degree 3341
Middle Childhood Education (4-9) Mathematics and Science Initial Licensure Preparation - Non-Degree 3342
Middle Childhood Education (4-9) Mathematics and Social Studies Initial Licensure Preparation - Non-Degree 3344
Middle Childhood Education (4-9) Social Studies and Language Arts/Reading Initial Licensure Preparation - Non-Degree 3346
Middle Childhood Education (4-9) Social Studies and Science Initial Licensure Preparation - Non-Degree 3348
Middle Childhood Education - B.S.E. 3350
Middle Childhood Education-Language Arts and Reading (4-9) Additional Licensure Preparation - Non-Degree 3364
Middle Childhood Education-Mathematics (4-9) Additional Licensure Preparation - Non-Degree 3366
Middle Childhood Education-Science (4-9) Additional Licensure Preparation - Non-Degree 3367
Middle Childhood Education-Social Studies (4-9) Additional Licensure Preparation - Non-Degree 3369
Middle Childhood Generalist Science (4-6) Endorsement Preparation 3371
Middle Childhood Generalist Social Studies (4-6) Endorsement Preparation - Non-Degree 3372
Online and Blended Learning - Graduate Certificate 3374
Physical Education and Sport Performance - B.S. 3377
Physical Science - B.S.E. 3387
Reading Endorsement Preparation - Non-Degree 3394
Reading Specialization - M.Ed. 3395
Secondary Education - M.A.T. 3396
Sport, Exercise and Performance Psychology - B.S. 3399
Sport, Exercise and Performance Psychology - Minor 3402
Teaching and Learning with Technology - Minor 3403
Teaching and Learning with Technology - Undergraduate Certificate 3405
College of Nursing 3406
Adult Gerontology Acute Care Nurse Practitioner - Graduate Certificate 3433
Adult Gerontology Clinical Nurse Specialist - Graduate Certificate 3435
Adult Gerontology Primary Care Nurse Practitioner - Graduate Certificate 3437
Adult/Adolescent Sexual Assault Nurse Examiner - Graduate Certificate 3439
Family Nurse Practitioner - Graduate Certificate 3441
Nurse Educator - Graduate Certificate 3444
Nursing - B.S.N. 3446
Nursing - D.N.P. 3454
Nursing - M.S.N. 3459
Nursing - Ph.D. 3465
Nursing Administration and Health Systems Leadership - Graduate Certificate 3468
Nursing for Registered Nurses - B.S.N. 3471
Pediatric Primary Care Nurse Practitioner - Graduate Certificate 3474
Psychiatric Mental Health Nurse Practitioner - Graduate Certificate 3476
Women's Health Nurse Practitioner - Graduate Certificate 3478
College of Podiatric Medicine 3481
Podiatric Medicine - D.P.M. 3503
College of Public Health 3508
Biostatistics - M.P.H. 3534
Clinical Epidemiology - M.S. 3536
Clinical Research - Graduate Certificate 3537
Environmental Health Sciences for Natural Science Majors - Minor 3538
Environmental Health Sciences for Non-Natural Science Majors - Minor 3539
Epidemiology - M.P.H. 3540
Health Services Administration - Minor 3542
Health Technologies and Informatics - Minor 3543
Healthcare Compliance - Graduate Certificate 3544
LGBTQ+ Public Health - Graduate Certificate 3545
Public Health - B.S.P.H. 3546
Public Health - M.P.H. 3553

Public Health - Minor 3557
Public Health - Ph.D. 3557
Public Health - Undergraduate Certificate 3560
College of the Arts 3561
Arts Entrepreneurship - Minor 3669
School of Art 3669
Accessories - Minor 3694
Art Education - B.F.A. 3695
Art Education - M.A. 3700
Art History - B.A. 3701
Art History - M.A. 3704
Art History - Minor 3706
Ceramics - Minor 3706
Drawing - Minor 3707
Glass - Minor 3708
Jewelry, Metals and Enameling - Minor 3708
Painting - Minor 3709
Print Media and Photography - Minor 3710
Sculpture and Expanded Media - Minor 3710
Studio Art - B.A. 3711
Studio Art - B.F.A. 3714
Studio Art - M.A. 3721
Studio Art - M.F.A. 3722
Textiles - Minor 3725
School of Fashion Design and Merchandising 3726
Fashion Design - B.A. 3739
Fashion Design - B.F.A. 3742
Fashion Industry Studies - M.F.I.S. 3745
Fashion Media - Minor 3748
Fashion Merchandising - B.S. 3749
School of Music 3752
Audio Recording - Minor 3792
Conducting - M.M. 3792
Ethnomusicology - M.A. 3792
Jazz Studies - Minor 3794
Music - B.A. 3795
Music - B.M. 3801
Music - Minor 3809
Music Composition - M.A. 3810
Music Education - B.M. 3810
Music Education - M.M. 3815
Music Education - Ph.D. 3817
Music Technology - B.S. 3820
Music Technology - Minor 3827
Music Theory - M.A. 3827
Music Theory - Composition - Ph.D. 3829
Performance - M.M. 3831
World Music - Minor 3834
School of Theatre and Dance 3834
Acting - M.F.A. 3862
Costume Design and Technology - Minor 3864
Dance - B.F.A. 3864
Dance - Minor 3867
Dance Studies - B.A. 3868
Lighting Design and Technology - Minor 3871
Musical Theatre - B.F.A. 3871
Scene Design - Minor 3875
Scenic Technology - Minor 3875
Theatre and Social Change - Minor 3875
Theatre Design and Technology - M.F.A. 3875
Theatre Design, Technology and Production - B.F.A. 3878
Theatre Management - Minor 3881
Theatre Performance - Minor 3881
Theatre Sound - Minor 3882
Theatre Studies - B.A. 3882
Graduate College 3886
Honors College 3887
Honors Program 3890
University College 3891
Cooperative Education Program 3894
Exploratory Program 3895
Academic Policies 3898
A and AS Levels 3899
Academic Standing - Graduate Student 3899
Academic Standing - Undergraduate Student 3901
Accommodations for Student Religious and Spiritual Beliefs 3902
Admission of Adult Students 3902
Admission of Former Graduate Students 3903
Admission of Former Undergraduate Students 3903
Admission of Graduate Non-Degree Students 3903
Admission of Graduate Students 3903
Admission of Guest Students 3905
Admission of Home-Schooled Students 3905
Admission of Non-Traditional Master's Degree Students 3905

Admission of Post-Undergraduate Students 3905
Admission of Transient Students 3905
Admission of Undergraduate Non-Degree Students 3906
Admission of Undergraduate Students 3906
Admission of Veteran Students 3910
Admission to International Pathway Program 3910
Advanced Placement (AP) 3911
Alternative Credit Programs 3911
Alternative Credit-Testing Eligibility 3913
Award of a Master's Degree to a Doctoral Student 3914
Candidacy for Doctoral Degree 3914
Catalog Rights and Exclusions 3914
Change in Graduate Program of Study 3915
Class Attendance and Class Absence 3916
Classification of Undergraduate Students 3917
College Credit Plus 3917
College Level Examination Program (CLEP) 3917
College Tech Prep (CTP) 3917
Combined Bachelor's/Master's Degree Program 3917
Core and Critical Reading Strategies Placement 3919
Course Numbering System 3919
Course Overload 3919
Course Privilege for Doctoral Students 3920
Course Repeat 3920
Course Withdrawal 3921
Credit By Examination (CBE) 3922
Credit-Hour Requirement for Graduation 3922
DANTES Subject Standardized Tests (DSST) 3922
Developmental Coursework 3922
Dismissal and Appeal - Graduate 3922
Dismissal, Appeal and Reinstatement - Undergraduate 3924
Dissertation for the Doctoral Degree 3926
Dual Degrees and Double Majors 3929
Eligibility for a Doctoral Degree 3931
English Placement 3931
Enrollment - Graduate 3932
Enrollment Definitions 3932
Exploratory and General Majors 3933
Flexibly Scheduled Course Sections 3933
Foreign Language Placement 3933
Grade Point Average (GPA) 3934
Grade Point Average (GPA) Adjustment 3934
Grade-/Mark-To-Grade Change Policy 3936
Grading Policies and Procedures 3936
Graduation 3939
Graduation Planning System (GPS) 3940
Honors at Graduation 3941
Incomplete Mark Policy 3943
Industry-Recognized Certifications, Examinations and Professional Training 3943
International Baccalaureate (IB) 3943
Language Requirement for Graduate Students 3943
Leave of Absence for Graduate Students 3944
Mathematics Placement 3944
Midterm Evaluation 3945
Military Training 3946
Minors 3946
Not Permitted to Continue 3946
Ohio Articulation and Transfer Policy 3946
Orientation for Graduate Students 3950
Pass/Fail Grade Policy 3950
Qualifying Examination for Master's Degree 3950
Registration 3950
Remote Participation in a Thesis or Dissertation Defense 3952
Residence Requirement 3953
Retroactive Credit 3954
Selective Service Requirement 3954
Semester System 3954
Sequential Coursework 3954
Standardized Test Score Reports 3955
Student Conduct 3955
Student Responsibilities 3955
Thesis for the Master's Degree 3955
Time Limits for Graduate Degrees 3957
Transcripts 3957
Transfer of Graduate Credit 3958
Transfer of Undergraduate Credit 3959
Undergraduate Students Enrolling in Graduate Courses 3961
University Readiness Standards and Placement Assessment 3961
Upper-Division Requirement 3964
Workshops for Graduate Students 3964
Faculty & Administrators 3965
University Administrators 3965
University Faculty 3967

Index 3989

2025-2026 KENT STATE UNIVERSITY CATALOG

The Kent State University Catalog is the official document of record for undergraduate and graduate programs, courses, academic policies and special programs. The University Catalog is an online-only publication, however all pages are printer-friendly. Please note that throughout the site there are also hyperlinks to other information resources at Kent State University. The information contained in these links is not a part of the official University Catalog. While every effort is made to provide accurate and current information, Kent State University reserves the right to change without notice statements in the University Catalog concerning rules, policies, curricula, courses or other matters.

Accreditation Glossary of Academic Terms Academic Calendar

Accreditation

Kent State University is accredited by the Higher Learning Commission (view statement of accreditation status). Professional or specialized accreditation for specific programs is listed on the overview tab on those program pages, and a full listing can be found on the Accreditation, Assessment and Learning website.

Contact Information

The Kent State University Catalog is produced and maintained by the Office of Curriculum Services under the auspices of the senior vice president for academic affairs and provost. Please e-mail or visit us online if you have any questions regarding the University Catalog or the curriculum process.

E-mail: curriculum@kent.edu
Tel: 330-672-1628
Web: www.kent.edu/provost/curriculum

COURSES A-Z

Course Descriptions

Course descriptions include a synopsis of the content to be covered in the course, credit hours, schedule type (e.g., lecture, lab) and grade rule (e.g., letter, satisfactory/unsatisfactory). If applicable, course descriptions will include prerequisites for registration, attributes to fufill a university requirement, course equivalencies and repeatable for credit. Please note that there may be differences in the same course from one academic year to the next.

Some courses require that a fee be paid in addition to instructional and general fees. A list of courses with these special fees can be found in the University Fee Register on the Financial, Billing and Enrollment Center website.

Search by Keyword

Accounting (ACCT)

ACCT 23020 INTRODUCTION TO FINANCIAL ACCOUNTING 3 Credit Hours
(Equivalent to ACTT 11000) Introduction to the basic concepts and standards underlying financial accounting. Topics to be covered include revenue recognition, receivables, inventory, long-lived assets, liabilities and stockholders' equity. The impact of transactions on the accounting equation and financial statements (balance sheet, income statement and cash flows) is emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

ACCT 23021 INTRODUCTION TO MANAGERIAL ACCOUNTING 3 Credit Hours
(Equivalent to ACTT 11001) Introduction to managerial accounting concepts and tools that can be used to support decision-making in organizations. Includes coverage of cost systems, cost behavior, cost-volume-profit analysis, relevant costs and budgets.
Prerequisite: ACCT 23020 or ACTT 11000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

ACCT 33001 INTERMEDIATE FINANCIAL ACCOUNTING I 3 Credit Hours
Review of the accounting cycle; financial statement preparation, accounting for sales, receivables, inventory, current liabilities and long-term assets. Professional accounting research skills are emphasized.
Prerequisite: MATH 11012 or MATH 12002 or MATH 10051 or PHIL 21002; and minimum B- grade in ACCT 23020 (or ACTT 11000) and ACCT 23021 (or ACTT 11001); and minimum C grade in ENG 21011 and COMM 15000 and MATH 11010; and minimum 2.000 overall GPA; and Accounting major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33004 INTRODUCTION TO ACCOUNTING SYSTEMS 3 Credit Hours
Overview of accounting information systems with emphasis on internal controls. Course explores how the integrity and efficiency of business process are supported by information systems. Interpersonal skills and computer applications are emphasized.
Prerequisite: CIS 24053; and MATH 11012 or MATH 12002 or MATH 10051 or PHIL 21002; and minimum B- grade in ACCT 23021 (or ACTT 11001) and ACCT 23020 (or ACTT 11000); and minimum C grade in ENG 21011, COMM 15000 and MATH 11010; and minimum 2.000 overall GPA; and Accounting major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33010 COST ACCOUNTING 3 Credit Hours
Cost accounting for manufacturing and service organizations, including cost determination, cost analysis, costing systems, cost-volume-profit analysis, budgeting, cost allocation, activity-based costing, capital investment and performance measurement. Computer application skills are emphasized.
Prerequisite: Minimum C grade in ACCT 33001; and minimum 2.000 overall GPA; and Accounting major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33012 INTERMEDIATE FINANCIAL ACCOUNTING II 3 Credit Hours
Accounting for long-term liabilities, debt and equity investments, leases, pensions and other post-retirement benefits, income tax allocation, owners' equity and statement of cash flows. Professional accounting research skills and written communication skills are emphasized.
Prerequisite: Minimum C grade in ACCT 33001; and minimum 2.000 overall GPA; and Accounting major and minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33013 TAX FOR ENTREPRENEURS 3 Credit Hours
This course explores contemporary tax issues faced by entrepreneurs. Topical coverage includes the tax implications of business and financial decisions throughout the business life cycle and required tax compliance for various taxes including income, payroll and sales taxes. Analytical skills are emphasized through modeling tax outcomes.
Prerequisite: Minimum 2.000 overall GPA; not open to students declared in the Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33061 FINANCIAL REPORTING ISSUES AND ANALYSIS 3 Credit Hours
Financial analysis and interpretation of issues relative to the balance sheet, income statement and cash flow statement. Topics include assets, liabilities, owner's equity, inter-corporate investments, revenue and expense recognition and ratio analysis. Course may not be used to fulfill requirements in the Accounting major.
Prerequisite: ACCT 23021 or ACTT 11001; and minimum 2.000 overall GPA; not open to students declared in Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33063 COST CONTROL AND ANALYSIS FOR MANAGEMENT 3 Credit Hours
An in-depth study of cost accounting, focusing on the use of cost accounting information in planning, control and decision-making. Topics include cost terminology, costing systems, cost-volume-profit analysis, budgeting, cost allocation, activity-based costing, variance analysis, ethics and performance measurement. Course may not be used to fulfill requirements in the Accounting major.
Prerequisite: ACCT 23021 or ACTT 11001; and minimum 2.000 overall GPA; not open to students declared in Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43009 ACCOUNTING DATA ANALYTICS 3 Credit Hours
(Slashed with ACCT 53009) Students apply data analytical concepts, tools and techniques in an accounting context. Course explores how to acquire, cleanse and analyze accounting and other data in accounting-related settings. Students complete cases in financial accounting, managerial accounting, auditing and tax. Critical thinking and application of both general and accounting-specific data analytics software are emphasized.
Prerequisite: Minimum C grade in ACCT 33004, ACCT 33010 and ACCT 33012; and minimum 2.000 overall GPA; and Accounting major.
Corequisite: ACCT 43010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43010 PRINCIPLES OF AUDITING (ELR) (WIC) 3 Credit Hours
Integration of conceptual and practical aspects of auditing, importance of strong internal controls is stressed. Ethical decision making, written and verbal communication and interpersonal skills are emphasized.
Prerequisite: Minimum C grade in ACCT 33004 and ACCT 33012; and minimum 2.000 overall GPA; and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ACCT 43013 ADVANCED MANAGEMENT ACCOUNTING 3 Credit Hours
(Slashed with ACCT 53013) The course covers advanced current topics relating to the use of accounting information in managerial decision-making. Topical coverage includes balanced scorecards, pricing decisions, transfer pricing, performance measurement, and other current topics. Analytical skills are emphasized through cases, exercises, and other pedagogical tools.
Prerequisite: Minimum C grade in ACCT 33004 and ACCT 33010; and minimum 2.000 overall GPA and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43020 ADVANCED FINANCIAL ACCOUNTING 3 Credit Hours
(Slashed with ACCT 53020) Conceptual and practical issues surrounding: (1) financial reporting for investment activities of businesses when one firm possesses significant influence or control over another; (2) accounting for international business transactions, including the use of derivatives for hedging foreign exchange risk; and (3) translating foreign currency financial statements of foreign operations. Professional accounting research and written communication skills are emphasized.
Prerequisite: Minimum C grade in ACCT 33001 and ACCT 33004 and ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43031 INCOME TAXATION I - INDIVIDUAL TAXATION 3 Credit Hours
Introduction to Federal income tax for individual taxpayers. Detailed analysis recognition rules for individuals. Overview of tax rules related to entity choice for business owners.
Prerequisite: Minimum C grade in ACCT 33001; and minimum 2.000 overall GPA; and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43033 INCOME TAXATION II - ENTITY TAXATION 3 Credit Hours
(Slashed with ACCT 53033) Federal taxation of business entities, including income taxation of C corporations, partnerships, S corporations and trusts and estates; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized.
Prerequisite: ACCT 43031; and minimum 2.000 overall GPA; and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43043 INTERNAL AUDIT AND FRAUD EXAMINATION 3 Credit Hours
(Slashed with ACCT 53043) This course introduces students to the internal audit profession and the internal audit process. Topics include the definition of internal auditing, the International Professional Practices Framework (IPPF), risk, governance and control issues and conducting internal audit engagements. This course also provides an overview of fraud examination and forensic accounting, including the introduction to fraud in business, the circumstances in which it arises, techniques for preventing, detecting, measuring fraud and the skills necessary to respond and resolve fraud once discovered. Students apply the concepts to analyze cases in internal audit and fraud examination. Written and oral communication skills are emphasized.
Prerequisite: Minimum C grade in ACCT 43010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43089 INTERNATIONAL ACCOUNTING EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Slashed with ACCT 53089) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to accounting and finance. Includes pre-trip orientation sessions, visits to international businesses and organizations and opportunities for cultural activities.
Prerequisite: ACCT 23020 and ACCT 23021; and Accounting major; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ACCT 43092 ACCOUNTING INTERNSHIP (ELR) 3 Credit Hours
Study of activities related to concurrent on-the-job experience with cooperating industrial and public accounting firms. Students must have a minimum 3.000 GPA in all attempts of ACCT courses to register.
Prerequisite: Minimum C grade in ACCT 33001 or ACCT 33004; and minimum 3.000 overall GPA; and Accounting major; and junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ACCT 43093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Topic to be determined when a specific course is proposed for a particular term.
Prerequisite: Accounting major; and senior standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ACCT 43095 SPECIAL TOPICS: ACCOUNTING 3 Credit Hours
(Repeatable for credit) (Slashed with ACCT 53095) Offered periodically with different topics and different faculty involved.
Prerequisite: Accounting major; and senior standing; special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43096 INDIVIDUAL INVESTIGATION IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Individual research into a current accounting topic.
Prerequisite: Accounting major; and senior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ACCT 53001 FINANCIAL REPORTING I 3 Credit Hours
This is the first of a two-course sequence covering intermediate-level financial accounting. This course provides a comprehensive study of the concepts and applications underlying financial accounting, emphasizing the accounting cycle, basic financial statements and accounting for assets.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53010 AUDITING FUNDAMENTALS 3 Credit Hours
Integration of conceptual and practical aspects of auditing with a focus on understanding financial statements and internal controls. Ethical decision-making is also emphasized.
Prerequisite: Graduate standing.
Corequisite: ACCT 53001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53012 FINANCIAL REPORTING II 3 Credit Hours
This is the second course of a two-part sequence covering intermediate-level financial accounting. This course focuses on more complex issues of financial reporting theory and applications on current liabilities, long-term obligations, investments, income taxes, stockholders' equity, statement of cash flows.
Prerequisite: ACCT 53001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53013 ADVANCED MANAGEMENT ACCOUNTING 3 Credit Hours
(Slashed with ACCT 43013) The course covers advanced current topics relating to the use of accounting information in managerial decision-making. Topical coverage includes balanced scorecards, pricing decisions, transfer pricing, performance measurement, and other current topics. Analytical skills are emphasized through cases, exercises, and other pedagogical tools.
Prerequisite: ACCT 33010 or ACCT 63038; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53020 ADVANCED FINANCIAL ACCOUNTING 3 Credit Hours
(Slashed with ACCT 43020) Conceptual and practical issues surrounding: (1) financial reporting for investment activities of businesses when one firm possesses significant influence or control over another; (2) accounting for international business transactions, including the use of derivatives for hedging foreign exchange risk; and (3) translating foreign currency financial statements of foreign operations. Professional accounting research and written communication skills are emphasized.
Prerequisite: ACCT 33012 or ACCT 53012; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53033 INCOME TAXATION II - ENTITY TAXATION 3 Credit Hours
(Slashed with ACCT 43033) Federal taxation of business entities including income taxation of C corporations, partnerships, S corporations and trusts and estates; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized.
Prerequisite: ACCT 43031 or ACCT 53041; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53041 INDIVIDUAL INCOME TAX 3 Credit Hours
Federal income tax for individual taxpayers. Detailed analysis of income and expense recognition rules for individuals with emphasis on tax planning for sole proprietors and application of ethical framework for tax preparers.
Prerequisite: Graduate standing.
Corequisite: ACCT 53001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53043 INTERNAL AUDIT AND FRAUD EXAMINATION 3 Credit Hours
(Slashed with ACCT 43043) Course introduces students to the internal audit profession and the internal audit process. Topics include the definition of internal auditing, the International Professional Practices Framework (IPPF), risk, governance and control issues and conducting internal audit engagements. This course also provides an overview of fraud examination and forensic accounting, including the introduction to fraud in business, the circumstances in which it arises, techniques for preventing, detecting, measuring fraud and the skills necessary to respond and resolve fraud once discovered. Students apply the concepts to analyze cases in internal audit and fraud examination. Written and oral communication skills are emphasized.
Prerequisite: ACCT 43010 or ACCT 53010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53089 INTERNATIONAL ACCOUNTING EXPERIENCE 3 Credit Hours
(Slashed with ACCT 43089) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to accounting and finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities. Cannot be used to satisfy the Master of Science in Accounting (MSA) program requirement.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

ACCT 53095 SPECIAL TOPICS: ACCOUNTING 3 Credit Hours
(Repeatable for credit) (Slashed with ACCT 43095) Offered periodically with different topics and different faculty involved.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63022 PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING 3 Credit Hours
(Slashed with ACCT 73022) Students investigate issues confronting the accounting profession today by reviewing the past, examining the present and looking into the future. Topics covered include history and characteristics of the profession, regulation of the profession, ethical challenges facing accountants and auditors, fraud and the future of the profession. Professional accounting research and verbal and written communication emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63024 INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS 3 Credit Hours
(Slashed with ACCT 73024) Students apply data analytics to the audit of controls and security of accounting information systems. Includes examining the role of the IT audit function and applicable auditing standards; identifying system risks and evaluating controls in Enterprise Resource Planning (ERP) systems. Data analytics, writing and professional ethics are emphasized.
Prerequisite: ACCT 43010 or ACCT 53010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63031 ADVANCED AUDITING THEORY AND PRACTICE 3 Credit Hours
(Slashed with ACCT 73031) Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards on ethical considerations and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision making emphasized.
Prerequisite: ACCT 43010 or ACCT 53010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63037 FINANCIAL ACCOUNTING FOR DECISION MAKING 2 Credit Hours
In-depth study of financial accounting concepts and basic financial statements. Includes an examination of the significant accounting issues affecting financial reporting and their impact on analysis and interpretation of financial information for decision-making. Course may not be used to fulfill requirements in the Maser of Science in Accounting degree.
Prerequisite: Graduate standing; open only to students declared in the MBA and MA degrees.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ACCT 63038 MANAGERIAL ACCOUNTING FOR DECISION MAKING 2 Credit Hours
An in-depth study of cost accounting concepts and cost behavior for measuring product and service costs, pricing products and services, planning and controlling business operations and making business decisions. Course may not be used to fulfill requirements in the Master of Science in Accounting degree.
Prerequisite: ACCT 63037; and graduate standing; open only to students declared in the MBA and MA degrees.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ACCT 63045 TAX RESEARCH AND PLANNING 3 Credit Hours
Introduction to tax research methodology and tax preparer standards, with an emphasis on effectively communicating tax outcomes via written communications.
Prerequisite: Graduate standing.
Pre/corequisite: ACCT 43033 or ACCT 53033.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63050 ADVANCED ACCOUNTING ANALYTICS AND TECHNOLOGY 3 Credit Hours
Students apply advanced software tools used in accounting practice today, to acquire, clean and analyze accounting data. Students use tools to, analyze both numerical and textual data in accounting contexts such as, accounts receivable, cash flows, audit, managerial accounting and tax. Among others, software and methodologies to be covered may include, robotic process automation, data cleaning, process mining, artificial, intelligence, machine learning and textual analysis tools.
Prerequisite: ACCT 43009 or BA 64005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63092 INTERNSHIP 3 Credit Hours
(Repeatable for credit) Supervised practical experience with public accounting firm, corporation, governmental or not-for- profit organization. Periodic reports required. Cannot be used to satisfy the requirement of the Master of Science in Accounting (MSA) program.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

ACCT 63093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Topic to be determined when a specific course is proposed for a particular term.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ACCT 63095 SPECIAL TOPICS IN ACCOUNTING 3 Credit Hours
(Repeatable for credit) Offered periodically with different topics and different faculty involved.
Prerequisite: Accounting major; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 73022 PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING 3 Credit Hours
(Slashed with ACCT 63022) Students investigate issues confronting the accounting profession today by reviewing the past, examining the present and looking into the future. Topics covered include history and characteristics of the profession, regulation of the profession, ethical challenges facing accountants and auditors, fraud and the future of the profession. Professional accounting research and verbal and written communication emphasized.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 73024 INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS 3 Credit Hours
(Slashed with ACCT 63024) Students apply data analytics to the audit of controls and security of accounting information systems. Includes examining the role of the IT audit function and applicable auditing standards; identifying system risks and evaluating controls in Enterprise Resource Planning (ERP) systems. Data analytics, writing and professional ethics are emphasized.
Prerequisite: ACCT 43010; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 73031 ADVANCED AUDITING THEORY AND PRACTICE 3 Credit Hours
(Slashed with ACCT 63031) Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards, on ethical considerations, and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision making emphasized.
Prerequisite: ACCT 43010; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 73093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Topic be determined when a specific course is proposed for a particular term.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ACCT 73098 RESEARCH IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Review of sources, techniques and methodology. Individually selected topic is investigated and reported in formal paper.
Prerequisite: Accounting major; and doctoral standing.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ACCT 83031 AUDITING ISSUES 3 Credit Hours
Course provides doctoral students with an opportunity to broaden their understanding of financial and operational auditing theory and research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 83033 MANAGERIAL ACCOUNTING ISSUES 3 Credit Hours
Course provides an opportunity to survey major research topics in managerial accounting. Students develop a sound conceptual basis for reading, interpreting, analyzing, criticizing and conducting scholarly research on managerial accounting issues. Reading list includes research papers from various managerial accounting research areas and research methods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 83037 FINANCIAL ACCOUNTING ISSUES 3 Credit Hours
Course focuses on theoretical, analytical and empirical research in financial accounting and reporting. Emerging issues in financial accounting and reporting are examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 83038 BASIC ACCOUNTING RESEARCH METHODOLOGY 3 Credit Hours
Course introduces students to basic concepts in accounting research and to the application of research methods in various accounting areas (e.g., financial, managerial, auditing and information systems).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 83091 SEMINAR-SELECTED ACCOUNTING TOPICS 3 Credit Hours
(Repeatable for credit) Topics vary with each offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ACCT 83098 RESEARCH IN ACCOUNTING 3 Credit Hours
Students develop and present a paper on an original accounting research topic under the supervision of faculty members.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

Accounting Technology (ACTT)

ACTT 11000 ACCOUNTING I: FINANCIAL 4 Credit Hours
(Equivalent to ACCT 23020) Introduction to financial accounting, including principles generally accepted when preparing accounting statements for users outside of the business organization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

ACTT 11001 ACCOUNTING II: MANAGERIAL 4 Credit Hours
(Equivalent to ACCT 23021) Introduction to managerial accounting, including accounting for manufacturing firms, budgeting, standard cost systems, direct costing, segment reporting and cost-volume-profit (CVP) analysis.
Prerequisite: ACTT 11000.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

ACTT 11003 PAYROLL ACCOUNTING 3 Credit Hours
Introduction to the payroll function, including preparation of payroll and related federal, state and local tax forms required of all businesses. Students study both manual and computerized applications.
Prerequisite: ACTT 11000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACTT 20012 ACCOUNTING SOFTWARE APPLICATIONS 3 Credit Hours
Students explore accounting, spreadsheet and word processing software.
Prerequisite: ACTT 11000.
Schedule Type: Lecture
Contact Hours: 3 other
Grade Mode: Standard Letter

ACTT 21000 ACCOUNTING III: FINANCIAL 3 Credit Hours
An intensive and practical study of financial accounting principles pertaining to balance sheet, income statement accounts and statement analyses.
Prerequisite: ACTT 11001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACTT 21003 FUNDAMENTALS OF TAX PREPARATION 3 Credit Hours
A non-technical presentation of federal income tax laws and regulations as they relate to individuals.
Prerequisite: ACTT 11000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACTT 21092 INTERNSHIP IN ACCOUNTING TECHNOLOGY (ELR) 2-3 Credit Hours
(Repeatable for credit) Supervised field experience requires either minimum 14 hours each week for unpaid work experiences or minimum 20 hours each week for paid work experiences.
Prerequisite: ACTT 21000; and special approval.
Schedule Type: Practical Experience
Contact Hours: 24-36 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ACTT 21095 SPECIAL TOPICS IN ACCOUNTING TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Topics in accounting vary per course offering.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ACTT 21096 INDIVIDUAL INVESTIGATION IN ACCOUNTING TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Independent in-depth research of an accounting topic supervised and coordinated by an accounting technology faculty member.
Prerequisite: 12 credit hours of ACTT courses; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ACTT 31063 INTRODUCTION TO COST ACCOUNTING 3 Credit Hours
Cost accounting concepts and systems; role of costs in decision making; budgeting concepts and procedures; analysis of revenue, cost and income variances.
Prerequisite: ACTT 11001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Adolescent and Adult Education (ADED)

ADED 20000 TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING 3 Credit Hours
Course examines social justice issues that are central to teaching and learning across all educational contexts. Students consider topics such as race, poverty, social class, LGBTQ youth and colleagues, socially responsive teaching and at-risk youth as they intersect with K-12 educational settings.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 20020 EXPLORING SECONDARY SCIENCE TEACHING 1 Credit Hour
This course is designed to allow students to learn and practice science teaching skills, develop real-world teaching experience in secondary schools, learn about research-based science teaching methods, and explore formal and informal science teaching careers. The course includes an associated field experience where students get to teach science lessons to local secondary students.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ADED 22275 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours
A course that introduces you to the field of social studies education. In this course you will explore the history and current issues and trends in the field of social studies education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 32142 PRINCIPLES OF TEACHING ADOLESCENTS (WIC) 3 Credit Hours
Orientation to adolescence and the teaching-learning process. This course includes 30 field-clinical hours in an urban setting. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: ADED 20000; and admission to advanced study.
Schedule Type: Field Experience, Lecture
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ADED 32268 THE SECONDARY SCHOOL MATHEMATICS CURRICULUM 3 Credit Hours
The secondary school mathematics curriculum will be examined. Student's textbooks and recommendations will be investigated. This course includes 30 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: ADED 32142 and MATH 22005.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

ADED 32275 CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES 3 Credit Hours
A beginning social studies teaching and learning course. In this course you will explore how to achieve the purposes of social studies education through curriculum, instructional and planning decisions.
Prerequisite: ADED 22275 and ADED 32142; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 32277 TEACHING SCIENCE IN SECONDARY SCHOOLS 3 Credit Hours
This course is designed to facilitate the development of preservice middle and secondary school science teachers. Fundamental to middle and secondary school science teaching is an understanding of content knowledge, pedagogical knowledge and methodologies appropriate for science learning in secondary school. During this course students participate in hands-on activities, group discussions, presentations, pedagogical analyses and curriculum development. This course particularly focuses on nature of science, conceptual change and student misconceptions, ambitious science teaching, engineering design and STEM, issues-based instruction and teaching diverse learners and using technology to plan, teach, assess and analyze assessment data.
Prerequisite: ADED 32142.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 33268 MATHEMATICAL MODELING FOR SECONDARY TEACHERS 3 Credit Hours
The Mathematical Modeling for Secondary Teachers is designed to promote reasoning, problem-solving and modeling through thematic units focused on mathematical practices, while reinforcing and extending content in number and quantity, algebra, functions, statistics and probability and geometry.
Corequisite: ADED 32268.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 42196 INDIVIDUAL PROJECT IN ADOLESCENT EDUCATION 2-4 Credit Hours
(Repeatable for credit) Independent study in Adolescent Education.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory

ADED 42268 TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS 3 Credit Hours
Methodology and materials for effective teaching of secondary school mathematics will be discussed and implemented in field experiences.
Prerequisite: ADED 32268.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 42275 TEACHING SOCIAL STUDIES IN GRADES 7 - 12 3 Credit Hours
An advanced social studies education teaching and learning course. Addresses a range of topics that will help you engage your 7th–12th grade students with social studies.
Prerequisite: Minimum C grade in ADED 32275; and admission to advanced study.
Corequisite: ADED 42292.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 42277 TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING 3 Credit Hours
Analysis of trends in science teaching and materials and methods for introducing topics from the history of science and from health education.
Prerequisite: ADED 32277; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 42292 FIELD WORK PRACTICUM (ELR) 3 Credit Hours
(Repeatable for credit) A field experience in a middle or high school. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Students must be on track for student teaching the following semester in order to register for this course.
Prerequisite: Minimum C grade in ADED 32268 or ADED 32275 or ADED 32277; or ADED 43325 and ADED 43335; and advanced study.
Corequisite: ADED 42268 or 42275 or 42277 or ADED 43325.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ADED 42392 SECONDARY STUDENT TEACHING (ELR) 9 Credit Hours
Provides a full time student-teaching experience. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: ADED 42292; and admission to advanced study.
Corequisite: ADED 49525.
Schedule Type: Practical Experience
Contact Hours: 35 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ADED 43210 TEACHING READING IN MIDDLE AND HIGH SCHOOL WITH YOUNG ADULT LITERATURE 3 Credit Hours
Through reading, young adults have the opportunity to reflect on their lives and to consider diverse cultures, time periods, and experiences. Readers can recognize themselves or grow to know someone, something, or someplace quite different. This course supports the pre-service Integrated Language Arts educator in learning how to plan and implement reading experiences, specifically focused on young adult literature and its instructional uses in middle school and high school language arts classrooms. This class will place an emphasis on the reading process and the foundations of reading for middle and high school students.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 43315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS 3 Credit Hours
(Slashed with ADED 53315) Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.
Prerequisite: ADED 32142 and MCED 40007; and advanced standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 43325 MULTI-MODAL LITERACIES IN THE SECONDARY CLASSROOM 3 Credit Hours
Explores the pedagogies of reading and composing with a variety of print and non-print texts. Focuses on the impact of media culture on adolescent learners. Utilizes new literacies to enhance learning in the content area.
Prerequisite: ADED 32142 and ADED 43315 and ADED 43335 and MCED 40007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 43335 TEACHING LANGUAGE AND COMPOSITION 3 Credit Hours
Explores linguistic and rhetorical perspectives on the teaching of composition in secondary schools.
Prerequisite: ADED 32142 and MCED 40007; and advanced standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 49525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
Reflection on teaching for the purpose of instructional improvement. Emphases are placed on preparing implementing and assessing a curricular unit collaborative problem solving conducting an action research project and creating a portfolio.
Prerequisite: Admission to advanced study.
Corequisite: ADED 42392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 52267 IMPROVING MATHEMATICS INSTRUCTION FOR ADOLESCENT AND ADULT EDUCATION 3 Credit Hours
Methodology and materials for effective teaching of secondary school mathematics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 52277 TEACHING SCIENCE IN THE SECONDARY SCHOOL 3 Credit Hours
Analysis of teaching materials, demonstrations and participation in science classes appropriate for graduate students seeking certification to teach science in the secondary school.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 53315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS 3 Credit Hours
(Slashed with ADED 43315) Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 62092 ADVANCED PRACTICUM 3 Credit Hours
(Repeatable for credit) Internship held at a school under the direction of a cooperating teacher, requiring a minimum of 100 field hours. Activities included in the internship include lesson plan preparation, unit planning, evaluation of student learning and other duties typical of teachers in the performance of their role in the school setting. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which the practicum will take place.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 6.67 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 62145 PRINCIPLES OF SECONDARY TEACHING 3 Credit Hours
Principles of teaching adolescents including curriculum, planning instruction, assessment, fundamentals of evaluation, and reflective practice. All course content focuses on preparing teachers for secondary school teaching.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 62191 SEMINAR IN SECONDARY EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Cross-listed with ADED 72191) Study and experience of various theoretical and methodological and practical approaches to special problems.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ADED 62198 RESEARCH IN SECONDARY EDUCATION 2-15 Credit Hours
(Repeatable for credit) Students pursue an individualized research project under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2-15 other
Grade Mode: Standard Letter

ADED 63192 SECONDARY EDUCATION STUDENT TEACHING INTERNSHIP 1-10 Credit Hours
(Repeatable for credit) Internship held at a secondary school under the direction of a cooperating teacher. A minimum of 50 hours per credit are required. Activities included in the internship include lesson plan preparation, unit planning, evaluation of student learning and other duties typical of teachers in the performance of their role in the school setting.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33-33.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 63292 ADOLESCENT/YOUNG ADULT INTEGRATED LANGUAGE ARTS ADDITIONAL LICENSURE INTERNSHIP 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within integrated language arts.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 63392 ADOLESCENT/YOUNG ADULT INTEGRATED SOCIAL STUDIES ADDITIONAL LICENSURE INTERNSHIP 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within integrated social studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 63492 ADOLESCENT/YOUNG ADULT INTEGRATED MATHEMATICS ADDITIONAL LICENSURE INTERNSHIP 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within integrated mathematics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 63592 ADOLESCENT/YOUNG ADULT INTEGRATED SCIENCE ADDITIONAL LICENSURE INTERNSHIP 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within integrated science.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 67147 TEACHING ADOLESCENTS IN THE SECONDARY SCHOOL CULTURE 3 Credit Hours
Providing for motivation, discipline and instruction of adolescents within the culture of the secondary school.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 67232 SECONDARY SCHOOL SOCIAL STUDIES 3 Credit Hours
(Cross-listed with ADED 77232) General focus is on examining current instructional and curricular trends in teaching social studies. Emphasis is placed on strategies of teaching developing student's critical thinking skills role of the computer use of primary sources teaching controversial issues and stimulating active citizenship.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 72191 SEMINAR IN SECONDARY EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Cross-listed with ADED 62191) Study and experience of various theoretical and methodological and practical approaches to special problems.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Aeronautics (AERN)

AERN 15000 INTRODUCTION TO AERONAUTICS 3 Credit Hours
Introduction to aeronautical and aerospace technology, including historical development, underlying science and technical applications. The past, present and future social, economic, technical and political impact of aviation are also explored.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 15740 ELEMENTS OF FLIGHT THEORY 5 Credit Hours
Basic instruction in all areas which gives the student aeronautical knowledge required for a private pilot certificate.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

AERN 15745 NON-PILOT ELEMENTS OF FLIGHT THEORY 3 Credit Hours
Basic instruction in areas to include: federal regulations, navigation, communication, airspace, weather, basic aerodynamics and aero-medical factors which give the student a foundation in aeronautics. This course does not satisfy the Federal Aviation Regulation requirement for endorsement to take the Airman Knowledge Exam for a private pilot nor does it satisfy the Aircraft Dispatch minor.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 15750 ELEMENTS OF FLIGHT THEORY I 3 Credit Hours
Basic Instruction in all areas which gives the student aeronautical knowledge required for a student pilot certificate. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Corequisite: AERN 15751.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 15751 PRIVATE PILOT FLIGHT I 2 Credit Hours
Flight course designed to fulfill FAA requirements for a student pilot completing their first supervised solo. Student is required to spend a minimum of two hours each day, five days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must obtain student pilot certificate, hold a valid FAA medical and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: Professional Pilot major.
Pre/corequisite: MATH 11010.
Corequisite: AERN 15750.
Schedule Type: Flight Training
Contact Hours: 3.5 other
Grade Mode: Standard Letter-IP

AERN 15752 ELEMENTS OF FLIGHT THEORY II 2 Credit Hours
Basic instruction in all areas which gives the student aeronautical knowledge required for a private pilot certificate. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 15750 with a minimum C grade; and minimum 2.500 overall GPA.
Corequisite: AERN 15753.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 15753 PRIVATE PILOT FLIGHT II 3 Credit Hours
Flight course designed to fulfill FAA requirements for a private pilot certificate. Student is required to spend a minimum of two hours each day, five days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must obtain student pilot certificate, hold a valid FAA medical and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: Minimum C grade in the following courses: AERN 15740 or (AERN 15750 and AERN 15751); and minimum 2.500 overall GPA; and Professional Pilot major.
Corequisite: AERN 15752.
Schedule Type: Flight Training
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

AERN 22500 INTRODUCTION TO AVIATION MAINTENANCE MANAGEMENT 2 Credit Hours
Introduction to the day-to-day concepts used by an aviation maintenance manager. Course provides an overview of the different aspects that go into managing human resources and overseeing the safe, legal and efficient inspection, repair and return to service of aircraft when working at a private maintenance repair organization (MRO), an airline, or a fixed-base operator (FBO). On a more practical level, course reviews leadership/management styles and challenge students to identify what type of manager they want to become.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 25100 INTRODUCTION TO AVIATION MANAGEMENT 3 Credit Hours
Introduction to the day-to-day concepts of airline, airport and other businesses pertaining to the aviation industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 25250 ELEMENTS OF AVIATION WEATHER 3 Credit Hours
Aviation weather provides a comprehensive look at the Earth's atmosphere, general patterns and specific phenomena and a focus on weather as related to flight.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Air Transportation

AERN 25251 WEATHER INFORMATION SYSTEMS 3 Credit Hours
Introduction to various weather sensing equipment and the systems that deliver weather information to various users. An in-depth look at the National Weather Service, NOAA, NASA, FAA and commercially available weather information systems.
Prerequisite: AERN 25250 or GEOG 31062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 25252 THUNDERSTORMS AND SEVERE WEATHER 3 Credit Hours
Analysis and forecast of thunderstorm and severe convective weather activity development and movement. Analysis of atmospheric information and clouds, radar, computer models and charts. A study of mid-latitude cyclones and some focused study on tropical depressions, hurricanes, tornadoes, dust and sand storms. Study includes geographic effects and cyclone life cycles. Provides an in-depth look at the development of severe weather products for aviation such as AIRMET, SIGMET and Convective SIGMET.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 25350 FUNDAMENTALS OF AIR TRAFFIC CONTROL 2 Credit Hours
Introduction to the National Airspace System (NAS) and the orders, manuals and procedures associated with the purposes and directives of the air traffic control environment. Introduces and discusses those areas of required knowledge of the AT-Basics needed to become an air traffic controller. These topics include the principles of flight, the FARs, navigation, aviation weather and other ATC related areas.
Corequisite: AERN 25351.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 25351 FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY 1 Credit Hour
Introductory laboratory course about air traffic management; the National Airspace System; and the orders, manuals and procedures associated with the purposes and directives of the air traffic control environment. The course includes purposes and responsibilities of the ATC system.
Corequisite: AERN 25350.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

AERN 25800 INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS 3 Credit Hours
An overview of unmanned aircraft systems. Course topics include the history, development and evolution of unmanned aircraft; current and forecast trends and issues; capabilities and performance of unmanned aircraft; UAS applications; regulations governing unmanned aircraft systems; unmanned aircraft flight operations; and opportunities and career paths in unmanned aircraft systems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Air Transportation, ITAG Aircraft Transportation

AERN 30000 PROFESSIONAL DEVELOPMENT IN AERONAUTICS 1 Credit Hour
The course will build upon the lessons learned in Professional Development in Aeronautics I by providing direct opportunities for interviewing and networking with professionals working in the aeronautics industry. Students will continue preparation for a career in the aeronautics industry by revising and implementing their career plan and goals.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

AERN 32100 ADVANCED AIRCRAFT COMPOSITE TECHNOLOGY 2 Credit Hours
As changes and improvements in technology progress in aircraft manufacturing, composites are becoming commonplace on airframes of all sizes and varieties. This course provides a more in depth look at composites than what an airframe and powerplant mechanic receives during their initial training. Students study the theory behind aircraft composites and composite inspection and repair with a focus on latest updates in composite technology. Students observe how composites are used practically in the aviation industry and investigate the most recent advances in composite technology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 32200 AVIONICS MAINTENANCE FOR GLASS COCKPITS 2 Credit Hours
Advanced avionics utilizing computers and screens, "glass cockpits," has become standard on most new aircraft including smaller general aviation (GA) aircraft. Course focuses on the different maintenance and troubleshooting aspects of working with these systems, with a specific focus on those systems installed on smaller GA aircraft.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 32300 INSPECTION AUTHORIZATION I 2 Credit Hours
Course prepares students by instructing them in the knowledge and subject areas necessary to pass the Inspection Authorization (IA) exam. Inspection authorization is issued to students by the FAA to airframe and powerplant mechanics after they have completed experience requirements and passed the exam. To register for the course, students must meet the FAA eligibility requirements to sit for the IA exam and receive the authorization.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 32400 AVIATION COMMUNICATIONS 2 Credit Hours
When it comes to communications between pilots, dispatchers, managers and aviation maintenance technicians, there can be many different terms and abbreviations that cause confusion and miscommunications. This course outlines common terms and abbreviations used in the different aviation departments and addresses how to avoid common pitfalls in communication between maintenance personnel, pilots, dispatchers and upper management. Additionally, students are introduced to techniques for interaction to foster a positive work and safety culture within their organizations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 35020 AIRCRAFT PROPULSION SYSTEMS 3 Credit Hours
A study of basic reciprocating and gas turbine engine theory. Course investigates powerplant construction, component function, including propeller and fuel systems, ancillary systems that support aircraft propulsive systems and performance characteristics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35021 RADAR SATELLITE WEATHER INFORMATION 3 Credit Hours
A study of satellite and radar imagery. A focus on both passive and active remote sensing systems. Student develops an understanding of the properties of meteorological radar sensing, signal propagation and estimating precipitation. Provides an in-depth look at radar and satellite products and their application to aircrew operations. Emphasis is placed on real-time identification of weather phenomena affecting a flight in progress.
Prerequisite: AERN 25250 or GEOG 31062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35022 WEATHER STRATEGY FOR AIRCREWS 3 Credit Hours
Flying strategies for various weather conditions to include low ceilings and visibility, turbulence, cold weather, thunderstorms and wind shear. An exploration of basic and advanced weather theory and how to get the best use of FAA and commercially available forecast products and briefing services. Course takes a condition-by-condition look at various hazardous weather phenomena.
Prerequisite: AERN 25250 or GEOG 31062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35030 INTRODUCTION TO CORPORATE AVIATION 3 Credit Hours
Introduces students to the business and corporate sectors of commercial aviation. Examines business and corporate aviation from the joint perspectives of operations and maintenance management as well as flight operations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35031 AIR TRANSPORTATION INDUSTRY REGULATIONS 3 Credit Hours
This course will examine the functions of the regulatory agencies in the aviation industry. The evolution of Administrative Regulation, Federal Aviation Regulation and the rule making process.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35040 AIRCRAFT SYSTEMS I 3 Credit Hours
In-depth study of various aircraft systems including electrical systems, environmental control systems and fuel systems as applied to aircraft.
Prerequisite: PHY 13002 or PHY 13012 or PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35150 AIRCRAFT STRUCTURES 3 Credit Hours
Aircraft structural design investigations dealing with theory and applications in aviation.
Prerequisite: PHY 13001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AERN 35250 UNMANNED AIRCRAFT SYSTEMS LAW AND REGULATIONS 2 Credit Hours
This course introduces students to the changing and dynamic area of UAS laws and regulations. Students will study the Constitutional, statutory and regulatory sources of law. Students will study the Congressional and regulatory development of UAS laws. Students will learn how the regulatory process, advanced proposals of rulemaking and notice of proposed rule making operates. Students will also study pertinent case law regarding Constitutional, criminal, privacy issues, tort and products liability issues. Finally, students will learn and understand how to legally operate a UAS in the National Airspace System in an always changing legal and technology environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 35339 FIXED BASE OPERATOR OPERATIONS 3 Credit Hours
A study of general aviation operations and the role of fixed base operators in the National Aviation System; management functions; marketing; profit; cash flow; financing; human resources; organization; administration; management information systems; operations; maintenance; safety; liability; physical facilities; and the future of general aviation.
Prerequisite: AERN 15000 and AERN 25100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35340 AIRPORT MANAGEMENT 3 Credit Hours
Introduction to the many functions that are involved in the operation and management of an airport. Includes an analysis of the development of the airport-airway system, airport legislation, airport planning and airport operations.
Prerequisite: AERN 15000 and AERN 25100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35341 AIR TRANSPORTATION SYSTEMS 3 Credit Hours
Descriptive course in airline operations as seen from the air carrier's business perspective. Emphasis is on business practices and techniques unique to aviation.
Prerequisite: AERN 15000 and AERN 25100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35350 TERMINAL OPERATIONS 3 Credit Hours
Intermediate to advanced level terminal operations course. This course includes an emphasis on ATCT operations at the ground control and local control positions, as well as TRACON operations in arrival, departure and overflight roles. Topics covered include, but are not limited to, phraseology, maps, procedures, LOAs and weather.
Prerequisite: AERN 15740 or AERN 15745 or AERN 15750; and AERN 25350 and AERN 25351.
Corequisite: AERN 35351.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35351 TERMINAL OPERATIONS LABORATORY 2 Credit Hours
Intermediate to advanced level terminal operations course. This course includes an emphasis on ATCT operations at the ground control and local control positions, as well as TRACON operations in arrival, departure and overflight roles. Topics covered include, but are not limited to, phraseology, maps, procedures, LOAs and weather.
Prerequisite: AERN 15740 or AERN 15745 or AERN 15750; and AERN 25350 and AERN 25351.
Corequisite: AERN 35350.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

AERN 35650 NON-PILOT INSTRUMENT FLIGHT THEORY 3 Credit Hours
Course instruction for instrument flight to include: navigation facilities and equipment (both ground and aircraft), general weather theory and weather related to instrument meteorological conditions, weather charts and sources, FAA regulations pertinent to the conduct of instrument flight, aeronautical charts for instrument flight and techniques and procedures unique to the conduct of instrument flight. This course does not satisfy the Federal Aviation Regulation requirement for endorsement to take the Airman Knowledge Exam for an Instrument Rating nor does it satisfy the Aircraft Dispatch minor.
Prerequisite: AERN 15740 or AERN 15745; and AERN 25250.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35660 INSTRUMENT FLIGHT THEORY 3 Credit Hours
Course instruction on instrument flight to include navigation facilities (both ground and aircraft), weather theory and weather specific to instrument meteorological conditions, weather charts and sources, cross country flight planning for IFR, FAA regulations specific to IFR flight, charts for instrument flight, aircraft performance, decision making, aircraft systems and instruments related to IFR flight and instrument flight techniques and procedures. This course meets the requirements for endorsement to take the FAA Airman Knowledge Exam for an instrument rating and satisfies the requirements of the training course outline approved by the FAA. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: Minimum C grade in the following courses: AERN 15740 or (AERN 15752 and AERN 15753); and minimum 2.500 overall GPA; and Aeronautical Studies major or Air Traffic and Airspace Management major or Aviation Management major or Professional Pilot major or Unmanned Aircraft Systems Flight Operations major.
Pre/corequisite: AERN 25250.
Corequisite: AERN 35661.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35661 INSTRUMENT PILOT FLIGHT 3 Credit Hours
Comprehensive flight course for the professional pilot candidate that introduces commercial pilot flight skills and meets the training requirements of the FAA instrument rating. Student is required to spend a minimum of two hours daily, five days a week, at the airport until all course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid private pilot certificate in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: MATH 11010; and AERN 15753 with a minimum C grade; and minimum 2.500 overall GPA; and Professional Pilot major.
Corequisite: AERN 35660.
Schedule Type: Flight Training
Contact Hours: 6.9 other
Grade Mode: Standard Letter-IP

AERN 35665 COMMERCIAL PILOT FLIGHT: NAVIGATION 3 Credit Hours
Advanced flight course for the professional pilot candidate to meet aeronautical experience requirements of the FAA commercial pilot certificate. Primary emphasis is on cockpit resource management, advanced navigational practices and advanced instrument instruction. Students are required to spend a minimum of two hours daily, five days a week, at the airport until all course requirements have been attained. When not flying, students go through personalized ground instruction. Students must hold valid private pilot certificate with an instrument rating in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 35660 and AERN 35661 with a minimum C grade; and minimum 2.500 overall GPA; and Professional Pilot major.
Schedule Type: Flight Training
Contact Hours: 5 other
Grade Mode: Standard Letter-IP

AERN 35760 COMMERCIAL PILOT THEORY 2 Credit Hours
Comprehensive instruction covering all areas necessary to exercise the privileges of a commercial pilot. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 35660 with a minimum C grade; and minimum 2.500 overall GPA.
Corequisite: AERN 35761.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 35761 COMMERCIAL PILOT FLIGHT 3 Credit Hours
Comprehensive flight course for the professional pilot candidate to meet the requirements of the FAA commercial pilot certificate. Student is required to spend up to two hours daily, five days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid private pilot certificate with an instrument rating in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 35665 with a minimum C grade; and minimum 2.500 overall GPA; and Professional Pilot major.
Corequisite: AERN 35760.
Schedule Type: Flight Training
Contact Hours: 4.7 other
Grade Mode: Standard Letter-IP

AERN 35810 UNMANNED AIRCRAFT SYSTEMS 3 Credit Hours
Provides an understanding of the theory of operation, architecture and performance characteristics of various airborne-onboard systems and subsystems utilized in unmanned aerial vehicles. Also includes examination of aircraft materials, structural components and configuration.
Prerequisite: AERN 25800.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35830 UNMANNED AIRCRAFT SYSTEMS SENSING AND SENSOR SYSTEMS 3 Credit Hours
An in-depth study of sensors and remote sensing systems used to support unmanned aircraft operations. Course emphasizes the theory, technical characteristics, capabilities and operational use of various sensors and sensing systems. Course also investigates sensor data generation and sensing system image interpretation and analysis.
Prerequisite: AERN 25800.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35840 UNMANNED AIRCRAFT SYSTEMS COMMAND, CONTROL AND COMMUNICATIONS 3 Credit Hours
Explores the technological and operational aspects of ground-based and airborne command, control and communications systems used in unmanned aircraft systems. Topics include UAV sense-and-avoid systems, data link systems, voice communications systems, telemetry systems, navigation systems and manual and automatic flight control systems.
Prerequisite: AERN 25800.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35850 EMERGENT AIR VEHICLES AND INFRASTRUCTURE 3 Credit Hours
This course examines the emerging vehicles and ground support technology that will constitute Advanced Air Mobility (AAM) and Urban Air Mobility (UAM). Students learn about the concepts of the vehicles that will be required to make up a safe and efficient aviation transportation system. Students study the highly automated aircraft that will operate and transport passengers or cargo at lower altitudes within urban and suburban areas. Students study UAM, which will be composed of an ecosystem that considers the evolution and safety of the aircraft, the framework for operation, access to airspace, infrastructure development and community engagement.
Prerequisite: None.
Corequisite: AERN 35851.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35851 EMERGENT AIR VEHICLES AND INFRASTRUCTURE LABORATORY 1 Credit Hour
Students develop and design the emerging vehicles and ground support technology that will constitute Advanced Air Mobility (AAM) and Urban Air Mobility (UAM). Students also design the framework for operation, access to airspace, infrastructure development and community engagement.
Prerequisite: None.
Corequisite: AERN 35850.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

AERN 35892 SMALL UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM (ELR) 2 Credit Hours
Small Unmanned Aircraft Systems Operations Flight Practicum. Student is required to spend a minimum of 15 hours during the semester flying a small unmanned aircraft system. When not flying, the student goes through personalized ground instruction. Special emphasis will be placed on the regulatory requirements of sUAS operations, applied weather theory, mission planning and emergency procedures. Students must obtain FAA Part 107 Unmanned Aircraft System Certification prior to starting this course.
Prerequisite: AERN 25800.
Schedule Type: Flight Training, Practical Experience
Contact Hours: 1 lecture, 3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

AERN 42000 HUMAN FACTORS IN AVIATION MAINTENANCE 2 Credit Hours
There are many different human factors at play when technicians are engaged in aviation maintenance, as well as when overseeing others doing this work. Using the PEAR model (people, environment, actions, resources), students in the course study the different aspects of human factors in relation to aviation maintenance, and address how these can affect an aviation maintenance manager.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 42392 ADVANCED PISTON AIRCRAFT MAINTENANCE (ELR) 1-8 Credit Hours
(Repeatable for credit) This variable credit course focuses on piston engine aircraft and the associated systems and engines on their respective airframes. Numerous aircraft utilize piston engines and advanced technology with unique sets of parts, equipment and maintenance recommendations, practices and procedures from original equipment manufacturers (OEM). Many OEM and other accredited organizations offer courses on these airframes and engines. Advanced standing course credit will be awarded based upon the evidence of certificates of completion from approved organizations for appropriate applicable courses.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-24 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 42492 INSPECTION AUTHORIZATION II (ELR) 2-4 Credit Hours
The Inspection Authorization (IA) credential is issued by the FAA to airframe and powerplant certified maintenance technicians after they have completed experiential requirements and passed an exam. After receiving the IA credential, a technician must keep up with the currency and renewal requirements through performing a required amount of inspections, repairs and alterations, or by completing yearly training courses. Advanced standing course credit is awarded based upon evidence of holding a current FAA Inspection Authorization, as well as having successfully renewed it.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 6-12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 42592 ADVANCED TURBINE AIRCRAFT MAINTENANCE (ELR) 1-8 Credit Hours
(Repeatable for credit) Transport category aircraft utilize turbine engines and advanced technology with unique sets of parts, equipment and maintenance recommendations, practices, and procedures from manufacturers as they work on the systems in transport category aircraft with turbine engines. This variable credit course allows for experience on turbine engine aircraft and their associated systems with airframes to include, but not limited to, Airbus, Boeing, Cessna Citation, Embraer, Dassault Falcon, Beech King Air and Bombardier Lear Jet. Original Equipment Manufacturers (OEM) and other accredited organizations offer courses on these airframes and their associated turbine engines. Advanced standing course credit will be awarded based upon evidence of the certification of completion of appropriate applicable courses offered by an approved organization.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-24 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 42799 STRATEGIC AVIATION MAINTENANCE MANAGEMENT CAPSTONE (ELR) (WIC) 2 Credit Hours
Capstone course is designed to address evolving issues and challenges in aviation maintenance management. Students discriminate between effective and ineffective aircraft maintenance programs while working on teams to construct a preliminary plan to establish and run an efficient, reliable and safe aircraft maintenance program of their own.
Prerequisite: Senior standing.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

AERN 45001 INITIAL DISPATCH I 2 Credit Hours
Part I of III preliminary courses required for students not currently enrolled at Kent State University. Provided in order to meet Federal Aviation Regulation requirements under Part 65 for training to become an Aircraft Dispatcher. This course may be necessary as preliminary training to enroll in AERN 45010 and 45020 Aircraft Dispatch I and II respectively. Successful completion of Dispatch I and II results in authorization to take the FAA written and practical exams for the Aircraft Dispatcher certificate. Need for the course depends on previous coursework or FAA certificates completed.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45002 INITIAL DISPATCH II 2 Credit Hours
Part II of III preliminary courses required for students not currently enrolled at Kent State University to enroll in Aircraft Dispatch I or Aircraft Dispatch II. This course is a continuation of training required by Part 65 of the Federal Aviation Regulations to earn an Aircraft Dispatcher Certificate. It may be required in order to meet the registration requirements for AERN 45010 and 45020, Aircraft Dispatch I and II of which successful completion results in authorization to take the FAA written and practical exams for the Aircraft Dispatcher Certificate. Need for the course depends on previous coursework or FAA certificates completed.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45003 INITIAL DISPATCH III 2 Credit Hours
Part III of III preliminary courses required for students not currently enrolled at Kent State University to enroll in Aircraft Dispatch I or Aircraft Dispatch II. This course is the final course to complete preliminary training required by Part 65 of the Federal Aviation Regulations to earn an Aircraft Dispatcher Certificate. It may be required in order to meet the registration requirements for AERN 45010 and 45020, Aircraft Dispatch I and II respectively, of which successful completion results in authorization to take the FAA written and practical exams for the Aircraft Dispatcher Certificate. Need for the course depends on previous coursework or FAA certificates completed.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45010 AIRCRAFT DISPATCH I 3 Credit Hours
This is the first of two courses required to qualify for the FAA Aircraft Dispatcher Airman Knowledge Test and the associated FAA Practical Exam for issuance of an Aircraft Dispatcher License. Topics include weather theory and weather services, regulations, aircraft systems, dispatch operations, decision making, human error, situational awareness, communications and aeronautical charts. Students must be 21 yrs of age or turn 21 during the semester taken. Special course fees apply.
Prerequisite: AERN 35650 or AERN 35660; and special approval.
Corequisite: AERN 45020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45020 AIRCRAFT DISPATCH II 3 Credit Hours
Second of two courses designated for the practical application of previously acquired knowledge necessary to perform aircraft dispatcher functions. Topics as applied to dispatch functions include briefing techniques, weather analysis and flight planning, aircraft systems, resource management, decision making, and cargo carrying. Completion required to earn a Graduation Certificate required by FAR Part 65 to qualify for a practical exam. An instructor endorsement to take the FAA aircraft dispatcher practical test is also required and is issued separately and solely at the discretion of the course instructor. Special course fees may apply. Please visit www.kent.edu/caest/flight-technology and click on the Flight Course Fees link for more information. The student must be aged 21 or turn 21 during the semester taken.
Corequisite: AERN 45010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45030 AIRCRAFT SYSTEMS II 3 Credit Hours
Continuation of AERN 35040. An in-depth study of various aircraft systems including auxiliary systems, undercarriage, hydraulics, flight controls, instruments and integrated systems as applied to aircraft.
Prerequisite: AERN 35040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45040 LABOR RELATIONS IN AVIATION 3 Credit Hours
Legislation governing labor relations in the private sector of the United States economy consist of two separate and distinct pieces of legislation: the Railway Labor Act and National Labor Relations Act. This course focuses on the examination of air transport labor relations in the context of these key laws. As the student of aviation management comes in contact with both acts though this course, the student learns similarities and differences of each and their resultant impact. The student actively applies this knowledge during a mock labor relations negotiation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45099 AERONAUTICAL STUDIES CAPSTONE (ELR) 3 Credit Hours
(Repeatable for credit) An in-depth study of the student's area of focus within aeronautical studies, culminating to a senior level project. At the discretion of the aeronautics faculty, students may substitute another capstone course for this course. Students must pass this capstone with a grade of C (2.000) or better in order to graduate.
Prerequisite: Senior standing.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 45130 PHYSIOLOGY AND HUMAN FACTORS IN AVIATION 3 Credit Hours
A study of the interaction of the human body with flight and those human factors that affect flight operations. Students understand how issues related to spatial disorientation, human error, aeronautical decision making, hazardous attitudes, human-machine interaction, fatigue and physical fitness impact safe operations on the ground and in the air.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45135 AVIATION SAFETY THEORY 3 Credit Hours
An in-depth study of aviation human safety theories and the basics of risk and safety management.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45150 APPLIED FLIGHT DYNAMICS I 3 Credit Hours
An applied aircraft flight dynamics course that demonstrates aircraft, engine and propeller performance with the overall flight performance and stability of the typical subsonic airplane. Emphasis is placed on the aerodynamics of flight.
Prerequisite: PHY 13001 or PHY 23101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45199 AIRPORT OPERATIONS (ELR) 3 Credit Hours
This course focuses on the daily functions of airport operations. Students receive hands-on training in performing daily inspections at the Kent State Airport to evaluate and keep track of airfield discrepancies. Students use a database to address the Airport Certification Manual and FAR Part 139 criteria.
Prerequisite: AERN 35340.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 45250 AVIATION LAW 3 Credit Hours
Involves a study of the origins of Western jurisprudence, common law and aviation law as an integral part of law in the U.S. Also introduces international aviation law by lateral agreement, as well as U.S. Constitutional law and its amendments as they relate to the structure and process of aviation law. Criminal and civil law as they relate to civil aviation are also addressed. Case studies are included.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45255 LEGAL ANALYSIS OF AVIATION AND ENGINEERING DISASTERS 2 Credit Hours
This course examines legal issues of mass torts in the specific arena of aviation and engineering products liability, negligence and personal injury law. Special focus is on class action lawsuits that give rise to mass tort litigation. Emphasis is on strict product liability, design defect, manufacturing defect, negligence, defenses to negligence and the claims that have given rise to mass tort litigation in U.S. and international jurisprudence. The Federal Torts Claims Act (FTCA) is examined in the context of aviation and aerospace engineering.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45299 STRATEGIC AVIATION MANAGEMENT (ELR) 3 Credit Hours
Serves as the capstone course for the Aviation Management major. As such, it is designed to address evolving issues and challenges in aviation management with a particular emphasis on airlines and airports through an application of previously mastered aviation management courses. Students must pass the course with a minimum grade of C (2.000).
Prerequisite: AERN 35341 and AERN 45199; and senior standing.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

AERN 45345 EN ROUTE OPERATIONS 3 Credit Hours
Intermediate to advanced en route course that focuses on low altitude and en route operations. We also discuss Non-RADAR, high altitude and special operations. Topics covered include, but are not limited to, phraseology, maps, LOAs, rules and procedures in non-RADAR and RADAR environments.
Prerequisite: AERN 35350 and AERN 35351; and junior standing.
Corequisite: AERN 45346.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45346 EN ROUTE OPERATIONS LABORATORY 1 Credit Hour
Intermediate to advanced level en route operations course. Students apply their knowledge and skills of en route operations in a practical setting. Topics covered include, but are not limited to, phraseology, maps, RADAR and D-Side procedures, LOAs and weather.
Prerequisite: AERN 35350 and AERN 35351; and junior standing.
Corequisite: AERN 45345.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

AERN 45399 AIR TRAFFIC CONTROL CAPSTONE (ELR) 1 Credit Hour
The culminating experience for the Air Traffic Control program of study. Students will work in groups to research and present a possible solution to a current event in the world of aviation and air traffic control.
Prerequisite: AERN 45345 and AERN 45346; and Aeronautical Studies major or Air Traffic and Airspace Management major or Aviation Management major or Professional Pilot major or Unmanned Aircraft Systems Flight Operations major.
Schedule Type: Project or Capstone
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 45400 AVIATION MAINTENANCE LAW AND REGULATIONS 2 Credit Hours
This course introduces students to the history, development of case law, statutory law and regulatory law of aviation maintenance. Special emphasis will be placed on the Federal Aviation Regulations and how they influence the Airframe and Power Plant Mechanic. Students will learn how the regulatory process works, the certification of mechanics works, and how to effectively read and interpret FAA regulations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45499 AIR TRAFFIC CONTROL CAPSTONE LABORATORY (ELR) 2 Credit Hours
The culminating experience for the Air Traffic Control program of study. Students participate in realistic simulations where students take the roles within all three areas of ATC (Tower, TRACON, and ARTCC). These scenarios often involve multiple domains simultaneously where students must work together to successfully finish, simulating a normal day for many controllers.
Prerequisite: AERN 45345 and AERN 45346; and Aeronautical Studies major or Air Traffic and Airspace Management major or Aviation Management major or Professional Pilot major or Unmanned Aircraft Systems Flight Operations major.
Pre/corequisite: AERN 45399.
Schedule Type: Laboratory, Project or Capstone
Contact Hours: 4 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 45550 MULTI-ENGINE PILOT - THEORY 1 Credit Hour
Course provides the required ground and flight instruction necessary to qualify students for the multi-engine rating from the FAA. Student is required to spend a minimum of two hours daily, three days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid commercial pilot certificate with an instrument rating in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 35761; and minimum 2.500 overall GPA; and Professional Pilot major.
Corequisite: AERN 45551.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

AERN 45551 MULTI-ENGINE PILOT - FLIGHT 1 Credit Hour
Course provides the required ground and flight instruction necessary to qualify students for the multi-engine rating from the FAA. Student is required to spend a minimum of two hours daily, three days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid commercial pilot certificate with an instrument rating in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 35761; and minimum 2.500 overall GPA; and Professional Pilot major.
Corequisite: AERN 45550.
Schedule Type: Flight Training
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

AERN 45648 THEORY OF FLIGHT INSTRUCTION (ELR) 3 Credit Hours
Detailed fundamentals of teaching flight and ground instruction and the analysis of flight techniques, in order to meet requirements of FAR's part 61.185(a). This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 35040; and AERN 35665 or AERN 35760 with a minimum C grade; and AERN 35761 and AERN 45150 with a minimum C grade; and minimum 2.500 overall GPA.
Corequisite: AERN 45649.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 45649 FLIGHT INSTRUCTOR - AIRPLANES 3 Credit Hours
(Repeatable for credit) Flight course with emphasis on instructing techniques in aircraft from right seat. Includes student evaluation techniques to meet Federal Aviation Regulation for certified flight instructor. Student is required to spend a minimum of two hours daily, five days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid commercial pilot certificate with an instrument rating in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 35761; and AERN 35665 or AERN 35760 with a minimum C grade; and Professional Pilot major.
Corequisite: AERN 45648.
Schedule Type: Flight Training
Contact Hours: 4.5 other
Grade Mode: Standard Letter-IP

AERN 45655 ADVANCED MULTI-ENGINE PILOT FLIGHT 1 Credit Hour
Ground flight instruction for proficiency and required hours in preparation for multi-engine instruction. Special course fees may apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid commercial pilot certificate with an instrument rating in an airplane single engine land, certified flight instructor airplane certificate and a valid FAA medical; maintain at least second class privileges; and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval.
Prerequisite: AERN 45550 and AERN 45551 with a minimum C grade; and minimum 2.500 overall GPA; and Professional Pilot major.
Schedule Type: Flight Training
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

AERN 45657 MULTI-ENGINE FLIGHT INSTRUCTOR 1 Credit Hour
(Repeatable for credit) Course provides the necessary ground and flight instruction to professionally qualify students for the multi-engine instructor rating by the FAA. Student is required to spend two hours daily, three days a week, at the airport. When not flying, the student goes through personalized ground instruction with the flight instructor. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid commercial pilot certificate with an instrument rating in an airplane single engine land, certified flight instructor airplane certificate and a valid FAA medical; maintain at least second class privileges; and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval.
Prerequisite: Minimum C grade in the following courses: AERN 45550 and AERN 45551 and AERN 45648 and AERN 45649 and AERN 45655; and minimum 2.500 overall GPA; and Professional Pilot major.
Schedule Type: Flight Training
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

AERN 45659 UPSET RECOVERY TRAINING 1 Credit Hour
Consisting of both ground school and hands-on flight components, this upset training course prepares pilots for emergency situations they may encounter that cannot properly be replicated in a typical GA aircraft. Extensive piston driven and swept wing jet aerodynamic characteristics, accident analysis and recovery profile. Special course fees may apply. Please visit www.kent.edu for a list of fees. A private pilot certificate (airplane single engine land) is required. Students who hold a private pilot certificate meet the prerequisite requirement of AERN 15753. Please speak to an advisor for more information.
Prerequisite: AERN 15753 with a minimum C grade; and minimum 2.500 overall GPA.
Schedule Type: Flight Training
Contact Hours: 1 other
Grade Mode: Standard Letter

AERN 45660 FLIGHT INSTRUCTOR - INSTRUMENTS THEORY 1 Credit Hour
Flight theory course with emphasis on flight instructing techniques involved with instrument flight and air traffic control procedures. Students must hold valid commercial pilot certificate with an instrument rating in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 45649; and AERN 45648 with a minimum C grade; and minimum 2.500 overall GPA; and Professional Pilot major.
Corequisite: AERN 45661.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

AERN 45661 FLIGHT INSTRUCTOR - INSTRUMENTS FLIGHT 1 Credit Hour
Flight course with emphasis on flight instructing techniques involved with instrument flight and air traffic control procedures. Student is required to spend a minimum of two hours daily, three days a week, at the airport until course requirements have been met. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid commercial pilot certificate with an instrument rating in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 45649; and AERN 45648 with a minimum C grade; and minimum 2.500 overall GPA; and Professional Pilot major.
Corequisite: AERN 45660.
Schedule Type: Flight Training
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

AERN 45710 TURBINE ENGINE THEORY AND OPERATION 2 Credit Hours
An in-depth study of the theory, operation and performance of turbine and turboprop engines and associated systems.
Prerequisite: AERN 35020.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45720 CREW RESOURCE MANAGEMENT 2 Credit Hours
In-depth study of the common principles of aviation crew resource management and human factors as utilized by air transport flight crews. Course presents crew/cockpit resource management (CRM), aeronautical decision making (ADM) and human factors theory and practice.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45730 APPLIED TRANSPORT CATEGORY AIRCRAFT SYSTEMS 3 Credit Hours
Course examines various systems in use on air transport aircraft. The course emphasizes the principles, operation and limitations of complex, integrated systems found in modern aircraft.
Prerequisite: AERN 35020.
Corequisite: AERN 45030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45740 FLIGHT MANAGEMENT SYSTEMS 3 Credit Hours
Course examines various advanced avionics systems used on air transport type aircraft. The course emphasis is on the principles, operation and limitations of integrated avionics related to the "glass cockpit" found on modern aircraft.
Prerequisite: AERN 45030.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AERN 45750 AEROSPACE MEDICINE 2 Credit Hours
This course examines the medical and legal issues of regulating the presence of humankind in aviation. Special emphasis will be given to the medical conditions that human life encounters when exposed to machines and different environments including atmospheric and non-atmospheric flight. Students will study the history, physiology and environment, clinical issues, operational issues, legal issues and future issues of aerospace medicine.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45791 AVIATION SECURITY AND POLICY SEMINAR (WIC) 3 Credit Hours
Examines policies, practices, procedures and regulatory provisions developed to create and enhance security in civil aviation with a special emphasis on airlines, airports, airspace and agencies responsible for civil aviation security.
Prerequisite: AERN 45250.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

AERN 45800 UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS THEORY 4 Credit Hours
Classroom instruction to provide the general information and knowledge necessary to prepare students to pilot and operate unmanned aircraft. Emphasis is placed on the acquisition of knowledge required to engage in UAS flight operations, specifically focused on piloting UAVs and managing UAV sensors. This course provides students with the background knowledge required to begin flight training and to perform real-time mission management operations for high performance unmanned aircraft systems.
Prerequisite: AERN 25800.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

AERN 45820 AIRSPACE MANAGEMENT 3 Credit Hours
This course studies the dynamic, integrated management of air traffic and airspace including air traffic services, airspace management and air traffic flow management — safely, economically and efficiently — through the provision of facilities and seamless services in collaboration with all controlling and operations entities and involving airborne and ground-based functions. Students also focus on the aggregation of the airborne and ground-based functions (air traffic services, airspace management and air traffic flow management) required to ensure the safe and efficient movement of aircraft during all phases of operations. This course compares and contrasts uncrewed operations and crewed operations within the context of Advanced Air Mobility and the National Airspace System. An introduction to space operations is also discussed.
Prerequisite: AERN 35850 and AERN 35851.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45892 UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM (ELR) 2 Credit Hours
This is the practicum course for the Unmanned Aircraft Systems Flight Operations major. Student is required to spend a minimum of 15 hours during the semester flying an unmanned aircraft system. When not operating an unmanned system, the student goes through personalized ground instruction. Special emphasis is placed on flying commercial UAS, fixed wing platforms and other commercial platforms. Students deepen their knowledge of regulatory requirements of UAS operations, applied weather theory mission planning and emergency procedures. Students must obtain FAA Part 107 Unmanned Aircraft System Certification prior to starting this course. Flight fees apply.
Prerequisite: AERN 25800 and AERN 35892.
Schedule Type: Flight Training, Practical Experience
Contact Hours: 4 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

AERN 65091 SEMINAR IN EMERGING ISSUES IN AVIATION LOGISTICS 2 Credit Hours
Guided by issues set forth by the International Air Cargo Association the Cargo Airlines Association, this variable content seminar will provide an interactive, dynamic and in-depth discussion on topics of immediate concern for the air freight industry.
Prerequisite: AERN 65100; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65092 PRACTICUM IN AERONAUTICS 1-4 Credit Hours
(Repeatable for credit) Practicum to gain experience in the aerospace or aviation industry managing various aspects of logistics. Logistic projects related to systems analysis, product or vehicle movement, legal and ethical issues, economic issues, international needs, safety, human resources and managerial assessment, or other aspects of managing logistics as approved are the focus of the course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-12 other
Grade Mode: Satisfactory/Unsatisfactory

AERN 65095 SPECIAL TOPICS IN AERONAUTICS 1-4 Credit Hours
(Repeatable for a maximum of 15 credit hours) Study of special topics that focus on subjects and issues in aeronautics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AERN 65100 LOGISTICAL STRATEGIES IN AVIATION MANAGEMENT 2 Credit Hours
This course presents the business of aviation logistics and its role in the global supply chain by examining different product sectors using air freight. By means of both domestic and international example, it then details some of the challenges facing the air cargo industry today and presents possible management options for their resolution.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65150 LEGAL AND REGULATORY ISSUES FOR AIR CARGO MANAGEMENT 2 Credit Hours
With a focus on both the domestic and global marketplace, this course provides in-depth coverage of the regulatory bodies and the protocols and procedures that govern the air cargo industry.
Prerequisite: AERN 65100; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65199 THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

AERN 65200 AVIATION ECONOMICS AND FISCAL MANAGEMENT 2 Credit Hours
Using examples from across key industries that make up the aviation sector, this course examines profit strategies employed by cargo-carrying airlines, all-cargo carriers, airports, ground transportation providers, and others with an aim of highlighting their role in and their impact on the business of air freight.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65201 AVIATION INDUSTRY CONTRACT MANAGEMENT 2 Credit Hours
The course provides students with practical experience in the realm of aviation contracts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65230 MODELING AND FORECASTING FOR AVIATION LOGISTICS PLANNING 2 Credit Hours
This course presents topics and techniques necessary to understand and develop an aviation logistics model such that an accurate and effective aviation demand forecast can be made.
Prerequisite: AERN 65100 and AERN 65200; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65235 HUMAN ERROR ANALYSIS IN AVIATION 2 Credit Hours
Provides an in-depth look at human error and its implications in the realm of safety using examples from the aviation industry. Includes a basic overview of human error, discussion on the models available to examine error, provides knowledge on how to classify and provide recommendations of intervention strategies. A focus will be on the SHELL Model, the Human Factors Analysis and Classification System, and the 5M model. This course will use real examples of accidents and incidents for students to apply these strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65240 AVIATION SAFETY MANAGEMENT SYSTEMS 2 Credit Hours
An in-depth study of the concepts and principles of aviation safety management and aviation Safety Management Systems (SMS). Provides a fundamental knowledge of SMS safety policy, safety risk management, safety assurance, and safety promotion. Also includes a thorough analysis of the design, implementation, and management of Safety Management Systems and its incorporation into various aviation sectors.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: AERN 65199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

AERN 65300 AIRLINE TRANSPORTATION OPERATIONS 2 Credit Hours
This course provides a managerial approach that highlights the importance of airline transportation. Students examine the framework for airline transportation from a micro and macro perspective. The focus is on operations management that is specialized or unique to the airline industry including regulation and public policy, as they overview operations, service and cost structure.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65301 AIR CARGO SECURITY 2 Credit Hours
This course examines Post 9-11 legislation put in place with respect to air cargo security and details unique challenges facing the industry today with an eye toward management of those challenges for future growth.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65400 WEATHER FOR AVIATION LOGISTICS PLANNING 2 Credit Hours
Introduction to weather concepts as related to aviation operations management. This course focuses on the effect of various phenomena on airport, airline, and small aircraft feeder operations. The emphasis is on understanding conditions that produce various phenomena, use of available weather products to determine conditions and hazardous conditions and their likely impact on aviation operations. An understanding of regulations relative to weather operations and aircraft capabilities will be gained. Regional weather is discussed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65496 INDIVIDUAL INVESTIGATION IN AERONAUTICS 1-4 Credit Hours
(Repeatable for a maximum of 9 credit hours) Individual investigation of various aeronautics-related topics.
Prerequisite: Graduate standing and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

AERN 65499 CAPSTONE IN AERONAUTICS 2-4 Credit Hours
(Repeatable for credit) Culminating experience that requires completion of either a comprehensive project at a workplace through employment or internship or a comprehensive research paper from an investigation. The goal is for students to demonstrate competence in aviation management and logistics. Possibilities include empirical research, case studies, theoretical or applied projects or projects for identified clients. Student are evaluated on the use of knowledge and skills gained from other courses taken in their program.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2-4 other
Grade Mode: Standard Letter

Aerospace Studies (ASTU)

ASTU 10101 HERITAGE AND VALUES 1 Credit Hour
This is a survey course that provides an introduction to the United States Air Force, hopefully encouraging students to pursue an AF career or at least seek additional information to be better informed about the role of the USAF. The course allows students to examine general aspects of the Department of the Air Force, AF Leadership, Air Force benefits, and opportunities for AF officers. The course also lays the foundation for becoming an Airman by outlining our heritage and values. As a foundation course, it also provides a historical perspective such as lessons on war and US military, AF operations, principles of war, and airpower. As a whole, this course provides students with a knowledge-level understanding for the employment of air and space power, from an institutional, doctrinal, and historical perspective. The students will be introduced to the Air Force way of life and gain knowledge on what it means to be an Airman.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ASTU 10102 HERITAGE AND VALUES 1 Credit Hour
This is a survey course that provides an introduction to the Air Force, hopefully encouraging students to pursue an AF career or at least seek additional information to be better informed about the role of the USAF. The course allows students to examine general aspects of the Department of the Air Force, AF Leadership, Air Force benefits, and opportunities for AF officers. The course also lays the foundation for becoming an Airman by outlining our heritage and values. As a foundational course, it also provides a historical perspective such as lessons on war and US military, AF operations, principles of war, and airpower. As a whole, this course provides students with a knowledge-level understanding for the employment of air and space power, from an institutional, doctrinal, and historical perspective. The students will be introduced to the Air Force way of life and gain knowledge on what it means to be an Airman.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ASTU 10103 LEADERSHIP LABORATORY 1 Credit Hour
An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Satisfactory/Unsatisfactory

ASTU 10104 LEADERSHIP LABORATORY 1 Credit Hour
An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Satisfactory/Unsatisfactory

ASTU 20101 TEAM LEADERSHIP FUNDAMENTALS 1 Credit Hour
This is a 1 credit hour survey course that is designed to provide a fundamental understanding of both leadership and team building. It is imperative that students are taught from the beginning that there are many layers to leadership, including aspects that don't always jump to mind. Such things include listening, understanding themselves, being a good follower and problem solving efficiently. The students will apply these leadership perspectives when completing team building activities and discussing things like conflict management. Students should demonstrate basic verbal and written communication skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ASTU 20102 TEAM AND LEADERSHIP FUNDAMENTALS 1 Credit Hour
This is a 1-credit hour survey course that is designed to provide a fundamental understanding of both leadership and team building. It is imperative that students are taught from the beginning that there are many layers to leadership, including aspects that don't always jump to mind. Such things include listening, understanding themselves, being a good follower and problem solving efficiently. The students will apply these leadership perspectives when completing team building activities and discussing things like conflict management. Students should demonstrate basic verbal and written communication skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ASTU 20103 LEADERSHIP LABORATORY 1 Credit Hour
An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Satisfactory/Unsatisfactory

ASTU 20104 LEADERSHIP LABORATORY 1 Credit Hour
An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Satisfactory/Unsatisfactory

ASTU 30101 LEADING PEOPLE/EFFECTIVE COMMUNICATION 3 Credit Hours
This course is designed to build on the leadership fundamentals taught in ASTU 20202. Students will have the opportunity to utilize their skills as they begin more of a leadership role in the detachment. The goal is for cadets to have a more in-depth understanding of how to effectively lead people, and provide them with the tools to use throughout their detachment leadership roles. Secondly, students will hone their writing and briefing skills. Many of the students will be uncomfortable with public speaking, and this semester is designed to get them used to briefing. The course continues into advanced skills and ethics training that will prepare them for becoming an officer and a supervisor.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASTU 30102 LEADING PEOPLE/EFFECTIVE COMMUNICATION 3 Credit Hours
This course is designed to build on the leadership fundamentals taught in ASTU 20202. Students will have the opportunity to utilize their skills as they begin more of a leadership role in the detachment. The goal is for cadets to have a more in-depth understanding of how to effectively lead people, and provide them with the tools to use throughout their detachment leadership roles. Secondly, students will hone their writing and briefing skills. Many of the students will be uncomfortable with public speaking, and this semester is designed to get them used to briefing. The course continues into advanced skills and ethics training that will prepare them for becoming an officer and a supervisor.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASTU 30103 LEADERSHIP LABORATORY 1 Credit Hour
An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Satisfactory/Unsatisfactory

ASTU 30104 LEADERSHIP LABORATORY 1 Credit Hour
An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Satisfactory/Unsatisfactory

ASTU 40101 LEADING NATIONAL SECURITY/LEADERSHIP RESPONSIBILITIES 3 Credit Hours
This student should comprehend the basic elements of national security policy and process. The student should comprehend the air and space power operations as well as understand selected roles of the military in society and current domestic and international issues affecting the military profession. Students should comprehend the responsibility, authority, and functions of an Air Force commander and selected provisions of the military justice system. The final semester of the ASTU 40101 course is designed to prepare cadets for life as a second lieutenant.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASTU 40102 LEADING NATIONAL SECURITY/LEADERSHIP RESPONSIBILITIES 3 Credit Hours
This student should comprehend the basic elements of national security policy and process. The student should comprehend the air and space power operations as well as understand selected roles of the military in society and current domestic and international issues affecting the military profession. Students should comprehend the responsibility, authority, and functions of an Air Force commander and selected provisions of the military justice system. The final semester of the ASTU 40102 course is designed to prepare cadets for life as a second lieutenant.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASTU 40103 LEADERSHIP LABORATORY 1 Credit Hour
An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Satisfactory/Unsatisfactory

ASTU 40104 LEADERSHIP LABORATORY 1 Credit Hour
An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Satisfactory/Unsatisfactory

Africana Studies (AFS)

AFS 15200 INTRODUCTION TO WEST AFRICAN CULTURES 3 Credit Hours
Students will study the history, culture, geography, ecology, and historical specifics of the region of West Africa from the 9th to the 19th centuries.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 20001 INTRODUCTION TO AFRICANA STUDIES 3 Credit Hours
This course uses an interdisciplinary approach to introduce students to the discipline and field of Africana Studies. Using primary source materials from literature, film and various art forms, students will be exposed to concepts, critical issues, events and major thinkers that have shaped the global Black world. Emphasis will be placed on the relationship between Peoples of African descent, Latin and Indigenous Peoples. Selected course materials represent the ways in which Peoples of African descent have demonstrated resiliency, activism and agency.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 20101 KISWAHILI III 3 Credit Hours
Continuation of Kiswahili II, aimed at developing knowledge competence and recognition of Kiswahili usage in all forms of Kiswahili literature.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 20102 KISWAHILI IV 3 Credit Hours
Continuation of Kiswahili III, aimed at developing knowledge, competence and recognition of Kiswahili usage in all forms of Kiswahili literature.
Prerequisite: AFS 20101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 20300 BLACK IMAGES 3 Credit Hours
Examines the historical origins and representations of racial images and anti-black perceptions through newspapers, magazines, songs, plays, literature, textbooks, radio, television, films, comic books, etc. and the role of these images in American culture past and present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 22000 CREATIVE WRITING IN THE BLACK WORLD 3 Credit Hours
Explores the major aesthetic and cultural issues that have historically shaped creative writing in the Black world since the beginning of the African Griot tradition. Students will investigate the African-American tradition in literature as an organic part of the larger Africana world. Students are expected to write, perform, critique and produce original works in the modes and performance styles of the global African world.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 22101 AFRICAN AMERICAN VISUAL ARTISTS 3 Credit Hours
The course is an Afrocentric survey of visual and aural artistry. The course also examines context and perspectives, mediums of expression, form, style, content and patronage of African American artists from 1800.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 22200 INTRODUCTION TO THE AFRICAN ARTS 3 Credit Hours
This course investigates the function of creative forms of artistic expression particular to experiences of the Africana community at home and abroad.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 23001 BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM) 3 Credit Hours
This course examines the African experience prior to and following the arrival of Africans in the New World. It explores the contributions of Africans in the areas of state formation, arts/architectural designs, scientific explorations, religion and other great human achievements. Discussion will also focus on major historical events such as the Trans-Saharan trade, Trans-Atlantic Slave trade, Middle Passage, and Slavery in America. The experiences of people of African descent in North and South America as well as the Caribbean will be examined.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities

AFS 23002 BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM) 3 Credit Hours
This course covers the Black Experience from 1865 to the present, including events, ideas and persons in Africa, North and South America, and the Caribbean. The course will also examine slavery in America, the struggles for freedom, the Civil War, Reconstruction and Jim Crow eras, Black politics, culture, and society. The contributions of African Americans to the American society will also be examined.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Humanities

AFS 23095 SPECIAL TOPICS IN PAN-AFRICAN LITERATURE AND COMMUNICATION SKILLS 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) Introduction to a current and specialized topic in Pan-African Literature and/or communication skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AFS 23310 NATIVE AMERICAN STUDIES 3 Credit Hours
Study and analysis of Native American history, sovereignty and civil rights. Ensures an understanding of self-determination in the context of colonization, decolonization and neocolonization, through the use of Native American literature, philosophy, politics and other cultural outlets. Being that we all live in a broader community, students also examine historical and contemporary relationships with the African American community and other ethnic communities in the US.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 24407 INTRODUCTION TO CARIBBEAN STUDIES (DIVG) 3 Credit Hours
This course examines the histories, social and political frameworks, cultural and religious traditions of Caribbean regions from the pre-colonial era to the present. The course focuses in particular on the experience of people of African descent in the Caribbean.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

AFS 26010 BLACK LIVES MATTER: THE CONTINUED STRUGGLE FOR BLACK LIBERATION 3 Credit Hours
This course examines the historical, cultural and sociopolitical development of the global #BlackLivesMatter movements. By linking the current movements for Black liberation to past and current resistance movements, this course explores the intersectional relationship between identity development and the anti-blackness of state sanctioned violence through strategies and tactics of various movements and individuals who represent the legacy of the Black Radical Tradition.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 30001 CULTURAL EXPRESSIONS I 3 Credit Hours
Exploration of African creative endeavors and cultures through traditionally integrated forms of music, dance and song. Some emphasis on the study of design, color and fashion merged with family, food and environment, as well as traditional African societies. The class strives to foster in the student, through song and dance and through plastic arts, an aesthetic appreciation of the traditional African society such as the Yoruba people, the Dan, Dogon, Bambura, Mandingo and Senufu and many more.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 30310 BLACK HOLLYWOOD 3 Credit Hours
Examines the complexities of race relations in the film industry and the need for “Hollywood” and Black filmmakers to create films for mainstream audiences with a multitude of themes from the African American experience in America and the Black experience around the world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 30311 HIP HOP: THE SOCIAL, POLITICAL AND ECONOMIC INFLUENCES 3 Credit Hours
Examines the social, political and economic influences of and on Hip-hop and analyzes the historical and current relationships between Hip-hop and mainstream America, including the role that corporate America has played. In-depth history of the culture and major pioneers and contributors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 32001 AFRICAN-AMERICAN LITERATURE TO 1900 3 Credit Hours
(Cross-listed with ENG 33010) Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Walker, Truth, Garnet, Douglass, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnutt and Dunbar.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 32002 MODERN AFRICAN-AMERICAN LITERATURE 3 Credit Hours
Study of African-American literature from the early twentieth century to the present. The authors include Toomer, Hughes, Larsen, Wright, Baldwin, Hansberry, Jones, Lorde, Walker, Morrison, Mosley, Youngblood and Carter.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 32050 AFRICAN LITERATURES (DIVG) 3 Credit Hours
(Cross-listed with ENG 33015) Examines works of major 20th-century African, African American and Caribbean writers and intellectuals. Authors include Niane, Achebe, Emecheta, Prince, Hurston, Hughes, Cesaire, Senghor, Soyinka and many others.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

AFS 33110 BLACK WOMEN, CULTURE AND SOCIETY: HISTORICAL PERSPECTIVES (DIVD) 3 Credit Hours
This course surveys the experiences of Black women throughout various periods of history, and their roles in shaping the social, economic, political and cultural development of their societies.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

AFS 33120 THE BLACK MAN: HISTORICAL PERSPECTIVES 3 Credit Hours
This course will investigate both the historical as well as the cultural evolution of the African man in America. We will consider the Black man's development within the larger context of the African experience in the United States. It will focus primary attention on the cultural, social, economic and political aspects of African community development and the impact of Black men on that development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 33130 GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA 3 Credit Hours
Using lectures, videos, discussions, readings and application this course explores ways in which gender and sexuality in Africa and the African Diaspora have and can be constructed, performed, articulated and researched. Attention is also paid to the existence of LGBTQ identities within the global black community.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 33171 AFRICAN-AMERICAN COMMUNITIES (DIVD) 3 Credit Hours
This course explores the challenges facing African-American communities through historical and contemporary perspectives. Issues such as geography, black/demography, public administration, health, transportation, socio-economic/finance as well as education, civil rights, crime/justice will be covered. The course will also explore contemporary social movement issues and implications on these communities.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

AFS 33310 AFRO-LATINX COMMUNITIES IN THE U.S. (DIVD) 3 Credit Hours
Introduction to the social, cultural, and political experiences of Afro-Latinx communities in the U.S. The communities include Afro-Mexican, Puerto Rican, Afro-Cuban, Dominican, Garifuna, etc.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

AFS 34000 INTRODUCTION TO AFRICAN WORLD VIEW (DIVG) 3 Credit Hours
This course will introduce students to the basic features of the Traditional African Worldview. We will identify and examine those concepts that all African peoples hold in common. It will provide a working context within which to discuss fundamental aspects of Traditional African identity and culture. In addition, we will consider the transformation of the African Worldview in the so-called New World.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

AFS 37000 ORAL AND WRITTEN DISCOURSES IN AFRICANA STUDIES (WIC) 3 Credit Hours
This course examines foundational text, speech and cultural expressions in the Africana World. Students will develop their writing skills and learn new techniques to improve their oral and written communication.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

AFS 37001 THEORETICAL APPROACHES TO AFRICANA STUDIES 3 Credit Hours
A critical analysis of the diverse approaches to the underlying principles of Africana Studies.This course aims to expose students to various theoretical perspectives and models that scholars use to explore and understand the Africana experience. The course has a multi-disciplinary and inter-disciplinary scope that allows for a thorough investigation of the political, socio-economic and cultural significance of the unity, self-determination and resistance forged by People of African Descent.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 37010 RESEARCH METHODS IN AFRICANA STUDIES (ELR) 3 Credit Hours
This course will expose students to the basic components on interdisciplinary research methods used in Africana Studies. Students will learn about research concepts, paradigms, models and perspectives in the design of African-centered research projects.
Prerequisite: AFS 37000 and AFS 37001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AFS 37020 THE MODEL AFRICAN UNION (ELR) 3 Credit Hours
Students examine role, structure and performance of the African Union in the search for solutions to key economic, social and political-security issues facing Africa. Students attend the annual meeting of the Model African Union Conference in Washington D.C., which is a simulation of proceedings of the African Union, augmented by briefings at African Embassies. Participants gain an understanding of the various determinants, capabilities and constraints shaping the domestic and foreign policies of African countries.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AFS 37100 AFRICANA WOMEN'S LITERATURE (DIVG) 3 Credit Hours
(Cross-listed with ENG 33013). This course introduces students to literary works by Africana women. The course will explore concerns and issues impacting Africana women including but not limited to the intersections of psychological, social, historical and political issues of race and gender.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

AFS 37150 SECRET AND MAROON SOCIETIES IN THE STRUGGLE AGAINST THE INSTITUTION OF SLAVERY 3 Credit Hours
This course examines secret and maroon societies including but not limited to the Underground Railroad, the Quilombos of Brazil, Black Seminoles of Florida, and other maroon communities in the Africana world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 37200 AFRICAN-AMERICAN WOMEN'S LITERATURE 3 Credit Hours
(Cross-listed with ENG 33014) Introduces students to literary works by African-American women.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 40001 CULTURAL EXPRESSIONS II 3 Credit Hours
This course continues Cultural Expressions I in greater depth and sophistication: Exploration of African creative endeavors and cultures through traditionally integrated forms of music, dance and song. Some emphasis on the study of design, color and fashion merged with family, food and environment, as well as traditional African societies. The class strives to foster in the student, through song and dance and through plastic arts, an esthetic appreciation of the traditional African society such as the Yoruba people, the Dan, Dogon, Bambara, Mandingo, Su Su, Senufu and many more.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 41192 PRACTICUM IN AFRICANA COMMUNITIES (ELR) 1-12 Credit Hours
(Repeatable for credit) This practicum provides students with hands-on experience in community service and engagement. In coordination with a selected faculty member, students will have the opportunity to work in government agencies, public and private schools, non-profit organizations, etc.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 3-36 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

AFS 43095 SPECIAL TOPICS IN PAN-AFRICAN LITERATURE, ARTS AND CULTURES 3 Credit Hours
(Repeatable for credit) Broadens upper division offerings in holistic study and performance in Pan-African literatures, arts and cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 43100 RACE, CLASS AND FEMINIST THOUGHT 3 Credit Hours
(Slashed with AFS 53100) Explores issues of race, class and gender through the lens of Black women and feminists of color. This course also examines how gender, race, and class intersect in the construction of identity, institutional formations and social movements in the African world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 43200 MALCOLM AND MARTIN 3 Credit Hours
A critical study of the major ideas and doctrines, including religious and theological beliefs, of Malcolm X and Martin L. King and their roles in American history.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 44095 SPECIAL TOPICS IN CONTEMPORARY AFRICA 3 Credit Hours
(Repeatable for a total of 12 credit hours when topic varies) Study of selected topics related to contemporary Africa.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 47095 SPECIAL TOPICS IN THEORETICAL AND APPLIED RESEARCH 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Selected topics in the intellectual, cultural, political and historical development of Pan-Africanism, its diverse theoretical approaches and multiple applications including the Organization of African Unity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 47099 SENIOR SEMINAR IN AFRICANA STUDIES (ELR) (WIC) 3 Credit Hours
This upper-division course is designed to provide AFS students the opportunity/framework to critically review and reflect on their academic and experiential learning experiences and other academic undertakings before graduation. In addition to reviewing relevant topical/contemporary issues of interest in the field of Africana Studies or the Pan-African world, students will develop individual research papers on these topical issues for presentation before the departmental faculty, students and the general public.
Prerequisite: AFS 37010.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

AFS 47100 RACE, GENDER AND SOCIAL JUSTICE 3 Credit Hours
(Slashed with AFS 57100) This senior level course introduces students to the interconnected fields of race, gender and social justice in America and the rest of the world. Students will explore the intersectionality of these fields and how they shape our understanding of social justice issues. The course will enhance the knowledge and understanding of students on critical issues of race, gender, sexuality/other categories. Drawing on interdisciplinary approach/perspective, students will study and develop a global understanding of the complex intersectional systems of oppression that shape the lives of people of African descent, including other people of color. Discussions will focus on issues of civic engagement, public policy, policy advocacy, and the practice/methodology of activism.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 47122 SEMINAR IN ACTIVISM AND SOCIAL CHANGE 3 Credit Hours
(Slashed with AFS 57122) This senior level seminar course will provide students the opportunity to gain knowledge and understanding of activism and social change. Discussion will focus on strategies and methods of social change through community activism, policy advocacy, community organizing and development. Students will engage in readings, discussions, and analyses of relevant works on issues of activism, race, gender and social change. In addition to reviewing major theoretical and methodological approaches, students will develop a theory-driven research paper on a topical issue of interest on race, gender, and social justice by the end of the semester.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 47144 BLACK SOCIAL AND POLITICAL THOUGHT 3 Credit Hours
(Slashed with AFS 57144) This course explores the evolution of Black social and political thought and leadership within the global Black world. Drawing on the concepts of leadership and liberatory practices, the course will discuss the changing trends of Black social and political thought, strategies, ideologies, race, class, gender, conflict, competition and future prospects of Black political mobilization and leadership.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 49093 VARIABLE TITLE WORKSHOP IN PAS 2-6 Credit Hours
(Repeatable for credit)
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory

AFS 49095 SELECTED TOPICS 2,3 Credit Hours
(Repeatable for credit) Scheduled topic announced. Intended to encourage further study in areas not treated adequately in standard courses. Offered irregularly by available or visiting faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter-IP

AFS 49096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable once for credit) Research in areas of interest not available in departmental courses. Approval by faculty member or chairperson necessary prior to registration.
Prerequisite: Junior or senior standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

AFS 53100 RACE, CLASS AND FEMINIST THOUGHT 3 Credit Hours
(Slashed with AFS 43100) This graduate level course explores issues of race, class and gender through the lens of Black women and feminists of color. This course also examines how gender, race, and class intersect in the construction of identity, institutional formations and social movements in the African world.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 57100 RACE, GENDER AND SOCIAL JUSTICE 3 Credit Hours
(Slashed with AFS 47100) This graduate level course introduces students to the fields of race, gender and social justice in America and the rest of the world. Students will explore the intersectionality of these fields and how they shape our understanding of critical social justice issues. The course is designed for M.A. and/or PhD students who wish to complement and strengthen their research and pedagogical framework in their degree program, and those who are interested in working towards equity with regard to race, gender, sexuality/other categories. Drawing on interdisciplinary approach/perspective, students will study and develop a global understanding of the complex intersectional systems of oppression that shape the lives of people of African descent, including other people of color. Discussions will focus on issues of civic engagement, public policy, policy advocacy, and the practice/methodology of activism. The knowledge of students in the interdisciplinary field of Africana Studies will also be broadened after taking this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 57122 SEMINAR IN ACTIVISM AND SOCIAL CHANGE 3 Credit Hours
(Slashed with AFS 47122) This graduate seminar course is designed to provide students the opportunity to undertake a critical overview of their graduate minor program in Race, Gender and Social Justice with a focus on strategies and methods of social change through community activism. Discussions will focus on critical issues of policy advocacy, community organizing and development. Students will engage in readings, discussions, and analyses of relevant works on issues of activism, race, gender and social change. In addition to reviewing major theoretical and methodological approaches, students will develop a theory-driven research paper on a topical issue of interest on race, gender, and social justice by the end of the semester.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 57144 BLACK SOCIAL AND POLITICAL THOUGHT 3 Credit Hours
(Slashed with AFS 47144) This graduate level course explores the evolution of Black social and political thought and leadership within the global Black world. Drawing on the concepts of leadership and liberatory practices, the course will discuss the changing trends of Black social and political thought, strategies, ideologies, race, class, gender, conflict, competition and future prospects of Black political mobilization and leadership.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Agribusiness (AGRI)

AGRI 20000 ECONOMIC PERSPECTIVES ON FOOD AND AGRICULTURE 3 Credit Hours
Introduction of the role of economics in agriculture at the firm, national, and international level. An overview of the structure and scope of the U.S. Food and Fiber Sector and its current trends and implications for the national economy. Students learn to apply various economic principles and concepts relating to production agriculture, business management, consumer behavior, market price analysis and equilibrium, international trade and public policy formation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 30000 FARM BUSINESS MANAGEMENT 3 Credit Hours
Develops an understanding of the various business management decisions involved in the organization and operation of a farm business operation for continuous profit and production cost efficiency. Students acquire knowledge and proficiency in applying the various economic principles and farm business management analysis concepts which aid a farm operator or owner in the decision making process for a farm business operation.
Prerequisite: ACTT 11000 and BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 31000 AGRIBUSINESS MANAGEMENT 3 Credit Hours
Intended for students interested in careers eventually leading to managerial positions in commodity production and marketing, input supply, banking, cooperatives and related agricultural industries. Focus is on the use of financial statements, operating and managerial functions, communication, and the inter-personal work environment within an organization. Presentation is by lecture integrated with experiential learning through use of student-team decision making applied to an agribusiness management simulation.
Prerequisite: ACTT 11000 and ACTT 11001 and BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 32000 FARM RECORDS ANALYSIS AND INCOME TAX MANAGEMENT 3 Credit Hours
Develop an understanding of the procedures involved with farm recordkeeping and illustrates the ways in which farm records can be used to evaluate and to improve the economic performance and profitability of a farm business. Students have the opportunity to gain an understanding of the current tax system. Students learn to apply the various tax management methods and strategies that can be used to maximize the after tax income to a farm business operation.
Prerequisite: AGRI 30000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 33000 AGRICULTURAL COMMODITY MARKETING 3 Credit Hours
Covers the economic factors, socioeconomic trends, farm demographic changes, global competitiveness, and consumer attitudes that shape the current structure and operation of the U.S. agricultural marketing system. Includes how decisions at one level in the value chain impact all other levels and explores how and when the system changes as a result of individual decisions. Also focuses on quality-based marketing, contracting and provides a global perspective.
Prerequisite: AGRI 20000 and BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 34000 LIVESTOCK PRODUCTION MANAGEMENT 3 Credit Hours
An introduction to the livestock industry and its role in society and our economy. Principles of livestock production management are introduced for beef, swine, dairy cattle, horses, sheep, goats and poultry.
Prerequisite: AGRI 31000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 35000 CROP AND FORAGE PRODUCTION MANAGEMENT 3 Credit Hours
Deals with crop plants in relation to the environment, crop improvement, seeds, and seeding. The practice of tillage, fertilizer, rotation, cropping, and weed control is covered. Pastureland and farmland, the harvest of field crops, and the handling and marking of grain seeds and hay are also included, as well as crops of the grass family, perennial forage grasses, the legume family and miscellaneous crops.
Prerequisite: AGRI 30000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 40000 ADVANCED FARM BUSINESS MANAGEMENT 3 Credit Hours
Application of economics and business principles to the management of a Farm Business. Use of analytical tools such as enterprise budgeting, linear programming, pro-forma cash flow budgeting, capital budgeting, and risk management analysis to aid the decision-making process. Understanding of farm transfer and succession planning and its importance in the intergenerational viability of a farm business.
Prerequisite: AGRI 30000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 40092 AGRIBUSINESS INTERNSHIP (ELR) 3 Credit Hours
Provides students an internship work experience in the agribusiness industry. The internship may be completed in any one of the following areas of agribusiness: sales management, agriculture lending, insurance, cooperative management, commodity merchandising, farm business management, public relations, farm marketing, agricultural policy, dairy production or farm business operations.
Prerequisite: Agribusiness major; junior or senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AGRI 41000 AGRICULTURAL PRICE ANALYSIS 3 Credit Hours
The economics of supply and demand provide a foundation for understanding the behavior of agricultural markets, the formation of prices, and the role of prices in the allocation of goods and services. Traditional topics include: aggregate demand& supply determination, price equilibrium, elasticities in the commodity market, equilibrium displacement models, derived demand of food products, quantitative analysis of food marketing channels, regression analysis and spatial concepts in agriculture.
Prerequisite: AGRI 20000, ECON 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 42000 AGRICULTURAL FINANCE 3 Credit Hours
To develop an understanding and proficiency in applying the various economic principles and concepts of financial management for analyzing alternative investment decisions and solving financial problems in a farm business operation. Various strategies for acquiring and financing capital resources in the farm business operation are explored. Characteristics of the financial institutions providing credit to farmers and their particular lending programs are studied.
Prerequisite: AGRI 30000 and MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 43000 AGRICULTURAL ENVIRONMENTAL LAW 3 Credit Hours
To acquaint students with the fundamentals of state and federal pollution control law. Major topics include: air pollution control, water pollution control, toxic substance control, solid waste management and disposal, Superfund, wetlands, endangered species, land use regulation, environmental assessment, environmental law administration and enforcement and global environmental law.
Prerequisite: AGRI 30000 and BMRT 21000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 44000 AGRICULTURAL AND INTERNATIONAL TRADE POLICY 3 Credit Hours
History, development, programs, and analysis of public policy issues in agriculture and natural resources. Analysis of science, economic, and political factors involved in policy development. Emphasis on farm policy and farm structure; food and nutrition; trade and development; and natural resources, the environment, and bioenergy, with special attention to issues and policies impacting Ohio and the United States.
Prerequisite: AGRI 20000 and ECON 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 45000 SENIOR SEMINAR (WIC) 3 Credit Hours
Capstone course designed to expose Agribusiness majors to current events and the interpretation of those events in an economics framework for use in management decision making. Students are introduced to the scientific method and complete a senior research project.
Prerequisite: Agribusiness (AGRI) major; and senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

Allied Health Sciences (AHS)

AHS 11000 EXPLORATION OF NURSING AND ALLIED HEALTH PROFESSIONAL CAREERS 1 Credit Hour
Course provides students the means in which to develop an understanding of nursing and allied health career options available in healthcare-related professions. The following professions are reviewed: nurse, occupational therapist assistant, physical therapist assistant, radiologic technologist and respiratory therapist. Students who enroll in this course are typically undecided about what professional program of instruction to pursue, but are interested in the healthcare field. The course may include observation in health care professions.
Schedule Type: Lecture
Contact Hours: 1 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

AHS 12000 BASIC PRINCIPLES OF PHARMACOLOGY 2 Credit Hours
Identify and apply the basic principles of pharmacology to client care. Explore pharmaceutics, pharmacokinetics, pharmacodynamics, pharmacology-related math, drug classification and safe preparation and administration of medications.
Prerequisite: Nursing Technology, Nursing, Physical Therapist Assistant Technology, Occupational Therapist Assistant Technology, Radiologic Technology or Respiratory Therapy major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AHS 12005 CONCEPTS IN LIFESPAN DEVELOPMENT 3 Credit Hours
Developmental theories and assessment measures throughout the lifespan, with application to the rehabilitation client.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AHS 12010 PROFESSIONALISM IN HEALTHCARE 1 Credit Hour
Provides information concerning the professional behaviors and communication skills necessary for all healthcare providers to effectively interact with clients, related healthcare professionals and others. Students will gain an understanding of the importance of being professional, ethical and competent in their fields.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

AHS 22002 CLINICAL KINESIOLOGY 3 Credit Hours
Function of the human body with emphasis on the musculoskeletal system and gross body measurements.
Prerequisite: BSCI 11010; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AHS 22003 CLINICAL KINESIOLOGY LABORATORY 1 Credit Hour
Application of human body movement and function concepts.
Prerequisite: BSCI 11010; and special approval.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

AHS 24010 MEDICAL TERMINOLOGY 1 Credit Hour
Terminology utilized by the medical profession. Emphasis is on definition, spelling, pronunciation and correct usage of terms.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

American Sign Language (ASL)

ASL 19201 ELEMENTARY AMERICAN SIGN LANGUAGE I 4 Credit Hours
Introduction to American Sign Language and the culture of the American signing community, in an immersion setting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ASL 19202 ELEMENTARY AMERICAN SIGN LANGUAGE II 4 Credit Hours
A continuation of the introduction to American Sign Language and the culture of the American signing community, in an immersion setting.
Prerequisite: ASL 19201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ASL 19401 EXPLORATION OF DEAF CULTURE 3 Credit Hours
Introduction to the American Deaf Community and its culture. Topics include myths and facts about deafness, cultural norms, basic history of American Sign Language, issues of language and cultural oppression, history of education of deaf and hard-of-hearing individuals, legal rights and advocacy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 29201 INTERMEDIATE AMERICAN SIGN LANGUAGE I 3 Credit Hours
Continued development of receptive and expressive skills in American Sign Language and an introduction to ASL grammar, using a bilingual-bicultural approach and interaction with deaf organizations.
Prerequisite: ASL 19202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ASL 29202 INTERMEDIATE AMERICAN SIGN LANGUAGE II 3 Credit Hours
Continuation of ASL 29201 with an emphasis on greater exploration of American Sign Language sentence structure using a bilingual-bicultural approach. Students are involved in a community service project, providing a hands-on experience with using ASL within a community setting.
Prerequisite: ASL 29201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ASL 29212 APPLIED AMERICAN SIGN LANGUAGE GRAMMAR 3 Credit Hours
Provides students with intensive instruction and practice in grammar to help intermediate students express complex ideas using American Sign Language.
Prerequisite: ASL 19202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 29213 FINGERSPELLING, NUMBERS AND DEPICTION 3 Credit Hours
Provides intermediate students with intensive instruction and practice in technical aspects of American Sign Language, including fingerspelling, numbers, and depiction, and provides opportunities for students to incorporate these skills in spontaneous conversations.
Prerequisite: ASL 19202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 39095 SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE 1-3 Credit Hours
(Repeatable for credit for maximum 9 hours) Special topics course in American Sign Language, the topic of which varies. Precise titles and descriptions appear in the schedule of classes.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ASL 39201 ADVANCED AMERICAN SIGN LANGUAGE I 3 Credit Hours
Students enhance receptive and expressive proficiency in an immersion setting through the use of both planned and impromptu in-class discussion of current and historic events and involvement in a community service project. Students are advised to begin planning this activity early in the semester. Successful completion of ASL 29201 portfolio review required prior to registration.
Prerequisite: ASL 29202 .
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 39202 ADVANCED AMERICAN SIGN LANGUAGE II 3 Credit Hours
Students continue to increase their receptive and expressive proficiency in American Sign Language in an immersion setting, through in-class formal and informal presentations, discussions of current and historical events, and working in groups to complete a semester project and a community service project.
Prerequisite: ASL 39201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 39223 SOCIOLINGUISTICS OF THE DEAF COMMUNITY (WIC) 3 Credit Hours
Provides an introduction to the sociolinguistics of American Sign Language (ASL) and the Deaf Community: A study of ASL within a social context. Topics include: multilingualism, variation (related to region, ethnicity, class and age), bilingualism and language contact, language policy and planning and language attitudes. This course is taught in English. Knowledge of ASL is helpful but not necessary.
Prerequisite: Junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ASL 39401 INFLUENTIAL FIGURES IN THE DEAF WORLD 3 Credit Hours
This course explores key figures who have impacted the lives and culture of Deaf, Deaf-Blind and hard of hearing people while also participating within a dominant culture. First-hand narratives will allow students to engage with Deaf experiences to understand hegemony as it applies to hearing status. Coursework investigates but is not limited to the lives and contributions of those who have influenced American Sign Language, ASL instruction, Deaf professionals in Education and research, the arts, interpreting, sports, media, legislation, and affiliated organizations. A portion of this course will be utilized to explore Deaf people, social issues and civil rights from a global perspective.
Pre/corequisite: ASL 19202.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

ASL 49091 SEMINAR IN AMERICAN SIGN LANGUAGE LINGUISTICS 3 Credit Hours
(Repeatable for credit) Provides an in-depth treatment of an American Sign Language linguistics-related topic.
Prerequisite: Minimum C grade in ASL 49108; and special approval.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49092 PRACTICUM IN AMERICAN SIGN LANGUAGE (ELR) 1-3 Credit Hours
In consultation with the ASL program coordinator, ASL students design a practicum experience related to signed languages and their communities. Successful presentation of cumulative portfolio required prior to registration.
Prerequisite: ASL 29202.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ASL 49096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual research on a topic dealing with American Sign Language, ASL pedagogy and/or deaf culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other gradable product(s).
Prerequisite: One American Sign Language (ASL) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ASL 49108 AMERICAN SIGN LANGUAGE LINGUISTICS I 3 Credit Hours
(Slashed with SPED 53108) Lecture, discussion and application course designed to introduce students to basic linguistic terminology and concepts, as applied to American Sign Language (ASL) and taught using a bilingual-bicultural approach. Both ASL and English are used in the instruction of this class. Successful presentation of cumulative portfolio is required prior to registration in this course.
Prerequisite: ASL 29202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49109 AMERICAN SIGN LANGUAGE LINGUISTICS II 3 Credit Hours
Through lecture, in-class and out-of-class activities, and in-class presentations, students discuss, use, and respond to varied sentence structures and types of discourse in ASL, and compare these to English. Class is predominantly taught in ASL, but may at times use a bilingual approach.
Prerequisite: ASL 49108; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49201 ADVANCED PROFICIENCY 3 Credit Hours
Students improve knowledge and use of American Sign Language and experiential knowledge of ASL culture through development, production, critique, revision and evaluation of an extended ASL presentation. This is an immersion class; voicing will not be used.
Prerequisite: ASL 39202; and score of intermediate level on the Signing Competency Proficiency Interview.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49309 INTRODUCTION TO DEAF STUDIES (ELR) (WIC) 3 Credit Hours
(Cross-listed with SPED 43309) (Slashed with SPED 53309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment and the various communication systems used by deaf individuals. Specifically, topics discussed include historical, medical and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational and vocational experiences of deaf children, adults and their families.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ASL 49350 AMERICAN SIGN LANGUAGE LITERATURE 3 Credit Hours
This course explores the evolution of storytelling and poetry in American Sign Language and the Deaf community (in the U.S.). Two perspectives are explored: (1) the evolution of the language and its literature, and (2) the historical context and important figures whose work and style had significant impact. The course is conducted primarily in ASL, but examines the translation process to and from English to explore how the spoken, written and signed languages influence each other. This course culminates in a final student production in ASL, either live or recorded, performed for an audience providing appropriate translation and accessibility.
Prerequisite: ASL 39201 with a minimum B grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49401 DEAF CULTURE AND COMMUNITY 3 Credit Hours
(Slashed with SPED 53101) Students explore the different voices and perspectives which have been, and are, present within the deaf community, issues of controversy, myths and data, using a mix of ASL and English materials and discussion. Successful presentation of cumulative portfolio required prior to registration.
Prerequisite: ASL 29202 and 49309; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49601 ACTIVITY DESIGN, IMPLEMENTATION AND EVALUATION 3 Credit Hours
This course is designed to prepare students to teach in both a formal classroom setting as well as in developing community programs to increase awareness of ASL and the Deaf community. Through a combination of theoretical foundations and practical application, students develop a comprehensive understanding of ASL pedagogy. This is an essential course for students preparing for a student teaching placement or students in other fields who wish to offer workshops and community content.
Pre/corequisite: ASL 39202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Animation Game Design (AGD)

AGD 11003 SOLID MODELING 3 Credit Hours
Instruction given in the best usage approaches for parametric design philosophy through a hands-on, practice-intensive curriculum. Students acquire the knowledge needed to complete the process of designing models from conceptual sketching to solid modeling, assembly design and drawing production with rendering techniques for presentation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 12000 TWO DIMENSION GRAPHICS 3 Credit Hours
Introductory course for creation of two-dimension graphics using vector and raster imaging for use in mapping and character development in animation and gaming.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 12001 MODELING AND TEXTURING I 3 Credit Hours
Introduction to the basic concepts of three-dimension modeling and animation. Topics include terminology, techniques of creating textures and imaging for mapping, three-dimension modeling, lighting, shading and rendering.
Prerequisite: AGD 12000 with a minimum grade of C; and Animation Game Design major or Game Design minor or Modeling and Animation minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 21000 FUNDAMENTALS OF MIXED REALITY 3 Credit Hours
Course explores the fundamentals of virtual and augmented reality available today (education, medical, games, architecture, etc.).
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 21092 ANIMATION AND GAME DESIGN PRACTICUM (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience. One credit hour for 50 work hours.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 3.333-10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

AGD 22000 TWO-DIMENSION COMMUNICATION 3 Credit Hours
Comprehensive training with 2D and 3D elements of computer-aided-design from the foundation to advanced techniques applicable to design in the graphics, mechanical, industrial and electronics fields.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 22001 MODELING FOR ARCHITECTURE 3 Credit Hours
Introduction to building information modeling (BIM) fundamentals using an industry-standard architectural software application, including creation of full 3D architectural project into working drawings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 22004 MODELING AND TEXTURING II 3 Credit Hours
3D modeling and computerized techniques. Introduction to the basic concepts, terminology and techniques of 3D modeling, lighting, shading, imaging and animation.
Prerequisite: AGD 12001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 22005 MULTIMEDIA AND GAME DESIGN 3 Credit Hours
2D game development for pc and mobile devices, which includes the creation of flowcharts, roughs and interactive navigation systems. Integration of images, animation, video, sound and custom C# coding
Prerequisite: AGD 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 22010 DIGITAL SCULPTING 3 Credit Hours
This course will explore interactive 3D sculpting to create highly-detailed and realistic models for use in games, film, animation and illustration.
Prerequisite: Animation Game Design major or Game Design minor or Modeling and Animation minor.
Corequisite: AGD 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 22095 SPECIAL TOPICS IN ANIMATION AND GAME DESIGN 1-3 Credit Hours
(Repeatable for credit) Special topics in animation and game design. Repeated registration permitted.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

AGD 23020 GAMING AND CULTURE 3 Credit Hours
Familiarize students with the basic issues of culture and social aspects in different contexts including the relationship between culture and gaming. What is play, what is experiencing, and what are the cultural determinants that are at work in the process.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 23030 GAME PROTOTYPING 3 Credit Hours
Hands-on project course where students will create 3 games that highlight different aspects of the game-making and prototyping process. Students will learn to create game prototypes with different types of media – paper prototypes, storytelling prototypes, simple level design, and others.
Prerequisite: AGD 12000 or CS 38101.
Schedule Type: Lecture
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

AGD 33010 COMPETITIVE GAMING 3 Credit Hours
Introduction to eSports cultures and exploration of streaming techniques and layouts. The business culture of eSports, developing teams, communities, competitive gaming, event marketing and organizing an eSports event.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 33030 GAMES FOR IMPACT 3 Credit Hours
Hands-on project course where students learn how games are used for socially responsible purposes. Students choose a real-life problem to address, identify relevant research about the problem, then propose play-based solutions. This research informs the creation of a digital or non-digital game that educates players about the problem and how to address it.
Prerequisite: AGD 12000; and Animation Game Design major or Game Design minor or Modeling and Animation minor; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2.07 lecture, 2.93 lab
Grade Mode: Standard Letter

AGD 33095 SPECIAL TOPICS ANIMATION AND GAME DESIGN 1-3 Credit Hours
(Repeatable for credit) Topic varies per course offering.
Prerequisite: Animation and game design major.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

AGD 34000 CHARACTER ANIMATION 3 Credit Hours
Continuation of the study and technology applications of computer animation with emphasis on camera usage and the production of a comprehensive animation project involving the animation thought process (ATP).
Prerequisite: AGD 22004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 34001 ANIMATION PROJECT 3 Credit Hours
Continued study of practical technology applications of computer animation with emphasis on scripting code writing, systems line variables and fluent realism factors within the ATP.
Prerequisite: AGD 34000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 34003 ANIMATION THEORY 3 Credit Hours
A comprehensive course covering the fundamentals of storytelling with animation and motion graphics. Coverage of concept development, pre-production, storyboarding, color and design.
Prerequisite: AGD 22004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 34005 ENVIRONMENTAL GAME DESIGN 3 Credit Hours
In this course, we will learn the essentials of game environment creation. We will look at how textures, terrains, foliage, particle effects, lighting and blueprinting work and are created in a computer-aided software. We will also learn to import 3D models in to our game environment.
Prerequisite: AGD 22004; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 43001 ANIMATION PRODUCTION AND VISUAL EFFECTS 3 Credit Hours
A course dealing with the technical and business aspects of pre-and post production planning for multimedia video or film projects. Covers a systematic approach to content organization and development, scripting, visualization. We will explore effects such as particles and volumes (fire, smoke, liquids) inside 3D scenes as well as compositing effects.
Prerequisite: AGD 22004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 43002 GRAPHICS DESIGN TECHNOLOGY 3 Credit Hours
A course of study in the technology of creating knowledge and effects using computer-graphics concepts to create photo-realistic composite images and to restore and enhance a wide array of images.
Prerequisite: AGD 22004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 43025 REAL-TIME RENDERING FOR ANIMATION 3 Credit Hours
This course is designed to explore the workflow of real-time rendering in Unreal Engine to present stories and animation. This includes performance targets, interactivity and animation.
Prerequisite: AGD 34001 or AGD 34005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 43092 INTERNSHIP IN ANIMATION AND GAME DESIGN (ELR) (WIC) 1-3 Credit Hours
(Repeatable for credit) A credit-bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper, or an experience report. It is expected that the internship is different each time the course is taken.
Prerequisite: Animation Game Design major and junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

AGD 43096 INDIVIDUAL INVESTIGATION IN ANIMATION AND GAME DESIGN 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

AGD 43099 GAME PROJECT (ELR) 3 Credit Hours
Explore advanced concepts in Interactive 3D Game Design through a research and project-based course. This course centers on collaborative group project, guiding students in the creation of interactive objects, AI systems, user interfaces and playable 3D characters. The main objective is to develop a fully playable 3D game using Unreal Engine. This course is a continuation of AGD 34005.
Prerequisite: AGD 34005.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AGD 49999 SENIOR CAPSTONE PROJECT (ELR) (WIC) 3 Credit Hours
This is a senior project class allowing students to work in an area of interest.
Prerequisite: AGD 43025 or AGD 43099; and senior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

Anthropology (ANTH)

ANTH 18095 SPECIAL TOPICS ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) Special Topics in Anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 18210 INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS) 3 Credit Hours
This introductory course in cultural anthropology examines the culture concept, the diverse ways of life found in communities around the world, and attempts by anthropologists and other social scientists to understand the commonalities underlying our diversity. It explores how individual lives are shaped by broader cultural and social forces, how people create meaning, and the nature of power relations. Students will gain insight into the potential of anthropological findings to help resolve contemporary human problems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

ANTH 18230 INTRODUCTION TO FORENSIC ANTHROPOLOGY 3 Credit Hours
Forensic anthropology is the application of biological anthropology in a medico-legal context. The tools of archaeology and biological anthropology are used to discover, recover and identify human remains. Topics include human osteology, determining the biological profile (sex, age, ancestry and stature), facial reconstruction, establishing a positive I.D., trauma to bone, stages of decomposition, the role of insects in decomposition, and issues of mass graves.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 18420 INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS) 3 Credit Hours
Archaeology is the study of the human past using material remains. The themes of time change and human diversity will be emphasized as students learn about ancient societies and how they teach us about ourselves. We will survey prehistoric and ancient human existence, from our earliest bipedal ancestors between 5 and 10 million years ago until the beginnings of complex society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

ANTH 18630 HUMAN EVOLUTION (KBS) 3 Credit Hours
Introduction to basic evolutionary theory with a focus on the emergence and progressive development of the human species during the last five million years. Includes related topics such as primate behavior and human variation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Social and Behavioral Sciences, Transfer Module Natural Sciences

ANTH 18631 ISSUES IN HUMAN EVOLUTION (KBS) (KLAB) 1 Credit Hour
Laboratory study of primate and human anatomy; human paleontology; Mendelian, molecular and human genetics; and primate behavior, ecology and conservation.
Pre/corequisite: ANTH 18630.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

ANTH 28095 SPECIAL TOPICS ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) Special Topics in Anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 28300 INTRODUCTION TO FORENSIC GENETICS 3 Credit Hours
Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them; for example, whose DNA is on a gun trigger? This is the first in a two-course series. This course provides a foundation in basic genetic principles and methods relevant to criminal investigation and victim identification. Topics include introduction and history of molecular forensics, crime scene evidence, serology (blood, semen, saliva), blood spatter, chromosome structure, principles of inheritance, linkage and crossing over, microsatellites (STRs), DNA extraction methods, standard PCR, capillary electrophoresis, mitochondrial DNA, sex chromosomes, basic population genetics, and CODIS database.
Prerequisite: ANTH 18230 or ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: Junior standing or above.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38096 INDIVIDUAL INVESTIGATION IN ANTHROPOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit)Readings and/or research supervised by a member of the anthropology staff.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ANTH 38440 QUANTITATIVE ANTHROPOLOGY 3 Credit Hours
Introduces the quantitative description of numerical data, provides an understanding of the basis of probability theory and statistical inference and acquaints the student with the role of computers in anthropology.
Prerequisite: ANTH 18420 or ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38480 ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) 3 Credit Hours
Methods necessary for the description and laboratory analysis of prehistoric remains. Course will include laboratory exercises as well as class lectures.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ANTH 38490 QUANTITATIVE ANTHROPOLOGY 3 Credit Hours
Introduces the quantitative description of numerical data, provides an understanding of the basis of probability theory and statistical inference and acquaints the student with the role of computers in anthropology.
Prerequisite: ANTH 18420 or ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38680 PRIMATE SOCIETIES 3 Credit Hours
This course will be a survey of the behavior of living primates. Topics covered include reproductive and foraging strategies, social structure and primate conservation. Antecedent human behavior will also be considered.
Prerequisite: ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38789 FACES: HUMAN HEAD ANATOMY WITH A FORENSIC ART FOCUS (DIVG) (ELR) 3 Credit Hours
Summer Florence Institute course: Renaissance artists became anatomists in order to create more life-like portrayals of the human figure, and Italy was in the forefront of these developments. Our course begins with studying works by these artist/anatomists: Antonio Pollaiuolo, Leonardo da Vinci, Michelangelo, and others, through visits to the Galleria dell'Accademia and Museum of the Bargello and lectures. We will examine drawings, paintings and sculptures of faces by these artists, and gain an appreciation for how well they understood human anatomy. We will also visit La Specola Anatomical Collection (exquisite wax models copied from real corpses during the 17th century) since we are studying anatomy. In the classroom, students will study human skulls, and learn the form and function of the muscles of facial expression and mastication. We will pay close attention to features of the skull that ultimately give each face its unique qualities, and study the areas that indicate age and sex of the individual. Each student will sculpt the facial bones of a skull, using an exact replica cast as a model. In the last part of the course students learn the techniques of two-dimensional forensic facial reconstruction. Using knowledge of head anatomy, and tissue depth data from the literature, each student will prepare detailed sketches (one man, one woman) based on a photograph of his and her skull. We will also learn about changes to the face over the life span, and make sketches of older people based on photographs of them when young.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ANTH 48001 QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 58001) This course covers the qualitative research methods employed by anthropologists to collect and analyze data. Students will gain skills in ethnography, research design and analysis, and the ethical responsibilities associated with data collection and storage.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48010 NORTH AMERICA'S ICE AGE HUNTERS 3 Credit Hours
(Slashed with ANTH 58010) This class is an in-depth study of the Clovis people, their culture, their technology, their ancestors, and their progeny. The Clovis culture represents the first peoples of North America during the Pleistocene (Ice Age), over 13,000 years ago. These first Americans were colonizers to the New World, and tackled a dangerous and unfamiliar landscape.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48092 FORENSIC ARCHAEOLOGY FIELD SCHOOL (ELR) 3 Credit Hours
(Slashed with ANTH 58092) This course provides students with practical experience in archaeological fieldwork in the context of a mock crime scene. Students will excavate a complex burial feature. Surface survey, excavation and recording techniques, field drawing, and processing of bones and artifacts will be taught.
Prerequisite: ANTH 18230 or ANTH 18630.
Schedule Type: Laboratory, Lecture, Practical Experience
Contact Hours: 1 lecture, 3 lab, 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ANTH 48093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY 1-6 Credit Hours
(Repeatable for credit)Classroom discussions and field study activity focused on professional and disciplinary concerns. Specific content varies with workshop group.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ANTH 48095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with ANTH 58095) Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled.
Prerequisite: ANTH 18210 or 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48150 RELIGION: A SEARCH FOR A MEANING 3 Credit Hours
(Slashed with ANTH 58150) This course teaches students the anthropological approaches to the study of religious beliefs and practices, as well as the role of religion in bringing about social change. Topics covered include: ritual, myth, witchcraft, sorcery, shamanism, syncretism, secularism and fundamentalism. Students will appreciate the diversity of ways in which religion is manifested cross-culturally and understand the different roles that religious beliefs play in human life. Students with Junior standing or above may request that the prerequisite be waived.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48214 POLITICS OF CULTURE (ELR) (WIC) 3 Credit Hours
(Slashed with ANTH 58214) Addresses the way in which culture has been politicized, and looks at such issues as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ANTH 48220 CULTURAL ECOLOGY AND SUSTAINABILITY 3 Credit Hours
(Slashed with ANTH 58220) Exploration of the dynamic relationship between socio-cultural systems and physical-biological environment through Anthropology's comparative perspective on the crucial contemporary need to foster a sustainable society.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48225 ARCHAEOLOGY OF DEATH (ELR) (WIC) 3 Credit Hours
(Slashed with ANTH 58225) Archaeologists study cemeteries to learn how societies treat their dead, as well as work at mass disaster scenes, and clandestine graves. They aid law enforcement in many situations where human remains have been skeletonized. This course will provide students with an understanding of the processes and procedures involved in each.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ANTH 48242 ARCHAEOLOGICAL CERAMICS 3 Credit Hours
(Slashed with ANTH 58242) This course will provide students with essential archaeological knowledge of ceramic materials via lecture and hands-on learning activities. Pottery will be addressed in a holistic manner, starting with its geochemical origins, through the various ways humans have sourced and manipulated this versatile raw material, as well as standard archaeological methods for study and interpretation. Ceramic materials from cultures all around the world will be discussed in depth to reveal both functional and social significance.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48245 PSYCHOLOGICAL ANTHROPOLOGY (DIVG) 3 Credit Hours
(Slashed with ANTH 58245) Overview of psychological anthropology. Includes comparative cross-cultural socialization and personality development; group and national character; relationship of personality to politics, social and occupational roles, and recent explorations of the relationship between culture and cognition. Examines contributions by leading figures, from Freud, Boas, Benedict, and Whorf through modern studies of spatial cognition and navigation.
Prerequisite: ANTH 18210 or PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ANTH 48250 MEDICAL ANTHROPOLOGY (DIVG) 3 Credit Hours
(Slashed with ANTH 58250) This course teaches students the central concepts and methods of medical anthropology, treating illness and healing as biocultural, political and experiential phenomena. The course considers both the specificity of local medical cultures and the complex interactions among the environment, human behavior and political and economic policies that shape them. The course will sensitize students to cultural issues in sickness and health care, and provide some critical analytic concepts and tools. Students with JUNIOR standing or above may request that the prerequisite be waived.
Prerequisite: ANTH 18210 or ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ANTH 48262 PEOPLES AND CULTURES OF AMAZONIA (DIVG) 3 Credit Hours
(Slashed with ANTH 58262) This course introduces students to the cultural traditions of Lowland South American peoples. Through a variety of ethnographic readings and films students will explore key anthropological themes such as the relationship between 'nature' and 'culture', gender relations, violence, anthropological ethics and the impacts of colonialism and globalization. Topics covered include: cosmology, personhood, ritual practices, sorcery, shamanism, gender and indigenous activism. Students with Junior standing or above may request that the prerequisite be waived.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ANTH 48280 BEING HUMAN: SIGNS AND SYMBOLS 3 Credit Hours
An exploration of semiotic anthropology, the study of the production and communication of meaning through signs and symbols in human life, from both a humanistic and a scientific perspective. Special emphasis is on what it means to be human from a spatial as well as an evolutionary perspective as it relates to our sustainability crisis. The topic is crucial to our species, and to life on earth more generally, given the current globalization of modernity and the propagation of its non-sustainable definition of human being.
Prerequisite: Sophomore standing or above.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48295 SPECIAL TOPICS IN CULTURAL ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48300 ADVANCED FORENSIC GENETICS 3 Credit Hours
(Slashed with ANTH 58300) Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them. This is the second in a two-course series, and it focuses on the analysis and interpretation of molecular forensic data, as used in criminal investigations. Topics include quantitative PCR, capillary electrophoresis and electrophoretic artifacts, NRC and ISFG recommendations, CODIS database, familial searches, low-copy DNA, mixture deduction, forensic statistics, missing persons, paternity tests, mass disaster identifications, quality control, accreditations and validations, courtroom testimony, legal challenges to DNA typing, and new approaches and technologies.
Prerequisite: ANTH 28300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48330 PRIMATE ENDOCRINOLOGY 3 Credit Hours
(Slashed with ANTH 58330) This course provides a comprehensive overview of primate behavioral endocrinology, with an emphasis on primate adaptation to maximize reproductive fitness. We learn to identify the major taxonomic groups and their behavioral and physiological diversity, and explore how hormones contribute to shape different primate societies. Throughout the course, we explore hormonal influences on sexual behavior, aggression and dominance, stress and energetic balance, social bonding and parental care, as well as field and laboratory techniques to study nonhuman primates in their natural habitat.
Prerequisite: ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48440 ARCHAEOLOGY OF ANCIENT OHIO 3 Credit Hours
(Slashed with ANTH 58440) Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000 year period from initial occupation to the beginning of European written history.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48450 ANCIENT CIVILIZATIONS 3 Credit Hours
(Slashed with ANTH 58450) This course will explore the mechanisms involved in the development of early complex societies around the globe. Students will be introduced to cross-cultural comparative analysis to explore theories regarding the rise of the state in various ecological environments, as well as other causal explanations and organizational parameters associated with ancient state formation and maintenance.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48492 ARCHAEOLOGICAL FIELD METHODS (ELR) 3 Credit Hours
(Repeatable for credit) (Slashed with ANTH 58492) Field and laboratory techniques in archaeological research.
Prerequisite: Special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.66 lecture, 4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ANTH 48495 SPECIAL TOPICS IN ARCHAEOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48550 FORENSIC SCIENCE IN THE COURTROOM 3 Credit Hours
(Slashed with ANTH 58550) This course will provide Students with an understanding of the types of biological forensic data utilized in court, and the strengths and weaknesses of these data. Though multiple types of analyses will be discussed, emphasis will be placed on DNA (STR) data, as it is the predominant type of biological evidence used today. The course will also cover the steps required to determine whether a new type of analysis is admissible at trial. Basic courtroom procedures, biases in data interpretation and presentation, case studies, and moot courts will be included.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48623 HUMAN VARIATION 3 Credit Hours
(Slashed with ANTH 58623) A detailed anthropological examination of the causes and extent of modern human variability.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48810 HUMAN PALEONTOLOGY 3 Credit Hours
(Slashed with ANTH 58810) Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors.
Prerequisite: ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48820 HUMAN MUSCULO-SKELETAL SYSTEM 3 Credit Hours
(Slashed with ANTH 58820) A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy biomechanics and estimation of age and sex from isolated bones.
Prerequisite: Junior standing or above.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48835 PRIMATE ECOLOGY AND CONSERVATION 3 Credit Hours
(Slashed with ANTH 58835) Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes and human and climatic effects on their long-term survival.
Prerequisite: ANTH 18630 or ANTH 38680 or BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48850 NATURAL SELECTION ACCORDING TO DARWIN 3 Credit Hours
(Slashed with ANTH 58850) Darwin's Origin of Species transformed our understanding of the natural world. Although he was not aware of the biological constituents of inheritance (i.e. genetics and the modern synthesis), his three ingredients for a system of descent with modification – variation, inheritance, and sorting – were wildly influential. This course will not only explore how Darwin understood his monumental theory, but also show that Darwin's original proposal explains both biological and cultural evolution. Students will gain an understanding of how Darwin's theory provided a foundation for modern anthropological thought and continues to inform anthropological queries.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48889 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Slashed with ANTH 58889)(Repeatable for credit) Faculty-led study abroad experiences.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 3-12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ANTH 58001 QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 48001) This course covers the qualitative research methods employed by anthropologists to collect and analyze data. Students will gain skills in ethnography, research design and analysis, and the ethical responsibilities associated with data collection and storage.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58010 NORTH AMERICA'S ICE AGE HUNTERS 3 Credit Hours
(Slashed with ANTH 48010) This class is an in-depth study of the Clovis people, their culture, their technology, their ancestors, and their progeny. The Clovis culture represents the first peoples of North America during the Pleistocene (Ice Age), over 13,000 years ago. These first Americans were colonizers to the New World, and tackled a dangerous and unfamiliar landscape.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58092 FORENSIC ARCHAEOLOGY FIELD SCHOOL 3 Credit Hours
(Slashed with ANTH 48092) This course provides students with practical experience in archaeological fieldwork in the context of a mock crime scene. Students will excavate a complex burial feature. Surface survey, excavation and recording techniques, field drawing, and processing of bones and artifacts will be taught.
Prerequisite: Graduate Standing.
Schedule Type: Laboratory, Lecture, Practical Experience
Contact Hours: 1 lecture, 3 lab, 3 other
Grade Mode: Standard Letter

ANTH 58095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with ANTH 48095) Offered irregularly when unusual resources and/or opportunities permit.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58150 RELIGION: A SEARCH FOR MEANING 3 Credit Hours
(Slashed with ANTH 48150) This course teaches students anthropological approaches to the study of religious beliefs and practices, as well as the role of religion in bringing about social change. Topics covered include: ritual, myth, witchcraft, sorcery, shamanism, syncretism, secularism and fundamentalism. Students will appreciate the diversity of ways in which religion is manifested cross-culturally and understand the different roles that religious beliefs play in human life.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58214 POLITICS OF CULTURE 3 Credit Hours
(Slashed with ANTH 48214) This course will address the way in which culture has been politicized. It will look at issues such as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58220 CULTURAL ECOLOGY AND SUSTAINABILITY 3 Credit Hours
(Slashed with ANTH 48220) Exploration of the dynamic relationship between socio-cultural systems and the physical-biological environment through Anthropology's comparative perspective on the crucial contemporary need to foster a sustainable society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58225 ARCHAEOLOGY OF DEATH 3 Credit Hours
(Slashed with ANTH 48225) Archaeologists study cemeteries to learn how societies treat their dead, as well as work at mass disaster scenes, and clandestine graves. They aid law enforcement in many situations where human remains have been skeletonized. This course will provide students with an understanding of the processes and procedures involved in each.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58242 ARCHAEOLOGICAL CERAMICS 3 Credit Hours
(Slashed with ANTH 48242) This course will provide students with essential archaeological knowledge of ceramic materials via lectures and hands-on learning activities. Pottery will be addressed in a holistic manner, starting with its geochemical origins, through the various ways humans have sourced and manipulated this versatile raw material, as well as standard archaeological methods for study and interpretation. Ceramic materials from cultures all around the world will be discussed in depth to reveal both functional and social significance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58245 PSYCHOLOGICAL ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 48245) Overview of psychological anthropology. Includes comparative cross-cultural socialization and personality development; group and national character; relationship of personality to politics, social and occupational roles, and recent explorations of the relationship between culture and cognition. Examines contributions by leading figures, from Freud, Boas, Benedict, and Whorf through modern studies of spatial cognition and navigation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58250 MEDICAL ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 48250) This course teaches students the central concepts and methods of medical anthropology, treating illness and healing as biocultural, political and experiential phenomena. The course considers both the specificity of local medical cultures and the complex interactions among the environment, human behavior and political and economic policies that shape them. The course will sensitize students to cultural issues in sickness and health care, and provide some critical analytic concepts and tools.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58262 PEOPLES AND CULTURES OF AMAZONIA 3 Credit Hours
(Slashed with ANTH 48262) This course introduces students to the cultural traditions of Lowland South American peoples. Through a variety of ethnographic readings and films students will explore key anthropological themes such as the relationship between 'nature' and 'culture', gender relations, violence, anthropological ethics and the impacts of colonialism and globalization. Topics covered include: cosmology, personhood, ritual practices, sorcery, shamanism, gender and indigenous activism.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58295 SPECIAL TOPICS IN CULTURAL ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58300 ADVANCED FORENSIC GENETICS 3 Credit Hours
(Slashed with ANTH 48300) Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them. This is the second in a two-course series, and it focuses on the analysis and interpretation of molecular forensic data, as used in criminal investigations. Topics include quantitative PCR, capillary electrophoresis and electrophoretic artifacts, NRC and ISFG recommendations, CODIS database, familial searches, low-copy DNA, mixture deduction, forensic statistics, missing persons, paternity tests, mass disaster identifications, quality control, accreditations and validations, courtroom testimony, legal challenges to DNA typing, and new approaches and technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58330 PRIMATE ENDOCRINOLOGY 3 Credit Hours
(Slashed with ANTH 48330) This course provides a comprehensive overview of primate behavioral endocrinology, with an emphasis on primate adaptation to maximize reproductive fitness. We learn to identify the major taxonomic groups and their behavioral and physiological diversity, and explore how hormones contribute to shape different primate societies. Throughout the course, we explore hormonal influences on sexual behavior, aggression and dominance, stress and energetic balance, social bonding and parental care, as well as field and laboratory techniques to study nonhuman primates in their natural habitat.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58440 ARCHAEOLOGY OF ANCIENT OHIO 3 Credit Hours
(Slashed with ANTH 48440) Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000 year period from initial occupation to the beginning of European written history.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58450 ANCIENT CIVILIZATIONS 3 Credit Hours
(Slashed with ANTH 48450) This course will explore the mechanisms involved in the development of early complex societies around the globe. Students will be introduced to cross-cultural comparative analysis to explore theories regarding the rise of the state in various ecological environments, as well as other causal explanations and organizational parameters associated with ancient state formation and maintenance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58492 ARCHAEOLOGICAL FIELD METHODS 3 Credit Hours
(Repeatable for credit) (Slashed with ANTH 48492) Field and laboratory techniques in archaeological research.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.66 lecture, 4 other
Grade Mode: Standard Letter

ANTH 58495 SPECIAL TOPICS IN ARCHAEOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58550 FORENSIC SCIENCE IN THE COURTROOM 3 Credit Hours
(Slashed with ANTH 48550) This course will provide students with an understanding of the types of biological forensic data utilized in court, and the strengths and weaknesses of these data. Though multiple types of analyses will be discussed, emphasis will be placed on DNA (STR) data, as it is the predominant type of biological evidence used today. The course will also cover the steps required to determine whether a new type of analysis is admissible at trial. Basic courtroom procedures, biases in data interpretation and presentation, case studies, and moot courts will be included.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58623 HUMAN VARIATION 3 Credit Hours
(Slashed with ANTH 48623) A detailed anthropological examination of the causes and extent of modern human variability.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58810 HUMAN PALEONTOLOGY 3 Credit Hours
(Slashed with ANTH 48810) Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58820 HUMAN MUSCULO-SKELETAL SYSTEM 3 Credit Hours
(Slashed with ANTH 48820) A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy, biomechanics, and estimation of age and sex from isolated bones.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58835 PRIMATE ECOLOGY AND CONSERVATION 3 Credit Hours
(Slashed with ANTH 48835) Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes and human and climatic effects on their long-term survival.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58850 NATURAL SELECTION ACCORDING TO DARWIN 3 Credit Hours
(Slashed with ANTH 48850) Darwin's Origin of Species transformed our understanding of the natural world. Although he was not aware of the biological constituents of inheritance (i.e. genetics and the modern synthesis), his three ingredients for a system of descent with modification – variation, inheritance, and sorting – were wildly influential. This course will not only explore how Darwin understood his monumental theory, but also show that Darwin's original proposal explains both biological and cultural evolution. Students will gain an understanding of how Darwin's theory provided a foundation for modern anthropological thought and continues to inform anthropological queries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58889 INTERNATIONAL EXPERIENCE 1-4 Credit Hours
(Slashed with ANTH 48889) Faculty-led study abroad experiences.
Prerequisite: Graduate standing.
Schedule Type: Field Experience, International Experience
Contact Hours: 3-12 other
Grade Mode: Standard Letter

ANTH 68095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) Offered irregularly when unusual resources and/or opportunities permit.
Prerequisite: 6 graduate hours toward MA in Anthropology; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 68096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Readings and/or research supervised by member of graduate faculty. Petition form available in the anthropology department office.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ANTH 68098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Repeated registration permitted. Petition form available in the anthropology department office.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ANTH 68199 THESIS I 2-6 Credit Hours
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester, or distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ANTH 68230 PROBLEMS IN CULTURAL ANTHROPOLOGY 3 Credit Hours
Basic graduate course in cultural anthropology required of all M.A. candidates. Course deals with major topics within this subdiscipline of anthropology.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 68299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ANTH 68199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ANTH 68430 PROBLEMS IN WORLD PREHISTORY 3 Credit Hours
Basic graduate course in prehistoric archaeology required of all M.A. candidates.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 68630 PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY 3 Credit Hours
(Cross-listed with BMS 78630) A graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates, early man.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 68637 BIOANTHROPOLOGICAL DATA ANALYSIS I 5 Credit Hours
(Cross-listed with BMS 78637) Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

ANTH 68638 BIOANTHROPOLOGICAL DATA ANALYSIS II 3 Credit Hours
(Cross-listed with BMS 78638) This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple sample problems and regression methods. It also includes computer application. Graduate standing.
Prerequisite: ANTH 68637 (same course as BMS 78638).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Applied and Technical Studies (ATS)

ATS 10000 INTRODUCTION TO ORGANIZATIONAL LEADERSHIP 3 Credit Hours
Course introduces key leadership concepts and practices based on a broad view of the practice of leadership in multiple types of organizations, including social service agencies, non-profit organizations, government units and small businesses. It provides a basic understanding of organizational leadership that is designed to guide students to discover the knowledge and skills that are characteristic of effective leaders. Leadership will be distinguished from the concept of management. Includes a basic examination of leadership theories and models as applied to different categories of organizations, cross-cultural leadership, ethics, power, leadership development, dyadic relations and contextual variation in traits of leaders.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATS 11001 INTRODUCTION TO VACUUM SYSTEMS 3 Credit Hours
Course will cover the types, working principle, application, troubleshooting and maintenance of vacuum pumps used in manufacturing industries.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Vacuum Systems

ATS 11002 OVERVIEW OF MANUFACTURING MAINTENANCE 3 Credit Hours
Course will cover the concepts associated with a manufacturing environment, process control and lean manufacturing.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Intro to Manufacturing, TAG Intro to Manufacturing

ATS 20152 COMPARATIVE ORGANIZATIONAL ETHICS AND LEADERSHIP PRACTICE 3 Credit Hours
Course will examine differences in ethical standards and approaches in the workplaces, including social service agencies, non-profit organizations, government units and small businesses. It is focused on the role organizational leaders play in fostering ethical behavior appropriate to the organization via different forms of cultural development. Students will utilize contemporary case-studies and explore existing frameworks from organizations such as hospitals, educational entities and family-owned small businesses to study ethical dealings and moral leadership from an applied leadership perspective.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATS 20195 SPECIAL TOPICS 1-3 Credit Hours
Subject varies depending on the need and faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ATS 32016 EMOTIONAL INTELLIGENCE AND LEADERSHIP ACROSS ORGANIZATIONS 3 Credit Hours
Course will explore the essentials of emotional intelligence in relation to the human condition and the practical effects of understanding emotional intelligence for effective leadership across different types of organizations, including social service agencies, non-profit organizations, government units and small businesses. Students will engage in thoughtful self-assessment and self-reflection, while seeking to identify their strengths as well as their opportunities for personal growth and expanded emotional intelligence. The focus will be the application of emotional intelligence essentials to different types of organizations, and how that awareness can impact the leadership process for positive culture within varying organizations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATS 42012 ORGANIZATIONAL CARE AND SOCIAL RESPONSIBILITY 3 Credit Hours
Course examines the role of different kinds of organizations in improving community development through organizational responsibility. Topics will include an overview of varying types of organizational responsibility, metrics and the involvement of stakeholders at the organizational, employee and community levels. Organizations considered will include social service agencies, non-profit organizations, government units and small businesses. The course will foster the development of knowledge and explore real-world application of skills that will enable professionals to serve and contribute to advancements of organizations as a part of the community, be it work, nonprofit, voluntary organization, church, city or state through ethical and sustainable decision-making.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Arabic (ARAB)

ARAB 11101 ELEMENTARY ARABIC I 4 Credit Hours
Course is designed for learners with little or no previous knowledge of the Arabic language. It is based on the integration of learning outcomes across interpersonal, interpretive and presentational modes of communication. Students are introduced to the basics of the Arabic writing and sound systems. Students learn basic grammar, vocabulary and structures to enable them to meet functional performance goals at the elementary level to build a foundation for continued language learning. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

ARAB 11102 ELEMENTARY ARABIC II 4 Credit Hours
Continuation of ARAB 11102. This course is based on the integration of learning outcomes across interpersonal, interpretive and presentational modes of communication. It reviews the basics of the Arabic writing and sound systems, focuses on extending students' knowledge of basic grammar, vocabulary and structures to enable them to meet functional performance goals at the elementary level, and develops the skills required for continued language learning. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 11101.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

ARAB 21201 INTERMEDIATE ARABIC I 3 Credit Hours
Continuation of ARAB 11102. This course is based on the integration of learning outcomes across interpersonal, interpretive and presentational modes of communication. It builds upon the concepts, themes, topics and subjects covered in the elementary levels. Course focuses on extending students' knowledge of basic grammar, vocabulary and structures to enable them to meet functional performance goals at the intermediate level, and develops the skills required for continued language learning. Students continue to engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 11102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 21202 INTERMEDIATE ARABIC II 3 Credit Hours
A continuation of Intermediate Arabic I. This course is based on the integration of learning outcomes across interpersonal, interpretive, and presentational modes of communication. The course focuses on extending students' knowledge of basic grammar, vocabulary, and structures to enable them to meet functional performance goals at the intermediate level, and develops the skills required for continued language learning. Students continue to engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 21201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 21401 ARAB CULTURES 3 Credit Hours
This course promotes an understanding of contemporary Arab cultures through conversations and discussions centered around the readings from the course textbook and other supplemental materials provided by the course instructor. Through discussion, other interactive course activities, and short assignments, students learn about the symbols, languages, values, norms, and artifacts that are part of Arab cultures. The course is taught in English and is open to students in all programs of study. No knowledge of the Arabic language is necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 30095 SPECIAL TOPICS IN ARABIC CULTURE AND LANGUAGE 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Topics in Arabic civilization, culture or language.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 31301 ADVANCED INTERMEDIATE ARABIC I 3 Credit Hours
Continuation of the study of Modern Standard Arabic and colloquial Arabic in the context of Arab cultures. Further development of listening, speaking, reading and writing skills, using a variety of cultural materials.
Prerequisite: ARAB 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 31302 ADVANCED INTERMEDIATE ARABIC II 3 Credit Hours
Developing skills of reading, writing, speaking and understanding, this course enhances students' ability to express simple and compound sentences related to everyday activities; examine differences between present, past and future tenses; write assignments using a variety of writing techniques, i.e., describing geographical places, narrating an event, arguing against or for something, and reflecting on news reports; improve students understanding of the world around them using authentic materials on a variety of topics in Modern Standard Arabic; practice the use of grammatical structures and build new vocabulary related to Arab culture and social life in an attempt to improve students' ability to understand texts and express their ideas at an advanced level.
Prerequisite: ARAB 31301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 31311 ARABIC FOR WRITTEN COMMUNICATION 3 Credit Hours
This course is based on the integration of learning outcomes across interpersonal, interpretive, and presentational modes of communication with a focus on developing reading and writing skills. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 31313 ARABIC FOR ORAL COMMUNICATION 3 Credit Hours
This course is based on the integration of learning outcomes across interpersonal, interpretive, and presentational modes of communication with a focus on developing listening and speaking skills. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 37231 TRANSLATION PRACTICE: ARABIC 1 Credit Hour
Translation practice with Arabic texts using principles and techniques learned in the lecture class.
Prerequisite: ARAB 21202.
Corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARAB 37240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: ARABIC 3 Credit Hours
This course is based on the integration of learning outcomes across interpersonal, interpretive, and presentational modes of communication with a focus on developing listening and speaking skills in Arabic for business and other specialized contexts. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Arabic language or culture carried out under the supervision of a faculty member. Departmental approval is required. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Arabic (ARAB) upper-division course (30000 or 40000 level) with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ARAB 41201 ADVANCED ARABIC I 3 Credit Hours
Continuation of ARAB 31302. Emphasis is on building active vocabulary for comprehension, reading authentic texts, writing of connected discourse and the development of higher levels of conversational proficiency.
Prerequisite: ARAB 31302; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 41202 ADVANCED ARABIC II 3 Credit Hours
Enhancing students' ability to speak, understand and write analytically; refining students' ability to use conjunctives and logical connectives at a higher level; understanding stylistic features such as tone, register, figures of speech (i.e., irony, metaphor, simile, alliteration, etc), phrase, clause, sentence and idiomatic structures; enhancing students' ability to use appropriate techniques in descriptive, argumentative, expository writing.
Prerequisite: ARAB 41201; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 47230 ADVANCED TRANSLATION PRACTICE: ARABIC 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes Arabic-English translation of selected texts in business, technology, medicine and law.
Prerequisite: ARAB 37231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 47240 BUSINESS AND SPECIAL TEXTS: ARABIC 3 Credit Hours
This course introduces the concept of language for special purposes and emphasizes special vocabulary in business and other related settings. Learners will build up competence and skills in written communication in business contexts. The course enhances understanding of cultural and ethical issues to identify, resolve and avoid miscommunication. Students learn how to work collaboratively and perform professionally.
Prerequisite: One upper-division ARAB 30000 level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 47343 ARABIC MEDIA AND CURRENT EVENTS 3 Credit Hours
This course introduces students to authentic texts and audiovisual materials from a wide variety of media sources. The course familiarizes students with different media genres. In this course, students develop linguistic, analytical, and bidirectional translation skills and expand their reading, writing, listening, and speaking proficiency. Students discuss, in Arabic, current events related to topics such as technology, politics, economics, terrorism, and the environment.
Prerequisite: One upper-division ARAB course (30000 or 40000 level).
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

ARAB 67010 PRACTICE OF ARABIC TRANSLATION 2 Credit Hours
Introductory course in which students translate a variety of non-specialized, non-fiction short texts in different domains, identify the most common semantic, syntactic, stylistic, cultural and discourse-level problems encountered in translation, and apply appropriate cognitive strategies.
Prerequisite: Graduate standing.
Pre/corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ARAB 67091 SEMINAR IN ARABIC TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized translation projects currently of concern in the translation industry across the Arabic-speaking world. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: ARAB 67010 and TRST 60010; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 67098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Arabic language, translation or culture carried out under the supervision of a faculty member. Departmental approval is required. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

ARAB 67240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, speeches and essays in and from Arabic. '
Prerequisite: ARAB 67010 and TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 67250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
Translating a variety of commercial, financial and legal texts, with special emphasis on text-types most generally translated by professional translators; examining diplomatic texts to understand the language of diplomacy and find the best way to translate it into the target language. Texts subjected for translation from Arabic into English and English into Arabic include employment contracts, articles of incorporation, annual financial statements, diplomatic or official notes, presidential speeches,and international business articles.
Prerequisite: ARAB 67010 and TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 67251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
Introducing methods and resources for the translation of scientific, technical, industrial and medical documents; translating a variety of scientific and medical texts, with special emphasis on text-types most generally translated by professional translators.
Prerequisite: TRST 60001 and TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 67979 TRANSLATION CASE STUDY 3 Credit Hours
Students are responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

Architectural Studies (ARCS)

ARCS 10123 PRINCIPLES AND TECHNIQUES OF DESIGN 3 Credit Hours
A survey of the techniques of 2D and 3D architectural representation, both historical and contemporary. Uses analytical and synthetic exercises that introduce fundamental representation skills. These exercises are supplemented by reading and writing exercises and field trips to cities with significant design culture.
Prerequisite: Architectural Studies major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCS 20121 STUDIO FOR ARCHITECTURAL STUDIES 4 Credit Hours
Course exposes students to the distinct design processes, final products, and interconnectedness of various allied design disciplines including (but not limited to) graphic design, interior design, landscape architecture, urban design, industrial design, architecture and historic preservation.
Prerequisite: AED 10102; and Architectural Studies major.
Schedule Type: Studio
Contact Hours: 8 other
Grade Mode: Standard Letter

ARCS 20122 STUDIO FOR ARCHITECTURAL STUDIES II 4 Credit Hours
Studio allows students to further develop their design skills in relation to a theme or shared research topic that crosses the disciplinary boundaries of architecture and challenges conventional ideas of the role design can play in developing knowledge.
Prerequisite: ARCS 20121 or ARCH 20101.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

ARCS 20123 FIELD AND OBJECT STUDIO 3 Credit Hours
Through a series of related design exercises, this course explores the relationship between two-dimensional fields and three-dimensional objects. Engages students in reading, writing, research and reflection about fields and objects in architecture.
Prerequisite: ARCS 10123.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCS 20124 SCALE AND PERCEPTION STUDIO 3 Credit Hours
Through a series of related design exercises, this course explores human scale and the ways human beings perceive three-dimensional objects and spaces. Engages students in reading, writing, research and reflection about scale and perception in architecture.
Prerequisite: ARCS 10123.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCS 20125 SYSTEMS AND NETWORKS STUDIO 3 Credit Hours
Through a series of related design exercises, this course explores the ways data analysis, systems thinking and/or networks—both real and contrived—can influence architectural design. Engages students in reading, writing, research and reflection about systems and networks in architecture.
Prerequisite: ARCS 10123.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCS 20501 EXPLORING DESIGN DISCIPLINES 1 Credit Hour
Introduces students to innovative approaches to diverse design disciplines through various activities, including coordinated guest lectures and visits to leading graduate programs, forward-thinking design firms, cultural institutions and the Cleveland Urban Design Collaborative.
Prerequisite: ARCS 10123; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCS 30123 MATERIALS AND PROCESSES OF MAKING 3 Credit Hours
Seeks to introduce and foster an ease of mobility through analog and digital design environments utilizing drawing, modeling and fabrication. Students engage in modes of production that enable the testing of material, spatial and tectonic performance through scalar prototyping.
Prerequisite: AED 10102 or ARCH 10102 or ARCS 10123 or ART 10022 or ART 10023 or FDM 10023 or ID 10112 or VCD 13001; and junior standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

ARCS 30124 METHODS AND THEORIES OF REPRESENTATION 3 Credit Hours
Seeks to examine traditional and contemporary methods of architectural representation as generative tools that mediate between individual idea and constructed environment.
Prerequisite: AED 10102 or ARCH 10102 or ARCS 10123 or ART 10022 or ART 10023 or FDM 10023 or ID 10112 or VCD 13001; and junior standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

ARCS 30321 STRUCTURAL TYPOLOGY 3 Credit Hours
Course provides an intuitive introduction to architectural structures that focuses on the historical development of structural types, structure as organization, the structural properties of materials, the physical form-finding design process and the scientific method through lab exercises and design projects.
Prerequisite: ARCH 10001 or ARCH 10011 or ARCH 10012 or ID 20012; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCS 30421 ENVIRONMENTAL IMPERATIVES 3 Credit Hours
Course introduces students to various viewpoints on sustainable built environments with emphasis on the ethical, ecological, social, political, economic and technical implications. Engages students in debates on theoretical and practical positions on sustainability, and the organizations that support sustainable practices in the building industry.
Prerequisite: Architectural Studies major or Architectural Studies minor or Architecture major or Construction Management major or Environmental Studies major or Environmental Studies minor or Interior Design major or Sustainability minor; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCS 40022 URBAN DESIGN DISCOURSE (ELR) 3 Credit Hours
Course explores the interconnections among making space, image creation and inhabiting the city; and engages students in visual and textual documentation of urban life and phenomena. Course presents history, theory and practices of documentation. Students meet in Cleveland at the Cleveland Urban Design Collaborative and take frequent in-person visits to urban sites in and around Cleveland.
Prerequisite: ARCH 10011 or ARCH 10012 or ID 20012; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARCS 40114 THEORY AND CRITICISM IN ARCHITECTURAL MEDIA (WIC) 3 Credit Hours
Aims at investigating the increasingly intertwined issues that link contemporary architectural theory and criticism with the world of media.
Prerequisite: ARCH 10011 or ARCH 10012 or ID 20012; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

Architecture (ARCH)

ARCH 10001 UNDERSTANDING ARCHITECTURE (KFA) 3 Credit Hours
The nature of the built environment, its forms and functions are explored within the cultural contexts of ecology, technology, human behavior, symbolism, art and history.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts, Transfer Module Fine Arts

ARCH 10011 GLOBAL ARCHITECTURAL HISTORY I (KFA) 3 Credit Hours
Global history of architecture from Neolithic times through the 16th century.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts

ARCH 10012 GLOBAL ARCHITECTURAL HISTORY II (KFA) 3 Credit Hours
Global history of architecture from the 17th century to 2000.
Prerequisite: ARCH 10011 or ARTH 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts

ARCH 10093 WORKSHOP: VARIABLE TITLE 1-3 Credit Hours
(Repeatable for credit) Topics vary per workshop offering.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 10101 FIRST YEAR DESIGN STUDIO I 3 Credit Hours
Introduction to ways of understanding, designing, and representing architecture. Through design exercises, students learn the strategies, principles, theories, and tools that architects use to organize, shape, and interpret the built environment. Emphasis is placed on the analysis and construction of interrelated objects, images, and ideas.
Prerequisite: Architecture Major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCH 10102 FIRST-YEAR DESIGN STUDIO II 3 Credit Hours
A continued exploration into ways of understanding, designing, and representing architecture. Through design exercises, students learn the strategies, principles, theories, and tools that architects use to organize, shape, and interpret the built environment. Emphasis is placed on material, enclosure, and architectural scale.
Prerequisite: ARCH 10101 and Architecture Major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCH 20101 SECOND-YEAR DESIGN STUDIO I 3 Credit Hours
The introduction of a building design process that emphasizes the integration of program requirements with specific form topologies using line and plane as the primary elements to provide shape and space.
Prerequisite: ARCH 10102.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 20102 SECOND-YEAR DESIGN STUDIO II 5 Credit Hours
The development of design methodologies and architectural form through processes of analysis, synthesis, and translation. Conceptual frameworks are used to further develop program, assembly systems, surface articulation, site/context within cultural /social systems and their impact on architectural form.
Prerequisite: ARCH 20101.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ARCH 20301 INTRODUCTION TO BUILDING STRUCTURES 3 Credit Hours
An introduction to building structures, statics, strength of materials, analysis for shear-moment-displacement and loads. Includes dead-live-wind-earthquake and building code requirements for structural safety.
Prerequisite: MATH 12002 or (MATH 12011 and MATH 12012); and Architecture major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 20601 COMPUTER APPLICATIONS IN ARCHITECTURE I 1-3 Credit Hours
Course provides a basic understanding of two-dimensional CAD operations, parametric building design and building information modeling (BIM).
Prerequisite: Architecture major.
Schedule Type: Studio
Contact Hours: 2-6 other
Grade Mode: Standard Letter

ARCH 20602 COMPUTER APPLICATIONS IN ARCHITECTURE II 1-3 Credit Hours
Principles and practices of three-dimension digital modeling and rendering, including production of geometric surfaces and forms using polygon construction, texturing, lighting and rendering.
Prerequisite: ARCH 20601; and Architecture major.
Schedule Type: Studio
Contact Hours: 2-6 other
Grade Mode: Standard Letter

ARCH 20693 WORKSHOP: COMPUTER APPLICATIONS 1-3 Credit Hours
(Repeatable for credit) Course provides an exposure to various fundamental computer topics and their application to architectural studies. Topics include file management, network applications, spreadsheets, raster image manipulations, two- and three- dimensional CAD and computer-aided visualization.
Prerequisite: Architecture major or Interior Design majors.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 30001 SITE DESIGN (WIC) 1 Credit Hour
Research component addressing technical, cultural and contextual concerns, influences and directions in site design.
Prerequisite: Architecture major; and approved admission to advanced study (third year).
Corequisite: ARCH 30101.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ARCH 30002 URBAN DESIGN 1 Credit Hour
(Equivalent to ARCH 30012) Lecture component conducted concurrently with ARCH 30102. Course addresses design of form and space in cities through study of precedents, traditions and current directions in urban form-making.
Prerequisite: ARCH 30001 and ARCH 30101.
Corequisite: ARCH 30102.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCH 30012 URBAN DESIGN, FLORENCE, ITALY 1 Credit Hour
(Equivalent to ARCH 30002) Lecture component conducted concurrently with ARCH 30112. Course addresses design of form and space in cities through study of precedents, traditions and current directions in urban form making.
Prerequisite: ARCH 30101.
Corequisite: ARCH 30112.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCH 30031 ARCHITECTURAL DISCOURSES (WIC) 3 Credit Hours
A writing-intensive course introducing fundamental disciplinary discourses in architecture and developing a critical awareness of the range of architectural ideas. Writing, revising, and verbal skills are developed and exercised in a discipline-specific context focused on architectural systems of organization and their broader historical, technological, social, and cultural contexts. Class discussions and writing assignments are based on readings and lectures about relevant architectural positions and various interpretations of buildings that shape the built environment. Written, verbal, and visual skills are developed to frame design work and ideas within the spectrum of architectural discourses.
Prerequisite: ARCH 10012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ARCH 30101 THIRD-YEAR DESIGN STUDIO I 5 Credit Hours
Studio investigation of the simultaneous concerns of program, site, context and materials of construction. Specific emphasis on the understanding of the goals, objectives, intentions and parameters of site/context in design, including cultural influences.
Prerequisite: Architecture major; and approved admission to advanced study (third year).
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ARCH 30102 THIRD-YEAR DESIGN STUDIO II (ELR) 5 Credit Hours
(Equivalent to ARCH 30112) Studio investigation with specific emphasis on the understanding of the goals, objectives, intentions and parameters of urban design.
Prerequisite: ARCH 30101.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARCH 30112 THIRD-YEAR DESIGN STUDIO II, FLORENCE, ITALY (ELR) 5 Credit Hours
(Equivalent to ARCH 30102) Studio investigation with specific emphasis on understanding of the goals, objectives, intentions and parameters of urban design.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARCH 40001 SUSTAINABLE DESIGN (WIC) 1 Credit Hour
(Slashed with ARCH 50001) Research component addressing precedents, traditions, current directions in conservation of natural environment. Principles and methods of ecological design in architecture and urban design.
Prerequisite: ARCH 30102 or ARCH 30112.
Corequisite: ARCH 40101.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ARCH 40002 SYSTEMS DESIGN 1 Credit Hour
(Slashed with ARCH 50002) Lecture and research component addressing comprehensive integration of mechanical, electrical communications structural life safety systems and sustainable design concerns.
Prerequisite: ARCH 40101.
Corequisite: ARCH 40102.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCH 40101 FOURTH-YEAR DESIGN STUDIO I 5 Credit Hours
(Slashed with ARCH 50101) Studio investigation of complex formal and spatial constructs addressing the comprehensive concerns of architecture. Special emphasis on understanding the conservation of the natural environment. Knowledge of CAD is required.
Prerequisite: ARCH 30102 or ARCH 30112.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ARCH 40102 INTEGRATED DESIGN STUDIO 5 Credit Hours
(Slashed with ARCH 50102) Studio investigation of the comprehensive concerns and understanding of building systems integration. Knowledge of CAD is required.
Prerequisite: ARCH 40101 and ARCH 40301 and ARCH 40402 and ARCH 40502.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ARCH 40301 STRUCTURAL SYSTEMS I 3 Credit Hours
(Slashed with ARCH 50301) A continuation of building structures, statics strength of materials and systems analysis. Emphasis is on elastic materials, allowable stresses and design for wood and steel structural members and systems.
Prerequisite: ARCH 20301; and Architecture major; and approved admission to advanced study (third year).
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCH 40302 STRUCTURAL SYSTEMS II 3 Credit Hours
(Slashed with ARCH 50302) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on inelastic materials, allowable stress and design for masonry and concrete structural members and systems.
Prerequisite: ARCH 40301.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 40401 METHODS AND MATERIALS I 3 Credit Hours
(Slashed with ARCH 50401) Introduction to the origins, extraction, properties and processing of the basic materials of construction. Primary focus on wood and masonry-appropriate use and scale including code requirements, methods of construction and design consequences.
Prerequisite: Architecture major; and approved admission to advanced study (third year).
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCH 40402 METHODS AND MATERIALS II 3 Credit Hours
(Slashed with ARCH 50402) Continued investigation of the origins, extraction, properties and processing of the basic materials of construction. Primary focus on concrete and steel-appropriate use and scale, including allied systems and building materials. Introduction to construction contract documents.
Prerequisite: ARCH 40401.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 40501 ENVIRONMENTAL TECHNOLOGY I 3 Credit Hours
(Slashed with ARCH 50501) Basic principles of ecological design and architecture environmental systems, including lighting, sonic and thermal systems.
Prerequisite: PHY 13012; and Architecture major; and approved admission to advanced study (third year).
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter

ARCH 40502 ENVIRONMENTAL TECHNOLOGY II 3 Credit Hours
(Slashed with ARCH 50502) Ecological design of large buildings. Investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings.
Prerequisite: ARCH 40501.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 44611 PORTFOLIO 1 Credit Hour
Architectural drawings and other allied work of the student reproduced and assembled in a professional portfolio suitable for job and graduate application.
Prerequisite: ARCH 30102 or ARCH 30112.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCH 45210 RENAISSANCE ARCHITECTURE 3 Credit Hours
(Slashed with ARCH 55210) History and theory of Renaissance architecture from 1400 until 1600.
Prerequisite: ARCH 10011 and ARCH 10012; or ARTH 22006 and ARTH 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45211 BAROQUE ARCHITECTURE 3 Credit Hours
(Slashed with ARCH 55211) History and theory of architecture in Europe from 1600 through 1750.
Prerequisite: ARCH 10011 and ARCH 10012; or ARTH 22006 and ARTH 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45213 20TH CENTURY ARCHITECTURAL HISTORY 3 Credit Hours
(Slashed with ARCH 55213) History and theory of architecture during the 20th century.
Prerequisite: ARCH 10011 and ARCH 10012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45220 ARCHITECTURE IN THE UNITED STATES 3 Credit Hours
(Slashed with ARCH 55220) History of American architecture for Indigenous and colonial settlements up through the 1980s.
Prerequisite: ARCH 10011 and ARCH 10012; or ARTH 22006 and ARTH 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45230 FRANK LLOYD WRIGHT 3 Credit Hours
(Slashed with ARCH 55230) Examination of the life, buildings and literary works of Frank Lloyd Wright with emphasis on his contributions to American art and architecture and his place in American intellectual history.
Prerequisite: ARCH 10011 and ARCH 10012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45240 THE SKYSCRAPER 3 Credit Hours
(Slashed with ARCH 55240) A study of skyscrapers from the standpoint of architectural, financial, structural, psychological and technological considerations. Emphasis is placed on the early developments in Chicago and New York, the influence of the international style and the current trends in ultra-high skyscrapers built outside the United States.
Prerequisite: ARCH 10011 and ARCH 10012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45241 ARCHITECTURE OF WORLD'S FAIRS 3 Credit Hours
(Slashed with ARCH 55241) Students investigate world's fairs and related expositions as a cultural phenomenon, an urban design challenge and an opportunity to advance and popularize ideas in architecture and design.
Prerequisite: ARCH 10011 and ARCH 10012.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 45295 SPECIAL TOPICS IN ARCHITECTURAL HISTORY 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 55295) Topics within architectural history varies per course offering.
Prerequisite: ARCH 10011 and ARCH 10012.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 45391 SEMINAR: STRUCTURES III 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 55391) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on complex systems, including horizontal long span and high rise structures. Computer analysis is required.
Prerequisite: ARCH 40302.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 45491 SEMINAR: METHODS AND MATERIALS III 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 55491) Advanced topics in methods and complex materials systems. Computer modeling and field experiences are required.
Prerequisite: ARCH 40402.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 45591 SEMINAR: ENVIRONMENTAL TECHNOLOGY III 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 55591) Variable topics in environmental technology, environmental design and energy conservation, advanced lighting techniques etc.
Prerequisite: ARCH 40502.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 45601 ADVANCED COMPUTER APPLICATIONS 1-3 Credit Hours
(Slashed with ARCH 55601) Course discusses advanced visualization techniques such as raytracing, radiosity and animation. Presents a variety of presentation issues and options.
Prerequisite: Approved admission to third year; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 45620 INTRODUCTION TO PRESERVATION 1-3 Credit Hours
(Slashed with ARCH 55620)(Repeatable for credit) An overview of preservation, including building analysis, conservation, adaptive reuse, economic benefits of preservation and preservation planning as a revitalizing strategy.
Prerequisite: ARCH 10011 and ARCH 10012.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 45625 EXPLORING HISTORIC STRUCTURES 3 Credit Hours
(Slashed with ARCH 55625) Course provides students with the skills and opportunity to document an historic structure using methods prescribed by the Historic American Buildings Survey (HABS). Covers recording, documentation and assessment of the historic structure, implementing the guidelines established by the Getty Conservation Institute, including history, purpose, means, methods and field work.
Prerequisite: Junior standing and approved admission to advanced study (third year).
Schedule Type: Laboratory, Lecture
Contact Hours: 1.2 lecture, 3.6 lab
Grade Mode: Standard Letter

ARCH 45627 PRESERVATION TECHNOLOGY 3 Credit Hours
(Slashed with ARCH 55627) Study of historic building materials with an emphasis on causes of degradation, strategies for conservation and standards for restoration.
Prerequisite: Junior or senior standing; and Architecture major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45630 INTRODUCTION TO LANDSCAPE ARCHITECTURE 1-3 Credit Hours
(Slashed with ARCH 55630)(Repeatable for credit) Introduction to landscape design with emphasis upon the relationship between landscape and buildings.
Prerequisite: Approved admission to advanced study (third year).
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 45631 SITE ANALYSIS AND DESIGN 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55631) Analysis of environmental factors as a basis for site selection and site planning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 45640 DEVELOPING ENVIRONMENTS FOR OLDER ADULTS 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55640) Research of existing built environments and an investigation of the planning design process for the elderly.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 45703 THEORIES AND PRINCIPLES OF URBAN DESIGN 1-3 Credit Hours
(Repeatable for maximum 3 credit hours) Course on the nature and utility of theory in urban design, examining the relationship between design ideologies and the theories of the environment on which they are based.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 45704 THEORIES AND PRINCIPLES OF URBAN DESIGN II 1-3 Credit Hours
(Repeatable for maximum 3 credit hours) Focuses on the relationship between design ideologies or theories and the realities of existing spatial relationships or precedents.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 45793 WORKSHOP IN URBAN DESIGN AND PLANNING 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45793) Course provides an introduction to the scope of planning and design in the making of quality urban neighborhoods, with a particular emphasis on the role of urban design, architecture and landscape design.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 46991 SEMINAR: VARIABLE TOPIC 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 56991) Variable topic seminar.
Prerequisite: approved admission to advanced study (third year).
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 46992 FIELD STUDY (ELR) 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 56992) Variable topic field experience.
Prerequisite: Approved admission to advanced study (third year).
Schedule Type: Field Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARCH 46993 WORKSHOP: VARIABLE TOPIC 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 56993) Variable topic workshop.
Prerequisite: Approved admission to advanced study (third year).
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 46995 SPECIAL TOPICS IN ARCHITECTURE 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 56995) Special topics in architecture.
Prerequisite: Approved admission to advanced study (third year).
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

ARCH 46996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Kent State faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 50001 SUSTAINABLE DESIGN 1 Credit Hour
(Slashed with ARCH 40001) Research component addressing precedents, traditions, current directions in conservation of natural environment. Principles and methods of ecological design in architecture and urban design.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCH 50002 SYSTEMS DESIGN 1 Credit Hour
(Slashed with ARCH 40002) Lecture and research component addressing comprehensive integration of mechanical, electrical communications structural life safety systems and sustainable design concerns.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCH 50093 VARIABLE TITLE WORKSHOP IN ARCHITECTURE 1-6 Credit Hours
(Repeatable for credit) Workshop topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 50101 FOURTH-YEAR DESIGN STUDIO I 5 Credit Hours
(Slashed with ARCH 40101) Studio investigation of complex formal and spatial constructs addressing the comprehensive concerns of architecture. Special emphasis on understanding the conservation of the natural environment. Knowledge of CAD is required.
Prerequisite: ARCH 30102 or ARCH 30112; and Graduate standing.
Corequisite: ARCH 50001.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

ARCH 50102 INTEGRATED DESIGN STUDIO 5 Credit Hours
(Slashed with ARCH 40102) Studio investigation of the comprehensive concerns and understanding of building systems integration. Knowledge of CAD is required.
Prerequisite: Graduate standing.
Corequisite: ARCH 50002.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

ARCH 50301 STRUCTURAL SYSTEMS I 3 Credit Hours
(Slashed with ARCH 40301) A continuation of building structures, statics strength of materials and systems analysis. Emphasis is on elastic materials, allowable stresses and design for wood and steel structural members and systems.
Prerequisite: ARCH 20301; and Architecture major; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCH 50302 STRUCTURAL SYSTEMS II 3 Credit Hours
(Slashed with ARCH 40302) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on inelastic materials, allowable stress, and design for masonry and concrete structural members and systems.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 50401 METHODS AND MATERIALS I 3 Credit Hours
(Slashed with ARCH 40401) Introduction to the origins, extraction, properties and processing of the basic materials of construction. Primary focus on wood and masonry-appropriate use and scale including code requirements, methods of construction and design consequences.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCH 50402 METHODS AND MATERIALS II 3 Credit Hours
(Slashed with ARCH 40402) Continued investigation of the origins, extraction, properties and processing of the basic materials of construction. Primary focus on concrete and steel-appropriate use and scale, including allied systems and building materials. Introduction to construction contract documents.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 50501 ENVIRONMENTAL TECHNOLOGY I 3 Credit Hours
(Slashed with ARCH 40501) Basic principles of ecological design and architecture environmental systems, including lighting, sonic and thermal systems.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter

ARCH 50502 ENVIRONMENTAL TECHNOLOGY II 3 Credit Hours
(Slashed with ARCH 40502) Ecological design of large buildings. Investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 55101 FIFTH-YEAR DESIGN STUDIO I 6 Credit Hours
Students investigate a new scale of environmental issues that integrate both architectural and urban planning. Included are site visits, data collection, design of a master plan and an architectural form response to a segment of the total conceptual plan.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCH 55102 FIFTH-YEAR DESIGN STUDIO II 3-6 Credit Hours
(Repeatable for maximum 6 credit hours) Advanced design studio emphasizing comprehensive and independent investigation. Explores and manifests ideas through architecture using competition and hypothetical or real projects as vehicles of expression.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

ARCH 55210 RENAISSANCE ARCHITECTURE 3 Credit Hours
(Slashed with ARCH 45210) History and theory of Renaissance architecture from 1400 until 1600.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55211 BAROQUE ARCHITECTURE 3 Credit Hours
(Slashed with ARCH 45211) History and theory of architecture in Europe from 1600 through 1750.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55213 20TH CENTURY ARCHITECTURAL HISTORY 3 Credit Hours
(Slashed with ARCH 45213) History and theory of architecture during the 20th century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55220 ARCHITECTURE IN THE UNITED STATES 3 Credit Hours
(Slashed with ARCH 45220) History of American architecture for Indigenous and colonial settlements up through the 1980s.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55230 FRANK LLOYD WRIGHT 3 Credit Hours
(Slashed with ARCH 45230) Examination of the life, buildings and literary works of Frank Lloyd Wright with emphasis on his contributions to American art and architecture and his place in American intellectual history.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55240 THE SKYSCRAPER 3 Credit Hours
(Slashed with ARCH 45240) A study of skyscrapers from the standpoint of architectural, financial, structural, psychological and technological considerations. Emphasis is placed on the early developments in Chicago and New York, the influence of the international style and the current trends in ultra-high skyscrapers built outside the United States.
Prerequisite: ARCH 10011 and ARCH 10012; or ARCH 60111 and ARCH 60112; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55241 ARCHITECTURE OF WORLD'S FAIRS 3 Credit Hours
(Slashed with ARCH 45241) Students investigate world's fairs and related expositions as a cultural phenomenon, an urban design challenge and an opportunity to advance and popularize ideas in architecture and design.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55295 SPECIAL TOPICS TOPICS IN ARCHITECTURAL HISTORY 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 45295) Topics within architectural history varies per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 55391 SEMINAR: STRUCTURES III 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 45391) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on complex systems, including horizontal long span and high rise structures. Computer analysis is required.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 55491 SEMINAR: METHODS AND MATERIALS III 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 45491) Advanced topics in methods and complex materials systems. Computer modeling and field experiences are required.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 55591 SEMINAR: ENVIRONMENTAL TECHNOLOGY III 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARCH 45591) Variable topics in environmental technology, environmental design and energy conservation, advanced lighting techniques, etc.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 55601 ADVANCED COMPUTER APPLICATIONS 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45601) Course discusses advanced visualization techniques such as raytracing, radiosity and animation. Presents a variety of presentation issues and options.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 55620 INTRODUCTION TO PRESERVATION 1-3 Credit Hours
(Slashed with ARCH 45620)(Repeatable for credit) An overview of preservation, including building analysis, conservation, adaptive reuse, economic benefits of preservation and preservation planning as a revitalizing strategy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 55625 EXPLORING HISTORIC STRUCTURES 3 Credit Hours
(Slashed with ARCH 45625) Course provides students with the skills and opportunity to document an historic structure using methods prescribed by the Historic American Buildings Survey (HABS). Covers recording, documentation and assessment of the historic structure, implementing the guidelines established by the Getty Conservation Institute, including history, purpose, means, methods and field work.
Prerequisite: Major in the College of Architecture and Environmental Design; and graduate standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 1.2 lecture, 3.6 lab
Grade Mode: Standard Letter

ARCH 55627 PRESERVATION TECHNOLOGY 3 Credit Hours
(Slashed with ARCH 45627) Study of historic building materials with an emphasis on causes of degradation, strategies for conservation and standards for restoration.
Prerequisite: Minimum C grade in ARCH 40401 and ARCH 40402; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55630 INTRODUCTION TO LANDSCAPE ARCHITECTURE 1-3 Credit Hours
(Slashed with ARCH 45630)(Repeatable for credit) Introduction to landscape design with emphasis upon the relationship between landscape and buildings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 55631 SITE ANALYSIS AND DESIGN 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45631) Analysis of environmental factors as a basis for site selection and site planning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 55640 DEVELOPING ENVIRONMENTS FOR OLDER ADULTS 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45640) Research of existing built environments and an investigation of the planning design process for the elderly.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 55793 WORKSHOP IN URBAN DESIGN AND PLANNING 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45793) Course provides an introduction to the scope of planning and design in the making of quality urban neighborhoods, with a particular emphasis on the role of urban design, architecture and landscape design.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 56991 SEMINAR: VARIABLE TOPIC 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARCH 46991) Variable topic seminar.
Prerequisite: Graduate standing and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 56992 FIELD STUDY 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 46992) Field experience.
Prerequisite: Graduate standing and special approval.
Schedule Type: Field Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 56993 WORKSHOP. VARIABLE TOPIC 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 46993) Field experience.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 56995 SPECIAL TOPICS IN ARCHITECTURE 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 46995) Special topics in architecture.
Prerequisite: Graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

ARCH 60101 GRADUATE DESIGN STUDIO I 3-6 Credit Hours
Architectural studies related to buildings. Emphasis on spatial, aesthetic, environmental and functional factors in design.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

ARCH 60102 GRADUATE DESIGN STUDIO II 3-6 Credit Hours
Independent design project, completed under the direction of an individual adviser selected from the graduate faculty.
Prerequisite: ARCH 60101 and ARCH 60301; and graduate standing.
Corequisite: ARCH 60922.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

ARCH 60111 GRADUATE DESIGN FOUNDATIONS STUDIO 3-6 Credit Hours
Graduate-level introduction to the organizational principles and tools designers use to interpret and shape the build environment.
Prerequisite: Graduate Standing.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

ARCH 60112 GRADUATE DESIGN ARCHITECTURE STUDIO 3-6 Credit Hours
The introduction of a building design process that emphasizes the integration of program requirements with specific form typologies using architectural elements as the primary components to design shape, space, and form.
Prerequisite: Graduate Standing.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

ARCH 60113 GRADUATE DESIGN CONTEXT STUDIO 3-6 Credit Hours
Studio investigation that includes consideration of program, site, context, materiality and tectonics. Specific emphasis on understanding the influences of site, context and urban design, including the role of social and cultural influences on the built environment.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

ARCH 60114 GRADUATE DESIGN SYSTEMS STUDIO 3-6 Credit Hours
Studio investigation of comprehensive design concerns, including the integration of building systems and implementation of sustainable strategies.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

ARCH 60150 PROJECT PROGRAMMING 2-3 Credit Hours
Study and discussion of the notion of program in architecture and the principles of project programming. Case study analysis and preparation of a comprehensive program for an architectural project.
Prerequisite: ARCH 60101 and ARCH 60301; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter

ARCH 60199 GRADUATE DESIGN STUDIO III 4-8 Credit Hours
Capstone studio aimed at further investigating building design issues both at a greater depth of complexity and by focusing on particular design aspects or areas of concentration.
Prerequisite: Accelerated Track concentration; and graduate standing.
Schedule Type: Project or Capstone, Studio
Contact Hours: 8-16 other
Grade Mode: Standard Letter

ARCH 60211 GRADUATE GLOBAL HISTORY OF ARCHITECTURE I 3 Credit Hours
Global history of architecture from Neolithic times through the 16th Century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 60212 GRADUATE GLOBAL HISTORY OF ARCHITECTURE II 3 Credit Hours
Global history of architecture from the 17th century to the early 21st century.
Prerequisite: ARCH 60211; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 60301 THEORIES OF ARCHITECTURE 1-3 Credit Hours
(Repeatable for maximum 3 credit hours) In-depth analysis and discussion of contemporary architectural theories. Critical evaluation of major authors and architectural projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 60601 TOOLS OF REPRESENTATION 3 Credit Hours
Introduction to the software used in the digital environment for modeling and representing architectural schemes. Course covers software interface, x,y,z coordinates and navigation, Nurbs modeling and mesh modeling. Enables students to design in three-dimension and represent massing studies, building details and develop architectural elements and site context.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 60602 TOOLS OF FABRICATION 3 Credit Hours
Course covers advanced three-dimensional modeling tools and the different methods for outputting digital models into the physical environment. Includes three-dimension printing, laser cutting, CNC milling and vacuum forming.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 60603 TOOLS OF SIMULATION 3 Credit Hours
Course covers two-dimensional and three-dimensional simulation platforms and the theory behind the tools to generate and simulate architectural ideas and environments. Animation techniques and robotic integration operate as the bridge between the digital and the physical environment.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 60604 TOOLS OF CODING 3 Credit Hours
Course covers visual parametric software and coding languages to generate and develop architectural ideas. Integrates the tools and theory of coding and parametric software and their evolution in the architecture field.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 60922 METHODS OF INQUIRY IN ARCHITECTURAL STUDIES 2 Credit Hours
(Cross-listed with AED 60922 and LARC 60922) Provides a comprehensive coverage of architectural inquiry techniques, including qualitative and quantitative research methods and critical-thinking skills to help students better conduct and understand research.
Prerequisite: ARCH 60101 and ARCH 60301; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ARCH 65001 PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT 2-4 Credit Hours
Introduction to the economic, social, ethical and legal impact on/of development projects in both the public and the private sectors. Computer applications and case-studies analysis are required.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter

ARCH 65002 PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW 2 Credit Hours
Course surveys laws relating to the practice of architecture and to dispute resolution, with emphasis on contract laws contrasted with laws of negligence and the standard of care in the profession. The planning law component surveys land use control mechanisms as seen through zoning, variances and practical applications.
Prerequisite: Architecture major and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ARCH 65003 PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT 2-3 Credit Hours
Course discusses issues of professional leadership and examines architectural office structures. Management approaches, professional registration and practice, use of consulting engineers and financial management of an office in the context of the profession as business.
Prerequisite: ARCH 65002; and Architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter

ARCH 66199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ARCH 66299 THESIS II 2 Credit Hours
(Repeatable for credit) Following completion of 6 credit hours of Thesis I all graduate students must continuously register for Thesis II for all subsequent academic terms (including summer) until all degree requirements are met.
Prerequisite: 6 credit hours of ARCH 66199; graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ARCH 66892 PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Practicum in the field.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 66991 SEMINAR:VARIABLE TOPIC 1-4 Credit Hours
(Repeatable for credit) Seminar on a variable topic per course offering.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ARCH 66992 FIELD STUDY 1-3 Credit Hours
(Repeatable for credit) Field study in architecture.
Prerequisite: Graduate standing.
Schedule Type: Field Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ARCH 66993 WORKSHOP. VARIABLE TOPIC 1-3 Credit Hours
(Repeatable for credit) Variable topic workshop in architecture.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 66995 SPECIAL TOPICS IN ARCHITECTURE 1-4 Credit Hours
(Repeatable for credit) Special topics in architecture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ARCH 66996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual investigation in architecture.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ARCH 66998 RESEARCH 2-6 Credit Hours
(Repeatable for credit) Research in architecture.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 2-6 other
Grade Mode: Standard Letter

ARCH 67510 SUSTAINABLE BUILDING CONSTRUCTION I 3 Credit Hours
First course of a two-course sequence. Provides an in-depth survey of design, pre- and post-construction activities pertinent to green building and sustainable design of the built environment. Reviews fundamental concepts and principles of sustainable building design and construction with special emphasis on construction site issues. Provides a comprehensive review of impact of site on construction and building design on the site and its resources. Focus is on understanding the role building design and construction play on resources efficiency and minimizing the impact of construction activities on the environment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 67511 SUSTAINABLE BUILDING CONSTRUCTION II 3 Credit Hours
Second course of a two-course sequence. Provides an in-depth survey of design, pre- and post-construction activities pertinent to green building and sustainable design of the built environment. Reviews fundamental concepts and principles of sustainable building design and construction with special emphasis on building systems. Provides a comprehensive review of impact of building component, materials and systems on design and construction of High-performance buildings. Focus is on understanding the role building design and construction play on resources efficiency and minimizing the impact of construction activities on the environment.
Prerequisite: ARCH 67510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Architecture and Environmental Design (AED)

AED 10001 DESIGN THINKING I 2 Credit Hours
Provides a broad, interdisciplinary introduction to design culture and the visualization of ideas and information through observations of the object in space.
Prerequisite: Architecture, Architectural Studies or Interior Design major.
Corequisite: AED 10101.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AED 10002 DESIGN THINKING II 2 Credit Hours
Explores the role of design in society with a focus on purpose and meaning of form and space in relation to the human body.
Prerequisite: AED 10001; and Architecture, Interior Design, or Architectural Studies major.
Corequisite: AED 10102.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AED 10101 DESIGN FOUNDATIONS STUDIO I 3 Credit Hours
Introduction to the organizational principles and tools designers use to interpret and shape the built environment.
Prerequisite: Architecture, Architectural studies or Interior Design major.
Corequisite: AED 10001.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

AED 10102 DESIGN FOUNDATIONS STUDIO II 3 Credit Hours
A continued exploration of the organizational principles and tools designers use to interpret and shape the built environment.
Prerequisite: AED 10101; and Architecture, Interior Design or Architectural Studies major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

AED 60922 METHODS OF INQUIRY IN ARCHITECTURAL STUDIES 2 Credit Hours
(Cross-listed with ARCH 60922 and LARC 60922)Provides a comprehensive coverage of architectural inquiry techniques, including qualitative and quantitative research methods and critical-thinking skills to help students better conduct and understand research.
Prerequisite: Graduate standing.
Corequisite: AED 60923.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AED 60923 EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN 1 Credit Hour
(Cross-listed with LARC 60923) Introduces a student to faculty-directed research in a field with the environmental design domain. Typically, the course will include lectures by research faculty, readings from primary and review literature, and regular discussions among students, faculty and other research associates working under the direction of a principal investigator.
Prerequisite: Graduate standing; and special approval.
Corequisite: AED 60922.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

AED 60930 APPLIED RESEARCH METHODS IN ARCHITECTURE AND ENVIRONMENTAL DESIGN 3 Credit Hours
Addresses ontological and epistemological underpinnings of applied research methods in the environmental design fields. It is intended to extend students' understanding of quantitative and qualitative research methods, data collection, analysis and interpretation.
Prerequisite: Minimum B- grade in the following courses AED 60922 and 60923; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AED 66098 TOPICAL IMMERSION 3 Credit Hours
(Repeatable for credit) Introduction to specialized topics, literature, techniques, and research methodologies with an individual faculty member.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 9 other
Grade Mode: Standard Letter

AED 66198 ADVANCED PROPOSAL WRITING 2 Credit Hours
(Repeatable for credit) Supports students' development of research topics, review of relevant research and scholarship, framing of research questions and arguments, selection of an appropriate methodology for analysis and submission of a draft introductory and methodology sections of the proposal document.
Prerequisite: AED 60922 and AED 60923 and AED 60930 and ARCH 60301; and graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 6 other
Grade Mode: Standard Letter

AED 66199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Research and writing activities in the performance of thesis study; highly individualized investigative study that results in the development and writing of a scholarly, comprehensive paper. Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

AED 66299 THESIS II 2 Credit Hours
Following completion of 6 credit hours of Thesis I all graduate students must continuously register for Thesis II for all subsequent academic terms (including summer) until all degree requirements are met.
Prerequisite: 6 credit hours of AED 66199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

AED 66995 SPECIAL TOPICS IN ENVIRONMENTAL DESIGN 1-4 Credit Hours
(Repeatable for credit) Special topics in environmental design and science.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Seminar, Workshop
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

Art (ART)

ART 10022 2D COMPOSITION 3 Credit Hours
This course is a basic introduction to flat pictorial composition. Students will explore the basic principles of design and the application of elements (line, shape, value, texture, and color) to the two-dimensional surface. Students will learn to work with traditional materials as well as new technology. In addition to developing technical proficiency with a variety of materials and tools, emphasis will be placed on visual literacy and critical thinking skills throughout this course. All work (preliminary and final) must be retained for the duration of the semester and beyond as required.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ART 10023 3D COMPOSITION 3 Credit Hours
Course serves as the introductory three-dimensional experience, focusing on fundamental principles, elements and strategies of visual organization. Focus is on creative problem solving using a variety of approaches and materials, and favors non-equipment intensive assignments. Students develop critical thinking and practical skills relating to three-dimensional form and space. This foundation-level course prepares students for subsequent study within all the visual arts.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ART 10024 DIGITAL MEDIA 3 Credit Hours
This course introduces concepts, tools, software and a series of guided exercises to support the creative integration of digital media into making and understanding visual art. In addition to developing technical proficiency with digital media, emphasis is placed on visual literacy and critical thinking skills throughout this course.
Prerequisite: Art Education major or Art History major or Studio Art major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ART 30001 COMMON REVIEW 1 Credit Hour
The course provides an introduction to professional visual arts practices, as well as a candid assessment of a student's emerging strengths. This formative review of digital portfolios, physical artwork and student writing by a panel of School of Art faculty members is intended to assist students in deciding on concentration(s) and a degree program prior to enrollment in upper-division courses.
Prerequisite: ART 10022 and ART 10023 and ART 10024 and ARTH 22007 and ARTS 14000; and two of the following courses: ARTS 14001, ARTS 24002, ARTS 24010, ARTS 24040, ARTS 24051, ARTS 24061, ARTS 25310, ARTS 25400, ARTS 25600 and ARTS 25700; and special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ART 30692 EXPERIENTIAL LEARNING IN THE VISUAL ARTS (ELR) 1-3 Credit Hours
(Repeatable for credit) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on significance of the experience. Learning contract required.
Prerequisite: School of Art major; and junior standing; and special approval of faculty sponsor.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ART 40008 PROFESSIONAL PRACTICES IN VISUAL ARTS (WIC) 3 Credit Hours
Introduction to the concerns and practices of the professional artist/craftsperson.
Prerequisite: Studio Art major; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ART 40099 B.A. STUDIO ART CAPSTONE (ELR) (WIC) 3 Credit Hours
This writing-intensive course is an integrative experience that brings together all components of the B.A. in Studio Art. Students work on a final presentation and supportive cumulative dossier with complementary writing assignments.
Prerequisite: College of the Arts major; and junior standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ART 41093 VARIABLE TITLE WORKSHOP IN ART 1-6 Credit Hours
(Slashed with ART 51093)(Repeatable for maximum of 18 credit hours) Topics vary per course offering.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ART 51093 VARIABLE TITLE WORKSHOP IN ART 1-6 Credit Hours
(Slashed with ART 41093)(Repeatable for credit) Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ART 67199 M.A.THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ART 67299 M.A.THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ART 67199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ART 69199 M.F.A. THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ART 69299 M.F.A. THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ART 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Art Education (ARTE)

ARTE 31001 ART EDUCATION: FOUNDATIONS AND CONCEPTS - ELEMENTARY 3 Credit Hours
An introduction to visual arts education for the young child (PreK-6) using current theory and practice. Curriculum foci include the study of developmental stages of children's art expression and response, creative expression, response dimensions related to art, diversity and educational practices. Course activities include lecture, research, discussion, group activities, studio and field experiences.
Prerequisite: Art Education major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTE 31005 SPECIAL TOPICS: ART EDUCATION- 2-4 Credit Hours
(Repeatable for credit) Content varies per course offering.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter-IP

ARTE 31092 ART EDUCATION :TEACHING PRACTICUM (ELR) 3 Credit Hours
A teaching experience for applying art education concepts. Analysis of instructional problems emphasized. Fifty-four field and/or clinical hours are associated with this course.
Prerequisite: ARTE 31001; and minimum 2.500 overall GPA.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARTE 31096 INDIVIDUAL STUDY ART EDUCATION 2-10 Credit Hours
(Repeatable for credit) Additional study in areas of a student's choice in consultation with adviser.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-10 other
Grade Mode: Standard Letter-IP

ARTE 41002 ART EDUCATION: FOUNDATIONS AND CONCEPTS - SECONDARY (ELR) 3 Credit Hours
This course emphasizes the connections between the development of each student's visual arts education philosophy and its practical applications to teaching, communication with learners at the secondary level, disabled students and non-student audiences, assessment, demonstrations, classroom management, arts advocacy, etc. Off-campus field and/or clinical hours are associated with this course.
Prerequisite: ARTE 31092; and minimum 2.500 overall GPA.
Schedule Type: Practical Experience, Studio
Contact Hours: 7 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARTE 41004 PRE-KINDERGARTEN-12 DESIGN EDUCATION 3 Credit Hours
(Slashed with ARTE 51004) The purpose of this course is to demonstrate the importance of and provide strategies for teaching design in PreK-12 visual arts programs. Students learn the design process and design thinking, adapted specifically for the context of education. The four broad areas of environmental design, communication design, product design and interactive design are covered. The primary focus is on lesson development using the design process, addressing the design areas, working through challenges that integrate with other subject areas and applying design innovation materials and technologies.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTE 41009 ART EDUCATION MAJOR REVIEW 1 Credit Hour
Examination of student's knowledge, proficiency and ability to apply concepts in art and art education.
Prerequisite: Minimum 2.500 overall GPA.
Pre/corequisite: ARTE 41002 and ARTE 41192.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ARTE 41089 INTERNATIONAL EXPERIENCE: ART EDUCATION (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTE 51089) A Kent State faculty-led study abroad experience in art education that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Art Education major; and special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

ARTE 41090 STUDY AWAY: ART EDUCATION (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTE 51090) Travel-based study away in art education at a site or sites away from Kent State University.
Prerequisite: Art education major.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ARTE 41095 SPECIAL TOPICS IN ART EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARTE 51095)Upper-division course whose content changes in accordance with the interest and competence of faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARTE 41096 INDIVIDUAL STUDY-ART EDUCATION 1-6 Credit Hours
(Repeatable for credit) Additional study in areas of students' choice in consultation with adviser.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP

ARTE 41192 ART EDUCATION: FIELD EXPERIENCE (ELR) (WIC) 3 Credit Hours
(Slashed with ARTE 51192) The knowledge and skills emphasized in this course focus on two major areas: (1) planning and teaching visual arts lessons in secondary educational settings with a focus on content and understanding of the theoretical and methodological processes involved, and (2) analyzing, interpreting and critiquing visual arts and design education situations to understand and improve instructional performance. Off-campus field and/or clinical hours are associated with this course.
Prerequisite: Minimum 2.500 overall GPA; and special approval.
Pre/corequisite: ARTE 41002.
Schedule Type: Practical Experience, Studio
Contact Hours: 8.5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ARTE 41525 ART EDUCATION: INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ARTE 51525) Concepts and practices related to teaching visual arts education. Inquiry into visual arts teaching as a professional practice. Emphasis is on teacher as a critical disciplined investigator and culturally relevant practitioner.
Prerequisite: ARTE 41009; and minimum 2.500 overall GPA; and special approval.
Corequisite: ARTE 41592.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTE 41592 ART EDUCATION: STUDENT TEACHING AND SEMINAR (ELR) 9 Credit Hours
Provides a 16-week student teaching experience and seminar. Students must present an official valid certification of Child Safety Training, approved Basic Life Support and ALICE training verification to the clinical experience campus office student portal.
Prerequisite: ARTE 41009; and minimum 2.500 overall GPA; and special approval.
Corequisite: ARTE 41525.
Schedule Type: Practical Experience, Seminar
Contact Hours: 1 lecture, 24 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ARTE 51004 PRE-KINDERGARTEN-12 DESIGN EDUCATION 3 Credit Hours
(Slashed with ARTE 41004) The purpose of this course is to demonstrate the importance of and provide strategies for teaching design in PreK-12 visual arts programs. Students learn the design process and design thinking, adapted specifically for the context of education. The four broad areas of environmental design, communication design, product design and interactive design are covered. The primary focus is on lesson development using the design process, addressing the design areas, working through challenges that integrate with other subject areas and applying design innovation materials and technologies.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTE 51089 INTERNATIONAL EXPERIENCE: ART EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARTE 41089) A Kent State faculty-led study abroad experience in art education that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Art Education major; and graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTE 51090 STUDY AWAY: ART EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTE 41090) Travel-based study away in art education at a site or sites away from Kent State University.
Prerequisite: Major in Art Education; and graduate standing; and special approval.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTE 51095 SPECIAL TOPICS IN ART EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARTE 41095) Upper-division course whose content changes in accordance with the interest and competence of faculty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARTE 51192 ART EDUCATION: FIELD EXPERIENCE 3 Credit Hours
(Slashed with ARTE 41192) The knowledge and skills emphasized in this course focus on two major areas: (1) planning and teaching visual arts lessons in secondary educational settings with a focus on content and understanding of the theoretical and methodological processes involved, and (2) analyzing, interpreting and critiquing visual arts and design education situations to understand and improve instructional performance. Off-campus field and/or clinical hours are associated with this course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience, Studio
Contact Hours: 8.5 other
Grade Mode: Standard Letter

ARTE 51525 ART EDUCATION: INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ARTE 41525) Concepts and practices related to teaching visual arts education. Inquiry into visual arts teaching as a professional practice. Emphasis is on teacher as a critical disciplined investigator and culturally relevant practitioner.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTE 61095 SPECIAL TOPICS: ART EDUCATION 3 Credit Hours
(Repeatable for credit) Topics vary per course offering to reflect the interests and specializations of faculty.
Prerequisite: ARTE 61101; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTE 61096 INDIVIDUAL STUDY IN ART EDUCATION 1-6 Credit Hours
(Repeatable for credit) Specialized study leading to the thesis in art education.
Prerequisite: ARTE 61101 and ARTE 61191 and ARTE 61291; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP

ARTE 61101 RESEARCH SEMINAR IN ART EDUCATION 3 Credit Hours
In this specialized research seminar exploring educational research methods and methodologies, emphasis is placed on the fundamentals of educational research, including how to design and conduct research in visual arts education. An array of methods that are applied in the field are introduced, preparing students to propose their own capstone work.
Prerequisite: Art Education major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTE 61191 SEMINAR IN ART EDUCATION I 3 Credit Hours
(Repeatable for credit) This course is the first seminar that emphasizes the study of prevailing themes in art education. ARTE 61291 completes the study. The curriculum focuses on the ideas of leading scholars and practicing teachers who have shaped practice in the field of art education within the context of the social, political and educational values and beliefs of the time.
Prerequisite: Art Education major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTE 61209 CANDIDACY REVIEW EXAMINATION:ART EDUCATION 1 Credit Hour
A comprehensive review that undertakes a formal assessment of students' knowledge and understanding of concepts in art, education and art education.
Prerequisite: ARTE 61101; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

ARTE 61291 SEMINAR IN ART EDUCATION II 3 Credit Hours
(Repeatable for credit) A continuation of the topics addressed in ARTE 61191. The study of past, prevailing and contemporary issues, and themes in visual arts education.
Prerequisite: ARTE 61191; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTE 61399 ART EDUCATION: GRADUATE PROJECT CAPSTONE 3 Credit Hours
This course is designed for students who have chosen the non-thesis track of the Master of Arts degree in Art Education and will serve as the culminating experience for students completing a project rather than a thesis. The course facilitates research or working on a qualitative/curriculum case study for the final project.
Prerequisite: Art Education major; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Art History (ARTH)

ARTH 12001 ART AS A WORLD PHENOMENON (KFA) 3 Credit Hours
Course explore the essential qualities of art and the motivations for creating art in both Western and non-Western cultures through a thematic paradigm. By the end of the term, students have developed an enhanced ability to identify and describe various media and styles of artistic production, and have a basic knowledge of the major cultural periods and representative artworks in the history of world art. This course is designed for non-art majors, and will not fulfill requirements for School of Art majors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts, Transfer Module Fine Arts

ARTH 22006 ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA) 3 Credit Hours
Examination and interpretation of the major monuments of art and architecture from Paleolithic art to c. 1300 CE. The course addresses global traditions, including regions in Europe, Asia, Africa and the Americas.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts, TAG Arts and Humanities, Transfer Module Fine Arts

ARTH 22007 ART HISTORY: RENAISSANCE TO MODERN ART (KFA) 3 Credit Hours
Examination and interpretation of the major art movements and artists from the early Renaissance through recent decades. The course addresses global history, including art and artists active in Europe, Asia, Africa, and the Americas.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts, TAG Arts and Humanities, Transfer Module Fine Arts

ARTH 22010 INTRODUCTION TO ASIAN ART (DIVG) 3 Credit Hours
The survey introduces arts of pre-modern Asia (with the exception of West Asia and Islamic art in general). Select artistic traditions in South, Southeast and East Asia are considered against their religious, socio-political and other cultural contexts. Major themes include (1) the rise of civilizations, (2) developments of various artistic forms and media, (3) the spread of Buddhism and other religions across the region and (4) trans-cultural relations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ARTH 22021 ART HISTORY: AFRICAN ART (DIVG) (KFA) 3 Credit Hours
An introduction to the arts of Africa with an emphasis on the historical traditions of major kingdoms. Covering a spectrum of regions, students examine primarily sculptural traditions (figural and masquerade) in both royal and ritual contexts. These arts are examined within their social and cultural contexts in the service of politics, as objects of ritual and religious practice, and as evidence of aesthetic choices and achievements. The final segment of the course will address the legacy of these traditions through the colonial period and into modern times.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Fine Arts

ARTH 32000 RESEARCH AND WRITING IN ART HISTORY (WIC) 3 Credit Hours
Introduction to writing styles, methodologies and academic resources for art history research. The course will focus on improving skills in writing about the visual arts through the study of formal analysis, historic context, and modern and contemporary theories and philosophies.
Prerequisite: School of Art major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ARTH 32066 ART AND THEORY SINCE 1940 3 Credit Hours
Visual arts in a global context with emphasis on European and American artists and theory from 1940 to the present.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42001 ART HISTORY METHODOLOGIES 3 Credit Hours
(Slashed with ARTH 52001) This course is designed to introduce participants to the study of art history as a discipline increasingly marked by its diversity of approaches and emphasis on methodology and theory. This seminar will review the representative range of traditional art historical analyses and will study more recent theories of meaning and culture. The course will also examine art historical knowledge in relation to theoretical developments in other disciplines in the humanities.
Prerequisite: ARTH 32000.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 42025 ART OF WEST AFRICA (DIVG) 3 Credit Hours
(Slashed with ARTH 52025) Beginning with the art and architecture from major West African kingdoms, the course follows cultural production from the region through the colonial period and into modernism. The artists of newly-independent West African nations pioneered new visions for how Africans would participate in developing global networks.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ARTH 42028 CONTEMPORARY AFRICAN ART: 1980-PRESENT (DIVG) 3 Credit Hours
(Slashed with ARTH 52028) An in-depth study of African art since the late twentieth century. Focused on artists from the continent and the Diaspora, the course begins by examining the impact that colonialism, with its appropriation, exploitation and reshaping of Africa, had on the arts in Africa (1960-1980). It then analyzes a broad spectrum of modern and contemporary African art forms (painting, printmaking, sculpture, textiles, photography, performance and film) and related art history, exhibition and critical texts from the 1980s to the present, with an emphasis on such issues as patronage, the commodification of art, urbanism, national consciousness, identity formation, new media and the effects of globalization.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ARTH 42036 MEDIEVAL ART 3 Credit Hours
(Slashed with ARTH 52036) Emphasis on major periods of Medieval art (Early Christian, Byzantine, Carolingian, Ottonian, Romanesque and Gothic), treating iconographic themes and styles in a variety of media. Works studied include architecture, manuscript painting, ivory carving, and goldsmith work, most of which were produced by or for members of the clergy, royalty, or the lay aristocracy. The course, therefore, involves significant material relating to political, economic and religious issues. It investigates problems in patronage, function, reception and censorship. A strong emphasis is given to reading primary and secondary sources.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42041 ITALIAN RENAISSANCE ART 3 Credit Hours
(Slashed with ARTH 52041) Study of development of major themes in Italian art from 1200 until about 1450, emphasizing achievements of the masters and analyzing major ideas and theories of the period.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42043 THE HIGH RENAISSANCE AND MANNERISM IN ITALY 3 Credit Hours
(Slashed with ARTH 52043) Covers late 15th century and 16th century painting, sculpture and architecture in Italy. Following discussion of the High Renaissance masters, students examine the works collectively known as the Mannerists. Course gives students a firm grounding in the manifold artistic activity of the 16th century.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42044 VENETIAN RENAISSANCE ART 3 Credit Hours
(Slashed with ARTH 52044) Course provides a survey of Venetian painting, sculpture and architecture from the late 1300s to the late 1500s. Upon completion students have a comprehension of the interrelationship of Venetian art with its unique environment and society.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42045 ITALIAN ART FROM GIOTTO TO BERNINI 3 Credit Hours
(Slashed with ARTH 52045) Course explores the development of art and architecture in Italy from the late Middle Ages to the High Renaissance period. Through an in-depth analysis of the art and history of these periods, students develop an understanding of Italy's role in the overall development of Western civilization. Particular emphasis is given to Florentine Art.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42046 BAROQUE ART OF THE 17TH CENTURY 3 Credit Hours
(Slashed with ARTH 52046) Study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42050 ART AND REVOLT IN THE NINETEENTH CENTURY 3 Credit Hours
(Slashed with ARTH 52050) The nineteenth century is one of the most dramatic time periods in Euro-American art history. Artists and viewers experienced a number of revolutions that profoundly changed the landscape of art and politics. More specifically, nineteenth-century art was created during a violent sweep of colonial expansion, a rise in industrialization, and a revolt against the French Salon. This course considers how artists responded to these social changes by exploring art movements in France and beyond across a wide range of artistic media —including spirit photographs, Moulin Rouge posters, and cemetery sculpture. Students will examine the most canonical nineteenth-century artists while also challenging their placement in the art history canon, which was established at the expense of women and people of color.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42056 AMERICAN ART I: INDIAN WARS TO CIVIL WAR 3 Credit Hours
(Slashed with ARTH 52056) In this first section of American art history, students will explore the evolution of American art from European conquest through the American Revolution, and stretching to the Civil War. This time period in American history is characterized by waves of social unrest followed by periods of peace that American artists reflected and shaped in their work. The American-Indian Wars and the Trans-Atlantic slave trade also profoundly impacted the art and politics of the early United States, inspiring artists to support or protest conflicts in society with their art. Exchanges with African, Indigenous, as well as Asian and European peoples pervaded every aspect of art in the United States. In looking widely at objects such as paintings, clothing, food advertisements, and furniture, this class will examine debates about nationhood in early American art that exploded by the Civil War.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42057 AMERICAN ART II: CIVIL WAR TO CIVIL RIGHTS 3 Credit Hours
(Slashed with ARTH 52057) In this second section and in-depth study of American art history, students will explore shifts and advancements in American art since the closing of the Civil War. New styles in abstraction and technological innovations in photography, lithography, and cinema dramatically altered the trajectory of American art and resulted in an expansion of art museums and patronage. As the United States gained economic power and expanded its borders, American art was also profoundly influenced by movements such as French Impressionism and Mexican muralism, and shaped by artists as close as Canada and as far as Australia. While American artists were debating whether to welcome “foreign” influences in their work, debates over racial segregation and women’s suffrage permeated art and politics on the homefront. In looking widely at objects such as paintings, photographs, silverware, and public monuments, this class will examine the art and visual culture of the United States from the Civil War to Civil Rights movement.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42059 AFRICAN AMERICAN ART AND VISUAL CULTURE (DIVD) 3 Credit Hours
(Slashed with ARTH 52059) This course contextualizes American artists of African descent within the wider framework of U.S. art and visual culture. In looking at a wide range of media—across painting, photography, fashion and food—students study African American visual culture and its profound impact on American art at large. Students also explore the contested concept of “race” as it intersects with the production and patronage of African American art. Furthermore, students consider the benefits and pitfalls of the field and the ways in which art historians, critics and curators have treated African American art in U.S. museums. By the end of this course, students will have a deeper understanding of African American art and its tangled identity politics.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ARTH 42060 RUSSIAN ART 3 Credit Hours
(Slashed with ARTH 52060) This course explores the history of Russian art starting with the legacy of Byzantium and continuing up through the end of the Soviet era, from about 1000 CE to the present. Russia’s artistic movements have borrowed from a wide variety of cultures, both from groups that have attacked and conquered Russian territories as well as from groups that Russians themselves have conquered and attacked. We will focus on art that was produced in Russia as well as the cross-cultural influences that shaped and changed this art. Painting will be a dominant focus, coupled with a broad study including decorative arts like porcelain and embroidery as well as architecture, performance and illustration.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42061 EARLY 20TH-CENTURY ART 3 Credit Hours
(Slashed with ARTH 52061) This course explores the history of Early 20th-Century Modern Art up to the Second World War. Painting, sculpture, and architecture will be the dominant focus, coupled with alternative media that may include printmaking, photography, cinema, performance, and textile arts.
Prerequisite: ARTH 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42064 DADA AND SURREALISM 3 Credit Hours
Using a roughly chronological approach, students examine the profound and lasting contributions made by the Dadaists and Surrealists, as well as other revolutionary modernists of the early 20th century who sought to escape the traditional and rational in art and thought with sincerity in spite of the often superficially simple or even sometimes nihilistic appearance of their efforts. Through an analysis of selected works from this period and their relevant precursors, an attempt will be made to define the progressive ideas which led to the dismantling of previous standards and the rise of an anti-art spirit which continues today in various guises. Primary documents are considered regularly to provide students with a wider appreciation for the variety of media (e.g., film, theater, typography) and the issues and characters involved.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42065 FEMINIST AND QUEER ART AND CULTURAL THEORY (DIVD) 3 Credit Hours
(Slashed with ARTH 52065) This advanced and interdisciplinary art history course explores feminist and queer visual histories, with particular attention to related cultural theories. In addition to paradigmatic ideologies of difference and language, this course is based on indispensable and sometimes peripheral postmodern milieux such as politicized identities, economies and the body, the importance of feeling and the everyday, feminist-Marxist critiques of community and the state and notions of lived histories/narratives. In regard to structure, this is a reading intensive course designed to empower students with 'influential' visual and textual languages, as well as knowledge of critical race, gender and sexuality studies. Readings, discussions, projects and knowledges-at-large are applicable in the artist's studio and more broadly, in humanities scholarship.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ARTH 42069 NATIONS AND BORDERS 3 Credit Hours
(Slashed with ARTH 52069) Emphasizing art and visual culture since World War II, this course considers the phenomenon of the nation-state in the context of embodied borders and diasporas. From the historically charged U.S.-Mexico borderlands to the Berlin Wall that divided East and West Germany, modernity is characterized by the development of nations and subsequent nationalisms as well as the delineation of borders and boundaries—and, once unpacked, theoretical and physical embodiments become legible. Taking a historically-grounded and global approach to state production and displacement, critical texts—many of which are grounded in feminist and queer theories—will address various interpretations of boundaries, especially national and corporeal. We will explore the intellectual history of nation-building and subsequent textual analyses of geographic and embodied borders. We will also study specific art historical moments, such as the militarization of the U.S.-Mexico frontera, Israel's occupation of Palestine, treating East and West Berlin as metaphor and allegory, the borderlands of queer and black identities in the United States and present-day Euro-American imperialism. The course format consists of rigorous class discussions guided by readings and illustrated presentations.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42073 EPHEMERAL EXHIBITIONS: WORLD FAIRS, FESTIVALS AND BIENNIALS 3 Credit Hours
(Slashed with ARTH 52073) Revisiting a variety of time-based exhibition formats throughout recent history. From Joseph Paxton's Crystal Palace to the Venice Biennale, students examine a globally-oriented history of landmark exhibitions that were designed to dazzle audiences for a few months before being dismantled. Sponsored by governments, the corporate sector, grassroots movements, or cultural actors, the motivations for these exhibitions are as varied as the actual format the exhibition takes. We discuss not only the framework and ideologies behind such projects, but also the legacies they have had on more permanent arts institutions, as well as criticisms levied against them by artists.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42076 HISTORIES AND THEORIES OF PHOTOGRAPHY AND VISUAL CULTURE 3 Credit Hours
(Slashed with ARTH 52076) Photography is embedded in every aspect of visual culture. As such, this course is a socio-political and socio-cultural study of photography. This course focuses on major developments in the field, including photography's advent, 19th-century commodity, scientific manipulations, 20th century Modernism and postwar aesthetics. Course also sketches political, cultural and theoretical developments and pertinent debates regarding emergence, significance, interpretation, perception and resonance. In addition to manifold moments in histories and theories of photography, course examines critical approaches to the history of art, including ecocriticism, feminism, critical race studies, queer studies and borderlands studies. While effort will be made to survey photography's history, this is not taxonomy of related movements and moments.
Prerequisite: ARTH 32066.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42079 CONTEMPORARY CRAFT: HISTORY AND THEORY 3 Credit Hours
(Slashed with ARTH 52079) This course is designed to provide an overview of the history, theory, and practice of modern and contemporary studio craft, with an emphasis on North America. Students will develop an enhanced ability to identify and describe various media and styles of artistic production normally associated with "craft" genres: ceramics, textiles/fibers, jewelry/metals, glass and wood/furniture. Concurrently, an introduction to basic philosophies, pedagogical styles, and controversial issues that have shaped this unique cultural, social and artistic history will provide a framework for understanding the intersection of art, craft and design in the 21st-century.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42089 INTERNATIONAL EXPERIENCE: ART HISTORY (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52089) Travel-based international experience in art history. The primary benefit will be the observation and study of works of art, firsthand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific works sites.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

ARTH 42090 STUDY AWAY: ART HISTORY (ELR) 1-3 Credit Hours
(Slashed with ARTH 52090)(Repeatable for credit) Travel-based study away in art history to and at a site or sites away from Kent State University. The primary benefit is the observation and study of works of art firsthand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific work sites.
Prerequisite: School of Art major.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ARTH 42091 ART HISTORY SEMINAR 3 Credit Hours
(Repeatable for credit) Open format course with topics announced in advance. Designed to allow detailed examination of selected topics.
Prerequisite: Junior standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 42092 MUSEUM INTERNSHIP (ELR) 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52092) A supervised internship in a regional museum emphasizing the practical application of museological principles and practices.
Prerequisite: Junior or senior standing.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ARTH 42095 SPECIAL TOPICS: ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52095) Topics vary in accordance with the interest and competence of faculty.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARTH 42096 INDIVIDUAL INVESTIGATION:ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52096) Directed independent study with art history faculty.
Prerequisite: Junior or senior standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ARTH 42098 RESEARCH IN ART HISTORY (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52098) Independent research open only to undergraduate students in art history or related fields (by special permission only).
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARTH 52001 ART HISTORY METHODOLOGIES 3 Credit Hours
(Slashed with ARTH 42001) This course is designed to introduce participants to the study of art history as a discipline increasingly marked by its diversity of approaches and emphasis on methodology and theory. This seminar will review the representative range of traditional art historical analyses and will study more recent theories of meaning and culture. The course will also examine art historical knowledge in relation to theoretical developments in other disciplines in the humanities.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 52025 ART OF WEST AFRICA 3 Credit Hours
(Slashed with ARTH 42025) Beginning with the art and architecture from major West African kingdoms, the course follows cultural production from the region through the colonial period and into modernism. The artists of newly-independent West African nations pioneered new visions for how Africans would participate in developing global networks.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52028 CONTEMPORARY AFRICAN ART: 1980-PRESENT 3 Credit Hours
(Slashed with ARTH 42028) An in-depth study of African art since the late twentieth century. Focused on artists from the continent and the Diaspora, the course begins by examining the impact that colonialism, with its appropriation, exploitation and reshaping of Africa, had on the arts in Africa (1960-1980). It then analyzes a broad spectrum of modern and contemporary African art forms (painting, printmaking, sculpture, textiles, photography, performance and film) and related art history, exhibition and critical texts from the 1980s to the present, with an emphasis on such issues as patronage, the commodification of art, urbanism, national consciousness, identity formation, new media and the effects of globalization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52036 MEDIEVAL ART 3 Credit Hours
(Slashed with ARTH 42036) Emphasis on major periods of Medieval art (Early Christian, Byzantine, Carolingian, Ottonian, Romanesque and Gothic), treating iconographic themes and styles in a variety of media. Works studied include architecture, manuscript painting, ivory carving, and goldsmith work, most of which were produced by or for members of the clergy, royalty, or the lay aristocracy. The course, therefore, involves significant material relating to political, economic, and religious issues. It investigates problems in patronage, function, reception, and censorship. A strong emphasis is given to reading primary and secondary sources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52038 HAND MADE BOOKS AND ART 3 Credit Hours
Course examines the history of (predominantly Western) books and reading; of books as locus of several types of visual art (decoration, illustration, vision, commentary); and of visual strategies for a range of communication tasks in selected books from the Middle Ages onward. Students are prepared to understand the variety and efficacy of approaches that have been used by those producing books by hand in the past and at present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52041 ITALIAN RENAISSANCE ART 3 Credit Hours
(Slashed with ARTH 42041) Study of development of major themes in Italian art from 1200 until about 1450, emphasizing achievements of the masters and analyzing major ideas and theories of the period.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52043 THE HIGH RENAISSANCE AND MANNERISM IN ITALY 3 Credit Hours
(Slashed with ARTH 42043) Covers late 15th century and 16th century painting, sculpture and architecture in Italy. Following discussion of the High Renaissance masters students examine the works collectively known as the Mannerists. Course gives students a firm grounding in the manifold artistic activity of the 16th century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52044 VENETIAN RENAISSANCE ART 3 Credit Hours
(Slashed with ARTH 42044) Course provides a survey of Venetian painting, sculpture and architecture from the late 1300s to the late 1500s. Upon completion students will have a comprehension of Venetian art with its unique environment and society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52045 ITALIAN ART FROM GIOTTO TO BERNINI 3 Credit Hours
(Slashed with ARTH 42045) Course explores the development of art and architecture in Italy from the late Middle Ages to the High Renaissance period. Through an in-depth analysis of the art and history of these periods, students develop an understanding of Italy's role in the overall development of Western civilization. Particular emphasis is given to Florentine Art.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52046 BAROQUE ART OF THE 17TH CENTURY 3 Credit Hours
(Slashed with ARTH 42046) A study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52050 ART AND REVOLT IN THE NINETEENTH CENTURY 3 Credit Hours
(Slashed with ARTH 42050) The nineteenth century is one of the most dramatic time periods in Euro-American art history. Artists and viewers experienced a number of revolutions that profoundly changed the landscape of art and politics. More specifically, nineteenth-century art was created during a violent sweep and architecture within the broader context of colonial expansion, a rise in industrialization and a revolt against the French Salon. Western culture and ideas. This course considers how artists responded to these social changes by exploring art movements in France and beyond across a wide range of artistic media—including spirit photographs, Moulin Rouge posters and cemetery sculpture. Students will examine the most canonical nineteenth-century artists while also challenging their placement in the art history canon, which was established at the expense of women and people of color.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52056 AMERICAN ART I: INDIAN WARS TO CIVIL WAR 3 Credit Hours
(Slashed with ARTH 42056) In this first section of American art history, students will explore the evolution of American art from European conquest through the American Revolution, and stretching to the Civil War. This time period in American history is characterized by waves of social unrest followed by periods of peace that American artists reflected and shaped in their work. The American-Indian Wars and the Trans-Atlantic slave trade also profoundly impacted the art and politics of the early United States, inspiring artists to support or protest conflicts in society with their art. Exchanges with African, Indigenous, as well as Asian and European peoples pervaded every aspect of art in the United States. In looking widely at objects such as paintings, clothing, food advertisements, and furniture, this class will examine debates about nationhood in early American art that exploded by the Civil War.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52057 AMERICAN ART II: CIVIL WAR TO CIVIL RIGHTS 3 Credit Hours
(Slashed with ARTH 42057) In this second section and in-depth study of American art history, students will explore shifts and advancements in American art since the closing of the Civil War. New styles in abstraction and technological innovations in photography, lithography and cinema dramatically altered the trajectory of American art and resulted in an expansion of art museums and patronage. As the United States gained economic power and expanded its borders, American art was also profoundly influenced by movements such as French Impressionism and Mexican muralism and shaped by artists as close as Canada and as far as Australia. While American artists were debating whether to welcome "foreign" influences in their work, debates over racial segregation and women's suffrage permeated art and politics on the homefront. In looking widely at objects such as paintings, photographs, silverware and public monuments, this class will examine the art and visual culture of the United States from the Civil War to Civil Rights movement.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52059 AFRICAN AMERICAN ART AND VISUAL CULTURE 3 Credit Hours
(Slashed with ARTH 42059) This course contextualizes American artists of African descent within the wider framework of U.S. art and visual culture. In looking at a wide range of media—across painting, photography, fashion and food—students study African American visual culture and its profound impact on American art at large. Students also explore the contested concept of "race" as it intersects with the production and patronage of African American art. Furthermore, students consider the benefits and pitfalls of the field and the ways in which art historians, critics and curators have treated African American art in U.S. museums. By the end of this course, students will have a deeper understanding of African American art and its tangled identity politics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52060 RUSSIAN ART 3 Credit Hours
(Slashed with ARTH 42060)This course explores the history of Russian art starting with the legacy of Byzantium and continuing up through the end of the Soviet era, from about 1000 CE to the present. Russia's artistic movements have borrowed from a wide variety of cultures, both from groups that have attacked and conquered Russian territories as well as from groups that Russians themselves have conquered and attacked. We will focus on art that was produced in Russia as well as the cross-cultural influences that shaped and changed this art. Painting will be a dominant focus, coupled with a broad study including decorative arts like porcelain and embroidery as well as architecture, performance and illustration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52061 EARLY 20TH-CENTURY ART 3 Credit Hours
(Slashed with ARTH 42061) This course explores the history of Early 20th-Century Modern Art up to the Second World War. Painting, sculpture, and architecture will be the dominant focus, coupled with alternative media that may include printmaking, photography, cinema, performance and textile arts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52064 DADA AND SURREALISM 3 Credit Hours
(Slashed with ARTH 42064) Using a roughly chronological approach, students examine the profound and lasting contributions made by the Dadaists and Surrealists, as well as other revolutionary modernists of the early 20th century who sought to escape the traditional and rational in art and thought with sincerity in spite of the often superficially simple or even sometimes nihilistic appearance of their efforts. Through an analysis of selected works from this period and their relevant precursors, an attempt will be made to define the progressive ideas which led to the dismantling of previous standards and the rise of an anti-art spirit which continues today in various guises. Primary documents are considered regularly to provide students with a wider appreciation for the variety of media (e.g., film, theater, typography) and the issues and characters involved.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52065 FEMINIST AND QUEER ART AND CULTURAL THEORY 3 Credit Hours
(Slashed with ARTH 42065) This advanced and interdisciplinary art history course explores feminist and queer visual histories, with particular attention to related cultural theories. In addition to paradigmatic ideologies of difference and language, this course is based on indispensable and sometimes peripheral postmodern milieux such as politicized identities, economies and the body, the importance of feeling and the everyday, feminist-Marxist critiques of community and the state and notions of lived histories/narratives. In regard to structure, this is a reading intensive course designed to empower students with 'influential' visual and textual languages, as well as knowledge of critical race, gender and sexuality studies. Readings, discussions, projects and knowledges-at-large are applicable in the artist's studio and more broadly, in humanities scholarship.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52069 NATIONS AND BORDERS 3 Credit Hours
(Slashed with ARTH 42069) Emphasizing art and visual culture since World War II, this course considers the phenomenon of the nation-state in the context of embodied borders and diasporas. From the historically charged U.S.-Mexico borderlands to the Berlin Wall that divided East and West Germany, modernity is characterized by the development of nations and subsequent nationalisms as well as the delineation of borders and boundaries—and, once unpacked, theoretical and physical embodiments become legible. Taking a historically-grounded and global approach to state production and displacement, critical texts—many of which are grounded in feminist and queer theories—will address various interpretations of boundaries, especially national and corporeal. We will explore the intellectual history of nation-building and subsequent textual analyses of geographic and embodied borders. We will also study specific art historical moments, such as the militarization of the U.S.-Mexico frontera, Israel's occupation of Palestine, treating East and West Berlin as metaphor and allegory, the borderlands of queer and black identities in the United States and present-day Euro-American imperialism. The course format consists of rigorous class discussions guided by readings and illustrated presentations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52073 EPHEMERAL EXHIBITIONS: WORLD FAIRS, FESTIVALS AND BIENNIALS 3 Credit Hours
(Slashed with ARTH 42073) Revisiting a variety of time-based exhibition formats throughout recent history. From Joseph Paxton's Crystal Palace to the Venice Biennale, students examine a globally-oriented history of landmark exhibitions that were designed to dazzle audiences for a few months before being dismantled. Sponsored by governments, the corporate sector, grassroots movements, or cultural actors, the motivations for these exhibitions are as varied as the actual format the exhibition takes. We discuss not only the framework and ideologies behind such projects, but also the legacies they have had on more permanent arts institutions, as well as criticisms levied against them by artists.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52076 HISTORIES AND THEORIES OF PHOTOGRAPHY AND VISUAL CULTURE 3 Credit Hours
(Slashed with ARTH 42076) Photography is embedded in every aspect of visual culture. As such, this course is a socio-political and socio-cultural study of photography. This course focuses on major developments in the field, including photography's advent, 19th-century commodity, scientific manipulations, 20th century Modernism and postwar aesthetics. Course also sketches political, cultural and theoretical developments and pertinent debates regarding emergence, significance, interpretation, perception and resonance. In addition to manifold moments in histories and theories of photography, course examines critical approaches to the history of art, including ecocriticism, feminism, critical race studies, queer studies and borderlands studies. While effort will be made to survey photography's history, this is not taxonomy of related movements and moments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52079 CONTEMPORARY CRAFT: HISTORY AND THEORY 3 Credit Hours
(Slashed with ARTH 42079) This course is designed to provide an overview of the history, theory, and practice of modern and contemporary studio craft, with an emphasis on North America. Students will develop an enhanced ability to identify and describe various media and styles of artistic production normally associated with "craft" genres: ceramics, textiles/fibers, jewelry/metals, glass, and wood/furniture. Concurrently, an introduction to basic philosophies, pedagogical styles and controversial issues that have shaped this unique cultural, social and artistic history will provide a framework for understanding the intersection of art, craft and design in the 21st-century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52089 INTERNATIONAL EXPERIENCE: ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42089) Travel-based international experience in art history. The primary benefit will be the observation and study of works of art firsthand, first hand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific works sites.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTH 52090 STUDY AWAY: ART HISTORY 1-3 Credit Hours
(Slashed with ARTH 42090)(Repeatable for credit) Travel-based study away in art history to and at a site or sites away from Kent State University. The primary benefit is the observation and study of works of art firsthand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific work sites.
Prerequisite: School of Art major; and graduate standing.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTH 52092 MUSEUM INTERNSHIP 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42092) A supervised internship in a regional museum emphasizing the practical application of museological principles and curatorial practices.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

ARTH 52095 SPECIAL TOPICS:ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42095) Topics vary in accordance with the interest and competence of faculty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARTH 52096 INDIVIDUAL INVESTIGATION:ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42096) Directed independent study with art history faculty.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

ARTH 52098 RESEARCH IN ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42098) Independent research open only to graduate students in art history or related fields.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

ARTH 52166 HISTORIES AND THEORIES OF MODERN AND CONTEMPORARY ART 3 Credit Hours
This course examines both the visual and textual. As such we travel through contemporary moments such as Abstract Expressionism, Post-Painterly Abstraction, Nouveau Réalisme, Pop, Minimalism, Conceptual art and participatory art—to name a few. So too, this course entails a broad overview of critical and theoretical approaches often engaged by contemporary artists such as existentialism, psychoanalysis, structuralism, semiotics, feminist and queer theories, theories of modern sculpture, and theories of photography. When art and theory are taken together, modern and contemporary art underscores the cultural, sociopolitical and economic developments characteristic of the last half of the twentieth century. While time constraints restrict a consideration of every artist, a selection of practitioners will be addressed. That said, this course affirms the importance of questions rather than finite answers, celebrates ambiguity and neglects any attempt at surveying and summarizing the field of modern and contemporary art.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 62000 ART HISTORY RESEARCH METHODS AND RESOURCES 2 Credit Hours
This course is designed to support research and writing at the graduate level in art history. Class time is customized to provide students with assistance in strategies required for graduate research papers and thesis preparation. Significant emphasis will be placed on becoming familiar with different methods and theories of art history research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

ARTH 62091 ART HISTORY SEMINAR 3 Credit Hours
(Repeatable for credit) Open format course with topics announced in advance. Designed to allow in-depth examination of selected topics.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 62095 SPECIAL TOPICS: ART HISTORY 3 Credit Hours
(Repeatable for credit) Discussion and lecture course whose topic changes in accordance with the interest and competence of the faculty. Special focus on problems and issues in the different areas of the discipline.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 62096 SELECTED PROBLEMS: ART HISTORY 3 Credit Hours
(Repeatable for maximum 9 credit hours) Course content changes each semester according to the topic, entailing discussion and lectures on specific problems issues and areas in art history.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 62098 ART HISTORY: GRADUATE RESEARCH 1-6 Credit Hours
(Repeatable for credit) Independent research.
Prerequisite: Art History major; and graduate standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

Art Studio Art (ARTS)

ARTS 14000 DRAWING I 3 Credit Hours
Fundamental drawing and studio experiences; exploration of basic drawing ideas and media. Work produced in class must be retained for later portfolio presentation in ART 30001.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ARTS 14001 DRAWING II 3 Credit Hours
Continued practice in drawing with emphasis upon dimensional representation, pictorial structure and the breakdown of formal elements. Work produced in this class must be retained for later portfolio presentation in ART 30001.
Prerequisite: ARTS 14000.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 24002 DRAWING AS A STUDIO PRACTICE 3 Credit Hours
An introduction to advanced concepts and ideas which enable the student to understand and professionally realize their drawings as a studio practice. Work produced in this course must be retained for later portfolio presentation in ART 30001.
Prerequisite: ARTS 14000 and ARTS 14001.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 24010 INTRODUCTION TO FINE ART PHOTOGRAPHY 3 Credit Hours
Introductory studio/lecture course which introduces fine art photography with an aesthetic, contemporary approach. Students learn traditional and digital photographic image-making applications and the historical underpinnings of the photograph in modern art. Research paper and portfolio required. Work produced in this class must be retained for later portfolio presentation in ART 30001.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 24040 INTRODUCTION TO PRINT MEDIA 3 Credit Hours
Course gives the beginning student an overview of basic printmaking techniques and an understanding of what a print is, its form in both unique and multiple formats, and how these function in culture. Printmaking processes result in a rich array of pictorial possibilities and methodological approaches. Students are exposed to the basic techniques and concepts of relief, intaglio and monotype applications for printmaking.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ARTS 24051 INTRODUCTION TO SCULPTURAL PRACTICE 3 Credit Hours
Course provides a firm grounding in the rudiments of sculpture and sculpture's expanding field. Drawing on historical, aesthetic and technical strategies of generating and understanding sculpture; students are guided toward the realization of three-dimensional form. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work, engendering a better understanding of how sculpture is situated within the context of culture and society at large. Students explore the formal properties and expressive potential of materials, including mold making and casting, wood, metal and experimental media. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 24061 INTRODUCTION TO PAINTING 3 Credit Hours
Acrylic-based media is used to introduce the fundamentals of building a painting, the development of a sophisticated painting vocabulary, and a confident understanding of color. Emphasis on observational painting from life through varied techniques, with an introduction to tools, processes and best studio practices. Work must be retained for later portfolio presentation in Art 30001.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 25310 FOUNDATIONS IN WEAVING 3 Credit Hours
Weaving – the systematic interlacement of two elements – is a direct way to construct a plane while simultaneously creating surface imagery. Integration of structure and surface provides the foundation for exploration with a focus on the development of constructed form to create compositional fields. Students are introduced to weaving on the four-shaft floor loom through the study of basic weave structures, fiber types, dye processes and yarn composition. The predictability of loom-controlled weaves is complicated with the exploration of hand dyed yarns and a variety of weaver-controlled techniques including tapestry, brocade and inlay. Study of the global, historic and contemporary position of weaving as an artistic discipline occurs through readings, presentations and class discussions. Overall, emphasis is placed on the development of a strong technical language to further expression with an awareness of from where materials and techniques come. In this intensive hands-on class, students produce both experimental compositions and finished works. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 25400 CERAMICS I 3 Credit Hours
An introduction to the use of clay as applied to the design and construction of utilitarian and sculptural forms. Major emphasis is on developing hand building skills and wheel throwing techniques. Instruction in the basic understanding of clay bodies, glazes, decoration and firing of high-fire stoneware ceramics.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ARTS 25600 INTRODUCTION TO GLASS WORKING 3 Credit Hours
Introduction to studio glass through technique and brief history. Both basic glass blowing and glass casting techniques and problems are covered.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 25700 INTRODUCTION TO JEWELRY METALS 3 Credit Hours
Introduction to basic jewelry and metalsmithing techniques including cold connection, sheet fabrication, forming and finishing. Emphasis on advancing design skills and critical analysis. Exposure to historical and contemporary works.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34002 FIGURE DRAWING 3 Credit Hours
(Repeatable for credit) Extensive studio practice of traditional and contemporary approaches to the human figure. Critical analysis of the figure from the Renaissance through postmodernism. Students work from a nude model.
Prerequisite: ARTS 24002.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34003 DRAWING: STRUCTURE AND EXPERIMENTATION 3 Credit Hours
(Repeatable for credit) Extensive exploration of advanced drawing concepts and ideas as strategies for experimentation with process and materials.
Prerequisite: ARTS 24002.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34043 INTAGLIO 3 Credit Hours
(Repeatable for credit) This class is designed to give the intermediate student an overview of various intaglio processes in relationship to contemporary art practice. During this hands-on studio experience, students will apply principles and techniques taught in class into the evolution of their own personal aesthetics. The resulting visual statements will combine those principles, techniques, and aesthetics with ideas and conceptual content.
Prerequisite: ARTS 24040.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34044 SCREENPRINT 3 Credit Hours
(Repeatable for credit) This class is designed to give the intermediate student an overview of screenprint techniques in relationship to contemporary art practice. During this hands-on studio experience, students will apply principles and techniques taught in class into the evolution of their own personal aesthetics. The resulting visual statements will combine those principles and aesthetics with ideas and conceptual content.
Prerequisite: ARTS 24040.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34045 LITHOGRAPHY 3 Credit Hours
(Repeatable for credit) This class is designed to give the intermediate student an overview of various lithographic processes in relationship to contemporary art practice. During this hands-on studio experience, students will apply principles and techniques taught in class into the evolution of their own personal aesthetics. The resulting visual statements will combine those principles and aesthetics with ideas and conceptual content.
Prerequisite: ARTS 24040.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34050 LIFE MODELING 3 Credit Hours
(Repeatable for maximum of 6 credit hours) Traditional life modeling course in which students work almost exclusively from observation. The focus is on developing skills with clay, understanding the human form, understanding proportions, learning how to make armatures as well as developing a personal and expressive way of approaching the figure.
Prerequisite: ARTS 24051.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34051 SCULPTURAL OBJECT 3 Credit Hours
Course builds on ARTS 24051 with a greater emphasis on content, proficiency, technical expertise, craftsmanship and understanding of contemporary sculpture. Students explore the object in space, delineating issues of scale, materiality, representation, abstraction, metaphor and hybridity. Drawing on historical, aesthetic and technical strategies of generating and understanding sculpture, students are guided toward the realization of more sophisticated and complex ways of handling materials and incorporating meaning. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work, engendering a better understanding of how sculpture is situated within the context of culture and society at large. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.
Prerequisite: ARTS 24051.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34052 TIME ARTS 3 Credit Hours
This interdisciplinary course investigates the fundamentals of time-based media and its intersection with sculptural practice. Students build on concepts from ARTS 24051 to gain a broader understanding of multiple methods of making including performance, video, site and situation-specific works, as well as the use of traditional sculptural materials. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work engendering a better understanding of how sculpture is situated within the contemporary art world. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.
Prerequisite: ARTS 24051.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34053 SITE AND INSTALLATION 3 Credit Hours
This interdisciplinary course builds on concepts introduced in ARTS 24051, and expands on a variety of approaches in developing site-specific installations by considering the relationship between object/context, public/private, interior/exterior and urban/rural. Through the manipulation of materials, found objects and time-based media, students are introduced to concepts of space, intention, site and intervention through experimental approaches. Students further develop an understanding of material and context through in-depth readings, lectures and critical dialogue. Sculptural techniques, performance, photography and video art are covered and incorporated into the course. Studio time is supplemented by readings, lectures and site visits around campus.
Prerequisite: ARTS 24051.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34061 INTERMEDIATE PAINTING 3 Credit Hours
Continuation of painting from observation with an introduction to oil paints and mediums. Students will look outside of the still life at various subjects including spatial dynamics, the figure, and abstracted imagery. Introduction to oil painting tools, processes, and best studio practices.
Prerequisite: ARTS 24061.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34062 PAINTING STRATEGIES: PROCESS AND CONTENT 3 Credit Hours
This course focuses on conceptual prompts relative to contemporary issues to encourage a variety of processes and material approaches to making paintings. Students continue the idea of building a painting through the iterative process of making, analyzing, and editing their work throughout the semester. The painting is a live surface, a place to collect and record information, and this course insists that students consider a wide range of formal and conceptual choices to best address content. Each project will be initiated with rigorous research and further supported by exposure to visual examples of historic and contemporary painting, readings, written responses, seminar-style discussions, and numerous critiques of both in-progress and finished work.
Prerequisite: ARTS 34061.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34063 PAINTING STRATEGIES: IMAGE AND CONTENT 3 Credit Hours
This course investigates various contemporary painting strategies through the use of images as source materials, with a strong emphasis on narrative. Moving away from direct observation and towards the abstraction of imagery, students will be asked to approach their practice through research, preliminary studies and sketches, and a self-driven investigation of the use of images to create concept. Various prompts will be assigned and are designed to provide students with a stronger understanding of the use of found, self-produced, or appropriated imagery as reference for their work, while helping each student build a direction for their painting practice. We will look to other mediums such as film, photography, collage, and advertising to inform the painted image and improve the reading of contemporary painting. We will look to other mediums to better contextualize the painted image in contemporary art.
Prerequisite: ARTS 34061.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35095 STUDIO ART: SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) Specialized courses in studio art that focus on specific techniques and media.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35302 FELTMAKING 3 Credit Hours
Felt is an anti-fabric. Unique among textiles, feltmaking is the only method of cloth construction that wholly denies the grid. Through hands-on intensives and independent research, students engage the unique attributes of feltmaking through planar, pictorial and dimensional outputs. Felt's relationship to conceptual art, post-modernist sculpture, kitsch and camp are explored alongside the study of its social and cultural position within the global history of textiles. Material and technical vocabularies are framed through course texts, presentations and critical discussions. Students output studies and realized works which engage felt as an artistic medium. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35305 TEXTILES: ACCESSORIES - DESIGN AND PRODUCTION 3 Credit Hours
Focus is on the design and production of textile accessories using the structural process of weaving. Texture, material, and color are critically and creatively considered in relation to the development of unique functional objects. Professional design objectives are presented.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35310 OFF-LOOM 3 Credit Hours
This course focuses on the architectural aspects of interlacement. Moving off the loom, students construct with thread, yarn and other long flexible materials to transform line into planar or sculptural form. Explorations engage space and the pliability of textiles to emphasize the physical and tactile aspects of the materials and construction methods inherent to fiber. Processes such as plaiting, netting, knotting, looping, wrapping, coiling, ropemaking and basketry provide a foundational vocabulary in the exploration of dimensional textiles. The use of traditional materials are combined with found materials to further engage the question of material meaning. Students approach the sensibilities of weaving outside of highly technologized looms by working with direct and accessible tools to find freedom in the pursuit of experimental form. These material and technical vocabularies are framed through course texts, presentations and critical discussions. Students output studies and realized works which engage relief, sculpture and space. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35311 PRINT FOR TEXTILES AND ALTERNATIVE SURFACES 3 Credit Hours
As a holistic exploration of printed textiles, this course presents a range of processes for printing on cloth and alternative substrates. The use of inks, dyes, resists, discharges and additional chemical processes are introduced and explored. Students create hand-drawn, computer generated and photographic images to explore foundational print vocabularies such as block printing, mono printing, screen printing, multiples, color relationships, composition, repeat patterns, color layering, CMYK and experimental alternative processes. The relevance of printed textiles in the expanded field of contemporary art is emphasized. Interdisciplinary and experimental uses of the printed surface are encouraged throughout the development of personal research and practice. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35312 DIGITAL TEXTILES 3 Credit Hours
With connections to technology and industry, textile practices employ digital platforms to speculate form and simulate materiality. Building off these techno-industrial strategies, students engage hybrid making that moves between the screen and material to imagine textile futures. Workshops present a digital textile vocabulary encompassing digital design, repeat and pattern layouts and material simulation. Student work is output through digital fabrication resources at the DI HUB. Coursework considers practices that engage textiles across experiential and technological platforms in contemporary art and design. Essential to this inquiry, students participate in critical discussions of core texts alongside their own making. Studio production engages digital design and outsourced fabrication. This work yields studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35313 BACKSTRAP WEAVING 3 Credit Hours
This rhizomatic potential of weaving is exemplified with backstrap weaving where looms are constructed and altered freely according to the improvisational vision of the weaver. Working from this orientation, this course engages the fluidity of the backstrap loom to transgress binary thinking, and further integrate skill building alongside conceptual development. Students combine traditional and experimental materials with the exploration of four-selvedge cloth, brocade and double cloth to develop a rigorous vocabulary. Visual, pictorial, architectural, sculptural, performative and nomadic practices are explored in a polynary pursuit of weaving. Making occurs in concert with the study of woven cosmologies that predate the modernist lineage. Studio production oscillates between generating material vocabularies and self-directed making workshopped through regular critiques. This coursework considers weaving expansively to disrupt dominant paradigms that define textility through technological and social binaries. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35316 DYE AND COLOR 3 Credit Hours
Color is a uniquely slippery element that can shift before our eyes just as it inflects social, political and emotional meaning upon the visual world. In this course, dyes are an interface to explore the formal and conceptual possibilities of color. Students are introduced to natural and synthetic dye technologies, and develop vocabulary in immersion dyeing, direct application of dyes, dye resists and dye discharges. Alongside material outputs, students investigate the social, economic and historic position of dyes and dyestuffs. Consideration of color as a source of content is a primary point of focus. Coursework includes studio activity, critical discussion of core texts and individualized research. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35400 FUNCTIONAL APPROACHES TO CLAY 3 Credit Hours
(Repeatable for credit) Intermediate ceramics course focused on creating functional pottery utilizing the wheel and hand building. A range of techniques are demonstrated to build skills and understanding of pottery making, design, function, surface decoration and the concept of made forms. Students learn how to make clay and glazes from dry materials as well as how to fire a gas kiln.
Prerequisite: ARTS 25400.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35401 SCULPTURAL APPROACHES IN CLAY 3 Credit Hours
(Repeatable for credit) An intermediate course focusing on all aspects of sculptural ceramics. Course may include explorations in three-dimensional form, the human figure, mold making, multiples and installation.
Prerequisite: ARTS 25400.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35602 FLAMEWORKED GLASS 3 Credit Hours
(Repeatable for credit) An investigation of techniques, tools, equipment and materials involved in glass lampworking processes. The course covers basic melting, shaping and blowing with a glass flameworking torch.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35603 GLASS BLOWING 3 Credit Hours
(Repeatable for credit) Further exploration of glass blowing techniques. Design, form, color and execution are emphasized.
Prerequisite: ARTS 25600.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35604 SCULPTURAL AND KILN-FORMED GLASS 3 Credit Hours
(Repeatable for credit) An overview and exploration of sculptural and kiln-formed glass techniques. Casting, pattern making, mold making and cold construction are covered. Design, form, content and technical execution and understanding operations of equipment are emphasized.
Prerequisite: Junior standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35700 JEWELRY CONCEPTS AND TECHNIQUES 3 Credit Hours
An in-depth exploration of jewelry making techniques such as enameling, casting, stone setting, mechanisms and fabrication. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.
Prerequisite: ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35701 METALSMITHING CONCEPTS AND TECHNIQUES 3 Credit Hours
Course offers an in-depth exploration of larger scale fabrication, mechanisms, chasing and repoussé and hammer working techniques (raising, forging and shell forming). Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.
Prerequisite: ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35704 ENAMELING CONCEPTS AND TECHNIQUES 3 Credit Hours
(Repeatable for credit) An in-depth exploration of vitreous enameling techniques on two-dimensional surfaces. Champlevé, cloisonné and sifted enamel approaches are highlighted. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.
Prerequisite: ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44002 ADVANCED DRAWING FOR ALL DISCIPLINES 3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 54002) An advanced drawing course, open to all studio disciplines, with an emphasis on students pursuing individually conceived problems in close consultation one-on-one with faculty.
Prerequisite: ART 30001; and ARTS 24002.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44010 ADVANCED FINE ART PHOTOGRAPHY 3 Credit Hours
Combined studio/lecture course offering more advanced, conceptual approaches to the contemporary applications of photographic imaging for artists. Students work with larger scale printing formats, more involved research and greater depth of involvement with the photographic medium.
Prerequisite: ARTS 24010 and ART 30001.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44011 DIGITAL FINE ART PHOTOGRAPHY 3 Credit Hours
(Slashed with ARTS 54011) Students develop their technical and conceptual skills in fine art digital photography, and develop a contemporary approach to working with the medium. Students explore various photographic and digital techniques, and form an awareness of such techniques in contemporary photography.
Prerequisite: Minimum C grade in ART 10022.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

ARTS 44043 ADVANCED PRINT MEDIA 3 Credit Hours
(Repeatable for maximum 9 credit hours) Advanced printmaking course with emphasis on students producing new, individually conceived visual works in print media in close consultation with faculty.
Prerequisite: ART 30001; and ARTS 34043 or ARTS 34044 or ARTS 34045.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44045 ART OF THE BOOK 3 Credit Hours
(Slashed with ARTS 54045) An introduction to artists' books. A variety of binding methods and strategies for creating art through alternative and traditional book forms are introduced. Students complete projects and develop a personal visual language through the book form.
Prerequisite: Junior standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44046 PAPERMAKING 3 Credit Hours
(Slashed with ARTS 54046) This course introduces students to both traditional and experimental uses of handmade paper. This course combines presentations, demonstrations, group brainstorming sessions, field trips and critiques to apply towards papermaking projects. An artist research presentation and final presentation are required to encourage students to engage in outside resources and self reflect on semester-long growth. Papermaking techniques include but are not limited to: European sheet formation, pulp pigmenting, pulp painting, stenciling, embedding, paper casting and sheet wrapping. Paper fibers incorporated in this course include but are not limited to: abaca, cotton, flax and mulberry. Both two-dimensional and three-dimensional approaches to papermaking are explored. Exploration and experimentation are encouraged with equal demands on craft.
Prerequisite: Junior standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44051 ADVANCED SCULPTURAL PRACTICE 3 Credit Hours
(Repeatable for credit) Course is self-directed, in which students create a series of sculptural works in consultation with the instructor and through ongoing student-led presentations, discussions and in-progress and final critiques. Emphasis is on creating a body of work throughout the semester that is informed by and demonstrates an awareness of contemporary practice in terms of approaches to content, form and presentation. Students can work in a variety of ways: object making, installation, site-based and/or time-based approaches. Research and writing are emphasized. Readings, slide presentations, discussions and critiques help provide context and vocabulary for student development.
Prerequisite: ART 30001 and ARTS 24051; and ARTS 34051 or ARTS 34052 or ARTS 34053.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44060 ADVANCED PAINTING: PRACTICE AND THEORY 3 Credit Hours
(Repeatable for credit) Advanced painting course with an emphasis on pursuing individually conceived problems in close consultation with faculty.
Prerequisite: ART 30001; and ARTS 34061; and ARTS 34062 or ARTS 34063.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44070 DIGITAL FABRICATION IN STUDIO ART 3 Credit Hours
(Slashed with ARTS 54070) This course is an introduction to digital fabrication technologies as they relate to a studio practice. Mastery of software skills enables one to better explore object-making as a medium of personal expression. In addition to technical skills, the course will introduce relationships between form, subject matter, and content. Projects will include technical and conceptual problem solving, design lessons, object making and short student lead initiatives to connect to maker spaces and industries that can support future making. Instructor facilitated discussions between students will form a community of mutual learning.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44091 VARIABLE CONTENT SEMINAR: STUDIO ART 3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 54091) Contemporary issues related to visual arts are explored through presentation, lecture, and discussion. Guest speakers augment staff.
Prerequisite: Junior or senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTS 44096 INDIVIDUAL STUDY: STUDIO ART 1-6 Credit Hours
(Repeatable for credit) Additional study in area of student's choice in consultation with advisor.
Prerequisite: ART 30001; and a major in Studio Art; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-12 other
Grade Mode: Standard Letter

ARTS 44098 RESEARCH IN STUDIO ART (ELR) 1-3 Credit Hours
(Repeatable for credit) Studio research in the visual arts.
Prerequisite: Junior or senior standing.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ARTS 44192 INTERNSHIP OR PRACTICUM IN STUDIO ART (ELR) 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 54192) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts, and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on the significance of the experience.
Prerequisite: A major in the School of Art; junior or senior standing; and special approval of faculty sponsor.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ARTS 45080 KENT BLOSSOM ART 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 55080) Studio exploration of selected concepts in studio art: painting; drawing; sculpture and expanded media; print media and photography; ceramics; glass; jewelry, metals and enameling; textiles. Content varies with each section offered.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter-IP

ARTS 45089 INTERNATIONAL EXPERIENCE: STUDIO ART (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 55089) A Kent State faculty-led study abroad experience in studio art that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Studio Art major; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

ARTS 45090 STUDY AWAY: STUDIO ART (ELR) 1-3 Credit Hours
(Slashed with ARTS 55090)(Repeatable for credit) Study away in studio art disciplines at a site at or away from Kent State University.
Prerequisite: Studio Art major.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ARTS 45095 SPECIAL TOPICS: STUDIO ART 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 55095) Specialized courses in studio art that focus on specific techniques and media.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter

ARTS 45098 SENIOR THESIS RESEARCH AND PROPOSAL (ELR) 1 Credit Hour
(Repeatable for credit) Preparatory course, which acts as an exploratory period for students to develop their ideas - conceptually, thematically and materially - through research, writing and physical material studies. Upon successful completion, students may continue with ARTS 45099.
Prerequisite: Major in Studio Art; senior standing; and special approval.
Schedule Type: Research
Contact Hours: 1.6 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ARTS 45099 SENIOR THESIS EXHIBITION (ELR) 3 Credit Hours
This course prepares students for the challenges of a creative professional practice in their chosen discipline. As the culmination of undergraduate studies, the course serves as a capstone experience for students in their chosen concentration. Provides students an opportunity to independently develop and create a body of work for exhibition and oral review with faculty. Requires the completion of an undergraduate thesis and professional caliber photo documentation of the exhibition.
Prerequisite: ART 30001; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ARTS 45300 JACQUARD: DIGITAL WEAVING 3 Credit Hours
(Slashed with ARTS 55300)(Repeatable for credit) The digitally interfaced jacquard goes beyond the limitations of the floor loom, allowing for direct control of individual threads to enable image materialization. Incorporating mediation and handwork, students explore the historical and conceptual interstices of digital technology, weaving and picture-making. This advanced course investigates the tensions between digital interfaces and material outputs while engaging their cooperative possibilities. Inquiries into the implications of aesthetics, skill and technology are explored alongside the relationship of cloth and image. A vocabulary of woven constructions, patterns, colors and textures are developed using the digital jacquard loom. Coursework incorporates the computer, handweaving, reading, research and critical dialogue. A personal laptop computer is required for this course. We reclaim the jacquard as a hand loom to articulate form that can only emerge through the confrontation and synthesis of body and technology. The weaver embodies the cyborg. Students who do not meet the prerequisites may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: ARTS 45314 or ARTS 45351; and junior standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45301 TEXTILES: ADVANCED STUDIO 3 Credit Hours
Structured time for individual investigations in textiles. Emphasis on self-designed study. Bi-weekly presentations of contemporary work in textiles and weekly discussions or critiques with open studio.
Prerequisite: ART 30001; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45307 TEXTILES: WEAVING AND COLOR 3 Credit Hours
(Slashed with ARTS 55307) This course will provide students with an opportunity to explore numerous techniques that emphasize the interaction of color in relation to the unique interlacement process of weaving. Use of different looms (including the floor and frame) will provide the means to integrate color with patterns and image in the connection of warp and weft. Immersion dyeing will be introduced along with specialized direct dye application methods.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45308 TEXTILE ARTS AND GENDER 3 Credit Hours
(Slashed with ARTS 55308) Textile Arts and Gender is designed as an exploratory learning experience. Through weekly readings and discussions, students will engage with historical and contemporary ideas of how textiles relate to gender and how this informs contemporary textile art practice. Simultaneously, students will be learning textile art techniques chosen because of their close association with historical notions of the feminine, the decorative, and the domestic. Students will also study the contemporary use of these same techniques in textile works that explore the concepts of gender, feminism, and subversion.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45314 PRACTICES IN WEAVING: TAPESTRY 3 Credit Hours
(Slashed with ARTS 55314)(Repeatable for credit) This intensive studio course considers tapestry expansively as an interface through which weaving contributes to aesthetics and meaning according to its own logic and history. Woven form is realized in collaboration with the tectonic grid of the loom, yielding a unique relationship to image-making; the structural surface and the image it bears are one and the same. Working with multi-harness floor looms, students engage this question through rigorous material explorations. Vocabulary is expanded through the study of double cloth, discontinuous/supplementary wefts and dye processes. The position of weaving as a progenitor of abstraction and the role of color as a catalyst for meaning are essential points of inquiry. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. This work considers the practice of weaving as an expansive playground to complicate the paradigms of contemporary art with textility. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: ARTS 25310.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45351 PRACTICES IN WEAVING: LOOM-THINKING 3 Credit Hours
(Slashed with ARTS 55351)(Repeatable for credit) This intensive studio course focuses on weaving and its relationship to the evolving landscape of contemporary art. Working with multi-harness floor looms, students engage rigorous questions in imagery, sculptural form and spatial intervention. Vocabulary is expanded through the study of complex woven constructions, hand and digital drafting and dye processes. Emphasis is placed on developing fluency with the language and logic of the loom. Here, students enter the space of “loom-thinking” to create, mutate, subvert and interrupt weave drafts and thread interlacements in the production of woven form. Through their developing technical virtuosity, students push the algorithmic sensibility of weaving toward visual and material poetics. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. This work considers the practice of weaving as an expansive playground to complicate the paradigms of contemporary art with textility. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: ARTS 25310.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45400 ADVANCED CERAMICS 3 Credit Hours
(Repeatable for credit) Course is designed to assist and guide students in developing their own personal art practice, concepts and skills using the ceramic medium. Personal research and critical thinking are emphasized during class discussions and critiques.
Prerequisite: ART 30001; and ARTS 35400 or ARTS 35401.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45600 ADVANCED GLASS WORKING 3 Credit Hours
(Repeatable for credit) Individual exploration of sculptural and hot glass techniques. Design, form, content and execution strongly emphasized. Introduction to studio facility design, construction and maintenance.
Prerequisite: ART 30001; and two of the following courses: ARTS 35602, ARTS 35603 and ARTS 35604.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45700 JEWELRY DESIGN AND PRODUCTION 3 Credit Hours
Course examines strategies and techniques to effectively enter the jewelry field. Industrial applications to produce multiples, research into specialized markets and packaging of work are addressed. Design and professional practice skills are emphasized.
Prerequisite: ARTS 35700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45705 CAD FOR JEWELRY 3 Credit Hours
(Slashed with ARTS 55705) Students develop a set of comprehensive computer-aided design (CAD) skills to be utilized in a variety of studies such as sculpture design, jewelry making and many others. CAD skills are developed through the investigation of laser cutting, 3D modeling, project planning and 3D printing. Mastery of these techniques enable students to better explore object-making as a medium of personal expression. Although there are many technical components to learn, the instructor also focuses on the relationship between form, subject matter and content.
Prerequisite: ART 30001 and ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45707 CONTEMPORARY APPROACHES IN METALSMITHING 3 Credit Hours
Course introduces students to current trends in the creation of metalsmithed objects. “Materialsmithing”, new technologies and industrial applications are joined with historically important metalsmithing principles in the ideation and creation of new works. Research and conceptual development are emphasized.
Prerequisite: ART 30001 and ARTS 35701.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45708 BODY ORNAMENTATION 3 Credit Hours
(Slashed with ARTS 55708)(Repeatable for credit) Course addresses the expanding theories and techniques used to adorn the body within jewelry metals and enamel. New technologies, material exploration and contemporary practices in adornment are presented. Conceptual development and research are emphasized.
Prerequisite: ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54002 ADVANCED DRAWING FOR ALL DISCIPLINES 3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 44002) An advanced drawing course, open to all studio disciplines, with an emphasis on students pursuing individually conceived problems in close consultation one-on-one with faculty.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54011 DIGITAL FINE ART PHOTOGRAPHY 3 Credit Hours
(Slashed with ARTS 44011) Students develop their technical and conceptual skills in fine art digital photography, and develop a contemporary approach to working with the medium. Students explore various photographic and digital techniques and form an awareness of such techniques in contemporary photography.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

ARTS 54045 ART OF THE BOOK 3 Credit Hours
(Slashed with ARTS 44045) An introduction to artists' books. A variety of binding methods and strategies for creating art through alternative and traditional book forms are introduced. Students complete projects and develop a personal visual language through the book form.
Prerequisite: Master of Arts degree or Master of Fine Arts degree; and graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54046 PAPERMAKING 3 Credit Hours
(Slashed with ARTS 44046) This course introduces students to both traditional and experimental uses of handmade paper. This course combines presentations, demonstrations, group brainstorming sessions, field trips and critiques to apply towards papermaking projects. An artist research presentation and final presentation are required to encourage students to engage in outside resources and self reflect on semester-long growth. Papermaking techniques include but are not limited to: European sheet formation, pulp pigmenting, pulp painting, stenciling, embedding, paper casting and sheet wrapping. Paper fibers incorporated in this course include but are not limited to: abaca, cotton, flax and mulberry. Both two-dimensional and three-dimensional approaches to papermaking are explored. Exploration and experimentation are encouraged with equal demands on craft.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54070 DIGITAL FABRICATION IN STUDIO ART 3 Credit Hours
(Slashed with ARTS 44070) This course is an introduction to digital fabrication technologies as they relate to a studio practice. Mastery of software skills enables one to better explore object-making as a medium of personal expression. In addition to technical skills, the course will introduce relationships between form, subject matter, and content. Projects will include technical and conceptual problem solving, design lessons, object making, and short student lead initiatives to connect to makerspaces and industries that can support future making. Instructor facilitated discussions between students will form a community of mutual learning.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54091 VARIABLE CONTENT SEMINAR: STUDIO ART 3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 44091) Contemporary issues related to visual arts are explored through presentation, lecture and discussion. Guest speakers augment staff.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTS 54192 INTERNSHIP OR PRACTICUM IN STUDIO ART 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 44192) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts, and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on the significance of the experience.
Prerequisite: A major in the School of Art; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

ARTS 55080 KENT BLOSSOM ART 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 45080) Studio exploration in the visual arts, including ceramics, drawing, glass, jewelry-metals-enameling, painting, print media and photography, sculpture and expanded media and textiles.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter-IP

ARTS 55089 INTERNATIONAL EXPERIENCE: STUDIO ART 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 45089) A Kent State faculty-led study abroad experience in studio art that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Studio Art major; and graduate standing; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTS 55090 STUDY AWAY: STUDIO ART 1-3 Credit Hours
(Slashed with ARTS 45090)(Repeatable for credit) Study away in studio art disciplines at a site at or away from Kent State University.
Prerequisite: Studio Art major; and graduate standing.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTS 55095 STUDIO ART: SPECIAL TOPICS 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 45095) Specialized courses in studio art that focus on specific techniques and media.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter

ARTS 55300 JACQUARD: DIGITAL WEAVING 3 Credit Hours
(Slashed with ARTS 45300)(Repeatable for credit) The digitally interfaced jacquard goes beyond the limitations of the floor loom, allowing for direct control of individual threads to enable image materialization. Incorporating mediation and handwork, students explore the historical and conceptual interstices of digital technology, weaving and picture-making. This advanced course investigates the tensions between digital interfaces and material outputs while engaging their cooperative possibilities. Inquiries into the implications of aesthetics, skill and technology are explored alongside the relationship of cloth and image. A vocabulary of woven constructions, patterns, colors and textures are developed using the digital jacquard loom. Coursework incorporates the computer, handweaving, reading, research and critical dialogue. A personal laptop computer is required for this course. We reclaim the jacquard as a hand loom to articulate form that can only emerge through the confrontation and synthesis of body and technology. The weaver embodies the cyborg.
Prerequisite: Studio Art major; and graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55307 TEXTILES: WEAVING AND COLOR 3 Credit Hours
(Slashed with ARTS 45307) This course will provide students with an opportunity to explore numerous techniques that emphasize the interaction of color in relation to the unique interlacement process of weaving. The use of different looms (including the floor and frame) will provide the means to integrate color with patterns and image in the connection of warp and weft. Immersion dyeing will be introduced along with specialized direct dye application, methods.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55308 TEXTILE ARTS AND GENDER 3 Credit Hours
(Slashed with ARTS 55308) Textile Arts and Gender is designed as an exploratory learning experience. Through weekly readings and discussions, students will engage with historical and contemporary ideas of how textiles relate to gender and how this informs contemporary textile art practice. Simultaneously, students will be learning textile art techniques chosen because of their close association with historical notions of the feminine, the decorative, and the domestic. Students will also study the contemporary use of these same techniques in textile works that explore the concepts of gender, feminism and subversion.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55314 PRACTICES IN WEAVING: TAPESTRY 3 Credit Hours
(Slashed with ARTS 45314)(Repeatable for credit) This intensive studio course considers tapestry expansively as an interface through which weaving contributes to aesthetics and meaning according to its own logic and history. Woven form is realized in collaboration with the tectonic grid of the loom, yielding a unique relationship to image-making; the structural surface and the image it bears are one and the same. Working with multi-harness floor looms, students engage this question through rigorous material explorations. Vocabulary is expanded through the study of double cloth, discontinuous/supplementary wefts and dye processes. The position of weaving as a progenitor of abstraction and the role of color as a catalyst for meaning are essential points of inquiry. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. This work considers the practice of weaving as an expansive playground to complicate the paradigms of contemporary art with textility.
Prerequisite: Studio Art major; and graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55351 PRACTICES IN WEAVING: LOOM-THINKING 3 Credit Hours
(Slashed with ARTS 45351)(Repeatable for credit) This intensive studio course focuses on weaving and its relationship to the evolving landscape of contemporary art. Working with multi-harness floor looms, students engage rigorous questions in imagery, sculptural form and spatial intervention. Vocabulary is expanded through the study of complex woven constructions, hand and digital drafting and dye processes. Emphasis is placed on developing fluency with the language and logic of the loom. Here, students enter the space of "loom-thinking" to create, mutate, subvert and interrupt weave drafts and thread interlacements in the production of woven form. Through their developing technical virtuosity, students push the algorithmic sensibility of weaving toward visual and material poetics. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. This work considers the practice of weaving as an expansive playground to complicate the paradigms of contemporary art with textility.
Prerequisite: Studio Art major; and graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55705 CAD FOR JEWELRY 3 Credit Hours
(Slashed with ARTS 45705) Students develop a set of comprehensive computer-aided design (CAD) skills to be utilized in a variety of studies such as sculpture design, jewelry making and many others. CAD skills are developed through the investigation of laser cutting, 3D modeling, project planning and 3D printing. Mastery of these techniques enable students to better explore object-making as a medium of personal expression. Although there are many technical components to learn, the instructor also focuses on the relationship between form, subject matter and content.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55708 BODY ORNAMENTATION 3 Credit Hours
(Slashed with ARTS 45708)(Repeatable for credit) Course addresses the expanding theories and techniques used to adorn the body within jewelry metals and enamel. New technologies, material exploration and contemporary practices in adornment are presented. Conceptual development and research are emphasized.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 64000 GRADUATE SEMINAR I: STUDIO ART 3 Credit Hours
(Repeatable for credit) This graduate seminar intends to bring together graduate students working across disciplines to facilitate their participation in creating a framework for understanding the practice of art-making in relation to the contemporary global and cultural terrain.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTS 64001 GRADUATE SEMINAR II: STUDIO ART 3 Credit Hours
(Repeatable for credit) This graduate seminar is an advanced course which intends to bring together graduate students working across disciplines to facilitate their participation in creating a framework for understanding the practice of art-making in relation to the contemporary global and cultural terrain.
Prerequisite: ARTS 64000; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTS 64040 GRADUATE STUDIO: PRINT MEDIA AND PHOTOGRAPHY I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Print Media and Photography concentration.
Prerequisite: Print media and photography concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64041 GRADUATE STUDIO: PRINT MEDIA AND PHOTOGRAPHY II 1-9 Credit Hours
(Repeatable for credit) Advance research-based, hands-on studio course providing a context for individual creative projects in the Print Media and Photography concentration.
Prerequisite: ARTS 64040; and print media and photography concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64050 GRADUATE STUDIO: SCULPTURE AND EXPANDED MEDIA I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Sculpture and Expanded Media concentration.
Prerequisite: Sculpture and expanded media concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64051 GRADUATE STUDIO: SCULPTURE AND EXPANDED MEDIA II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects in the Sculpture and Expanded Media concentration.
Prerequisite: ARTS 64050; and sculpture and expanded media concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64060 GRADUATE STUDIO: DRAWING AND PAINTING I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Drawing and Painting concentration.
Prerequisite: Drawing or painting concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64061 GRADUATE STUDIO: DRAWING AND PAINTING II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects in the Drawing or Painting concentration.
Prerequisite: ARTS 64060; and painting or drawing concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64096 INDIVIDUAL INVESTIGATION STUDIO ART 1-3 Credit Hours
(Repeatable for credit) Independent study in studio art.
Prerequisite: Master of Art or Master of Fine Arts degree in the School of Art; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

ARTS 64098 RESEARCH IN STUDIO ART 1-15 Credit Hours
(Repeatable for credit) Studio research in the visual arts.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

ARTS 65095 STUDIO ART: ADVANCED SPECIAL TOPICS 1-6 Credit Hours
(Repeatable for credit) Advanced specialized courses in studio art that focus on specific techniques and media.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter

ARTS 65300 GRADUATE STUDIO: TEXTILES I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Textiles concentration.
Prerequisite: Textiles concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65301 GRADUATE STUDIO: TEXTILES II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Textiles concentration.
Prerequisite: ARTS 65300; and textiles concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65400 GRADUATE STUDIO: CERAMICS I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Ceramics concentration.
Prerequisite: Ceramics concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65401 GRADUATE STUDIO: CERAMICS II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Ceramics concentration.
Prerequisite: ARTS 65400; and Ceramics concentration in the Studio Art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65600 GRADUATE STUDIO: GLASS I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Glass concentration.
Prerequisite: Glass concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65601 GRADUATE STUDIO: GLASS II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Glass concentration.
Prerequisite: ARTS 65600; and glass concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65700 GRADUATE STUDIO: JEWELRY, METALS, ENAMELING I 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Jewelry, Metals, Enameling concentration.
Prerequisite: Jewelry, metals and enameling concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65701 GRADUATE STUDIO: JEWELRY, METALS, ENAMELING II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Jewelry, Metals, Enameling concentration.
Prerequisite: ARTS 65700; and jewelry, metals and enameling concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65991 SEMINAR IN STUDIO ART 1-3 Credit Hours
(Repeatable for credit) Contemporary issues and professional concerns in studio art explored through presentations, lectures, and discussion. Graduate faculty and guest speakers.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Arts and Sciences (AS)

AS 10010 SCIENCE EXPERIENCE 1 Credit Hour
(Repeatable for credit) Students gain experience in research methods via participation in mentored hands-on science research projects. Each student works on an individual basis in consultation with their assigned research mentor. Laboratory safety training is provided and required for the projects. Students must have completed or be co-enrolled in at least one college level (or advanced placement) class in a relevant STEM discipline.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter-IP

AS 20010 SUCCESS IN A FLASH 1 Credit Hour
This course provides useful and timely academic resources to help students achieve academic success. Time prioritization, academic motivation, goal setting, mindset and various learning techniques are covered.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

AS 20095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) This course, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AS 30092 INTERNSHIP (ELR) 1-12 Credit Hours
(Repeatable for credit) Students participate in internships under the direction of a faculty member.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-36 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

AS 30095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) This course, administered by the dean, is intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AS 30189 STUDY ABROAD: SPECIAL TOPICS (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) A Kent State faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

AS 30196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) A student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Kent State faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

AS 30290 STUDY AWAY: SPECIAL TOPICS (ELR) 1-3 Credit Hours
(Repeatable for credit) A Kent State faculty-led out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States.
Prerequisite: Special approval.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AS 30798 GENDER AND SEXUALITY RESEARCH FORUM (ELR) 3 Credit Hours
Allows students to do research in areas of gender and sexuality that connects to their own interests, which will be presented in public settings such as panels and presentations.
Prerequisite: None.
Schedule Type: Lecture, Research
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AS 41099 CAPSTONE IN GENDER AND SEXUALITY STUDIES (ELR) 3 Credit Hours
Students will be expected to design and implement an individualized exploration that demonstrates the interactions of theory and application, ideas and practice, and is reflective of the tenets of the interdisciplinary field of gender and sexuality.
Prerequisite: None.
Schedule Type: Lecture, Research
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AS 50095 SPECIAL TOPICS 1-4 Credit Hours
(Slashed with AS 70095) (Repeatable for credit) Topic to be announced in the schedule of classes.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AS 50096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

AS 60092 INTERNSHIP 1-6 Credit Hours
(Repeatable for credit) Students participate in internships under the direction of a faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

AS 70095 SPECIAL TOPICS 1-4 Credit Hours
(Slashed with AS 50095) (Repeatable for credit) Topic to be announced in the schedule of classes.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AS 70096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ASL English Interpreting (ASEI)

ASEI 30095 SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING 1-4 Credit Hours
(Repeatable for credit) Special topics courses to be offered on as-needed basis when the content cannot be covered in the traditional curriculum.
Prerequisite: ASL 29201 and ASEI 43102; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ASEI 40092 ADVANCED PRACTICUM: AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING-COMMUNITY SETTING INTERPRETING (ELR) 9 Credit Hours
(Repeatable for credit) This course is required for students who do not wish to apply for K-12 Licensure to interpret in Ohio Schools. Field-based practicum experience provides pre-service interpreters with an opportunity to learn from currently practicing master community interpreters. Advanced practicum includes a minimum of 405 total hours during a 15- week placement. University supervisor and teacher mentor observe and assess student's skill. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks may be required based on community placement. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. A 3.000 major GPA is required for registration.
Prerequisite: Minimum B- grade in ASEI 43104; and minimum C grades in ASEI 43112 and ASL 49108; and ASL/English Interpreting major; and admission to professional phase; and 2.750 overall GPA; and passing score on the SLPI (Intermediate) or ASLPI (Level 2); and special approval.
Corequisite: ASEI 49625.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ASEI 43092 DEAF CULTURE IMMERSION EXPERIENCE (ELR) 1 Credit Hour
(Repeatable for credit) Intensive week-long practicum at a school for the deaf or camp where students interact with deaf children and/or adults. Conduct, interaction, sign language skills, maturity, responsibility, and performance are evaluated by staff at the school or camp administrators.
Prerequisite: ASL/English interpreting major.
Pre/corequisite: Minimum grade of C in ASL 39201.
Schedule Type: Practical Experience
Contact Hours: 8.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ASEI 43100 SURVEY OF THE INTERPRETING PROFESSION 3 Credit Hours
(Slashed with ASEI 53100) Introduction to the field of ASL-English interpreting. The following will be discussed: the history of the interpreting profession; the varied roles and responsibilities of interpreters; issues and concerns facing interpreters; legal mandates and constraints governing the provision of interpreters; diversity issues; ethical guidelines and their application to educational environments. Since interpreters are expected to be fluent in both English and ASL, this course will strive to enhance students' facility with both languages.
Prerequisite: Minimum C grade in ASL 19202.
Pre/corequisite: Minimum C grade in ASL 29201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43102 INTERPRETING PROCESSES I 3 Credit Hours
(Slashed with ASEI 53102) Beginning level interpreting course that examines the models of interpreting and their application to practice. Consecutive and simultaneous interpreting strategies are used to develop processing skills for both English to ASL and ASL to English interpretations. Samples of narrative genre are the texts used for interpretations as students examine the linguistic and cultural differences between ASL and English narratives. There will be 30 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum C grade in ASL 29201; and minimum B- grade in ASEI 43100; and ASL English Interpreting major.
Pre/corequisite: Minimum grade of C in ASL 29202.
Corequisite: ASL 39401 and ASEI 43113.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43103 INTERPRETING PROCESSES II 3 Credit Hours
(Slashed with ASEI 53103) Intermediate level interpreting course that challenges students to interpret the more complex genres including expository, procedural, and argumentative texts. Students will study and apply contextualization strategies. Discourse that is common to both the adult deaf community and educational settings will be interpreted and transliterated. There will be 45 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum C grade in the following courses: ASL 29202 and ASEI 43102; and ASL English Interpreting major; and admission to professional phase with a passing score on the entrance assessment.
Pre/corequisite: Minimum C grade in ASL 39201.
Corequisite: ASEI 43106, ASEI 43111 and ASEI 43114.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43104 INTERPRETING PROCESSES III 3 Credit Hours
(Slashed with ASEI 53104) Advanced level interpreting course focused on enhancing students' English to ASL and ASL to English skills in a variety of settings. Complex texts are selected from a variety of disciplines from both community and educational settings. Students build on previously developed self-assessment skills to create detailed and analytical diagnostic charts of their interpreted work. There will be 45 clinical application hours that students will need to accrue in this course. Students must pass the SLPI (Intermediate) or ASLPI (Level 2) prior to first semester senior year classes.
Prerequisite: Minimum C grade in ASL 39202 and ASEI 43107; and ASL English Interpreting major; and passing score of Intermediate on the SLPI or Level 2 on the ASLPI; and admission to professional phase.
Corequisite: ASEI 43112, ASEI 43118 and ASL 49108.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43105 TRANSLITERATING 3 Credit Hours
(Slashed with ASEI 53105) Receptive and expressive use of English-based sign language systems; ASL root words, prefix suffix use, simultaneous speaking and signing. Explanation and demonstration of Cued speech; exploration of the research related to individuals who use Cued speech.
Prerequisite: Minimum C grade in ASEI 43103 and in ASL 39201; and ASL English Interpreting (ASEI) major; and admission to professional phase.
Pre/corequisite: Minimum C grade in ASL 39201.
Corequisite: ASEI 43107, ASEI 43110, ASEI 43092 and ASL 39202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43106 SCHOOL SETTING INTERPRETING 3 Credit Hours
(Slashed with ASEI 53106) Issues, challenges, roles, responsibilities, and ethics of classroom-based educational interpreting are explored. Students are exposed to the variety of classroom designs where interpreters work such us mainstreaming, inclusion, resource room, and self-contained classrooms. K-12 settings place additional expectations for interpreter participation including IEP meetings, counseling, school assemblies and performing arts presentations.
Prerequisite: Minimum grade of C in ASL 29202; and American Sign Language/English Interpreting major; and special approval.
Pre/corequisite: Minimum grade of C in ASL 39201.
Corequisite: ASEI 43103, ASEI 43111 and ASEI 43114.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43107 COMMUNITY SETTING INTERPRETING 3 Credit Hours
(Slashed with ASEI 53107) This course explores the various venues that interpreters can work in the community. Emphasis will be given to the development of specialized vocabulary. Students participate in mock interpreting situations common to community interpreting in order to identify ethical dilemmas, demands and controls. There will be 30 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum C grade in the following courses: ASEI 43103, ASEI 43111, ASEI 43114 and ASL 39201; and ASL English Interpreting major; and admission to professional phase.
Pre/corequisite: Minimum grade of C in ASL 39202.
Corequisite: ASEI 43092, ASEI 43105, ASEI 43110 and ASEI 43119.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43110 DISCOURSE ANALYSIS FOR INTERPRETERS 3 Credit Hours
(Slashed with ASEI 53110) This course will explore the field of discourse analysis and its relation to the work of an interpreter. Students will complete the course with an understanding of terminology specific to discourse analysis, a better understanding of one's own discourse style and a better idea of how English and ASL use various discourse features. These features include the following: Turn-taking, Conversational Repair-false starts, Discourse Markers, Constructing Dialogue and Action, Cohesion, Rhythm, Rhyme and Repetition.
Prerequisite: Minimum grade of C in ASL 39201; and ASEI 43103 and ASEI 43111; and admission to the professional phase.
Pre/corequisite: Minimum grade of C in ASL 39202.
Corequisite: ASEI 43105, ASEI 43107 and ASEI 43119.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43111 THE PROFESSIONAL INTERPRETER 3 Credit Hours
(Slashed with ASEI 53111) Covers current trends in the field regarding situational and ethical issues. Demand-control schema and the RID Code of Professional Conduct are key components of the students' investigation and application. Students receive guidance in preparing for the RID NIC and participate in practicing for the RID performance test.
Prerequisite: Minimum grade of C in ASEI 43102 and ASL 39401; and ASL English Interpreting major; and admission to professional phase.
Pre/corequisite: Minimum grade of C in ASL 39201.
Corequisite: ASEI 43103 and ASEI 43106.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43112 INTERACTIVE INTERPRETING 3 Credit Hours
(Slashed with ASEI 53112) Guides students through a process of examining the complex nature of interpreting interactive discourse. Discussions will focus on managing this multi-layered process when participants' roles, assumptions, and goals can be congruent or adversarial. Student will learn to navigate contrasting cultural, linguistic, and discourse expectations. This course will present numerous interactive scenarios for students to interpret typical of a variety of settings with different participant configurations.
Prerequisite: Minimum grade of C in the following courses: ASL 29202, ASL 39401, ASEI 43102, ASEI 43103 and ASEI 43106; and minimum grade of B- in ASEI 43100; and ASL English Interpreting major; passing score of intermediate on the SLPI or Level 2 on the ASLPI; and admission to professional phase.
Pre/corequisite: ASL 39201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43113 ASL TO ENGLISH INTERPRETING PROCESSES (WIC) 3 Credit Hours
(Slashed with ASEI 53113) Guides students in developing interpreting skills from their L2 (ASL) to their L1 (English). Students will learn strategies for increasing their ASL and English vocabularies for the purposes of understanding equivalents when applying English vocabulary to ASL signs. Students will examine their ability to apply this proficiency to various registers of ASL. Course will also emphasize incorporating Academic English into written scholarly papers to increase students' abilities to apply this to their interpretations.
Prerequisite: Minimum C grade in ASL 29201; and minimum B- in ASEI 43100; and ASL English Interpreting major.
Pre/corequisite: Minimum C grade in ASL 29202.
Corequisite: ASEI 43102 and ASL 39401.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ASEI 43114 SOCIAL MEDIA AND CURRENT EVENTS INTERPRETING 3 Credit Hours
(Slashed with ASEI 53114) This course introduces students to a wide variety of media sources that highlight current events and happenings within the Deaf and interpreting communities. In this course, students will develop linguistic, analytical and interpretation skills. Students will discuss current events related to topics including but not limited to culture, mental health, politics, economics and education.
Prerequisite: ASEI 43102, ASEI 43113 and ASL 29202; and American Sign Language/English Interpreting major; and Admission to Professional Phase.
Corequisite: ASEI 43103, ASEI 43111 and ASL 39201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43118 MEDICAL INTERPRETING 3 Credit Hours
(Slashed with ASEI 53118) This course provides students with the opportunity to explore medical topics, terminologies, and areas of practice to enable them to more effectively meet the needs of deaf patients in a variety of health care settings. This course is designed to equip students with basic skills and knowledge to meet the demands of this setting. Students in this course will become familiar with body systems structures, functions, and common conditions-diseases affecting these systems. Students will be exposed to a variety of medical protocols, scripts, testing procedures, and areas of medical practice. As a result, students will be able to interpret medical information into ASL appropriate structures. They will specifically be able to apply strategies of depiction and spatial mapping.
Prerequisite: Minimum C grade in ASEI 43103; and American Sign Language/English Interpreting major; and passing score of Intermediate on the SLPI or Level 2 on the ASLPI.
Corequisite: ASEI 43104, ASEI 43112 and ASL 49108.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43119 MENTAL HEALTH INTERPRETING 3 Credit Hours
(Slashed with ASEI 53119) This course will provide students with a foundation of common diagnoses, mental health professionals and their various roles, common mental health settings interpreters may work, and terminology paired with ASL equivalents. This course will also emphasize the relationship between interpreter and mental health professional, providing skill sets in which to pre-and-post conference to ensure an accurate interpretation is rendered, and the goals of the therapist-professional have been met.
Prerequisite: Minimum C grade in ASEI 43103; and American Sign Language/English Interpreting major.
Pre/corequisite: Minimum C grade in ASL 39202.
Corequisite: ASEI 43092, ASEI 43105, ASEI 43107 and ASEI 43110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43192 ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING (ELR) 9 Credit Hours
(Repeatable for credit) This course is required for students who want to apply for K-12 Licensure to interpret in Ohio Schools. Advanced practicum provides pre-service interpreters with an opportunity to learn from currently practicing master interpreters. Advanced practicum includes a minimum of 405 total hours during a 15- week placement with a minimum of 300 hours in educational settings to qualify for Ohio license for educational interpreters. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. Students must pass the SLPI (Intermediate) or ASLPI (Level 2) prior to first semester senior year classes. A 3.000 major GPA is required.
Prerequisite: Minimum B- grade in ASEI 43104; and minimum C grade in ASEI 43112 and ASL 49108; and ASL English Interpreting major; and admission to professional phase; and 2.750 overall GPA; and a passing score on the SLPI (Intermediate) or ASLPI (Level 2); and special approval.
Corequisite: ASEI 49625.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ASEI 43996 INDIVIDUAL INVESTIGATION IN AMERICAN SIGN LANGUAGE/ENGLISH INTERPRETING 1-3 Credit Hours
(Repeatable for credit) A student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of an ASL-English Interpreting approved instructor. The student is expected to complete pre-determined assignments, which may include a final research paper and a presentation on the findings of the study.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ASEI 49625 INQUIRY SEMINAR FOR AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING 3 Credit Hours
(Slashed with ASEI 59625) Final semester course to coincide with the advanced practice. Students present a professional description of their interpreting site analyzing students' needs, school and instructor expectations or barriers, application of the Demand – Control Schema, and ethical challenges. Current research in the field of interpreting is examined and a diagnostic chart of a work sample is created. Students explore the EIPA exam, its theoretical foundations and participate in practicing for the EIPA.
Prerequisite: Minimum B- in ASEI 43104; and minimum C grade in the following courses ASEI 43112 and ASEI 43118 ASL 49108 and COMM 35852.
Corequisite: ASEI 43092 or ASEI 43192.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ASEI 50092 ADVANCED PRACTICUM: AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING-COMMUNITY SETTING INTERPRETING 9 Credit Hours
(Repeatable for credit) This course is required for students who do not wish to apply for K-12 Licensure to interpret in Ohio Schools. Field-based practicum experience provides pre-service interpreters with an opportunity to learn from currently practicing master community interpreters. Advanced practicum includes a minimum of 405 total hours during a 15- week placement. University supervisor and teacher mentor observe and assess student's skill. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks may be required based on community placement. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. A major GPA of 3.000 is required.
Prerequisite: Minimum B- grade in ASEI 53104; and ASEI 53112 and ASL 49108; and enrolled in the ASL/English Interpreting Licensure Preparation program; and admission to professional phase; and 2.750 overall GPA; and passing score on the SLPI (Intermediate) or ASLPI (Level 2); and graduate standing; and special approval.
Corequisite: ASEI 59625.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ASEI 53092 DEAF CULTURE IMMERSION EXPERIENCE 1 Credit Hour
Intensive week-long practicum at a school for the deaf or camp where students interact with deaf children and/or adults. Conduct, interaction, sign language skills, maturity, responsibility and performance are evaluated by staff at the school or camp administrators.
Prerequisite: Graduate standing.
Pre/corequisite: Minimum grade of C in ASL 39201.
Schedule Type: Practical Experience
Contact Hours: 8.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ASEI 53100 SURVEY OF THE INTERPRETING PROFESSION 3 Credit Hours
(Slashed with ASEI 43100) Introduction to the field of ASL-English interpreting. The following will be discussed: the history of the interpreting profession; the varied roles-responsibilities of interpreters; issues and concerns facing interpreters; legal mandates and constraints governing the provision of interpreters; ethical guidelines and their application to educational environments. Since interpreters are expected to be fluent in both English and ASL, this course will strive to enhance students' facility with both languages.
Prerequisite: ASL 19202; and graduate standing.
Pre/corequisite: ASL 29201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53102 INTERPRETING PROCESSES I 3 Credit Hours
(Slashed with ASEI 43102) Beginning level interpreting course that examines the models of interpreting and their application to practice. Consecutive and simultaneous interpreting strategies are used to develop processing skills for both English to ASL and ASL to English interpretations. Samples of narrative genre are the texts used for interpretations as students examine the linguistic and cultural differences between ASL and English narratives. There will be 30 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum of a B- in ASEI 53100; and graduate standing.
Pre/corequisite: ASL 29202.
Corequisite: ASL 39401 and ASEI 53113.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53103 INTERPRETING PROCESSES II 3 Credit Hours
(Slashed with ASEI 43103) Intermediate level interpreting course that challenges students to interpret the more complex genres including expository, procedural, and argumentative texts. Students will study and apply contextualization strategies. Discourse that is common to both the adult deaf community and educational settings will be interpreted and transliterated. There will be 45 clinical application hours that students will need to accrue in this course.
Prerequisite: ASL 29202 and ASEI 53102; and admission to the professional phase with a passing score on the entrance assessment; and graduate standing.
Pre/corequisite: ASL 39201.
Corequisite: ASEI 53106, ASEI 53111 and ASEI 53114.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53104 INTERPRETING PROCESSES III 3 Credit Hours
(Slashed with ASEI 43104) Advanced level interpreting course focused on enhancing students' English to ASL and ASL to English skills in a variety of settings. Complex texts are selected from a variety of disciplines from both community and educational settings. Students build on previously developed self-assessment skills to create detailed and analytical diagnostic charts of their interpreted work. There will be 45 clinical application hours that students will need to accrue in this course. Students must pass the SLPI (Intermediate) or ASLPI (Level 2) prior to first semester senior year classes.
Prerequisite: Minimum C grade in ASL 39202; and ASEI 53107; and ASL/English Interpreting Licensure Preparation program; and passing score of Intermediate on the SLPI or Level 2 on the ASLPI; and graduate standing.
Corequisite: ASEI 53112, ASEI 53118 and ASL 49108.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53105 TRANSLITERATING 3 Credit Hours
(Slashed with ASEI 43105) Students are exposed to the various English-based sign systems that are used in the education of deaf students as well as variations of sign communication in the deaf community. Focus is placed on developing transliterating skills utilizing conceptually accurate signed English. Students examine the implications of a diverse sign continuum and the professional expectation of identifying and meeting the language preferences of deaf consumers.
Prerequisite: Minimum B- grade in ASEI 53100; and a minimum C grade in ASL 29202; and graduate standing.
Corequisite: ASL 39201 and ASEI 53102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53106 SCHOOL SETTING INTERPRETING 3 Credit Hours
(Slashed with ASEI 43106) Issues, challenges, roles, responsibilities, and ethics of classroom-based educational interpreting are explored. Students are exposed to the variety of classroom designs where interpreters work such us mainstreaming, inclusion, resource room, and self-contained classrooms. K-12 settings place additional expectations for interpreter participation including IEP meetings, counseling, school assemblies and performing arts presentations.
Prerequisite: ASL 29201; and ASL/English Interpreting Licensure Preparation program; graduate standing; and special approval.
Pre/corequisite: Minimum grade of C in ASL 39201.
Corequisite: ASEI 53103, ASEI 53111 and ASEI 53114.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53107 COMMUNITY SETTING INTERPRETING 3 Credit Hours
(Slashed with ASEI 43107) This course explores the various venues that interpreters can work in the community. Emphasis will be given to the development of specialized vocabulary. Students participate in mock interpreting situations common to community interpreting on order to identify ethical dilemmas, demands and controls. There will be 30 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum C grade in the following courses: ASEI 53103, ASEI 53111, ASEI 53114 and ASL 39201; and ASL/English Interpreting Licensure Preparation; and graduate standing.
Pre/corequisite: Minimum grade of C in ASL 39202.
Corequisite: ASEI 53092, ASEI 53105, ASEI 53110 and ASEI 53119.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53110 DISCOURSE ANALYSIS FOR INTERPRETERS 3 Credit Hours
(Slashed with ASEI 43110) This course will explore the field of discourse analysis and its relation to the work of an interpreter. Students will complete the course with an understanding of terminology specific to discourse analysis, a better understanding of one's own discourse style, and a better idea of how English and ASL use various discourse features. These features include the following: Turn-taking, Conversational Repair - false starts, Discourse Markers, Constructing Dialogue & Action, Cohesion, Rhythm, Rhyme, and Repetition.
Prerequisite: Minimum grade of C in ASL 39201; and ASEI 53103 and ASEI 53111.
Pre/corequisite: Minimum grade of C in ASL 39202.
Corequisite: ASEI 53105, ASEI 53107 and ASEI 53119.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53111 THE PROFESSIONAL INTERPRETER 3 Credit Hours
(Slashed with ASEI 53111) Covers current trends in the field regarding situational and ethical issues. Demand-Control Schema and the RID Code of Professional Conduct are key components of the students' investigation and application. Students receive guidance in preparing for the RID performance test.
Prerequisite: Minimum grade of C in ASL 29202; and ASEI 53100 and ASEI 53107; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53112 INTERACTIVE INTERPRETING 3 Credit Hours
(Slashed with ASEI 43112) Guides students through a process of examining the complex nature of interpreting interactive discourse. Discussions will focus on managing this multi-layered process when participants' roles, assumptions, and goals can be congruent or adversarial. Student will learn to navigate contrasting cultural, linguistic, and discourse expectations. This course will present numerous interactive scenarios for students to interpret typical of a variety of settings with different participant configurations.
Prerequisite: ASL 29202 with a minimum C grade; and ASEI 53100 and ASEI 53103; passing score of intermediate on the SLPI or level 2 on the ASLPI.
Corequisite: ASEI 53102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53113 ASL TO ENGLISH INTERPRETING PROCESSES 3 Credit Hours
(Slashed with ASEI 43113) Guides students in developing interpreting skills from their L2 (ASL) to their L1 (English). Students will learn strategies for increasing their ASL and English vocabularies for the purposes of understanding equivalents when applying English vocabulary to ASL signs. Students will examine their ability to apply this proficiency to various registers of ASL. Course will also emphasize incorporating Academic English into written scholarly appears to increase students' abilities to apply this to their interpretations.
Prerequisite: ASL 29202 and ASEI 53100; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53114 SOCIAL MEDIA AND CURRENT EVENTS INTERPRETING 3 Credit Hours
(Slashed with ASEI 43114) This course introduces students to a wide variety of media sources that highlight current events and happenings within the Deaf and interpreting communities. In this course, students will develop linguistic, analytical, and interpretation skills. Students will discuss current events related to topics including but not limited to culture, mental health, politics, economics and education.
Prerequisite: ASEI 53102, ASEI 53113 and ASL 29202; and American Sign Language/English Interpreting Licensure Preparation program; and admission to professional phase.
Corequisite: ASEI 53103, ASEI 53111, ASEI 53106 and ASL 39201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53118 MEDICAL INTERPRETING 3 Credit Hours
(Slashed with ASEI 43118) This course provides students with the opportunity to explore medical topics, terminologies, and areas of practice to enable them to more effectively meet the needs of deaf patients in a variety of healthcare settings. This course is designed to equip students with basic skills and knowledge to meet the demands of this setting. Students in this course will become familiar with body systems structures, functions, and common conditions-diseases affecting these systems. Students will be exposed to a variety of medical protocols, scripts, testing procedures, and areas of medical practice. As a result, students will be able to interpret medical information into ASL-appropriate structures. They will specifically be able to apply strategies of depiction and spatial mapping.
Prerequisite: ASEI 53102; passing score of Intermediate on the SLPI or Level 2 on the ASLPI; and graduate standing.
Corequisite: ASEI 53104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53119 MENTAL HEALTH INTERPRETING 3 Credit Hours
(Slashed with ASEI 43119) This course will provide students with a foundation of common diagnoses, mental health professionals and their various roles, common mental health settings interpreters may work, and terminology paired with ASL equivalents. This course will also emphasize the relationship between interpreter and mental health professional, providing skill sets in which to pre- and -post conference to ensure an accurate interpretation in rendered, and the goals of therapist-professional have been met.
Prerequisite: ASEI 53103; and graduate standing.
Corequisite: ASEI 53107 and ASEI 53110 and ASEI 53105.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53192 ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING 9 Credit Hours
(Repeatable for credit) This course is required for students who want to apply for K-12 Licensure to interpret in Ohio Schools. Advanced practicum provides pre-service interpreters with an opportunity to learn from currently practicing master interpreters. Advanced practicum includes a minimum of 405 total hours during a 15- week placement with a minimum of 300 hours in educational settings to qualify for Ohio license for educational interpreters. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. Students must pass the SLPI (Intermediate) or ASLPI (Level 2) prior to first semester senior year classes. A 3.000 major GPA is required.
Prerequisite: Minimum B- grade in ASEI 53104; and ASEI 53112 and ASL 49108; and ASL English Interpreting Licensure Preparation non-degree; and admission to professional phase; and 2.750 overall GPA; passing score on the SLPI (Intermediate) or ASLPI (Level 2); and graduate standing; and special approval.
Corequisite: ASEI 59625.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory

ASEI 59625 INQUIRY SEMINAR FOR AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING 3 Credit Hours
(Slashed with ASEI 49625) Final semester course to coincide with the advanced practicum. Students present a professional description of their interpreting site analyzing student needs, school and instructor expectations or barriers, application of the Demand Control Schema, and ethical challenges. Current research in the field of interpreting is examined and a diagnostic chart of the work sample is created. Students explore the Educational Interpreter Performance Assessment (EIPA) exam, its theoretical foundations, and participate in practicing for the EIPA.
Prerequisite: Minimum B- in ASEI 53104; and minimum C grade in the following: COMM 35852, ASL 49108 and ASEI 53112; and graduate standing.
Corequisite: ASEI 53192.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Athletic Training (ATTR)

ATTR 15003 CAREERS IN HEALTH AND MEDICAL SCIENCES 2 Credit Hours
(Cross-listed with EXSC 15003 and IHS 15003) An overview of the profession of healthcare and medical professional associated including employment opportunities, academic preparation and clinical preparation. This course will address the qualities and skills required for a comprehensive list of professional opportunities in the healthcare and medical fields with an emphasis on professionalism, cultural competencies, ethics and self care. Students will be required to work with faculty and health care and medical professionals to outline a personalized program to assist in their professional development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ATTR 15012 DOCUMENTATION IN HEALTH CARE 2 Credit Hours
Addresses clinical writing skills associated with documentation in health care. Addresses the legal, ethical, and practical needs for proper documentation in health care. Focus is on reading, writing and interpreting various forms of medical documentation including but not limited to SOAP notes, progress notes, treatment notes, clinical record keeping, and facility records. Electronic medical record techniques and other clinical record methods will be addressed.
Prerequisite: Sports medicine major or sports medicine: administration minor or sports medicine: general medical and emergency care or sports medicine: orthopedic patient care minor.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ATTR 20001 SOCIOCULTURAL ASPECTS OF HEALTH CARE 3 Credit Hours
Advanced examination of the sociocultural aspects of healthcare careers. Specific emphasis will be placed of the recognition of diverse patient populations and effectively addressing their unique needs. Cultural competence will be the focus of of the course and will address various aspects of sociocultural diversity; including but not limited to racial, ethnic, religious, socioeconomic, regional beliefs, and alternative approaches to healthcare.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 25036 RESPONDING TO EMERGENCIES 3 Credit Hours
Principles of emergency care including prevention, management, and administrative aspects associated with injury and trauma. Practical competency in emergency care and first aid; American Red Cross Professional Rescuer Certification for CPR and AED.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lab, 2 other
Grade Mode: Standard Letter

ATTR 25037 PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE 3 Credit Hours
Anatomical, clinical assessment and kinesiology related to injuries and illnesses common in athletic training and sports medicine. Emphasis on orthopedic assessment and kinesiology concepts of the Lower extremity and spine.
Prerequisite: ATTR 25036; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 25038 PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE UPPER EXTREMITY, HEAD AND NECK 3 Credit Hours
Anatomical, clinical assessment and kinesiology realted to injuries and illnesses common in athletic training and sports medicine. Emphasis on orthopedic assessment and kinesiology concepts of the Upper Extremity, Health and neck.
Prerequisite: ATTR 25036 and ATTR 25037; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours
(Cross-listed with EXSC 25057) Comprehensive examination of anatomy and physiology related to the organization of the body and basic cell and tissue types. Specific structure and function of the muscular, skeletal, integumentary and nervous systems are addressed.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

ATTR 25058 HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 4 Credit Hours
(Cross-listed with EXSC 25058) Comprehensive examination of anatomy and physiology related to the human body under rest and exercise conditions. Specific structure and function of the metabolic, endocrine, lymphatic, digestive, urinary and reproductive systems are addressed. Advanced coverage of neurological, cardiovascular and respiratory systems are also addressed.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

ATTR 35037 ADVANCED PHYSICAL ASSESSMENT TECHNIQUES 3 Credit Hours
Anatomical, medical and clinical assessment techniques for injuries and illnesses common to the physically active. Emphasis on neurological and non-orthopedic assessment strategies for proper referral and care.
Prerequisite: ATTR 25037; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 35040 STRENGTH AND CONDITIONING 2 Credit Hours
Demonstrate didactic understanding and clinical application of energy systems, anatomy and proper techniques for strength and conditioning exercises for practical applications with athletes.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and athletic training or exercise science, or physical education and sport performance or sports medicine majors or sports medicine: administration or sports medicine: general medical and emergency care or sports medicine: orthopedic patient care minors.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 35045 EMERGENCY MEDICAL TECHNICIAN-BASIC 5 Credit Hours
Preparing for Emergency Medical Technician certification including patient assessment, airway and cardiac management, trauma management, medical patient management and clinical experience. Prepares students to challenge the National Registry Examination for the State of Ohio for EMT-Basic. Clinical hours are required for this course through Hudson EMS.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

ATTR 35050 NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours
Advanced cognitive content in the areas of normal and pathological function of the nervous system and its components. Specific emphasis on the neurophysiological basis for motor learning, special senses, and memory serves to address the central and peripheral nervous system structure and function. Growth and Development and pathological responses to hypoxia, microbiologic agents, genetic derangements, nutritional deficiencies, chemicals, drugs and aging are addressed.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 35054 BIOMECHANICS 3 Credit Hours
(Cross-listed with EXSC 35054) Anatomical and mechanical bases of human movement. Emphasis is placed on tools and techniques for motion analysis, mechanical concepts, forces and performance analysis. Lecture and laboratory.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 35062 EVIDENCE-BASED RESEARCH IN HEALTH CARE 3 Credit Hours
An examination of evidence-based practice and evidence-based research in health care. The focus of the course will include understanding literature, research questions, methods of research, and how evidence-based research and evidence-based practice play a vital role in the delivery or modern day healthcare. Emphasis will be placed upon the process of evidence-based research, utilizing the outcomes of evidence-based research and the utilization of outcomes assessment in healthcare.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 43018 ETHICAL LEADERSHIP FOR HEALTH CARE (WIC) 3 Credit Hours
(Slashed with ATTR 53018) Examination of specific situations in healthcare from an ethical sensitivity, reasoning and decision making perspective. A problem-oriented case study approach based on contemporary moral issues and moral theory related to clinical and academic health professions. An examination and assessment of leadership styles and methods as they pertain to healthcare and healthcare administration.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ATTR 45019 PROFESSIONAL RESPONSIBILITY AND MANAGEMENT IN HEALTH CARE 3 Credit Hours
An investigation of the issues affecting the entry level healthcare providers. Professional development issues and career advancement are included. Investigation into current philosophies and legal aspects of healthcare management. Organization and administrative concepts and models will focus on the advancement of patient based healthcare.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 45040 PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS 3 Credit Hours
(Slashed with ATTR 55040) Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatment and physiologic effects for various afflictions.
Prerequisite: ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 45041 ADVANCED THERAPEUTIC INTERVENTIONS 3 Credit Hours
Addresses the physiological considerations of specific injuries and conditions commonly encountered in the athletic training profession. Focus is on contemporary rehabilitative programming for all of the major body regions. Specific units on Aquatic therapy and rehabilitation, Neurological considerations for rehabilitation, Return to Running Considerations, and Return to Throwing protocols are included.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020; and ATTR 35054 and ATTR 45039.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 1 lab
Grade Mode: Standard Letter

ATTR 45091 SENIOR SEMINAR IN ATHLETIC TRAINING 1 Credit Hour
(Repeatable for credit) Contemporary issues related to preparing students for entry-level careers in the athletic training profession including development of the foundational behaviors of professional practice. Specific emphasis on employment preparation or graduate school preparation.
Prerequisite: Athletic Training major; and senior standing.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ATTR 45492 INTER-PROFESSIONAL INTERNSHIP IN SPORTS MEDICINE (ELR) 3 Credit Hours
(Repeatable for credit) Inter-professional internship experience in a sports medicine discipline. An internship experience in a sports medicine facility focusing on inter-professional dynamics and aspects of the discipline. A comprehensive clinical experience will be supported by engagement in the inter-professional environment through projects and professional development experiences. Integration of professionalism, professional development, and transition to practice in a sports medicine discipline drives this internship.
Prerequisite: Sports medicine major; and senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ATTR 53018 ETHICAL LEADERSHIP FOR HEALTH CARE 3 Credit Hours
(Slashed with ATTR 43018) Examination of specific situations in healthcare from an ethical sensitivity, reasoning and decision making perspective. A problem-oriented case study approach based on contemporary moral issues and moral theory related to clinical and academic health professions. An examination and assessment of leadership styles and methods as they pertain to health care and health care administration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 55038 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING 3 Credit Hours
(Slashed with ATTR 45038) Investigation into current philosophies and legal aspects of athletic training. Organization and administration of all aspects of athletic training programs.
Prerequisite: ATTR 25036; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 55039 THERAPEUTIC REHABILITATION 3 Credit Hours
(Slashed with ATTR 45039) The study and clinical application of rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration and guidelines for program progression.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 55040 PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS 3 Credit Hours
Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatments and physiologic effects for various afflictions.
Prerequisite: ATTR 25058 or EXSC 25058.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 60000 CADAVER ANATOMY AND APPLIED ASSESSMENT 6 Credit Hours
Cadaver dissection with emphasis on the systems of the body to understand structure and function of the anatomical structures. Applied assessment components integrate functional assessment and diagnostic signs and symptoms of common athletic training conditions and injuries. Evidence-based assessment will be infused throughout the course.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 6 lab
Grade Mode: Standard Letter

ATTR 61000 ACUTE INJURY DIAGNOSIS, TREATMENT AND MANAGEMENT 3 Credit Hours
Mechanisms of acute injuries will provide the foundation for the integration of evidence-based knowledge in the diagnosis, treatment and management of athletic training injuries. Contemporary clinical guidelines and management strategies will provide a framework for critical thinking and practical application.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 62010 CONTEMPORARY ISSUES AND EXAM PREP IN ATHLETIC TRAINING 3 Credit Hours
The purpose of this course is to prepare student to successfully transition to practice through rigorous investigation of contemporary issue in athletic training. Understanding the dynamic issues facing the profession will better prepare students for the challenges facing the profession and how to function effectively in the healthcare environment as an athletic trainer. Passing the Board of Certification (BOC) examination is the threshold for entry level practice into the profession. This course will provide exam taking strategies, ACES programming, and post workshop self directed strategies to position the students to successfully challenge the BOC examination upon graduation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 62012 EDUCATION AND SUPERVISION PROCESSES IN ATHLETIC TRAINING 3 Credit Hours
A comprehensive examination of educational learning theories, curriculum design, evaluation and supervision strategies in athletic training education programs from didactic and clinical perspectives. Additional applications for continuing education programs will be included.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 62014 ADVANCED CLINICAL PROCEDURES IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours
Advanced clinical practice theory and skills as they relate to the profession of athletic training and sports medicine. Emphasis on contemporary clinical practice issues for a variety of athletic training and sports medicine professional settings.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 62015 ORTHOPEDIC ASSESSMENT FOR THE ATHLETIC TRAINER 3 Credit Hours
This course will provide a holistic approach to evidence based practice (EBP) information regarding the role of the athletic trainer in performing orthopedic examinations. This course builds upon the anatomic and injury pathology information in previous courses and broadens students knowledge and skill set regarding diagnostic skills and tools necessary to develop a more effective and efficient differential diagnosis of common and uncommon orthopedic injuries that fall within the scope of practice for an Athletic Trainer.
Prerequisite: Athletic Training major; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 62016 CLINICAL INQUIRY IN ATHLETIC TRAINING 3 Credit Hours
Principles of athletic training research methodologies with a focus on clinical athletic training research. Completion of a clinical research project will be required in this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 63091 RESEARCH SEMINAR 1 Credit Hour
(Slashed with ATTR 73091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

ATTR 63094 COLLEGE TEACHING IN HEALTH SCIENCES 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Guided teaching experiences in the Health Sciences. Specific emphasis on establishing and implementing a teaching philosophy in an instructional setting in the Health Sciences. Development of Professional Teaching Behaviors will be addressed. A comprehensive teaching experience rooted in contemporary teaching literature will guide this course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Seminar
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter

ATTR 63096 INDIVIDUAL INVESTIGATION IN ATHLETIC TRAINING 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and School director required prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

ATTR 63098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

ATTR 63193 VARIABLE TITLE WORKSHOP IN ATHLETIC TRAINING 1-3 Credit Hours
(Repeatable for credit) Workshop in athletic training; topics vary. Maximum 4 hours applied to the degree.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ATTR 63195 SPECIAL TOPICS IN ATHLETIC TRAINING 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Selected and varied topics of relevance in athletic training.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ATTR 63199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ATTR 63299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ATTR 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ATTR 65001 CLINICAL PRACTICE I: PREVENTION AND WELLNESS 3 Credit Hours
Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to prevention of injuries and medical conditions and overall wellness will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Students must complete a minimum of 180 hours in clinicals.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter

ATTR 65002 CLINICAL PRACTICE II: ADVANCED HEAD, NECK AND ORTHOPEDIC 3 Credit Hours
Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to Head, Neck, and Orthopedic conditions and overall wellness will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hours in clinicals.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter

ATTR 65003 CLINICAL PRACTICE III: GENERAL MEDICAL 3 Credit Hours
Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to general medical conditions will be the primary focus. Engagement in an inter-professional environment including rotations with physicians and-or nurse practitioners with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hour in clinicals.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter

ATTR 65004 BIOMECHANICS 3 Credit Hours
(Cross-listed with EXPH 75004) Survey of biomechanics, with particular emphasis on skeletal muscle mechanics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 65005 CLINICAL PRACTICE IV: ADVANCED COMPETENCIES 3 Credit Hours
Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to advanced competencies and skills in athletic training will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hours in clinicals.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter

ATTR 65036 GENERAL MEDICAL CONDITIONS IN ATHLETIC TRAINING 3 Credit Hours
The purpose of this course is to provide a holistic approach to evidence based practice (EBP) information regarding the role of the athletic trainer in the initial assessment and referral of common general medical conditions that fall within the scope of practice for athletic training. The course provides an overview of pathology, etiology, signs and symptoms, diagnosis and treatments that follow established national and international professional standards of care. This course will include, but is not limited to dermatologic, respiratory, cardiovascular, endocrine, urogenital, neurological, musculoskeletal and digestive general medical conditions.
Prerequisite: Athletic Training major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 65037 PHYSICAL AGENTS IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours
The study and practical application of physical modalities including physical principles, physiologic effects, indications-contradictions, and standard application procedures. Safety and legal issues of modality usage are also addressed.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 65038 ADMINISTRATION CONCEPTS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours
Investigation into current philosophies and legal aspects of athletic training and sports medicine programs. Organization and administration of all aspects of athletic training and sports medicine programs with specific emphasis on policy and regulation of programs anchored in contemporary healthcare practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 65039 PHYSICAL REHABILITATION IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours
The study and clinical application of evidence based rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration, and guidelines for program progression. This course will address the comprehensive concepts related to the rehabilitation of including but not limited to modality selection, pharmacological considerations, record keeping, program design and implementation, and safety aspects. The psychology of rehabilitation including goal setting and motivation will also be addressed. Current literature and techniques in the field will support the content of this course.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 65040 PATHOPHARMACOLOGY FOR HEALTHCARE PROVIDERS 3 Credit Hours
Advanced investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatment and physiologic effects for various afflictions anchored in evidence-based practice in health care.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 65050 NEUROLOGICAL CONCEPTS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours
Advanced cognitive content in normal and pathological function of the nervous system and its components. Specific emphasis on the neurophysiological basis for motor learning, special senses, and memory serves to address the central and peripheral nervous system structure and function. Growth and Development and pathological responses to hypoxia, microbiologic agents, genetic derangements, nutritional deficiencies, chemicals, drugs and aging are addressed. Evidence-based practice concepts will guide the integration from anatomy and physiology to effective interventions for selected neurological conditions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 69999 CLINICAL CAPSTONE IN ATHLETIC TRAINING 6 Credit Hours
Clinical Capstone is an intensive, immersion experience in the clinical setting under the direct supervision of a certified, licensed health care professional. Students will invest a minimum of 360 in the clinical setting working with inter-professional health care providers. Clinical capstone expectations include performance evaluations by supervisors and patient management to promote active clinical engagement and critical thinking. A portfolio will include professional skill assessments, performance assessment, case studies, mock interview, and formal evidence-based presentation to health care providers on an athletic training domain.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 24 other
Grade Mode: Standard Letter

ATTR 73091 RESEARCH SEMINAR 1 Credit Hour
(Slashed with ATTR 63091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

ATTR 75001 EVIDENCE BASED INTERVENTIONS IN ATHLETIC TRAINING 3 Credit Hours
This course will examine the use of Evidence Based Interventions (EBI) in Athletic Training Education. This course will examine the implementation of EBI constructs across the curriculum and program. Specific emphasis on designing and implementing EBI into didactic and clinical experiences in Athletic Training. Implementation of EBI into the development, implementation and dissemination of research will also be addressed. Through an extensive examination of the critical literature, students will gain an understanding of how to broadly integrate EBI constructs in their professional practice.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 75002 ACADEMIC AND ADMINISTRATIVE LEADERSHIP IN ATHLETIC TRAINING 3 Credit Hours
This course will address the key academic leadership constructs needed to navigate the higher education culture as a faculty and/or clinical faculty member. Human resources, politics, administrative processes and organizational factors related to successful higher education and clinical leadership will be the focus. Leadership and advocacy strategies for professional organizations will also be developed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 75003 CONTINUOUS QUALITY IMPROVEMENT AND ASSESSMENT IN ATHLETIC TRAINING 3 Credit Hours
The focus of the course includes the fundamental constructs associated with quality improvement through an academic program in athletic training. The development of inter-professional practice, engaging curriculum, creation of educational and administrative policy, and leading change within Athletic Training organizations. The course will assist students in developing action plans for their organization pertaining to organizational improvement.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 75004 TEACHING AND CLINICAL EDUCATION LEADERSHIP IN ATHLETIC TRAINING 3 Credit Hours
This course focuses on the comprehensive and integrated elements in athletic training education. An in-depth analysis of curriculum design and implementation, didactic and clinical education, program assessments, and accreditation policies and standards will be addressed. A framework rooted in the context of inter-professional education promote organizational and programmatic improvements related dynamic trends in HC education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Aviation Maintenance Technology (AMRT)

AMRT 10010 FAA REGULATIONS AND DOCUMENTATION 2 Credit Hours
FAA history, inspections, documentation and aircraft drawings. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Corequisite: AMRT 10040.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AMRT 10020 AIRCRAFT TOOLS AND TECHNIQUES 2 Credit Hours
Welding for the aviation maintenance technician and understanding of fluid lines and fittings. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Corequisite: AMRT 10010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

AMRT 10030 AIRFRAME I 3 Credit Hours
Understanding aircraft systems and corrosion control. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Corequisite: AMRT 10010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AMRT 10040 AVIATION POWER PLANT I 4 Credit Hours
Study of aviation engines and propellers. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Corequisite: AMRT 10010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

AMRT 20010 AIRFRAME II 3 Credit Hours
Understanding aircraft structures. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Prerequisite: AMRT 10030.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AMRT 20020 AIRFRAME III 2 Credit Hours
Advanced airframe course. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Corequisite: AMRT 20010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

AMRT 20030 AVIATION ELECTRONICS 3 Credit Hours
Electronics and systems for the aviation maintenance technician. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Prerequisite: EERT 12001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AMRT 20040 PRINCIPLES OF FLIGHT 3 Credit Hours
Nature of light, sound and aerodynamics. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Prerequisite: PHY 12202.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AMRT 20050 PRACTICUM IN ADVANCED AVIATION 2 Credit Hours
Aviation maintenance experience. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Prerequisite: AMRT 10040.
Schedule Type: Practical Experience
Contact Hours: 2 other
Grade Mode: Standard Letter

AMRT 20060 AVIATION POWER PLANT II 2 Credit Hours
Further studies into aircraft engines. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Prerequisite: AMRT 10040.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

Biological Sciences (BSCI)

BSCI 10001 HUMAN BIOLOGY (KBS) 3 Credit Hours
Study of the scientific method and life's properties, emphasizing human biology. Topics include energy, genetics, reproduction, development disease, nutrition and physical fitness in humans. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

BSCI 10002 LIFE ON PLANET EARTH (KBS) 3 Credit Hours
Explores the fascinating breadth of life on Earth including the unique ecology and survival strategies of animals, plants and microbes in their natural habitats. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

BSCI 10003 LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB) 1 Credit Hour
Introductory college-level laboratory in biology for non-majors. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Pre/corequisite: BSCI 10001 or BSCI 10002.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

BSCI 10005 SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS 4 Credit Hours
Identification of anatomy and basic physiological functions of domestic small animals: skeletal, muscles, integumentary, special sense organs, respiratory, digestive, urinary, reproductive, endocrine, nerves, circulatory and immune. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 10110 BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB) 4 Credit Hours
This introductory course examines the biodiversity of life from its origins to present day, including the evolution, ecology, behavior, form, function and reproduction of major groups of organisms. Students must earn a final grade of at least C- in order to meet prerequisites for selected upper-division BSCI courses.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

BSCI 10120 BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB) 4 Credit Hours
This introductory course examines the organization of life from subcellular biochemistry and molecular biology, to genetics, bioenergetics and system homeostasis. Three hours of lecture and three hours of lab weekly. Students must earn a final grade of at least C- in order to meet prerequisites for selected upper-division BSCI courses.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

BSCI 10195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) Selected subjects and/or themes in biology.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 3 Credit Hours
Anatomy and physiology to include organization of the human body, cells, tissues, organs and systems; integumentary, skeletal, muscular and respiratory systems; and overviews of the nervous and circulatory system. This course is taught on Kent State's regional campuses for associate degree programs. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

BSCI 11020 FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 3 Credit Hours
Anatomy and physiology of the circulatory, digestive, urinary, nervous, endocrine and reproductive systems. This course is taught on Kent State's regional campuses for associate degree programs. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 11010; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

BSCI 16001 HORTICULTURAL BOTANY 3 Credit Hours
Provides students with an understanding of the basic anatomy and physiology and growth characteristics of plants. Offered only at the Geauga and Salem campuses. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 20019 BIOLOGICAL STRUCTURE AND FUNCTION 4 Credit Hours
Basic design of human systems emphasizing the physiochemical and cellular bases of organ-system structure, function and development. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 20021 BASIC MICROBIOLOGY 3 Credit Hours
Principles of microorganisms having a direct relationship on the health and well-being of humans. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: ATTR 25057 or BSCI 10005 or BSCI 11010 or BSCI 20019 or BSCI 21010 or EXSC 25057; and CHEM 10050 or CHEM 10055 or CHEM 10058 or CHEM 10060 or CHEM 11060 or NRST 10014.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 20022 BASIC MICROBIOLOGY LABORATORY 1 Credit Hour
Laboratory experience in microbiology. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Corequisite: BSCI 20021.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

BSCI 20195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) Selected subjects and/or themes in Biology.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BSCI 20196 INTRODUCTION TO INDIVIDUAL INVESTIGATION 1-2 Credit Hours
(Repeatable for credit)Introduction to research in the biological sciences under the direction of a BSCI faculty mentor.
Prerequisite: Minimum C grade in 8 hours of BSCI courses; and departmental and faculty mentor approvals required.
Schedule Type: Individual Investigation
Contact Hours: 1-2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours
Anatomy, physiological chemistry, cytology, tissues and homeostatic mechanisms of the integumentary, skeletal, nervous, muscular and sensory systems. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

BSCI 21020 ANATOMY AND PHYSIOLOGY II 4 Credit Hours
Anatomy and physiological processes as related to the following organ systems: endocrine, circulatory, respiratory, digestive, urinary and reproductive. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 21010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: TAG Science

BSCI 26002 ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT 3 Credit Hours
Basic principles of integrated pest management, pesticide application, pest identification and environmental effects. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 16001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 26003 PLANT IDENTIFICATION AND SELECTION I 3 Credit Hours
Identification and selection of horticulturally important plant species. Emphasis on woody species, shrubs and trees. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 16001 and HORT 16003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 26004 PLANT IDENTIFICATION AND SELECTION II 3 Credit Hours
Identification and selection of horticulturally important plant species. Emphasis on herbaceous species, ground covers and vines. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 16001 and HORT 16003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30050 HUMAN GENETICS 3 Credit Hours
Modern concepts of genetics applicable to the human including examination of genetically related diseases and their societal implications. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: Minimum 8 credit hours of Biology (BSCI) courses; and 3 credit hours of Chemistry (CHEM) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30100 NEUROSCIENCE I 3 Credit Hours
(Cross-listed with NEUR 30100) Neuroscience I will cover basic principles in neuroscience from the cellular to systems levels. After completion of the course, students will have a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems, and motor pathways.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour
Orients students toward various career pathways in the biological sciences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 30130 HUMAN PHYSIOLOGY 3 Credit Hours
Integrating mechanisms, pharmacological and pathological considerations for selected organ systems.
Prerequisite: Minimum C- grade in BSCI 20019 (or BSCI 10110 and BSCI 10120); and 4 credit hours of chemistry (CHEM) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30140 CELL BIOLOGY 4 Credit Hours
Investigation of the cell as the fundamental unit of life with an emphasis on the relationship between cellular structure and function.
Prerequisite: Minimum C- grade in the following courses: BSCI 10120; and CHEM 10058 or CHEM 10060 or CHEM 11060; and CHEM 10062.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30156 ELEMENTS OF GENETICS 3 Credit Hours
Principles of organic mechanisms for expression and transmission of traits as studied in molecules, cells, organisms and populations.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and 10120; and MATH 10675 or MATH 10775 or MATH 11010 or MATH 11022 or MATH 12002 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

BSCI 30157 GENETICS LABORATORY 1 Credit Hour
Consists of hands-on experiments with modern computational and molecular biology experimental approaches.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Corequisite: BSCI 30156.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

BSCI 30158 READINGS IN GENETICS 1 Credit Hour
This course emphasizes principles covered in elements of genetics.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Corequisite: BSCI 30156.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 30171 GENERAL MICROBIOLOGY 4 Credit Hours
Fundamental principles of microbiology and organisms including their structure, physiology, genetics, pathogenicity, classification, mechanisms of cultivation and control.
Prerequisite: Minimum C- grade in the following courses: BSCI 10110 and BSCI 30140; and CHEM 10058 or CHEM 10060 or CHEM 11060; and CHEM 10059 or CHEM 10061; and CHEM 10062 and CHEM 10063.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30189 SCIENTIFIC INQUIRY AND OBSERVATION OF THE NATURAL WORLD (DIVG) (ELR) 3 Credit Hours
This course offers the overview of scientific inquiry and methods used in biological and biomedical sciences, using the wealth of biological resources available in Florence. Students actively explore these resources through field trips to biology-related lab sites, visits to science museums and walking tours of relevant sites.
Prerequisite: Special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BSCI 30200 NEUROSCIENCE II 3 Credit Hours
(Cross-listed with NEUR 30200) The course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. The course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control, and higher-order cognitive functioning.
Prerequisite: NEUR 30100 or BSCI 30100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30267 PLANT PHYSIOLOGY 4 Credit Hours
Introduction to biochemical processes in plants and plant cells and how plants grow and maintain their bodies through dynamic interactions with the environment.
Prerequisite: Minimum C- grade in the following courses: BSCI 10110 or BSCI 10120; and CHEM 10058 or CHEM 10060 or CHEM 11060; and CHEM 10062.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30270 GENERAL PLANT BIOLOGY 3 Credit Hours
Covers all topics in modern plant biology, including molecular and cellular biology, physiology, anatomy, development, ecology, evolution and diversity.
Prerequisite: Minimum C- grades in BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30271 GENERAL PLANT BIOLOGY LABORATORY 1 Credit Hour
Laboratory and greenhouse exercises in general plant biology.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Corequisite: BSCI 30270.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

BSCI 30274 FORESTRY 3 Credit Hours
Management of the forest resource within appropriate environmental constraints for sustained use relative to watershed protection, lumber production, recreation and wildlife.
Prerequisite: Minimum C- grade in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30275 LOCAL FLORA (ELR) 4 Credit Hours
Identification and field study of local plants: native, naturalized and cultivated.
Prerequisite: BSCI 10110 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 30277 ECONOMIC BOTANY 3 Credit Hours
Economic botany is the scientific study of plants that are important to humans.It considers how plants are used and how plants have shaped up past and modern cultural development.
Prerequisite: Minimum C- grades in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour
(Cross-listed with NEUR 30300) Accompanying laboratory course to NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception.
Prerequisite: Minimum C grade in NEUR 30100 or BSCI 30100.
Pre/corequisite: NEUR 30200 or BSCI 30200.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

BSCI 30360 GENERAL ECOLOGY 4 Credit Hours
Principles of ecology based on field studies of local plant and animal communities.
Prerequisite: BSCI 10110 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30361 BIOGEOGRAPHY 3 Credit Hours
Geographical distribution of biotic communities with special reference to North America and to their environmental control.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30362 INTRODUCTION TO BIOLOGY OF THE TROPICS 3 Credit Hours
Biology and conservation of tropical ecosystems and organisms.
Prerequisite: Minimum C- grade in BSCI 10110; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30370 CLIMATE CHANGE BIOLOGY 3 Credit Hours
This course focuses on the biological impacts of climate change. It includes background on the issue of the biological consequences of climate change, as well as the history of research, current impacts and projected changes discussed in the Inter-Governmental Panel on Climate Change report, and the controversies of climate-change skeptics. It also includes the biogeochemistry of climate change effects on biology, climate change, and biological interactions, vector-borne infectious diseases, rates of evolution, and Great Lakes biology.
Prerequisite: Minimum C- grade in BSCI 10110; or ENVS 22070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30517 HUMAN ANATOMY 4 Credit Hours
An intensive investigation of the anatomy and development of the human body.
Prerequisite: Senior standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30518 VERTEBRATE ANATOMY 4 Credit Hours
Concepts and methods of functional morphology. Comparative study of vertebrate organs and systems: skeletal, muscular, digestive, respiratory, circulatory, urogenital, nervous and endocrine.
Prerequisite: BSCI 10110 or BSCI 10120 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30520 INTRODUCTION TO NEUROSCIENCE 3 Credit Hours
Basic principles in neuroscience from the cellular to systems level. Covers how the nervous system is organized, how it detects sensory stimuli to create a mental representation of their environment and output pathways by which the nervous system can control movement, hormone levels and physiological processes.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30560 INVERTEBRATE ZOOLOGY 4 Credit Hours
Survey of the animal kingdom emphasizing evolutionary developments.
Prerequisite: BSCI 10110 and BSCI 10120 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30580 ENTOMOLOGY 4 Credit Hours
Classification, biology and ecology of the principal groups of insects.
Prerequisite: BSCI 10110 and BSCI 10120 with a minimum C- grade; and 10 credit hours of Biological Sciences (BIOL) courses.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30582 ORNITHOLOGY 4 Credit Hours
Field study of the natural history of local birds.
Prerequisite: BSCI 10110 and BSCI 10120 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30789 FEASTS AND PLAGUES: THE SCIENCE OF ITALIAN FOOD, WINE AND DISEASE - INTERNATIONAL EXPERIENCE (DIVG) (ELR) 3 Credit Hours
This course explores the microbial mechanisms responsible for plagues such as the Black Death as well as for their positive roles in food and wine production. These costs and benefits are explored in Florence, Italy, since each is ingrained in the city's history, culture, art and biology. Course activities include food and wine tastings and field trips to historical sites and museums in Florence and Siena. This course is designed to appeal to students with a wide array of interests in human health and society. Students analyze genomes of microbes responsible for human disease; discuss ecological and biological factors associated with disease transmission; construct cemetery life tables; discuss the impacts of disease on Italian art, architecture and culture; master knowledge of the fermentation process; and compare and contrast the microbiomes and environments of vineyards in Tuscany vs. California.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BSCI 30889 BEAUTY AND THE BRAIN: EXPLORING FLORENCE THROUGH THE SENSES (DIVG) (ELR) 3 Credit Hours
(Cross-listed with NEUR 30889) This is an introductory sensory neuroscience course for undergraduate students. By exploring the sensory richness of Florence, Italy, students delve into the biology of their sensory systems. Through a combination of field trips, laboratory exercises, lectures and presentations, students learn how our sensory systems function to change diverse environmental signals into information that can be interpreted by the brain. Site visits are used to highlight specific sensory systems and laboratories/lectures provide the conceptual framework. Together, these experiences lay the foundation for students' understanding of vision, taste, smell, touch and hearing in the unique environment of Florence, Italy.
Prerequisite: Special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BSCI 40020 BIOLOGY OF AGING 3 Credit Hours
(Slashed with BSCI 50020) Course covers theories of aging and the normal aging process, dysfunction, and diseases of the elderly categorized by body systems and how nutrition and exercise can offset those changes. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: (ATTR 25057 and ATTR 25058) or BSCI 10001 or (BSCI 11010 and BSCI 11020) or BSCI 20019 or (BSCI 21010 and BSCI 21020) or (EXSC 25057 and EXSC 25058).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40104 INTRODUCTION TO BEEKEEPING 2 Credit Hours
(Slashed with BSCI 50104) Covers basic beekeeping practices and provides students with an in-depth understanding of the honey bee colony through participation in hands-on activities, observation and experimentation.
Prerequisite: BSCI 10110 and 10120 with minimum C- grades; and junior or senior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 40141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 50141 and BSCI 70141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.
Prerequisite: BSCI 30156 and BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40142 BIOENERGETICS 3 Credit Hours
(Slashed with BSCI 50142 and BSCI 70142) Lecture and discussion of respiration and photosynthesis, their origin, development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.
Prerequisite: BSCI 30140 and CHEM 20481 or 30481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours
(Slashed with BSCI 50143 and BSCI 70143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology.
Prerequisite: BSCI 30140; and BSCI 30156 or CHEM 20481 or CHEM 30481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40146 DEVELOPMENTAL BIOLOGY 3 Credit Hours
(Slashed with BSCI 50146 and BSCI 70146) Fundamental concepts and paradigms of development as exemplified by major model organisms. Examines our modern understanding of the molecular, cellular and genetic basis of developmental biology.
Prerequisite: BSCI 30156 with a minimum C grade; and 6 additional credit hours of Biological Sciences (BIOL) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours
(Slashed with BSCI 50147 and BSCI 70147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.
Prerequisite: BSCI 30140; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours
(Slashed with BSCI 50148 and BSCI 70148) Basic principles of infectious disease with emphasis on major human pathogens, including protozoa, bacteria and viruses. Topics include infection establishment, spread within the host, pathology, immunity and host behavior.
Prerequisite: BSCI 30171 and CHEM 10061 and CHEM 10062 and CHEM 10063; and CHEM 10060 or CHEM 11060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours
(Slashed with BSCI 50150 and BSCI 70150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.
Prerequisite: BSCI 30156 and BSCI 30140; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours
(Slashed with BSCI 50151 and BSCI 70151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.
Prerequisite: BSCI 21010 or BSCI 30130 or (BSCI 30140 and NEUR 30100) or BSCI 40430; and BSCI 10120 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours
(Slashed with BSCI 50152 and BSCI 70152) Major concepts and theoretical principles underlying neurological disorders.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours
(Slashed with BSCI 50154 and BSCI 70154) Physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.
Prerequisite: BSCI 40430; or BSCI 30140 and BSCI 30130.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours
(Slashed with BSCI 50157 and BSCI 70157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.
Prerequisite: Minimum C- grades in BSCI 10110 and BSCI 10120; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40158 MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 50158 and BSCI 70158) Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.
Prerequisite: BSCI 30140 and BSCI 30156.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40159 MOLECULAR BIOLOGY LABORATORY (ELR) (WIC) 3 Credit Hours
(Slashed with BSCI 50159 and BSCI 70159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.
Prerequisite: BSCI 30140 and BSCI 30156.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

BSCI 40160 MARINE BIOLOGY 3 Credit Hours
(Slashed with BSCI 50160 and BSCI 70160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40162 SOIL BIOLOGY 3 Credit Hours
(Slashed with BSCI 50162 and BSCI 70162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40163 EVOLUTION 3 Credit Hours
(Slashed with BSCI 50163 and BSCI 70163) History of evolutionary theory, the evidences of evolution, the evolutionary forces and the products of these forces. Lecture three hours weekly.
Prerequisite: BSCI 30156; and 4 credit hours of Biological Sciences (BSCI) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours
(Slashed with BSCI 50166 and BSCI 70166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 40170 STREAM BIOLOGY 3 Credit Hours
(Slashed with BSCI 50170 and BSCI 70170) This course explores the physical, chemical and biological aspects of flowing water ecosystems. We cover topics across many levels of biological organization (individual organisms to communities) and broad geographic extents (habitat patches to global cycles), and process these ranges from simple to complex. The lecture covers basic concepts and the lab supports these concepts with field and lab measurements. The course culminates with independent projects that explore current issues related to human impacts on streams.
Prerequisite: BSCI 10110 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 40174 IMMUNOLOGY 3 Credit Hours
(Slashed with BSCI 50174 and BSCI 70174) This course covers innate and adaptive immune recognition and response, generation of diversity in antigen receptors of T cells and B cells, lymphocyte development and T cell activation and regulation pathways. It also covers immune resistance to infection, mechanisms of allergic responses, autoimmune disease, tissue and organ transplantation and cancer immunology.
Prerequisite: BSCI 30171 and CHEM 10061 and CHEM 10062 and CHEM 10063; and CHEM 10058 or CHEM 10060 or CHEM 11060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40191 SENIOR SEMINAR 1 Credit Hour
(Repeatable for credit)A capstone seminar course to examine biological topics and scientific contributions across subdisciplines. Discussion of current problems in the biological sciences related to societal needs and concerns.
Prerequisite: Biology major; and senior standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 40192 INTERNSHIP IN BIOLOGICAL SCIENCES (ELR) 3-12 Credit Hours
(Repeatable for credit) Work experience and training in the biological sciences under the supervision of appropriate personnel in a government agency, nonprofit organization or business. Maximum of 4 credit hours to count toward BSCI degrees as upper division elective hours.
Prerequisite: 18 hours of Biology; and 2.750 minimum overall GPA in Biology coursework; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 50195 and BSCI 70195) Special topics in biology.
Prerequisite: 18 hours of Biology coursework; and special approval of instructor.
Schedule Type: Laboratory, Lecture
Contact Hours: 1-3 lecture, 2-6 lab
Grade Mode: Standard Letter-IP

BSCI 40196 INDIVIDUAL INVESTIGATION (ELR) 1-3 Credit Hours
(Repeatable for credit) Research study under the direction of a BSCI faculty mentor. May be repeated; however, a maximum of 6 credit hours count toward BSCI degrees as upper-division elective hours.
Prerequisite: A minimum BSCI grade average of 2.750; and at least 18 credit hours of BSCI coursework; and departmental and faculty mentor approvals required.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

BSCI 40199 SENIOR HONORS THESIS (ELR) 1-9 Credit Hours
(Repeatable for credit) Honors thesis research project completed during the senior year with BSCI faculty mentor and research committee. Maximum of 4 credit hours to count toward BSCI degrees as upper division elective hours.
Prerequisite: Departmental faculty mentor; and honors college approval.
Schedule Type: Project or Capstone
Contact Hours: 1-9 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

BSCI 40218 INTRODUCTION TO GENOMICS 3 Credit Hours
(Slashed with BSCI 50218 and BSCI 70218) This course provides an introduction to the structure, organization and function of genomes as well as technological approaches to sequencing and analyzing genomes. Students will explore the application of genomic tools to real-world problems, such as developing sustainable food and fuel supplies, improving disease treatment, understanding biodiversity and protecting the environment.
Prerequisite: Minimum C- grade in BSCI 10110 and BSCI 10120.
Pre/corequisite: BSCI 30156.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40220 BIOINFORMATICS 3 Credit Hours
(Cross-listed with BTEC 40220) (Slashed with BSCI 50220 and BSCI 70220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics and protein structure analysis.
Prerequisite: BSCI 30140 and BSCI 30156 and BSCI 40158.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40221 ECOLOGICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 50221 and BSCI 70221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic and metatranscriptomic data.
Prerequisite: BSCI 30140; and BSCI 30156; and BSCI 30360.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40222 INVASION BIOLOGY 3 Credit Hours
(Slashed with BSCI 50222 and BSCI 70222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.
Prerequisite: BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40224 QUANTITATIVE METHODS IN BIOLOGY 4 Credit Hours
Introduction to the quantitative skills required of practicing biologists (experimental design, graphing, inference, and management of biological data). Real data from biological studies will be used to address fundamental questions in the biological sciences. Laboratory exercises will give experience with spreadsheet and statistical software used by practicing biologists.
Prerequisite: Minimum C- grade in BSCI 10110 or BSCI 10120; and minimum 55 ALEKS math score, or MATH 10675 or MATH 10775 or MATH 11010 with minimum C- grade.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 40242 SEMINAR ON MEDICAL PRACTICE FOR UNDERSERVED POPULATIONS 2 Credit Hours
(Slashed with BSCI 50242). Course will introduce students to primary care and medical practice in rural and urban settings. Physicians and other healthcare practitioners from rural and urban settings will serve as invited speakers in this seminar. Preference for registration will be given to students following the Baccalaureate-MD program with junior standing and minimum 3.500 overall GPA.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 40270 PLANT ECOLOGY 3 Credit Hours
(Slashed with BSCI 50270 and BSCI 70270) Develop knowledge of plant ecology. Learn about the abiotic and biotic effects of plant ecology. Differentiate among population ecology, metapopulation ecology and community ecology as it applies to plants. Use stage-structured population models to understand population dynamics. Learn about resource-ratio models as they apply to plant competition. Study the patterns and mechanisms of succession. BSCI 30360 and/or any courses covering plant science are recommended prior to taking this course.
Prerequisite: BSCI 10110 and BSCI 10120 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40272 PLANT ANATOMY 4 Credit Hours
(Slashed with BSCI 50272 and BSCI 70272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, lab six hours weekly.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 40273 INTRODUCTION TO MYCOLOGY 3 Credit Hours
(Slashed with BSCI 50273 and BSCI 70273) Introduces key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40274 PLANT COMMUNITIES OF OHIO 3 Credit Hours
(Slashed with BSCI 50274 and BSCI 70274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40292 INTERNSHIP IN PRIMARY CARE FOR THE UNDERSERVED (ELR) 2 Credit Hours
Students are placed in internships in urban or rural healthcare settings. Registration preference will be given to students following the Baccalaureate/M.D. pathway and who have junior standing and a minimum 3.500 overall GPA.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours
(Slashed with BSCI 50341 and BSCI 70341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40360 ICHTHYOLOGY 4 Credit Hours
Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 40363 MICROBIAL ECOLOGY 3 Credit Hours
(Slashed with BSCI 50363 and BSCI 70363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; biochemical cycles; current techniques; emphasis on bacteria in aquatic systems.
Prerequisite: BSCI 30171 or BSCI 30360.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

BSCI 40364 LIMNOLOGY 3 Credit Hours
(Slashed with BSCI 50364 and BSCI 70364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.
Prerequisite: BSCI 30360.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40365 FIELD METHODS IN ORNITHOLOGY (ELR) 3 Credit Hours
(Slashed with BSCI 50365 and BSCI 70365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.
Prerequisite: Minimum C- grade in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40368 WETLAND ECOLOGY AND MANAGEMENT (ELR) 4 Credit Hours
(Slashed with BSCI 50368 and BSCI 70368) Lecture, laboratory and field study of the principles of wetland ecology, including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management.
Prerequisite: BSCI 10110 with a minimum C- grade; and 4 credit hours of Biological Sciences (BSCI) courses.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40374 CONSERVATION BIOLOGY (ELR) 4 Credit Hours
(Slashed with BSCI 50374 and BSCI 70374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.
Prerequisite: BSCI 30360.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 50375 and BSCI 70375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.
Prerequisite: BSCI 30360.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 40376 TROPICAL FIELD BIOLOGY AND CONSERVATION (ELR) 5 Credit Hours
(Slashed with BSCI 50376 and BSCI 70376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; junior or senior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 6 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40377 PREPARATION FOR FIELD COURSE TO SOUTH AFRICA 1 Credit Hour
(Slashed with BSCI 50377 and BSCI 70377) Introduction to major issues in field ecology and conservation in South Africa, including the threats to the biological diversity of subtropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses. Three major biomes in South Africa will be studied: the savanna, the fynbos (macchia) and Succulent Karoo (= Cape Floral Kingdom.) Lectures will focus on the geography and history of South Africa, as well as introductions to the major South African biomes. Students will design field projects targeted to South African biomes.
Prerequisite: BSCI 10110 with a minimum C- grade; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture, 0 lab, 0 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 40378 FIELD COURSE TO SOUTH AFRICA (ELR) 4 Credit Hours
(Slashed with BSCI 50378 and BSCI 70378) This course covers all steps of the development and implementation of field-based research in South African environments, including design and analysis. Students write a report, present their research, apply data management and statistical tests appropriate for field courses (including contingency tables, basic t-tests, ANOVA and regression techniques) and develop scientific graphs and figures.
Prerequisite: BSCI 40377.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40380 BIOGEOCHEMISTRY 3 Credit Hours
(Cross-listed with ESCI 40380)(Slashed with BSCI 50380, BSCI 70380 and ESCI 50380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Minimum C grade in the following courses: (BSCI 10110 and BSCI 10120) or (ESCI 11041 or ESCI 11043); and (CHEM 10058 or CHEM 10060) and CHEM 10062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40385 CURRENT TOPICS IN NEUROSCIENCE 3 Credit Hours
(Cross-listed with NEUR 40385)(Slashed with BSCI 50385 and BSCI 70385) This is a discussion- and readings-based course that focuses on cellular and molecular mechanisms underpinning functions of the central nervous system. Topics covered include synaptic plasticity; neuron-glia interactions; gene-environment interactions involved in learning, memory and disease; big data in neuroscience; and more. During this course, students develop knowledge and understanding of communication between brain cells; how gene-environment interactions impact learning and memory, behavior and disease; and modern techniques used in neuroscience research. Students read, summarize and discuss primary research papers in the context of neuroscience-related topics.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40389 ECOLOGY AND NATURAL HISTORY OF MEDITERRANEAN ECOSYSTEMS (DIVG) (ELR) 3 Credit Hours
The Mediterranean basin is a hotspot of diversity made of plant and animal species adapted to survive to hot dry summers and cool wet winters. The origin and drivers of the today's Mediterranean diversity will be examined through this course, and the ecology of this biome will be investigated through textbooks, videos and up-to-date research papers. Impacts of climate change and of human-practices will be considered both on terrestrial and marine ecosystems to give a wide view of the ongoing processes in the considered habitats and conservation strategies will be critically analyzed through discussion.
Prerequisite: BSCI 10110.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BSCI 40429 NEURAL CONTROL OF REPRODUCTIVE FUNCTION 2 Credit Hours
(Cross-listed with NEUR 40429)(Slashed with BSCI 50429 and BSCI 70429) Course explores the role of the brain in regulating functions that are essential to ensure successful reproduction. Topics covered include an overview of the endocrine and neuroendocrine systems involved in reproduction, as well as regulation of puberty, fertility, pregnancy and lactation. The course also explores disorders, such as polycystic ovary syndrome, affecting the central regulation of reproduction.
Prerequisite: BSCI 30130 or BSCI 40430 or NEUR 30100.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 40430 ANIMAL PHYSIOLOGY 3 Credit Hours
Physiologic principles and concepts.
Prerequisite: Minimum C- grade in the following courses: BSCI 10110 and BSCI 10120; and (CHEM 10058 or CHEM 10060) and (CHEM 10059 or CHEM 10061).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40431 NEUROENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 50431 and BSCI 70431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.
Prerequisite: BSCI 30130 or BSCI 40430 or BSCI 40460 or NEUR 30100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40432 ENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 50432 and BSCI 70432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems.
Prerequisite: (BSCI 21010 and BSCI 21020) or BSCI 30130 or (BSCI 30140 and NEUR 30100 and NEUR 30200) or BSCI 40430.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40450 BIOLOGICAL CLOCKS 2 Credit Hours
(Slashed with BSCI 50450 and BSCI 70450) Topics covered include the characteristics of biological clocks; their ecology, molecular biology and neurobiology; the function and organization of sleep; and the medical implications of biological rhythmicity.
Prerequisite: BSCI 30156; and BSCI 30520 or BSCI 40430 or PSYC 41363.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 40460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours
(Slashed with BSCI 50460 and BSCI 70460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.
Prerequisite: BSCI 30140; and junior standing.
Corequisite: BSCI 40462.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour
(Slashed with BSCI 50462 and BSCI 70462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.
Prerequisite: BSCI 30140; and junior standing.
Corequisite: BSCI 40460.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 40463 MEDICAL BIOTECHNOLOGY 3 Credit Hours
(Slashed with BSCI 50463 and BSCI 70463) (Cross-listed BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours
(Slashed with BSCI 50466 and BSCI 70466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40515 ANIMAL BEHAVIOR 3 Credit Hours
(Slashed with BSCI 50515 and BSCI 70515) Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.
Prerequisite: Minimum C- grade in BSCI 10110 and BSCI 10120; and 6 additional credit hours of Biological Sciences (BSCI) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40517 MEDICAL HISTOLOGY 3 Credit Hours
(Slashed with BSCI 50517 and BSCI 70517) Study of the microscopic and submicroscopic structure of the human body in relation to function.
Prerequisite: Minimum C- grade in the following courses: BSCI 10110 and BSCI 10120 and BSCI 30140.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 40519 HORMONES AND BEHAVIOR 3 Credit Hours
(Slashed with BSCI 50519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40520 BEHAVIORAL EVOLUTION (WIC) 3 Credit Hours
(Slashed with BSCI 50520 and BSCI 70520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals.
Prerequisite: BSCI 40163.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

BSCI 40525 WILDLIFE RESOURCES (ELR) 3 Credit Hours
(Slashed with BSCI 50525 and BSCI 70525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic, economic and environmental values are discussed. Lecture three hours weekly.
Prerequisite: Minimum C- grade in BSCI 10110; plus 4 hours of Biology coursework.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40556 VERTEBRATE ZOOLOGY 4 Credit Hours
(Slashed with BSCI 50556 and BSCI 70556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours, lab and field three hours weekly.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 4 hours of Biology coursework.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 40558 MAMMALOGY 3 Credit Hours
(Slashed with BSCI 50558 and BSCI 70558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.
Prerequisite: Minimum C- grade in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40560 HERPETOLOGY 3 Credit Hours
(Slashed with BSCI 50560 and BSCI 70560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.
Prerequisite: Minimum C- grade in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40581 ANIMAL PARASITOLOGY 4 Credit Hours
(Slashed with BSCI 50581) Morphology, physiology, life-histories, systematics and economic importance of parasites. Lecture two hours lab, six hours weekly.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 4 hours of Biology coursework.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES (WIC) 1 Credit Hour
Writing-intensive course taken with a 3- or 4-credit-hour upper-division biology course. This course may be used to satisfy the writing-intensive course requirement with approval of major department.
Prerequisite: Biology major; and junior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

BSCI 40621 ISLAND BIOLOGY: STUDY OF NATURAL LABORATORIES 2 Credit Hours
Islands have long been regarded as important “natural laboratories” that have contributed to the advancements of many scientific disciplines, including evolution, ecology and conservation biology. Although islands comprise only 5% of the world’s land surface, they support 30% of the world’s biodiversity hotspots, which include rare and recently extinct species. This course provides students with an introduction to island biology and focuses on the following four areas: (1) defining islands and biodiversity, (2) identifying characteristics of islands and their implications for ecology, evolution of biodiversity, (3) understanding dynamics of spatially subsidized food webs on islands, and (4) identifying conservation and management concerns of island biotas. The goal of the course is to increase student awareness and appreciation of islands and associated biodiversity. This course is for students pursuing careers in any biological field including ecology, evolutionary biology, conservation biology, invasive ecology, wildlife management and pre-professional fields.
Prerequisite: BSCI 10110; and junior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 41110 BIOPHOTONICS 3 Credit Hours
(Cross-listed with CHEM 41010 and PHY 41010)(Slashed with BSCI 51110, CHEM 51010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microcopy.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 41120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours
(Slashed with BSCI 51120 and BSCI 71120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50020 BIOLOGY OF AGING 3 Credit Hours
(Slashed with BSCI 40020) Course covers theories of aging and the normal aging process, dysfunction, and diseases of the elderly categorized by body systems and how nutrition and exercise can offset those changes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50104 INTRODUCTION TO BEEKEEPING 2 Credit Hours
(Slashed with BSCI 40104) Covers basic beekeeping practices and provides students with an in-depth understanding of the honey bee colony through participation in hands-on activities, observation and experimentation. This course may not be used to fulfill degree requirements in the MS or MA Biology programs.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 50105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour
This course orients students to graduate studies and to various career pathways in the biological sciences. Students will learn about a variety of possible careers, and prepare application materials needed to enter the workforce or apply to additional graduate programs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 50141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 40141 and BSCI 70141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50142 BIOENERGETICS 3 Credit Hours
(Slashed with BSCI 40142 and BSCI 70142) Lecture and discussion of respiration and photosynthesis, their origin development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.
Prerequisite: BSCI 40430; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40143 and BSCI 70143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50146 DEVELOPMENTAL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40146 and BSCI 70146) Fundamental concepts and paradigms of development as exemplified by major model organisms. Examines our modern understanding of the molecular, cellular and genetic basis of developmental biology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours
(Slashed with BSCI 40147 and BSCI 70147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours
(Slashed with BSCI 40148 and BSCI 70148) Basic principles of infectious disease with emphasis on major human pathogens, including protozoa, bacteria and viruses. Topics include infection establishment, spread within the host, pathology, immunity and host behavior.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours
(Slashed with BSCI 40150 and BSCI 70150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours
(Slashed with BSCI 40151 and BSCI 70151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours
(Slashed with BSCI 40152 and BSCI 70152) Major concepts and theoretical principles underlying neurological disorders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours
(Slashed with BSCI 40154 and BSCI 70154) This course covers physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours
(Slashed with BSCI 40157 and BSCI 70157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50158 MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 40158 and BSCI 70158) Molecular genetics, DNA and RNA structure, chromosomes DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.
Prerequisite: BSCI 30156; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50159 MOLECULAR BIOLOGY LABORATORY 3 Credit Hours
(Slashed with BSCI 40159 and BSCI 70159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.
Prerequisite: Graduate standing; and special approval from instructor.
Schedule Type: Laboratory
Contact Hours: 9 lab
Grade Mode: Standard Letter

BSCI 50160 MARINE BIOLOGY 3 Credit Hours
(Slashed with BSCI 40160 and BSCI 70160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours weekly.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50162 SOIL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40162 and BSCI 70162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50163 EVOLUTION 3 Credit Hours
(Slashed with BSCI 40163 and BSCI 70163) Discussion of the history of evolutionary theory, the evidence of evolution the evolutionary forces and the products of those forces.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours
(Slashed with BSCI 40166 and BSCI 70166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 50170 STREAM BIOLOGY 3 Credit Hours
(Slashed with BSCI 40170 and BSCI 70170) This course explores the physical, chemical and biological aspects of flowing water ecosystems. We cover topics across many levels of biological organization (individual organisms to communities) and broad geographic extents (habitat patches to global cycles), and process these ranges from simple to complex. The lecture covers basic concepts and the lab supports these concepts with field and lab measurements. The course culminates with independent projects that explore current issues related to human impacts on streams.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50174 IMMUNOLOGY 3 Credit Hours
(Slashed with BSCI 40174 and BSCI 70174) This course covers innate and adaptive immune recognition and response, generation of diversity in antigen receptors of T cells and B cells, lymphocyte development and T cell activation and regulation pathways. It also covers immune resistance to infection, mechanisms of allergic responses, autoimmune disease, tissue and organ transplantation and cancer immunology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 40195 and BSCI 70195) Special topics in biology.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Laboratory, Lecture
Contact Hours: 1-3 lecture, 2-6 lab
Grade Mode: Standard Letter-IP

BSCI 50218 INTRODUCTION TO GENOMICS 3 Credit Hours
(Slashed with BSCI 40218 and BSCI 70218) This course provides an introduction to the structure, organization and function of genomes as well as technological approaches to sequencing and analyzing genomes. Students will explore the application of genomic tools to real-world problems, such as developing sustainable food and fuel supplies, improving disease treatment, understanding biodiversity and protecting the environment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50220 BIOINFORMATICS 3 Credit Hours
(Slashed with BSCI 40220, BSCI 70220 and BTEC 40220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50221 ECOLOGICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 40221 and BSCI 70221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic, and metatranscriptomic data.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50222 INVASION BIOLOGY 3 Credit Hours
(Slashed with BSCI 40222 and BSCI 70222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50242 SEMINAR ON MEDICAL PRACTICE FOR UNDERSERVED POPULATIONS 2 Credit Hours
(Slashed with BSCI 40242). Course will introduce students to primary care and medical practice in rural and urban settings. Physicians and other healthcare practitioners from rural and urban settings will serve as invited speakers in this seminar. Preference for registration will be given to students following the MA-MD program.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 50270 PLANT ECOLOGY 3 Credit Hours
(Slashed with BSCI 40270 and BSCI 70270) Develop knowledge of plant ecology. Learn about the abiotic and biotic effects of plant ecology. Differentiate among population ecology, metapopulation ecology and community ecology as it applies to plants. Use stage-structured population models to understand population dynamics. Learn about resource-ratio models as they apply to plant competition. Study the patterns and mechanisms of succession.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50272 PLANT ANATOMY 4 Credit Hours
(Slashed with BSCI 40272 and BSCI 70272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, laboratory six hours weekly.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 1 lab
Grade Mode: Standard Letter

BSCI 50273 INTRODUCTION TO MYCOLOGY 3 Credit Hours
(Slashed with BSCI 40273 and BSCI 70273) Introduces the key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50274 PLANT COMMUNITIES OF OHIO 3 Credit Hours
(Slashed with BSCI 40274 and BSCI 70274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours
(Slashed with BSCI 40341 and BSCI 70341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50360 ICHTHYOLOGY 4 Credit Hours
(Slashed with BSCI 40360 and 70360) Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50363 MICROBIAL ECOLOGY 3 Credit Hours
(Slashed with BSCI 40363 and BSCI 70363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50364 LIMNOLOGY 3 Credit Hours
(Slashed with BSCI 40364 and BSCI 70364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50365 FIELD METHODS IN ORNITHOLOGY 3 Credit Hours
(Slashed with BSCI 40365 and BSCI 70365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50368 WETLAND ECOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 40368 and BSCI 70368) Lecture, laboratory and field study of the principles of wetland ecology, including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50374 CONSERVATION BIOLOGY 4 Credit Hours
(Slashed with BSCI 40374 and BSCI 70374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.
Prerequisite: BSCI 30360; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 50375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 40375 and BSCI 70375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 50376 TROPICAL FIELD BIOLOGY AND CONSERVATION 5 Credit Hours
(Slashed with BSCI 40376 and BSCI 70376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 50377 PREPARATION FOR FIELD COURSE TO SOUTH AFRICA 1 Credit Hour
(Slashed with BSCI 40377 and BSCI 70377) Introduction to major issues in field ecology and conservation in South Africa, including the threats to the biological diversity of subtropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses. Three major biomes in South Africa will be studied: the savanna, the fynbos (macchia) and Succulent Karoo (= Cape Floral Kingdom.) Lectures on the geography and history of South Africa, as well as introductions to the major South African biomes will be covered. Students will design field projects targeted to South African biomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 50378 FIELD COURSE TO SOUTH AFRICA 4 Credit Hours
(Slashed with BSCI 40378 and BSCI 70378) This course covers all steps of the development and implementation of field-based research in South African environments, including design and analysis. Students write a report, present their research, apply data management and statistical tests appropriate for field courses (including contingency tables, basic t-tests, ANOVA and regression techniques) and develop scientific graphs and figures.
Prerequisite: BSCI 50377; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 50380 BIOGEOCHEMISTRY 3 Credit Hours
(Cross-listed with ESCI 50380)(Slashed with BSCI 40380, BSCI 70380 and ESCI 40380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50385 CURRENT TOPICS IN NEUROSCIENCE 3 Credit Hours
(Slashed with BSCI 40385, BSCI 70385 and NEUR 40385) This is a discussion- and readings-based course that focuses on cellular and molecular mechanisms underpinning functions of the central nervous system. Topics covered include synaptic plasticity; neuron-glia interactions; gene-environment interactions involved in learning, memory and disease; big data in neuroscience; and more. During this course, students develop knowledge and understanding of communication between brain cells; how gene-environment interactions impact learning and memory, behavior and disease; and modern techniques used in neuroscience research. Students read, summarize and discuss primary research papers in the context of neuroscience-related topics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50429 NEURAL CONTROL OF REPRODUCTIVE FUNCTION 2 Credit Hours
(Slashed with BSCI 40429, BSCI 70429 and NEUR 40429) Course explores the role of the brain in regulating functions that are essential to ensure successful reproduction. Topics covered include an overview of the endocrine and neuroendocrine systems involved in reproduction, as well as regulation of puberty, fertility, pregnancy and lactation. The course also explores disorders, such as polycystic ovary syndrome, affecting the central regulation of reproduction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 50431 NEUROENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 40431 and BSCI 70431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50432 ENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 40432 and BSCI 70432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems.
Prerequisite: BSCI 40430; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50450 BIOLOGICAL CLOCKS 2 Credit Hours
(Slashed with BSCI 40450 and BSCI 70450) Topics covered include the characteristics of biological clocks; their ecology, molecular biology and neurobiology; the function and organization of sleep; and the medical implications of biological rhythmicity. Students enrolling at the graduate level should have some background in neurobiology and genetics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 50460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours
(Slashed with BSCI 40460 and BSCI 70460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.
Prerequisite: Graduate standing.
Corequisite: BSCI 50462.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour
(Slashed with BSCI 40462 and BSCI 70462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.
Prerequisite: Graduate standing.
Corequisite: BSCI 50460.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 50463 MEDICAL BIOTECHNOLOGY 3 Credit Hours
(Slashed with BSCI 40463, BSCI 70463 and BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours
(Slashed with BSCI 40466 and BSCI 70466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50515 ANIMAL BEHAVIOR 3 Credit Hours
(Slashed with BSCI 40515 and BSCI 70515) Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50517 MEDICAL HISTOLOGY 3 Credit Hours
(Slashed with BSCI 40517 and BSCI 70517) Study of the microscopic and submicroscopic structure of the human body in relation to function.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50519 HORMONES AND BEHAVIOR 3 Credit Hours
(Slashed with BSCI 40519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50520 BEHAVIORAL EVOLUTION 3 Credit Hours
(Slashed with BSCI 40520 and BSCI 70520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals. Students enrolled at the graduate level in the course are expected to have had a course in evolution.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50525 WILDLIFE RESOURCES 3 Credit Hours
(Slashed with BSCI 40525 and BSCI 70525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic economic and environmental values are discussed. Lecture three hours weekly.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50556 VERTEBRATE ZOOLOGY 4 Credit Hours
(Slashed with BSCI 40556 and BSCI 70556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours, laboratory and field three hours weekly.
Prerequisite: 4 hours of Biology; and graduate standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50558 MAMMALOGY 3 Credit Hours
(Slashed with BSCI 40558 and BSCI 70558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50560 HERPETOLOGY 3 Credit Hours
(Slashed with BSCI 40560 and BSCI 70560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50581 ANIMAL PARASITOLOGY 4 Credit Hours
(Slashed with BSCI 40581) Morphology, physiology, life-histories, systematics and economic importance of parasites. Lecture two hours, lab six hours weekly.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 6 other
Grade Mode: Standard Letter

BSCI 51110 BIOPHOTONICS 3 Credit Hours
(Cross-listed with CHEM 51010 and PHY 51010)(Slashed with BSCI 41110, CHEM 41010 and PHY 41010) Interdisciplinary overview of the basics of biophotonics and application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 51120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours
(Slashed with BSCI 41120 and BSCI 71120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 60104 BIOLOGICAL STATISTICS 4 Credit Hours
(Slashed with BSCI 70104) Principles of experimental design and statistical analysis and how to choose and interpret statistical tests using biological data sets.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 60105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour
This course orients students to graduate studies and to various career pathways in the biological sciences. Students will learn about a variety of possible careers, and prepare application materials needed to enter the workforce or apply to additional graduate programs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 60107 REPRODUCIBLE QUANTITATIVE METHODS FOR ECOLOGICAL DATA 4 Credit Hours
(Slashed with BSCI 80107) Using real, data driven examples from ecology and the environmental sciences, this course walks students through the process of scientific analysis and communication in a new, open, technologically enabled framework, and place technical skills in the context of reproducible research philosophy, ethics and regulations. Topics include data management and metadata, reproducible programming, and data visualization.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 60110 CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS 2 Credit Hours
(Cross-listed with BMS 60110)(Slashed with BMS 80110 and BSCI 80110) This course helps prepare graduate students for advanced careers in science. Students learn about a variety of possible careers, prepare application materials and develop their professional oral and writing skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 60144 SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY 1 Credit Hour
(Slashed with BSCI 70144) Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students.
Prerequisite: Graduate standing.
Corequisite: BSCI 50143.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 60145 MEDICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 80145) Explores the relationship and contribution of genetics and genomics to healthcare issues, including disease susceptibility and therapeutic efficacy. Up-to-date genomics concepts and their applications to health care and the challenges of personalized medicine including genetic analyses (e.g., linkage and estimating population risks), ethical issues in genetic testing and therapy, genetic basis of disease processes (e.g., neurological, cardiovascular and neoplastic diseases) and epigenetic processes (that may link the environment to the risk of chronic diseases) are covered. This course requires an understanding of genetics and physiology; students should contact the Department of Biological Sciences to determine if they have the requisite prior training.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 60184 RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES 2 Credit Hours
(Slashed with BSCI 70184) Educates biology graduate students in central aspects of the responsible and effective conduct of research and teaching. Topics include appropriate conduct in the laboratory, effective presentations and issues related to proposal and manuscript preparation and review.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 60191 SEMINAR IN BIOLOGY 1 Credit Hour
(Repeatable for credit) Departmental seminar required of all graduate students.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 70196) Individual investigation in biology.
Prerequisite: Special approval of instructor and graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BSCI 60198 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward degree requirements if department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60200 FOUNDATIONS OF NEUROSCIENCE 3 Credit Hours
(Cross-listed with BMS 60200)(Slashed with BMS 80200 and BSCI 80200) This is a graduate-level introductory neuroscience course that will survey aspects of molecular and cellular neuroscience, the biophysics of the nervous system, basic neuroanatomy, and the homeostatic regulation of the periphery. After completion of this course students should have an understanding of how cells of the nervous system work, how these cells interact with homeostatic systems important to the regulation of peripheral physiology and behavior, and the basic neuroanatomy of these regulatory systems, including major neurotransmitter and neuroendocrine systems. Upon completion of this course, students should be prepared for advanced neuroscience coursework.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: BSCI 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60370 ECOLOGICAL AND EVOLUTIONARY GENETICS 2 Credit Hours
(Slashed with BSCI 70370) Genetic and genomic approaches to studying ecology and evolution in populations and communities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 60371 EVOLUTIONARY BIOLOGY 2 Credit Hours
(Slashed with BSCI 70371) Theoretical and experimental approaches to studying evolution from genes to populations and communities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 60372 COMMUNITIES AND ECOSYSTEMS 2 Credit Hours
(Slashed with BSCI 70372) Theory and experimental approaches to studying community and ecosystem ecology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 60373 POPULATION AND COMMUNITY ECOLOGY 2 Credit Hours
(Slashed with BSCI 70373) Theory and experimental approaches to studying population and community ecology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 60391 SEMINAR IN ECOLOGY 1 Credit Hour
(Slashed with BSCI 70391)(Repeatable for credit) Seminar on topics in animal and plant ecology. Credits earned may be applied to degree if department approves.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours
(Cross-listed with BMS 60462)(Slashed with BMS 70462 and BSCI 80462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.
Prerequisite: BMS 60729 or BMS 70729; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 60491 SEMINAR IN PHYSIOLOGY 1 Credit Hour
(Repeatable for credit)(Slashed with BSCI 70491) Credits may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60630 ADVANCED WRITING IN THE BIOLOGICAL SCIENCES 2 Credit Hours
(Slashed with BSCI 80630) Graduate students will track progress on a substantive writing task (e.g., thesis, dissertation, or manuscript) and complete exercises to enhance their capacity to communicate scientific findings in written formats and overcome barriers to productive writing habits. Students who do not have a specific writing project will work with the instructor to identify a project that aligns with their scholarly development and career goals, including but not limited to grant proposals, fellowship applications, literature review articles, research reports, etc. Students will pass the course by demonstrating consistent participation through attendance, submission of reflections on writing progress, and submission of short-term, skills based writing activities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 0 lab, 0 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 70104 BIOLOGICAL STATISTICS 4 Credit Hours
(Slashed with BSCI 60104) Principles of experimental design and statistical analysis, and how to choose and interpret statistical tests using biological data sets.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 70141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 40141 and BSCI 50141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70142 BIOENERGETICS 3 Credit Hours
(Slashed with BSCI 40142 and BSCI 50142) Lecture and discussion of respiration and photosynthesis, their origin development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.
Prerequisite: BSCI 40430; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40143 and BSCI 50143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70144 SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY 1 Credit Hour
(Slashed with BSCI 60144) Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students.
Prerequisite: Doctoral standing.
Corequisite: BSCI 70143.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 70146 DEVELOPMENTAL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40146 and BSCI 50146) Fundamental concepts and paradigms of development as exemplified by major model organisms. Examines our modern understanding of the molecular, cellular and genetic basis of developmental biology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours
(Slashed with BSCI 40147 and BSCI 50147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours
(Slashed with BSCI 40148 and BSCI 50148) Basic principles of infectious disease with emphasis on major human pathogens, including protozoa, bacteria and viruses. Topics include infection establishment, spread within the host, pathology, immunity and host behavior.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours
(Slashed with BSCI 40150 and BSCI 50150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours
(Slashed with BSCI 40151 and BSCI 50151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours
(Slashed with BSCI 40152 and BSCI 50152) Major concepts and theoretical principles underlying neurological disorders.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours
(Slashed with BSCI 40154 and BSCI 50154) This course covers physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours
(Slashed with BSCI 40157 and BSCI 50157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70158 MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 40158 and BSCI 50158) Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.
Prerequisite: BSCI 30156; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70159 MOLECULAR BIOLOGY LABORATORY 3 Credit Hours
(Slashed with BSCI 40159 and BSCI 50159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.
Prerequisite: Doctoral standing; and special approval from instructor.
Schedule Type: Laboratory
Contact Hours: 9 lab
Grade Mode: Standard Letter

BSCI 70160 MARINE BIOLOGY 3 Credit Hours
(Slashed with BSCI 40160 and BSCI 50160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours weekly.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70162 SOIL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40162 and BSCI 50162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70163 EVOLUTION 3 Credit Hours
(Slashed with BSCI 40163 and BSCI 50163) Discussion of the history of evolutionary theory, the evidence of evolution, the evolutionary forces and the products of those forces.
Prerequisite: BSCI 30156; and 4 credit hours of Biological Sciences (BSCI) courses; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours
(Slashed with BSCI 40166 and BSCI 50166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70170 STREAM BIOLOGY 3 Credit Hours
(Slashed with BSCI 40170 and BSCI 50170) This course explores the physical, chemical and biological aspects of flowing water ecosystems. We cover topics across many levels of biological organization (individual organisms to communities) and broad geographic extents (habitat patches to global cycles), and process these ranges from simple to complex. The lecture covers basic concepts and the lab supports these concepts with field and lab measurements. The course culminates with independent projects that explore current issues related to human impacts on streams.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70174 IMMUNOLOGY 3 Credit Hours
(Slashed with BSCI 40174 and BSCI 50174) This course covers innate and adaptive immune recognition and response, generation of diversity in antigen receptors of T cells and B cells, lymphocyte development and T cell activation and regulation pathways. It also covers immune resistance to infection, mechanisms of allergic responses, autoimmune disease, tissue and organ transplantation and cancer immunology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70184 RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES 2 Credit Hours
(Slashed with BSCI 60184) Educates biology graduate students in central aspects of the responsible and effective conduct of research and teaching. Topics include appropriate conduct in the laboratory, effective presentations and issues related to proposal and manuscript preparation and review.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 70191 SEMINAR IN BIOLOGY 1 Credit Hour
(Repeatable for credit) Departmental seminar required of all graduate students.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 70195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 40195 and BSCI 50195)
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Laboratory, Lecture
Contact Hours: 1-3 lecture, 2-6 lab
Grade Mode: Standard Letter-IP

BSCI 70196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 60196) Individual investigation in biology.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BSCI 70218 INTRODUCTION TO GENOMICS 3 Credit Hours
(Slashed with BSCI 40218 and BSCI 50218) This course provides an introduction to the structure, organization and function of genomes as well as technological approaches to sequencing and analyzing genomes. Students will explore the application of genomic tools to real-world problems, such as developing sustainable food and fuel supplies, improving disease treatment, understanding biodiversity and protecting the environment.
Prerequisite: Doctoral Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70220 BIOINFORMATICS 3 Credit Hours
(Slashed with BSCI 40220, BSCI 50220 and BTEC 40220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70221 ECOLOGICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 40221 and BSCI 50221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic and metatranscriptomic data.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70222 INVASION BIOLOGY 3 Credit Hours
(Slashed with BSCI 40222 and BSCI 50222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70270 PLANT ECOLOGY 3 Credit Hours
(Slashed with BSCI 40270 and BSCI 50270) Develop knowledge of plant ecology. Learn about the abiotic and biotic effects of plant ecology. Differentiate among population ecology, metapopulation ecology and community ecology as it applies to plants. Use stage-structured population models to understand population dynamics. Learn about resource-ratio models as they apply to plant competition. Study the patterns and mechanisms of succession.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70272 PLANT ANATOMY 4 Credit Hours
(Slashed with BSCI 40272 and BSCI 50272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, laboratory six hours weekly.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 0 lab
Grade Mode: Standard Letter

BSCI 70273 INTRODUCTION TO MYCOLOGY 3 Credit Hours
(Slashed with BSCI 40273 and BSCI 50273) Introduces the key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70274 PLANT COMMUNITIES OF OHIO 3 Credit Hours
(Slashed with BSCI 40274 and BSCI 50274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours
(Slashed with BSCI 40341 and BSCI 50341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70360 ICHTHYOLOGY 4 Credit Hours
(Slashed with BSCI 40360 and BSCI 50360) Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70363 MICROBIAL ECOLOGY 3 Credit Hours
(Slashed with BSCI 40363 and BSCI 50363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70364 LIMNOLOGY 3 Credit Hours
(Slashed with BSCI 40364 and BSCI 50364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70365 FIELD METHODS IN ORNITHOLOGY 3 Credit Hours
(Slashed with BSCI 40365 and BSCI 50365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70368 WETLAND ECOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 40368 and BSCI 50368) Lecture, laboratory and field study of the principles of wetland ecology, including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70370 ECOLOGICAL AND EVOLUTIONARY GENETICS 2 Credit Hours
(Slashed with BSCI 60370) Genetic and genomic approaches to studying ecology and evolution in populations and communities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70371 EVOLUTIONARY BIOLOGY 2 Credit Hours
(Slashed with BSCI 60371) Theoretical and experimental approaches to studying evolution from genes to populations and communities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70372 COMMUNITIES AND ECOSYSTEMS 2 Credit Hours
(Slashed with BSCI 60372) Theory and experimental approaches to studying community and ecosystem ecology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70373 POPULATION AND COMMUNITY ECOLOGY 2 Credit Hours
(Slashed with BSCI 60373) Theory and experimental approaches to studying population and community ecology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70374 CONSERVATION BIOLOGY 4 Credit Hours
(Slashed with BSCI 40374 and BSCI 50374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.
Prerequisite: BSCI 30360; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 70375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 40375 and BSCI 50375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 70376 TROPICAL FIELD BIOLOGY AND CONSERVATION 5 Credit Hours
(Slashed with BSCI 40376 and BSCI 50376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 70377 PREPARATION FOR FIELD COURSE TO SOUTH AFRICA 1 Credit Hour
(Slashed with BSCI 40377 and BSCI 50377) Introduction to major issues in field ecology and conservation in South Africa, including the threats to the biological diversity of subtropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses. Three major biomes in South Africa will be studied: the savanna, the fynbos (macchia) and Succulent Karoo (= Cape Floral Kingdom.) Lectures on the geography and history of South Africa, as well as introductions to the major South African biomes will be covered. Students will design field projects targeted to South African biomes.
Prerequisite: Doctoral Standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 70378 FIELD COURSE TO SOUTH AFRICA 4 Credit Hours
(Slashed with BSCI 40378 and BSCI 50378) This course covers all steps of the development and implementation of field-based research in South African environments, including design and analysis. Students write a report, present their research, apply data management and statistical tests appropriate for field courses (including contingency tables, basic t-tests, ANOVA and regression techniques) and develop scientific graphs and figures.
Prerequisite: BSCI 70377; and doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 70380 BIOGEOCHEMISTRY 3 Credit Hours
(Slashed with BSCI 40380, BSCI 50380, ESCI 40380 and ESCI 50380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70385 CURRENT TOPICS IN NEUROSCIENCE 3 Credit Hours
(Slashed with BSCI 40385, BSCI 50385 and NEUR 40385) This is a discussion- and readings-based course that focuses on cellular and molecular mechanisms underpinning functions of the central nervous system. Topics covered include synaptic plasticity; neuron-glia interactions; gene-environment interactions involved in learning, memory and disease; big data in neuroscience; and more. During this course, students develop knowledge and understanding of communication between brain cells; how gene-environment interactions impact learning and memory, behavior and disease; and modern techniques used in neuroscience research. Students read, summarize and discuss primary research papers in the context of neuroscience-related topics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70391 SEMINAR IN ECOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BSCI 60391) Seminar on topics in animal and plant ecology. Credits earned may be applied to degree if department approves.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 70429 NEURAL CONTROL OF REPRODUCTIVE FUNCTION 2 Credit Hours
(Slashed with BSCI 40429, BSCI 50429 and NEUR 40429) Course explores the role of the brain in regulating functions that are essential to ensure successful reproduction. Topics covered include an overview of the endocrine and neuroendocrine systems involved in reproduction, as well as regulation of puberty, fertility, pregnancy and lactation. The course also explores disorders, such as polycystic ovary syndrome, affecting the central regulation of reproduction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70431 NEUROENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 40431 and BSCI 50431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70432 ENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 40432 and BSCI 50432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems.
Prerequisite: BSCI 40430; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70450 BIOLOGICAL CLOCKS 2 Credit Hours
(Slashed with BSCI 40450 and BSCI 50450) Topics covered include the characteristics of biological clocks; their ecology, molecular biology and neurobiology; the function and organization of sleep; and the medical implications of biological rhythmicity. Students enrolling at the graduate level should have some background in neurobiology and genetics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours
(Slashed with BSCI 40460 and BSCI 50460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.
Prerequisite: Doctoral standing.
Corequisite: BSCI 70462.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour
(Slashed with BSCI 40462 and BSCI 50462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.
Prerequisite: Doctoral standing.
Corequisite: BSCI 70460.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 70463 MEDICAL BIOTECHNOLOGY 3 Credit Hours
(Slashed with BSCI 40463, BSCI 50463 and BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours
(Slashed with BSCI 40466 and BSCI 50466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70491 SEMINAR IN PHYSIOLOGY 1 Credit Hour
(Repeatable for credit)(Slashed with BSCI 60491) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 70515 ANIMAL BEHAVIOR 3 Credit Hours
(Slashed with BSCI 40515 and BSCI 50515) Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70517 MEDICAL HISTOLOGY 3 Credit Hours
(Slashed with BSCI 40517 and BSCI 50517) Study of the microscopic and submicroscopic structure of the human body in relation to function.
Prerequisite: 4 credit hours of Biological Sciences (BSCI) courses; and doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70519 HORMONES AND BEHAVIOR 3 Credit Hours
(Slashed with BSCI 40519 and BSCI 50519) Current concepts of hormone and behavior interactions across species.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70520 BEHAVIORAL EVOLUTION 3 Credit Hours
(Slashed with BSCI 40520 and BSCI 50520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals. Students enrolled at the graduate level will be expected to have had a course in evolution.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70525 WILDLIFE RESOURCES 3 Credit Hours
(Slashed with BSCI 40525 and BSCI 50525)Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic economic and environmental values are discussed. Lecture three hours weekly.
Prerequisite: 4 hours of Biology; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70556 VERTEBRATE ZOOLOGY 4 Credit Hours
(Slashed with BSCI 40556 and BSCI 50556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours laboratory and field three hours weekly.
Prerequisite: 4 hours of Biology; and doctoral standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70558 MAMMALOGY 3 Credit Hours
(Slashed with BSCI 40558 and BSCI 50558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70560 HERPETOLOGY 3 Credit Hours
(Slashed with BSCI 40560 and BSCI 50560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 71120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours
(Slashed with BSCI 41120 and BSCI 51120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 80107 REPRODUCIBLE QUANTITATIVE METHODS FOR ECOLOGICAL DATA 4 Credit Hours
(Slashed with BSCI 60107) Using real, data driven examples from ecology and the environmental sciences, this course walks students through the process of scientific analysis and communication in a new, open, technologically enabled framework, and place technical skills in the context of reproducible research philosophy, ethics and regulations. Topics include data management and metadata, reproducible programming, and data visualization.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 80110 CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS 2 Credit Hours
(Cross-listed with BMS 80110)(Slashed with BMS 60110 and BSCI 60110) This course helps prepare graduate students for advanced careers in science. Students learn about a variety of possible careers, prepare application materials and develop their professional oral and writing skills.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 80145 MEDICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 60145) Explores the relationship and contribution of genetics and genomics to healthcare issues, including disease susceptibility and therapeutic efficacy. Up-to-date genomics concepts and their applications to health care and the challenges of personalized medicine including genetic analyses (e.g., linkage and estimating population risks), ethical issues in genetic testing and therapy, genetic basis of disease processes (e.g., neurological, cardiovascular and neoplastic diseases) and epigenetic processes (that may link the environment to the risk of chronic diseases) are covered. This course requires an understanding of genetics and physiology; students should contact the Department of Biological Sciences to determine if they have the requisite prior training.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 80198 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed candidacy examination.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Special approval; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 80200 FOUNDATIONS OF NEUROSCIENCE 3 Credit Hours
(Cross-listed with BMS 80200)(Slashed with BMS 60200 and BSCI 60200) This is a graduate-level introductory neuroscience course that will survey aspects of molecular and cellular neuroscience, the biophysics of the nervous system, basic neuroanatomy, and the homeostatic regulation of the periphery. After completion of this course students should have an understanding of how cells of the nervous system work, how these cells interact with homeostatic systems important to the regulation of peripheral physiology and behavior, and the basic neuroanatomy of these regulatory systems, including major neurotransmitter and neuroendocrine systems. Upon completion of this course, students should be prepared for advanced neuroscience coursework.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: BSCI 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 80462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours
(Cross-listed with BMS 70462)(Slashed with BMS 60462 and BSCI 60462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.
Prerequisite: BMS 60729 or BMS 70729; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 80630 ADVANCED WRITING IN THE BIOLOGICAL SCIENCES 2 Credit Hours
(Slashed with BSCI 60630) Graduate students will track progress on a substantive writing task (e.g., thesis, dissertation, or manuscript) and complete exercises to enhance their capacity to communicate scientific findings in written formats and overcome barriers to productive writing habits. Students who do not have a specific writing project will work with the instructor to identify a project that aligns with their scholarly development and career goals, including but not limited to grant proposals, fellowship applications, literature review articles, research reports, etc. Students will pass the course by demonstrating consistent participation through attendance, submission of reflections on writing progress, and submission of short-term, skills based writing activities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 0 lab, 0 other
Grade Mode: Satisfactory/Unsatisfactory

Biomedical Sciences (BMS)

BMS 40196 INDIVIDUAL INVESTIGATION IN BIOMEDICAL SCIENCES (ELR) 1-3 Credit Hours
(Repeatable for credit) Research study under the direction of a BMS faculty mentor. Students majoring in biochemistry, biology, biotechnology, chemistry, neuroscience and physics are eligible to enroll in this course, but must have 18 credit hours in their major completed.
Prerequisite: Minimum 2.750 overall GPA; and Biochemistry major or Biology major or Biotechnology major or Chemistry major or Neuroscience major or Physics major; and departmental and faculty mentor approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BMS 50701 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with BMS 70701)(Cross-listed with PSYC 43001, PSYC 53001 and PSYC 73001) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 50702 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with BMS 70702)(Cross-listed with PSYC 43002, PSYC 53002 and PSYC 73002) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Graduate standing and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 50703 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with BMS 70703)(Cross-listed with PSYC 43003, PSYC 53003 and PSYC 73003) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 60110 CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS 2 Credit Hours
(Cross-listed with BSCI 60110)(Slashed with BMS 80110 and BSCI 80110) This course helps prepare graduate students for advanced careers in science. Students learn about a variety of possible careers, prepare application materials and develop their professional oral and writing skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 60120 LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES 2 Credit Hours
(Repeatable once for credit) Minimum of two laboratory rotations per semester by arrangement with individual faculty members.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with BMS 70196) Directed investigation under supervision of faculty member in biomedical sciences and with prior approval.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BMS 60198 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward degree requirements if department approves.
Prerequisite: Graduate standing; and special approval of adviser.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval of adviser.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 60200 FOUNDATIONS OF NEUROSCIENCE 3 Credit Hours
(Slashed with BMS 80200) (Cross-listed with BSCI 60200 and BSCI 80200) This is a graduate-level introductory neuroscience course that will survey aspects of molecular and cellular neuroscience, the biophysics of the nervous system, basic neuroanatomy, and the homeostatic regulation of the periphery. After completion of this course students should have an understanding of how cells of the nervous system work, how these cells interact with homeostatic systems important to the regulation of peripheral physiology and behavior, and the basic neuroanatomy of these regulatory systems, including major neurotransmitter and neuroendocrine systems. Upon completion of this course, students should be prepared for advanced neuroscience coursework.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 60251 THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING 2 Credit Hours
(Slashed with BMS 70251) Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed.
Prerequisite: BSCI 50158; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 60291 SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 70291) Credits may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60295 SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY 1-5 Credit Hours
(Slashed with BMS 70295)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: 6 hours of BMS 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 60440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours
(Slashed with BMS 70440) The relevant and current topics associated with cellular signaling are covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.
Prerequisite: BSCI 40143 or BSCI 50143 or BSCI 70143; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 60441 MEDICAL PHYSIOLOGY 5 Credit Hours
(Slashed with BMS 70441) Investigation of how the integration of biophysics, biochemistry and structure induces organ function in the cardiovascular, renal, respiratory, endocrine and gastrointestinal systems. Limited discussion of how pathologies alter normal organ function.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

BMS 60462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours
(Slashed with BMS 70462) (Cross-listed with BSCI 60462 and BSCI 80462). Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.
Prerequisite: BMS 60729 or BMS 70729; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 60465 MEDICAL NEUROSCIENCE 6 Credit Hours
(Slashed with BMS 70465) Detailed examination of human neuroanatomy and nervous system function.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 lecture, 3 lab
Grade Mode: Standard Letter

BMS 60491 SEMINAR IN MEDICAL PHYSIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 70491) Credits may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60495 SPECIAL TOPICS IN PHYSIOLOGY 1-5 Credit Hours
(Slashed with BMS 70495)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 60501 INTRODUCTION TO PHARMACOLOGY 1 Credit Hour
(Slashed with BMS 70501) Satisfactory/Unsatisfactory (S/U) graded. Basic aspects of pharmacology. Intended to provide a general understanding of fundamental concepts in pharmacology and opportunities for students to read and present peer-reviewed manuscripts covering introductory pharmacological concepts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60502 MOLECULAR PHARMACOLOGY 4 Credit Hours
(Slashed with BMS 70502) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of select drug topics. Focus is placed on the molecular and cellular targets of drug action.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 60503 PHARMACOLOGY JOURNAL REVIEW 1 Credit Hour
(Repeatable maximum four times) (Slashed with BMS 70503) Satisfactory/Unsatisfactory (S/U) graded. Review and discussion of advanced pharmacology journal articles. Students will present and critique articles from peer-viewed publications and actively participate in discussions. Background in physiology and biochemistry required.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60504 CHEMOTHERAPHY AND TOXICOLOGY 2 Credit Hours
(Slashed with BMS 70504) Specialized topics in chemotherapy of microbial and neoplastic diseases as well as principles of toxicology.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 60505 DRUG DISCOVERY AND CLINICAL PHARMACOLOGY 2 Credit Hours
(Slashed with BMS 70505) Basic concepts underlying drug discovery and clinical pharmacology including principles of pharmacokinetics, metabolism, pharmacogenomics and drug design.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 60506 HERBALS AND SUPPLEMENTS 2 Credit Hours
(Slashed with BMS 70506) Provides an understanding of the basic scientific, therapeutic and pharmacological principles underlying the use of medicinal plants, herbal medications, natural products, vitamins, minerals and supplements.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 60591 SEMINAR IN PHARMACOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 70591) Credits may be applied toward degree if department approves. Repeated registration permitted.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60595 SPECIAL TOPICS IN PHARMACOLOGY 1-5 Credit Hours
(Slashed with BMS 70595)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 60596 INDIVIDUAL INVESTIGATION IN PHARMACOLOGY 1-3 Credit Hours
(Slashed with BMS 70596) (Repeatable for credit) Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

BMS 60729 CELLULAR AND MOLECULAR NEUROSCIENCE 4 Credit Hours
(Slashed with BMS 70729) The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental neurobiology.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 60751 CURRENT RESEARCH IN AUDITORY NEUROBIOLOGY 1 Credit Hour
(Slashed with BMS 70751) (Repeatable for a maximum of four credit hours) Presentation-based by faculty in the Auditory Neuroscience Group. Topics will vary each semester. Each class presentation will highlight recent advances in auditory neurobiology, cover relevant background, and involve discussion of methodology, experimental design, and interpretive issues related to the research. Students will prepare a presentation on a topic chosen in conjunction with one of the faculty members. Assessment is based on presentation quality and active participation throughout the semester.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 60791 SEMINAR IN NEUROBIOLOGY 1 Credit Hour
(Slashed with BMS 70791) (Repeatable for credit) Credits may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60795 SPECIAL TOPICS IN NEUROBIOLOGY 1-5 Credit Hours
(Slashed with BMS 70795)(Repeatable for credit) Study of problems of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 61000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour
(Slashed with BMS 71000) (Cross-listed with PHIL 61000) Introduction to professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BMS 61001 INTRODUCTION TO BIOMEDICAL SCIENCES 1 Credit Hour
(Slashed with BMS 71001) Seminar for all students in Biomedical Sciences. Repeat registration permitted.
Prerequisite: Graduate Standing in the School of Biomedical Sciences; Biological Anthropology, Biomedical mathematics, Cellular and Molecular Biology, Neurosciences, Pharmacology, Physiology Interdisciplinary.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 70120 LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES 2 Credit Hours
(Slashed with BMS 60120) (Repeatable once for credit) Minimum of two laboratory rotations per semester by arrangement with individual faculty members. May be repeated once.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Slashed with BMS 60196) (Repeatable for credit) Directed investigation under supervision of faculty member in biomedical sciences and with prior approval.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BMS 70251 THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING 2 Credit Hours
(Slashed with BMS 60251) Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed.
Prerequisite: BSCI 50158; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 70291 SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 60291) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70295 SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY 1-5 Credit Hours
(Slashed with BMS 60295)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 70440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours
(Slashed with BMS 60440) The relevant and current topics associated with cellular signaling are covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.
Prerequisite: BSCI 40143 or BSCI 50143 or BSCI 70143; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 70441 MEDICAL PHYSIOLOGY 5 Credit Hours
(Slashed with BMS 60441) Investigation of how the integration of biophysics, biochemistry and structure induces organ function in the cardiovascular, renal, respiratory, endocrine and gastrointestinal systems. Limited discussion of how pathologies alter normal organ function.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

BMS 70462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours
(Slashed with BMS 60462) (Cross-listed with BSCI 60462 and BSCI 80462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.
Prerequisite: BMS 60729 or BMS 70729; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 70465 MEDICAL NEUROSCIENCE 6 Credit Hours
(Slashed with BMS 60465) Detailed examination of human neuroanatomy and nervous system function.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 lecture, 3 lab
Grade Mode: Standard Letter

BMS 70491 SEMINAR IN MEDICAL PHYSIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 60491) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70495 SPECIAL TOPICS IN PHYSIOLOGY 1-5 Credit Hours
(Slashed with BMS 60495)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 70501 INTRODUCTION TO PHARMACOLOGY 1 Credit Hour
(Slashed with BMS 60501) Satisfactory/Unsatisfactory (S/U) graded. Basic aspects of pharmacology. Intended to provide a general understanding of fundamental concepts in pharmacology and opportunities for students to read and present peer-reviewed manuscripts covering introductory pharmacological concepts.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 70502 MOLECULAR PHARMACOLOGY 4 Credit Hours
(Slashed with BMS 60502) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of select drug topics. Focus is placed on the molecular and cellular targets of drug action.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 70503 PHARMACOLOGY JOURNAL REVIEW 1 Credit Hour
(Repeatable maximum four times) (Slashed with BMS 60503) Review and discussion of advanced pharmacology journal articles. Students will present and critique articles from peer-viewed publications and actively participate in discussions. Background in physiology and biochemistry required. Satisfactory/Unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70504 CHEMOTHERAPY AND TOXICOLOGY 2 Credit Hours
(Slashed with BMS 60504) Specialized topics in chemotherapy of microbial and neoplastic diseases as well as principles of toxicology.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 70505 DRUG DISCOVERY AND CLINICAL PHARMACOLOGY 2 Credit Hours
(Slashed with BMS 60505) Basic concepts underlying drug discovery and clinical pharmacology including principles of pharmacokinetics, metabolism, pharmacogenomics and drug design.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 70506 HERBALS AND SUPPLEMENTS 2 Credit Hours
(Slashed with BMS 60506) Provides an understanding of the basic scientific, therapeutic and pharmacological principles underlying the use of medicinal plants, herbal medications, natural products, vitamins, minerals and supplements.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 70591 SEMINAR IN PHARMACOLOGY 1 Credit Hour
(Slashed with BMS 60591) (Repeatable for credit) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70595 SPECIAL TOPICS IN PHARMACOLOGY 1-5 Credit Hours
(Slashed with BMS 60595)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 70596 INDIVIDUAL INVESTIGATION IN PHARMACOLOGY 1-3 Credit Hours
(Slashed with BMS 60596) (Repeatable for credit) Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BMS 70701 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with BMS 50701)(Cross-listed with PSYC 43001, PSYC 53001 and PSYC 73001). Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 70702 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with BMS 50702)(Cross-listed with PSYC 43002, PSYC 53002 and PSYC 73002) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Doctoral standing and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 70703 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with BMS 50703)(Cross-listed with PSYC 43003, PSYC 53003 and PSYC 73003) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 70729 CELLULAR AND MOLECULAR NEUROSCIENCE 4 Credit Hours
(Slashed with BMS 60729) The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental neurobiology.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 70751 CURRENT RESEARCH IN AUDITORY NEUROBIOLOGY 1 Credit Hour
(Slashed with BMS 60751) (Repeatable for a maximum of four credit hours) Presentation-based by faculty in the Auditory Neuroscience Group. Topics will vary each semester. Each class presentation will highlight recent advances in auditory neurobiology, cover relevant background, and involve discussion of methodology, experimental design, and interpretive issues related to the research. Students will prepare a presentation on a topic chosen in conjunction with one of the faculty members. Assessment is based on presentation quality and active participation throughout the semester.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 70791 SEMINAR IN NEUROBIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 60791) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70795 SPECIAL TOPICS IN NEUROBIOLOGY 1-5 Credit Hours
(Slashed with BMS 60795)(Repeatable for credit) Study of problems of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 71000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour
(Slashed with BMS 61000) (Cross-listed with PHIL 61000) Introduction to professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BMS 71001 INTRODUCTION TO BIOMEDICAL SCIENCES 1 Credit Hour
(Slashed with BMS 61001) Introductory seminar for new students in Biomedical Sciences graduate programs. This seminar will expose students to the different faculty research programs available in the program.
Prerequisite: Doctoral standing in Biomedical Sciences.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 78630 PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 68630) Graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates and early man.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 78637 BIOANTHROPOLOGICAL DATA ANALYSIS I 5 Credit Hours
(Cross-listed with ANTH 68637) Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

BMS 78638 BIOANTHROPOLOGICAL DATA ANALYSIS II 3 Credit Hours
(Cross-listed with ANTH 68638) This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple sample problems and regression methods. It also includes computer applications.
Prerequisite: BMS 78637; and Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 78691 SEMINAR IN BIOLOGICAL ANTHROPOLOGY 1 Credit Hour
(Repeatable for credit) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 78692 FIELD WORK IN PALEOANTHROPOLOGY 1-5 Credit Hours
(Repeatable for credit) Excavation and/or field survey of miocene and/or plio-pleistocene hominid localities.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Field Experience
Contact Hours: 1-5 other
Grade Mode: Standard Letter

BMS 78695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 1-5 Credit Hours
(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 80110 CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS 2 Credit Hours
(Cross-listed with BSCI 80110)(Slashed with BMS 60110 and BSCI 60110) This course helps prepare graduate students for advanced careers in science. Students learn about a variety of possible careers, prepare application materials and develop their professional oral and writing skills.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 80198 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students who have not yet passed candidacy examination.
Prerequisite: Doctoral standing; and special approval of adviser.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Students must successfully complete the doctoral exam before taking this course.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 80200 FOUNDATIONS OF NEUROSCIENCE 3 Credit Hours
(Slashed with BMS 60200) (Cross-listed with BSCI 60200 and BSCI 80200) This is a graduate-level introductory neuroscience course that will survey aspects of molecular and cellular neuroscience, the biophysics of the nervous system, basic neuroanatomy, and the homeostatic regulation of the periphery. After completion of this course students should have an understanding of how cells of the nervous system work, how these cells interact with homeostatic systems important to the regulation of peripheral physiology and behavior, and the basic neuroanatomy of these regulatory systems, including major neurotransmitter and neuroendocrine systems. Upon completion of this course, students should be prepared for advanced neuroscience coursework.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: 30 hours of BMS 80199; and Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Biostatistics (BST)

BST 50196 INDIVIDUAL INVESTIGATION IN BIOSTATISTICS 1-3 Credit Hours
(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to biostatistics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BST 60010 USING R IN PUBLIC HEALTH 1 Credit Hour
(Slashed with BST 70010) Students learn the role of the computing software R for data analyses. The course covers the basics of R including how to organize and clean data and how to display data visually. Students understand how to perform descriptive and inferential statistics using R.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BST 60011 USING SAS IN PUBLIC HEALTH 1 Credit Hour
(Slashed with BST 70011) Students learn the role of the computing software SAS for data analyses. The course covers the basics of SAS, including importing data, organizing and cleaning the data and using different procedures. Students understand how to perform descriptive and inferential statistics using SAS.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BST 60012 USING EXCEL IN PUBLIC HEALTH 1 Credit Hour
(Slashed with BST 70012) An introduction to using Excel in the field of public health. Students learn the skills to analyze and present data, including using formulas, pivot tables, graphs and the data analysis toolpak.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BST 60191 VARIABLE CONTENT SEMINAR IN BIOSTATISTICS 1-3 Credit Hours
(Repeatable for credit) Seminar on current and important topics in biostatistics. Subject matter varies depending on the topic.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

BST 60192 APPLIED PRACTICE EXPERIENCE IN BIOSTATISTICS 3,6 Credit Hours
(Repeatable for credit) Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BST 60195 SPECIAL TOPICS IN BIOSTATISTICS 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in biostatistics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BST 60292 APPLIED PRACTICE EXPERIENCE IN BIOSTATISTICS II 1 Credit Hour
(Repeatable for credit) Continuing enrollment for students participating in public health activities of a public health agency, hospital or other approved organization. Students complete the field experience with joint supervision from the university and an approved organization or agency.
Prerequisite: BST 60192; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BST 62019 BIOSTATISTICS IN PUBLIC HEALTH 3 Credit Hours
This course provides graduate students with an understanding of basic statistical methods as well as the skills to perform and interpret basic statistical procedures and interpret the results. Emphasis is on principles of statistical reasoning, presentation of graphical and numerical descriptive statistics, statistical inference (estimation and hypothesis testing) and careful interpretation of results. By the end of the course, students achieve competency in applying appropriate basic statistical methods to real-time data and presenting the results appropriate for public health professionals and educated lay audiences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 62020 DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE 3 Credit Hours
(Slashed with BST 82020) This course introduces graduate students to SAS® software, reading external data into SAS software, use of SAS data step, basic SAS functions, logical data steps for data management, and different SAS procedures for creating summary reports, graphical displays, and conducting basic statistical analysis using the SAS software. SAS Lab sessions are designed to mimic real time challenges working with different kinds of data and learn how to meet such challenges. By the end of the course, students will achieve competency in proper and efficient use of SAS software.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 63012 SURVIVAL ANALYSIS IN PUBLIC HEALTH 3 Credit Hours
(Slashed with BST 83012) Introduction in survival analysis for graduate students in public health. Covers survival functions, hazard rates, types of censoring and truncation. Methods of focus include life tables, Kaplan-Meier plots, log-rank tests, Cox regression models and parametric survival models. Inference for recurrent event and competing risks models are also covered.
Prerequisite: BST 62019 and BST 63014; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 63013 EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH 3 Credit Hours
(Slashed with BST 83013) Introduces students to experimental research methods in public health settings. First introduces a number of quasi-experimental and experimental study designs, then identifies a number of statistical methods that can be used to draw correct causal inferences from the study.
Prerequisite: BST 62019 and BST 63014; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 63014 APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA 3 Credit Hours
(Slashed with BST 83014) Focuses on developing student proficiency in building and evaluating various regression models for public health studies. Topics covered include exploratory and descriptive methods, simple and multiple linear regression models, predictor selection, binary and multinomial logistic regression models, survival analysis, repeated measures and generalized linear models.
Prerequisite: BST 62019; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 70010 USING R IN PUBLIC HEALTH 1 Credit Hour
(Slashed with BST 60010) Students learn the role of the computing software R for data analyses. The course covers the basics of R including how to organize and clean data and how to display data visually. Students understand how to perform descriptive and inferential statistics using R.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BST 70011 USING SAS IN PUBLIC HEALTH 1 Credit Hour
(Slashed with BST 60011) Students learn the role of the computing software SAS for data analyses. The course covers the basics of SAS, including importing data, organizing and cleaning the data and using different procedures. Students understand how to perform descriptive and inferential statistics using SAS.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BST 70012 USING EXCEL IN PUBLIC HEALTH 1 Credit Hour
(Slashed with BST 60012) An introduction to using Excel in the field of public health. Students learn the skills to analyze and present data, including using formulas, pivot tables, graphs and the data analysis toolpak.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BST 82020 DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE 3 Credit Hours
(Slashed with BST 62020) This course introduces graduate students to SAS® software, reading external data into SAS software, use of SAS data step, basic SAS functions, logical data steps for data management, and different SAS procedures for creating summary reports, graphical displays, and conducting basic statistical analysis using the SAS software. SAS Lab sessions are designed to mimic real time challenges working with different kinds of data and learn how to meet such challenges. By the end of the course, students will achieve competency in proper and efficient use of SAS software.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 83012 SURVIVAL ANALYSIS IN PUBLIC HEALTH 3 Credit Hours
(Slashed with BST 63012) Covers survival functions, hazard rates, types of censoring and truncation. Methods of focus include life tables, Kaplan-Meier plots, log-rank tests, Cox regression models and parametric survival models. Inference for recurrent event and competing risks models are also covered.
Prerequisite: BST 62019; and BST 63014 or BST 83014; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 83013 EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH 3 Credit Hours
(Slashed with BST 63013) Introduces students to experimental research methods in public health settings. First introduces a number of quasi-experimental and experimental study designs, then identifies a number of statistical methods that can be used to draw correct causal inferences from the study. Students are expected to develop two research proposals, first using quasi-experimental then an experimental design, and develop a statistical analysis plan for each study.
Prerequisite: BST 62019; and BST 63014 or BST 83014; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 83014 APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA 3 Credit Hours
(Slashed with BST 63014) Focuses on developing student proficiency in building and evaluating various regression models for public health studies. Topics covered include exploratory and descriptive methods, simple and multiple linear regression models, predictor selection, binary and multinomial logistic regression models, survival analysis, repeated measures and generalized linear models.
Prerequisite: BST 62019; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Biotechnology (BTEC)

BTEC 10210 INTRODUCTION TO BIOTECHNOLOGY 3 Credit Hours
Basic principles and applications of modern biotechnology, including recombinant DNA technology, microbial technology, fermentation, genetic engineering, plant and animal tissue culture and medical biotechnology. Lecture three hours weekly.
Prerequisite: BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BTEC 40191 SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY 1 Credit Hour
Recent developments in biotechnology explored through the presentation and discussion of research articles and reviews in the biotechnology literature.
Prerequisite: BTEC 10210; BSCI 30140, 30171, 30156; CHEM 30284.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

BTEC 40192 INTERNSHIP IN BIOTECHNOLOGY (ELR) 2-9 Credit Hours
(Repeatable for credit)Work experience in a biotechnology laboratory. Registration requires approval of program director and is dependent on availability of internship sites. Written report of activities required.
Prerequisite: Biotechnology major.
Schedule Type: Practical Experience
Contact Hours: 2-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

BTEC 40196 INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR) 2-9 Credit Hours
(Repeatable for credit)Research experience in biotechnology. Registration requires approval of program director and research director. Written report required.
Prerequisite: Biotechnology major.
Schedule Type: Individual Investigation
Contact Hours: 2-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

BTEC 40210 CASE STUDIES IN BIOTECHNOLOGY (WIC) 3 Credit Hours
Case studies used to explore biotechnology practice and the application of various technologies in industry and medicine. Emphasis placed on developing problem solving, information gathering, inductive reasoning and technical communication skills.
Prerequisite: BSCI 30140 and BSCI 30156 and BSCI 30171 and BSCI 40158 and BTEC 10210 and CHEM 30284.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

BTEC 40220 BIOINFORMATICS 3 Credit Hours
(Cross-listed with BSCI 40220, BSCI 50220 and BSCI 70220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.
Prerequisite: BSCI 30140 and BSCI 30156 and BSCI 40158.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BTEC 40463 MEDICAL BIOTECHNOLOGY 3 Credit Hours
(Cross-listed with BSCI 40463, BSCI 50463 and BSCI 70463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Business Administration Interdisciplinary (BUS)

BUS 10123 EXPLORING BUSINESS 3 Credit Hours
(Equivalent to BMRT 11000) An introduction to the basic areas of business with an integrated perspective on how the various areas work together. Technological competencies and communicative skills will be developed. Team building opportunities will be announced. This course is open to any major. This course should be taken sometime during student's first 30 semester hours.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BUS 10195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Special topics course that will be offered on a semester basis with different topics and different faculty.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

BUS 20192 INTERNSHIP IN BUSINESS (ELR) 1-3 Credit Hours
(Repeatable for credit) Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BUS 20195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Special topics course that will be offered on a semester basis with different topics and different faculty.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

BUS 20293 VARIABLE TITLE WORKSHOP IN BUSINESS 1-3 Credit Hours
(Repeatable for credit) Variable topics.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

BUS 30062 ADVANCED PROFESSIONAL DEVELOPMENT 3 Credit Hours
This course provides an application of professional skills required in the workplace. Specifically, students are exposed to research and analysis methods that drive evidence-based conclusions; preparation and delivery of business proposals and reports; face-to-face and virtual team-building and team interaction; professionalism in job-seeking and networking techniques; etiquette involved in various messaging technologies; ethical decision making as well as other general business acumen, leadership, negotiation, critical thinking, time and self-management, conflict resolution, providing and receiving constructive feedback, etiquette appropriate attire.
Prerequisite: BUS 10123 and COMM 15000 and UC 10162; and ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BUS 30189 INTERNATIONAL BUSINESS EXPERIENCE (DIVG) (ELR) 3 Credit Hours
This is a two to three week course at an international site that explores business in emerging markets across a full range of functions such as marketing, finance, investment, and business strategies.
Prerequisite: ECON 22060 and ECON 22061; and special approval from instructor.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BUS 30195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Special topics course that will be offered on a semester basis with different topics and different faculty.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

BUS 30234 INTERNATIONAL BUSINESS 3 Credit Hours
Learn how international business is affected by the forces of globalization: opportunities, threats and challenges that ensue from hypercompetition and the institutional checks and balances necessary to prevent complexity deteriorating into chaos.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BUS 40192 INTERNSHIP IN BUSINESS (ELR) 1-3 Credit Hours
(Repeatable for credit) Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.
Prerequisite: Permission.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BUS 40195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Special topics course that will be offered on a semester basis with different topics and different faculty.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

BUS 60092 MBA INTERNSHIP 3 Credit Hours
(Repeatable for credit) Practical experience with a commercial or non-profit organization under the guidance of a member of the graduate faculty. Periodic progress reports are required with a graduate level quality paper and possible presentation at the end of the course. Students should have a minimum cumulative GPA 3.000 and completed 12 hours in the MBA program.
Prerequisite: Minimum overall 3.000 GPA; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 11 other
Grade Mode: Standard Letter

BUS 60095 SPECIAL TOPICS IN BUSINESS ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit)In-depth exposure to selected topics in business administration. Topics will vary depending on instructor and topic of current interest.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BUS 60096 INDIVIDUAL INVESTIGATION 2-3 Credit Hours
(Repeatable for credit) For M.B.A, M.S. or M.A. candidates who have completed a minimum 12 hours of work of superior quality with permission of the director graduate school of management.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-3 other
Grade Mode: Standard Letter

BUS 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

BUS 67093 WORKSHOP IN ADVANCED BUSINESS TOPICS 1-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) Designed for those MBA Graduates who want advanced education in selected areas of business. A variety of topics could be addressed in this workshop. The topics may include business technology, innovation in business, advanced leadership and a variety of other areas of interest.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Standard Letter-S/U

BUS 70095 SPECIAL TOPICS IN BUSINESS ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) In-depth exposure to selected topics in business administration. Topics will vary depending on instructor and topic of current interest.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BUS 70198 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral level students, or master's students with at least 34 hours of graduate coursework.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

BUS 71094 COLLEGE TEACHING 1-2 Credit Hours
(Repeatable for credit) Training, supervision and evaluation in college level instruction. Maximum of 2 hours applicable toward degree.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BUS 80050 RESEARCH DESIGN 3 Credit Hours
Students will become familiar with a variety of research design options that would enable them to test a conceptual model, including survey, experimental and quasi-experimental designs. Students will understand how to choose an appropriate design for their research question and to make informed decisions related to sampling, measure selection, use and study procedures.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

BUS 80052 REGRESSION ANALYSIS 3 Credit Hours
Statistical models for regression are widely used in fields of business. Use of these models requires a fundamental understanding of both the theory and their practical applications to problems. This course balances theory and application and provides several opportunities for application to practical problems.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

BUS 80054 ANALYSIS OF VARIANCE 3 Credit Hours
Analysis of variance models are used to analyze the data generated from experimental designs. Use of these models requires a fundamental understanding of experimental design and how it translates to statistical analysis of simple and interaction effects. This course bridges the link from experimental design to statistical analysis.
Prerequisite: BUS 80050; and BUS 80052 or ECON 72054; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

BUS 80056 STRUCTURAL EQUATION MODELING 3 Credit Hours
Course will provide students with a solid foundation in covariance-based structural equation modeling techniques, and also introduce them to component-based structural equation modeling. After a brief review of relevant concepts from the linear regression and multivariate analysis courses, we will cover structural equation modeling topics such as model specification, identification, estimation, fit and testing of both measurement and structural models. Time is devoted to understanding formative vs. reflective measurement, higher order constructs, mediation and moderation, multi-group analysis and assessing common method bias.
Prerequisite: BUS 80050; and BUS 80052 or ECON 72054; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

BUS 80091 DOCTORAL SEMINAR 1 Credit Hour
(Repeatable for credit) A continuing seminar for all students in a Ph.D. program which cuts across all areas of functional specialization.
Prerequisite: Admission to a PhD program.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

BUS 80095 SPECIAL TOPICS IN BUSINESS ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) In-depth exposure to selected topics in business administration. Topics will vary depending on instructor and topic of current interest.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BUS 80098 RESEARCH 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Usually research applied toward dissertation.
Prerequisite: PhD standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter

BUS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BUS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: BUS 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Business Analytics (BA)

BA 24056 BUSINESS ANALYTICS I 3 Credit Hours
(Equivalent to BMRT 21004) Introduction to concepts in statistical methods and their applications to real world problems. Examines both the theoretical and practical side of the different methods.
Prerequisite: MATH 11010 or MATH 11012 or MATH 12002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

BA 34055 COMPUTER DECISION MODELING 3 Credit Hours
Introduces students to the scientific decision-making tools of operations research and management science, and also to the use of spreadsheet modeling for problem formulation and solution without the need for mathematics. The concepts of modeling and better decision making are stressed along with illustrations from the various functional areas of business. Course not open to computer information systems majors.
Prerequisite: CIS 24053 or IT 11000; and BA 24056 or MATH 10041 or BMRT 21004; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34059 SERVICE OPERATIONS MANAGEMENT 3 Credit Hours
Provide students with the concepts and tools necessary to effectively manage service operations and to prepare students for management opportunities in service firms that represent the fastest-growing sector of the economy. The service management will be presented from an integrated viewpoint with a focus on customer satisfaction. The course materials are organized around four modules (1) understanding services (2) designing the service enterprise, (3) managing service operations and (4) toward world class-service.
Prerequisite: BA 34060; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34060 OPERATIONS MANAGEMENT 3 Credit Hours
A survey course in operations management that covers the managerial concepts and the quantitative tools used in the design, planning operation and control of operations systems.
Prerequisite: CIS 24053 or IT 11000; and BA 24056 or MATH 10041 or BMRT 21004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34064 MANUFACTURING RESOURCE PLANNING 3 Credit Hours
Introduce students to the basic tools operations managers use to inform their decisions on a daily basis. The course involves hands-on coverage of manufacturing resource planning tools, including forecasting and master production schedules, bill of materials structuring, order entry and purchasing, capacity requirements planning, routing, costing, customer service, shipping, invoicing and using an enterprise resource planning (ERP) software.
Prerequisite: BA 34060; and minimum 2.500 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34065 QUALITY ASSURANCE 3 Credit Hours
Introduction to importance of quality assurance and tools used to accomplish better quality in goods and services. Topics TQM, Six Sigma, quality philosophies, sampling plans and statistical process control, ISO, quality competition and awards.
Prerequisite: BA 34060; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34156 BUSINESS ANALYTICS II 3 Credit Hours
Course provides an introduction and application of business analytics to real-world problems. Students are exposed to methods and models that allows business users to make better decisions based on data. Discussed are methods for collecting, cleaning and visualizing data, linear, non-linear and optimization models to help decision makers choose the best decision, and some advanced forms of modeling. The goal of this course is for students to be exposed to essential topics in business analytics and to apply these techniques to real-world problems.
Prerequisite: BMRT 21004 or MATH 10041 or BA 24056.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44011 SYSTEMS SIMULATION 3 Credit Hours
(Slashed with BA 54011) Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulations studies, analysis and interpretation of results.
Prerequisite: BA 24056 or MATH 10041.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44038 ANALYTICS IN PRACTICE 3 Credit Hours
Course focuses on supporting techniques and managerial and professional skills necessary to being an effective business analyst. Other topics include project management, requirements analysis, change management, team dynamics, leadership, ethics and effective communication between all stakeholders.
Prerequisite: BA 34156.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44050 DATA VISUALIZATION 3 Credit Hours
(Slashed with BA 54050) Introduces students to data visualization, and specifically, how to use visualization to communicate information effectively from data. All aspects of effective data visualization, including understanding the context, choosing appropriate graphs and visuals, and communicating the information from data will be considered. While theoretical aspects of effective visualizations will be covered, the focus will be on implementing such designs. Concentrating significantly on the practice of effective visualizations.
Prerequisite: BA 24056 or MATH 10041; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44051 MACHINE LEARNING 3 Credit Hours
Machine Learning is one of the required courses for the Bachelor of Business Analytics (BANA) program. In this course, students learn the fundamentals of machine learning as applied to business problems. Specifically, the course concentrates on regression and classification methods, including regression, random forests, boosting trees, and neural networks, on unsupervised learning including k-means and hierarchical clustering, and on recommendation systems, and ensemble learning.
Prerequisite: BA 34156; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44052 TEXT ANALYSIS AND NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Slashed with BA 54052) Course is designed to provide students with a comprehensive understanding of how to analyze unstructured text data for actionable business insights. The course explores essential techniques in text analytics, ranging from basic Natural Language Processing (NLP) to advanced machine learning and deep learning models. The curriculum covers a variety of topics such as sentiment analysis, text classification, and feature engineering, along with cutting-edge methodologies like topic modeling and transformer models. Furthermore, the course delves into real-world applications of text analytics in various industries, including healthcare, finance and retail. Students will also examine the ethical considerations related to data privacy and bias in text analytics.
Prerequisite: BA 34156.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44061 OPERATIONS MANAGEMENT AND CONTROL 3 Credit Hours
Introduces the student to the key functions of an operations planning and control system. Operations planning and control systems provide information for the efficient flow of materials, the effective utilization of people and equipment and the proper coordination of internal activities with suppliers and customers.
Prerequisite: Minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44062 SUPPLY CHAIN MANAGEMENT 3 Credit Hours
Students learn the basic analytical tools needed to coordinate business operations across the value chain. Course involves hands-on coverage of supply chain management with emphasis on supplier partnering and development, customer relations management, strategic sourcing and pricing, e-business, measuring supply chain performance, mass customization, planning supply and demand coordination in the supply chain.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44065 STRATEGIES IN PRODUCTION AND OPERATIONS MANAGEMENT (WIC) 3 Credit Hours
Senior project in industrial management. Applies concepts from all prior coursework to the solution of real and simulated operating problems.
Prerequisite: Minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

BA 44092 INTERNSHIP IN BUSINESS ANALYTICS (ELR) 3 Credit Hours
(Repeatable for credit) A supervised field experience at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on-the-job experiences.
Prerequisite: BA 34156.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BA 44099 CAPSTONE IN BUSINESS ANALYTICS (ELR) (WIC) 3 Credit Hours
In this culminating project, students draw on the breadth and depth of the curriculum to address an industry supplied problem individually or in small teams. Specifically, students will improve, and present their solutions to their respective stakeholders, who will grade your final presentation and report.
Prerequisite: BA 44051; and senior standing.
Pre/corequisite: BA 44050.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

BA 44152 PROJECT MANAGEMENT 3 Credit Hours
This course covers the fundamental concepts, procedures and processes related to managing projects from initiation through planning, execution and closing. It also introduces the principles, tools and methods used in project management, and the use of project management software (ProjectLibre) in managing projects. The topics covered in the course can be helpful in preparing for Project Management Professional (PMP) certification.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 54038 ANALYTICS IN PRACTICE 3 Credit Hours
Course focuses on supporting techniques and managerial and professional skills necessary to being an effective business analyst. Other topics include project management, requirements analysis, change management, team dynamics, leadership, ethics and effective communication between all stakeholders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 54050 DATA VISUALIZATION 3 Credit Hours
(Slashed with BA 44050) Introduces students to data visualization, and specifically, how to use visualization to communicate information effectively from data. All aspects of effective data visualization, including understanding the context, choosing appropriate graphs and visuals, and communicating the information from data will be considered. While theoretical aspects of effective visualizations will be covered, the focus will be on implementing such designs. Concentrating significantly on the practice of effective visualizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 54052 TEXT ANALYSIS AND NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Slashed with BA 44052) Course is designed to provide students with a comprehensive understanding of how to analyze unstructured text data for actionable business insights. The course explores essential techniques in text analytics, ranging from basic Natural Language Processing (NLP) to advanced machine learning and deep learning models. The curriculum covers a variety of topics such as sentiment analysis, text classification, and feature engineering, along with cutting-edge methodologies like topic modeling and transformer models. Furthermore, the course delves into real-world applications of text analytics in various industries, including healthcare, finance and retail. Students will also examine the ethical considerations related to data privacy and bias in text analytics.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64005 ANALYTICS FOR DECISION MAKING 2 Credit Hours
Course uses computer capabilities to analyze and understand a variety of statistical and business analytics techniques and how to apply these techniques to solving business problems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BA 64018 QUANTITATIVE MANAGEMENT MODELING 3 Credit Hours
A variety of optimization and heuristic modeling techniques are explored. Decision-making environments, model selection, and interpretation are emphasized. Various linear and nonlinear mathematical programming techniques are the primary topic but are supplemented with other optimization and heuristic techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64026 SUPPLY CHAIN MANAGEMENT 2 Credit Hours
Introduces the knowledge base needed to coordinate business operations across firms' supply chains. Addresses how to integrate traditional business operations to align them in support of inter-firm collaboration required to compete globally. It covers specific topics relevant to supply chain management and offers a managerial orientation towards supporting supply chain operations. It immerses students into responsible operations and supply chain best practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BA 64036 BUSINESS ANALYTICS 3 Credit Hours
Overview of business analytics and its appropriate applications in various industries and functional areas. Critical thinking, problem definition, problem solving, effective communication, and leadership are emphasized. Methods such as data visualization and descriptive, predictive, and prescriptive analytics are covered from a broad perspective. This course is applied, hands-on, and case-based. Cases emphasize the communication of quantitative solutions to laypeople and required leadership during decision-making and implementation stages.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64037 ADVANCED DATA MINING AND PREDICTIVE ANALYTICS 3 Credit Hours
Course extends the coverage of data mining and predictive analytics. Topics focus on the applied use of these techniques in realistic settings. Covers statistical and machine learning techniques.
Prerequisite: BA 64036 or BA 64060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64060 FUNDAMENTALS OF MACHINE LEARNING 3 Credit Hours
(Slashed with BA 74060) In this course, students learn fundamentals of machine learning. Specifically, concentrating on classification modelling, segmentation and clustering and recommendation systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64061 ADVANCED MACHINE LEARNING 3 Credit Hours
Introduction to deep learning and time series data analysis. Students consider applications of deep learning to computer vision, text analysis and sequences, and time series data.
Prerequisite: BA 64060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64082 DATABASE MANAGEMENT AND DATABASE ANALYTICS 3 Credit Hours
(Slashed with BA 74082) The design, implementation and management of database management systems within organizations are studied from an applied perspective. Additional emphases include data warehousing, structured query language for analytics and introductions to NoSQL databases and big data analytics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64092 INTERNSHIP IN BUSINESS ANALYTICS 3 Credit Hours
(Repeatable for credit) A supervised field experience at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on-the-job experiences.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

BA 64099 CAPSTONE PROJECT IN BUSINESS ANALYTICS 3 Credit Hours
(Repeatable for credit) In this culminating project, students draw on the breadth and depth of the curriculum to address an industry supplied problem individually or in small teams. Projects will explore prescriptive analytics as is appropriate to their design project.
Prerequisite: BA 64036 or BA 64060; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

BA 74037 ADVANCED DATA MINING AND PREDICTIVE ANALYTICS 3 Credit Hours
(Slashed with BA 64037) Course extends the coverage of data mining and predictive analytics. Topics focus on the applied use of these techniques in realistic settings. Covers statistical and machine learning techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 74060 FUNDAMENTALS OF MACHINE LEARNING 3 Credit Hours
(Slashed with BA 64060) In this course, students learn fundamentals of machine learning. Specifically, concentrating on classification modelling, segmentation and clustering and recommendation systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 74061 ADVANCED MACHINE LEARNING 3 Credit Hours
(Slashed with BA 64061) Introduction to deep learning and time series data analysis. Students consider applications of deep learning to computer vision, text analysis and sequences and time series data.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 74082 DATABASE MANAGEMENT AND DATABASE ANALYTICS 3 Credit Hours
(Slashed with BA 64082) The design, implementation and management of database management systems within organizations are studied from an applied perspective. Additional emphases include data warehousing, structured query language for analytics and introductions to NoSQL databases and big data analytics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Business Management and Related Technologies (BMRT)

BMRT 11000 INTRODUCTION TO BUSINESS 3 Credit Hours
(Equivalent to BUS 10123) Overview of social, economic and consumer environments as related to large and small business. Emphasis is on production, marketing, finance, management and human resources.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 11006 BUSINESS COMPUTATIONS I 3 Credit Hours
Application of algebraic and arithmetic concepts to accounting, finance and marketing. Computation of finance charges, taxes, fundamentals of inventory control and depreciation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 11009 INTRODUCTION TO MANAGEMENT TECHNOLOGY 3 Credit Hours
(Equivalent to MGMT 24163) Study of planning, organizing, directing/leadership, controlling, staffing, decision making, and communication theories and management applications of human and material resources and methods.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21000 BUSINESS LAW AND ETHICS I 3 Credit Hours
(Equivalent to FIN 26074) Introduction to American law as related to government, business, society and the ethical issues that occur in the legal environment. Emphasis is on contract law. Relevant past and current law issues are addressed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21004 BUSINESS ANALYTICS I 3 Credit Hours
(Equivalent to BA 24056) This course is an introduction to concepts in statistical methods and their application to real-world problems. This course will examine both the theoretical and practical side of the different methods. Students will be given ample opportunities to apply the techniques to different real-world programs. The goal of the course is for students to understand fundamental statistical concepts and methods, and their applications.
Prerequisite: MATH 11010 or MATH 11012 or MATH 12002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

BMRT 21008 CASE STUDIES IN MANAGEMENT AND ENTREPRENEURSHIP 3 Credit Hours
Application of management theory to actual business situations. Emphasis on decision making and evaluation of methods and styles of management in all functional areas.
Prerequisite: BMRT 11000 or BMRT 11009 or MGMT 24163 or BUS 10123.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21011 FUNDAMENTALS OF FINANCIAL MANAGEMENT 3 Credit Hours
Understanding basic financial reports for analysis and performance of a business. Preparation of sales forecasts to develop capital and expense budgets.
Prerequisite: ACTT 11000 and IT 11000 or special approval of BMRT faculty.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21020 INTRODUCTION TO ENTREPRENEURSHIP 3 Credit Hours
Provides information about the functional elements of starting a small business. Includes the use of instruments, exercises and case analyses to assess entrepreneurial skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

BMRT 21023 FINANCING THE BUSINESS VENTURE 3 Credit Hours
Course deals with determining capital needs, identifying sources of capital, developing a financial plan and interpreting financial statements. Both public and private loan programs are reviewed.
Prerequisite: BMRT 21020 or special approval of full-time BMRT faculty.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21050 FUNDAMENTALS OF MARKETING TECHNOLOGY 3 Credit Hours
(Equivalent to MKTG 25010) An overview of the process, activities, and problems associated with the conception, planning and execution of pricing, promotion, product and placement of goods and services.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

BMRT 21052 PROFESSIONAL SELLING TECHNIQUES 3 Credit Hours
Study of personal selling as a promotional technique to determine and satisfy the needs of buyers and to build a long-term relationship among all parties.
Prerequisite: BMRT 11000 or special approval of full-time BMRT faculty.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21053 ADVERTISING IN BUSINESS 3 Credit Hours
A practical approach to the study of advertising. Emphasis is on the effective use of the media creating advertising operations and advertising management.
Prerequisite: BMRT 21050 or special approval of BMRT faculty.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21092 INTERNSHIP IN MANAGEMENT TECHNOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Students participate in a supervised educational experience. Each credit hour requires a minimum of seven hours work without pay or 10 hours work with pay per week for 15 weeks.
Prerequisite: Special approval of full-time BMRT faculty.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

BMRT 21095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Special topics in business technology announced when scheduled.
Prerequisite: Special approval from full-time BMRT faculty.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BMRT 21096 INDIVIDUAL INVESTIGATION IN BUSINESS TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Individual study in business and related fields.
Prerequisite: Business Management Technology major; and special approval from full-time BMRT faculty.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BMRT 22000 GLOBAL LOGISTICS 3 Credit Hours
The efficient and effective movement of physical goods from point of origin to point of consumption for consumers, businesses, and other organizations. Key areas of study include inbound and outbound logistics, transportation methods, inventory control, warehousing, material handling, information technology, security, risk, and sustainability.
Prerequisite: BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 22099 CAPSTONE IN LOGISTICS AND SUPPLY CHAIN MANAGEMENT (ELR) 3 Credit Hours
Capstone course in Logistics and Supply Chain Management requiring an in-depth analysis of emerging global issues, both qualitative and quantitative. Case studies, research reports and in-depth investigations are incorporated into the course.
Prerequisite: BMRT 22000; and Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BMRT 31005 PURCHASING AND SUPPLY MANAGEMENT 3 Credit Hours
Investigates the purchasing, planning and logistics functions of supply chain management. Process control, negotiations, quality control, service measurement and other quantitative methods are covered.
Prerequisite: BMRT 11000 or BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 31006 HUMAN RESOURCE MANAGEMENT 3 Credit Hours
The study of contemporary issues of human resources. Covers planning, job design, selection, appraisal, compensation, training, life quality, safety/health, diversity and unions.
Prerequisite: BMRT 11009 or MGMT 24163.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 31009 SEMINAR IN MANAGEMENT AND ENTREPRENEURSHIP 3 Credit Hours
Students of business management technology engage in critical reading, writing and discussion to apply business theory to on-the-job experiences.
Prerequisite: BMRT 11000 or BMRT 11009 or BUS 10123; and ACTT 11000 or ACTT 11001 or ACCT 23020 or 23021 or equivalent.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 32020 LEAN SUSTAINABILITY 1 Credit Hour
A sustainable business is an enterprise that has minimal negative, or a positive impact on Society. Impacts can be environmental, economical, or community based.
Prerequisite: BMRT 11009.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BMRT 36401 APPLICATIONS OF TECHNOLOGY MANAGEMENT SOFTWARE 3 Credit Hours
Combination of computer and business applications for managing technology within an organization. Focus is on using emerging computer software programs for the enhancement of decision making. Course is 2 hours lecture, 1 hour lab.
Prerequisite: BMRT 11000 and IT 12000; or special approval of full-time Applied Business faculty.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

BMRT 36415 CUSTOMER SERVICE 3 Credit Hours
Analysis and definition of customer satisfaction with an emphasis on quality customer service that includes techniques for assessing company service efforts and developing customer satisfaction programs.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 40092 PRACTICUM IN APPLIED BUSINESS AND TECHNOLOGY (ELR) 1-4 Credit Hours
(Repeatable for a maximum of 4 credit hours) On sight internship or a project with a business or technology related organization approved by the Instructor.
Prerequisite: Junior standing and special approval.
Schedule Type: Field Experience, Practical Experience
Contact Hours: 7-28 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BMRT 40096 INDIVIDUAL INVESTIGATION IN BUSINESS AND TECHNOLOGY 1-4 Credit Hours
(Repeatable for a maximum of 4 credit hours) Perform an individual project or research assignment as approved by the instructor.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 7-28 other
Grade Mode: Standard Letter

BMRT 46295 SPECIAL TOPICS IN APPLIED BUSINESS 2-3 Credit Hours
(Repeatable for credit) Specialized advance instruction oriented primarily to applied business topics. Topics will vary and will be announced as scheduled.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter

BMRT 46409 STRATEGIC MANAGEMENT OF TECHNOLOGY AND INNOVATION 3 Credit Hours
An examination using case studies and readings of the management of technology and innovation through perspectives at the product line, business unit and corporate levels.
Prerequisite: BMRT 21050 and BMRT 21011; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 46418 LABOR STUDIES IN TECHNOLOGY 3 Credit Hours
This course will include the history of the labor movement, interrelationships of labor with business and industry, labor law, contemporary labor problems that emphasizes how unions are organized, contracts, arbitration and management issues.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Career and Community Studies (CCS)

CCS 00010 INDEPENDENT LIVING SKILLS I 3 Credit Hours
This class helps students identify their strengths, preferences, interests and needs regarding independent living. Students set goals and practice skills that will help them be more successful in managing their adult lives. This class focus is on areas of independent living related to personal health and nutrition.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00015 SELF-ADVOCACY: DISABILITY AWARENESS AND THE LAWS 3 Credit Hours
This course promotes development of self-awareness through identifying characteristics of a person's disability, and how it affects a person academically, socially, and at work.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00020 APPLYING TECHNOLOGY 1 Credit Hour
This course is an introduction to the uses of Flashline, Canvas or other Learning Management System (LMS), and applications such as Microsoft Word to enhance student skills with technology applications.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00025 MANAGING MONEY IN COLLEGE 1 Credit Hour
This introductory course will provide the student with an opportunity to develop attitudes and skills to manage their money and expenses while in college. Topics include how to set up a budget, considering where one might save money in daily living, managing expenses, understanding Flashcash, Meal Swipes and Spend Down Accounts.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00035 SELF-ADVOCACY: COMMUNICATION SKILLS 3 Credit Hours
Effective communication enhances personal, family, and community health. Select personal and social skills are presented in order to improve the health of the student. The student will participate in activities that allow them to practice and perform skills in work and in their personal lives.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00105 INTRODUCTION TO JOB EXPLORATION 1 Credit Hour
The student will be introduced to the world of work and begin the first step towards finding employment that will be rewarding for them and that will match their strengths, preferences, interests and needs.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00110 INDEPENDENT LIVING SKILLS II 3 Credit Hours
Students will identify independent living skills required to set and reach short- and long-term goals. Students will reflect on and apply their strengths, preferences, interests, and needs as they make plans for adult life.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00115 SELF-ADVOCACY AND SELF-DETERMINATION 3 Credit Hours
This course will provide students with opportunities to recognize and develop skills that can help them to increase success in all areas of their lives. Persons who are more self-determined often experience academic, employment, community living and personal satisfaction.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00120 PERSON-CENTERED PLANNING: FRESHMAN 1 Credit Hour
Students will create and present a Person-Centered Plan (PCP). A PCP is an individualized way of helping the student to achieve their goals, get the life they want for themselves, identify supports that may be needed, and help them reach their vision of a good life.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00135 SELF-ADVOCACY: HUMAN RELATIONSHIPS 3 Credit Hours
Students will learn of different types of relationships and how to advocate and communicate wants and needs in various types of relationships.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00145 DEVELOPING PROFESSIONAL SKILLS: FRESHMAN 3 Credit Hours
(Repeatable for credit) This course is designed to teach students how to successfully manage all areas of one's life. It is important to know how to prioritize social and personal responsibilities to complete tasks in a competent manner.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00205 JOB EXPLORATION I 3 Credit Hours
This course begins the process of the student identifying an employment pathway by completing interest inventories to identify occupational interests, establishing membership to job exploration tools, researching local labor market information, exploring Job Seekers Guide on OhioEmploymentFirst.org or other tools that aid the student as they make important employment decisions.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00206 JOB EXPLORATION II 3 Credit Hours
The purpose of this course is to help the student to narrow employment possibilities and to identify the occupation of their choice. The course provides information regarding work settings, work duties, personnel, shifts, expectations, accommodations, and appropriate behaviors at work. The student will begin to identify their network of people who can help them achieve future employment goals.
Prerequisite: CCS 00205; and Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00220 PERSON-CENTERED PLANNING: SOPHOMORE 1 Credit Hour
Each year a student completes a person-centered planning presentation to share with their support team. The student provides information on what they are or have learned this academic year, goals being worked on or accomplished and future plans. The student creates a Microsoft Power Point, or other form of presenting in order to connect knowledge and learning experiences for student success.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00235 SELF-ADVOCACY: INDEPENDENT LIVING AND INJURY PREVENTION 3 Credit Hours
Students will learn independent living skills related to injury prevention and safety in adult life.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00245 DEVELOPING PROFESSIONAL SKILLS: SOPHOMORE 3 Credit Hours
(Repeatable for credit) This course is designed to teach strategies to successfully manage all areas of one's life. It is important to know how to prioritize work, social and personal responsibilities so one can make connections and communicate appropriately to those with whom they work, live and interact with.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00292 WORK EXPERIENCE: SOPHOMORE 3 Credit Hours
(Repeatable for credit) This course provides the student with the opportunity to identify supports needed to achieve more independence in a work environment.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CCS 00306 EMPLOYMENT READINESS I 3 Credit Hours
This course prepares the student for entering the work force by addressing professional skills such as teamwork, networking, safety, personal skills, work ethic, responsibility, time management, interview skills, creating a resume and filling out a job application.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00307 EMPLOYMENT READINESS II 3 Credit Hours
This course is designed to continue to prepare the student for entering into the work force by expanding interview skills, creating documents used to acquire employment and learning how to fill out a job application.
Prerequisite: CCS 00306; and Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00320 PERSON-CENTERED PLANNING: JUNIOR 1 Credit Hour
Each year a student completes a person-centered planning presentation to share with their support team. The student provides updated information on what they are learning, goals being worked on or accomplished and future plans. The student creates a Microsoft Power Point, or other form of presenting in order to connect knowledge and learning experiences for student success.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00335 SELF-ADVOCACY: HEALTHY LIVING 3 Credit Hours
This course will support behavior that encourages students to make responsible choices for lifelong health, wellness, and life satisfaction.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00345 DEVELOPING PROFESSIONAL SKILLS: JUNIOR 3 Credit Hours
(Repeatable for credit) This course supports the student as they advance skills in learning strategies, critical thinking, problem-solving, and study skills; and as they apply skills to tasks that prepares for a specific employment interest. The student practices effective communicate through reading, writing, and speaking while completing tasks and projects.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00392 WORK EXPERIENCE: JUNIOR 4 Credit Hours
(Repeatable for credit) This course provides the student with opportunities to gain skills in the occupation of choice in order to prepare for satisfying employment as an adult. This allows for the student to evaluate the fit to help to ensure that they have chosen wisely.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Standard Letter

CCS 00410 EMPLOYMENT CERTIFICATIONS 3 Credit Hours
This course guides the student as they prepare for employment by completing online employment certifications that apply to employment interests. The student will set goals on skills development, research and completion of certificates.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00425 MANAGING MONEY AFTER COLLEGE 1 Credit Hour
This course will provide the student with a more detailed opportunity to reflect on one's desire and ability to manage money in adult life to achieve personal financial wellness and satisfaction. Topics include earning and saving money, how to calculate wages and understanding federal, state and local taxes and establishing a realistic budget that will help the student to transition into adult life.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00445 DEVELOPING PROFESSIONAL SKILLS: SENIOR 1 Credit Hour
This course supports the student as they advance skills in learning strategies, critical thinking, problem-solving, and study skills; and as they apply skills to coursework that prepares for a specific career interest. The student practices effective communicate through reading, writing and speaking while completing assignments and projects.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00492 WORK EXPERIENCE: SENIOR 1-12 Credit Hours
(Repeatable for credit) The work experience internship occurs in on- or off-campus settings and provides an environment to practice specific occupational knowledge, skills and professional behaviors.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Practical Experience
Contact Hours: 3-36 other
Grade Mode: Standard Letter

CCS 00499 PERSON-CENTERED PLANNING: SENIOR 3 Credit Hours
(Repeatable for credit) The student will develop two valuable resources to aid in the transition back to their community. One is a portfolio that contains projects that will serve as resource guides. The second is a Person-Centered Plan that identifies past, present and future skills and goal development.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

CCS 01095 SPECIAL TOPICS: FRESHMAN LECTURE 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCS 01195 SPECIAL TOPICS: FRESHMAN LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Laboratory
Contact Hours: 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 01295 SPECIAL TOPICS: FRESHMAN COMBINED LECTURE AND LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-4 lecture, 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 02095 SPECIAL TOPICS: SOPHOMORE LECTURE 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCS 02195 SPECIAL TOPICS: SOPHOMORE LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Laboratory
Contact Hours: 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 02295 SPECIAL TOPICS: SOPHOMORE COMBINED LECTURE AND LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-4 lecture, 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 03095 SPECIAL TOPICS: JUNIOR LECTURE 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCS 03195 SPECIAL TOPICS: JUNIOR LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Laboratory
Contact Hours: 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 03295 SPECIAL TOPICS: JUNIOR COMBINED LECTURE AND LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-4 lecture, 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 04095 SPECIAL TOPICS: SENIOR LECTURE 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCS 04195 SPECIAL TOPICS: SENIOR LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Laboratory
Contact Hours: 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 04295 SPECIAL TOPICS: SENIOR COMBINED LECTURE AND LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-4 lecture, 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

Career and Technical Teacher Education (CTTE)

CTTE 36014 EVALUATION PRACTICES IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Study and construction of evaluation devices for use in laboratory and related technology courses,test construction, standardized and nonstandardized test procedures. This course includes 10 field/clinical hours.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 40093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with CTTE 50093 and CTTE 70093) Topics of special interest to students desiring to intensify their knowledge in a particular area of career technical education.
Prerequisite: Department permission.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 44092 IN-SERVICE TEACHING - PRACTICUM (ELR) 2 Credit Hours
(Slashed with CTTE 54092) This course provides an overview of/and practice in the concepts necessary to plan, organize and implement meaningful instruction in the laboratory and related classroom. The course provides an opportunity for students to apply classroom management skills as they get one-on-one support from the teacher educators.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 36 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CTTE 44099 IN-SERVICE TEACHING - CAPSTONE (ELR) 1 Credit Hour
(Slashed with CTTE 54099) The capstone course provides students an opportunity to demonstrate their knowledge and growth as a career technical education teacher; it essentially provides an opportunity for students to show how they integrate and apply knowledge from their career technical education licensure courses into their responsibilities as teachers. The course will assess the extent to which the students meet the Ohio Standards for the Teaching Profession, through an electronic portfolio and instructional videos from the student as evidence.
Prerequisite: None.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

CTTE 45372 ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS 3 Credit Hours
(Slashed with CTTE 55372) Exploration of issues and trends unique to specific career technical education subjects.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 45377 CAREER AND TECHNICAL EDUCATION: ADVANCED METHODOLOGIES 3 Credit Hours
Selection, organization and presentation of subject matter pertaining to specific subjects in career and technical education. Emphasis on methods and techniques through theory and practice. Course includes 30 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46015 METHODS OF CAREER AND TECHNICAL EDUCATION 3 Credit Hours
(Slashed with CTTE 56015) Organization and management of classroom and laboratory; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46017 STUDENT-CENTERED LEADERSHIP IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Study of the role of leadership and youth organizations in Career Technical Education with emphasis on the organization and purpose of student leadership and the role of the advisor related to leadership in career technical education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46018 DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION (WIC) 3 Credit Hours
(Slashed with CTTE 56018) Developing an understanding of disadvantaged youth stressing their characteristics as they pertain to career technical education program. This course is restricted to Trade & Industrial majors, students registered in the undergraduate Career-Technical Teacher certificate, of those working on a Career-Based Interventnion endorsement.
Prerequisite: Trade and Industrial Education majors or Career-Technical Teacher Education (C205) certificate.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

CTTE 46019 COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS 3 Credit Hours
(Slashed with CTTE 56019) Reviews duties, problems, techniques of home, school and work coordination. Internship site selection, job development, servicing the job station, coordinating classroom and work experience. A study of important linkage to local business/industry and education support agencies for career and technical development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46020 CURRICULUM GUIDE: DESIGN AND APPLICATION 3 Credit Hours
Methods and techniques involved in developing and utilizing a curriculum guide in career and technical education subjects. This course includes 15 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46095 SPECIAL TOPICS IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in career-technical education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CTTE 46096 INDIVIDUAL INVESTIGATION IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CTTE 56096) An individual investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.
Prerequisite: None.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 50093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with CTTE 40093 and CTTE 70093) Topics of special interest to students desiring to intensify their knowledge in a particular area or areas of career technical education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 54092 IN-SERVICE TEACHING - PRACTICUM 2 Credit Hours
(Slashed with CTTE 44092) This course provides an overview of/and practice in the concepts necessary to plan, organize and implement meaningful instruction in the laboratory and related classroom. The course provides an opportunity for students to apply classroom management skills and as they get one-on-one support from the teacher educators.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Standard Letter

CTTE 54099 IN-SERVICE TEACHING - CAPSTONE 1 Credit Hour
(Slashed with CTTE 44099) The capstone course provides students an opportunity to demonstrate their knowledge and growth as a career technical education teacher; it essentially provides an opportunity for students to show how they integrate and apply knowledge from their career technical education licensure courses into their responsibilities as teachers. The course will assess the extent to which the students meet the Ohio Standards for the Teaching Profession, through an electronic portfolio and instructional videos from the student as evidence.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 55372 ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS 3 Credit Hours
(Slashed with CTTE 45372) Exploration of issues and trends unique to specific career-technical education subjects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 55377 CAREER AND TECHNICAL EDUCATION: ADVANCED METHODOLOGIES 3 Credit Hours
(Slashed with CTTE 45377) Selection, organization and presentation of subject matter pertaining to specific subjects in career and technical education. Emphasis on methods and techniques through theory and practice. Course includes 30 field clinical hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56002 IN-SERVICE TEACHING 3 Credit Hours
(Slashed with CTTE 46002) Overview of teaching process in career technical teacher education. Emphasizes techniques of skill development and assessment, includes organizing for instruction, individual behavior, organizational relationships and application steps.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56015 METHODS OF CAREER AND TECHNICAL EDUCATION 3 Credit Hours
(Slashed with CTTE 46015) Organization and management of classroom and laboratory; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56017 STUDENT-CENTERED LEADERSHIP IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Study of the role of leadership and youth organizations in Career Technical Education with emphasis on the organization and purpose of student leadership and the role of the advisor related to leadership in career technical education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56018 DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION 3 Credit Hours
(Slashed with CTTE 46018) Developing an understanding of disadvantaged youth stressing their characteristics as they pertain to career technical education programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56019 COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS 3 Credit Hours
(Slashed with CTTE 46019) Reviews duties, problems, techniques of home, school and work coordination. Internship site selection, job development ,servicing the job station, coordinating classroom and work experience. A study of important linkage to local business/ industry and education support agencies for career and technical development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56020 CURRICULUM GUIDE: DESIGN AND APPLICATION 3 Credit Hours
(Slashed with CTTE 46020) Methods and techniques involved in developing and utilizing a curriculum guide in career and technical education subjects. This course includes 15 field clinical hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56095 SPECIAL TOPICS IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Specialized offerings in response to emerging or selected program needs in career-technical education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CTTE 56096 INDIVIDUAL INVESTIGATION IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CTTE 46096) An individual investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CTTE 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CTTE 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CTTE 66001 PRINCIPLES AND PRACTICES IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Study of principles, current practices and trends relating to modern programs of career technical education and relationships to the total plan of public education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 66003 ANALYSIS OF HUMAN RESOURCE DEVELOPMENT 3 Credit Hours
Provides analysis of human resource development from global,national state and local perspectives including social economic political and emo graphic influences. Includes the application of the contemporary workforce to engage in life long learning to keep career and technical skills updated.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 66004 PROGRAM EVALUATION IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Designed to provide the skills and knowledge necessary to evaluate the effectiveness and efficiency of career-technical education curriculum programs personnel.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 66005 SPECIAL POPULATIONS IN CAREER TECHNICAL EDUCATION 3 Credit Hours
A study of the special populations student in career technical education programs emphasizing characteristics, curriculum modification, instruction and job placement.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 66095 SPECIAL TOPICS IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Specialized offerings in response to emerging or selected program needs in career-technical education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CTTE 66096 INDIVIDUAL INVESTIGATION IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CTTE 76096) An investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 70093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with CTTE 40093 and CTTE 50093) Topics of special interest to students desiring to intensify their knowledge in a particular area or areas of career technical education.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 76095 SPECIAL TOPICS IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Specialized offerings in response to emerging or selected program needs in career-technical education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CTTE 76096 INDIVIDUAL INVESTIGATION IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CTTE 66096) An investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 86098 ADVANCED RESEARCH IN CAREER-TECHNICAL EDUCATION 1-15 Credit Hours
(Repeatable for credit)Student pursues an individual research project on a specialized career technical education topic with approval and under the direction of an instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Chemistry (CHEM)

CHEM 00020 INTRODUCTION TO CHEMISTRY 2 Credit Hours
Problem-based introduction to the fundamentals of chemistry including significant figures, unit conversions, measurement, structure of matter, energy, composition of matter, atomic structure, the periodic table, introduction to bonding, and the formulas and names of both ionic and covalent compounds. Course does not count toward graduation.
Prerequisite: Math ACT score of 18; or ALEKS math assessment score of 45; or minimum C grade in any MATH course.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 10030 CHEMISTRY IN OUR WORLD (KBS) 3 Credit Hours
A course for non-science majors that utilizes environmental and consumer topics to introduce chemical principles and develop critical-thinking skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

CHEM 10031 CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB) 1 Credit Hour
Discovery-based experiments to introduce chemical principles and develop critical-thinking skills. A course for non-science majors; includes chemistry that is related to environmental and consumer issues.
Pre/corequisite: CHEM 10030.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) 3 Credit Hours
Basic concepts of chemistry (including atomic structure, chemical bonding and reactions) necessary for courses in elementary organic chemistry and physiological chemistry. Students may only receive credit toward graduation for one of the following: CHEM 10050; or CHEM 10060 and CHEM 10061; or CHEM 10970 and CHEM 10971.
Prerequisite: Minimum 16 ACT math score or MATH 10675 or MATH 11009 or MATH 11010 or MATH 11012 or MATH 12002 or MATH 12011 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

CHEM 10055 MOLECULES OF LIFE (KBS) 3 Credit Hours
An integrated introduction to molecular systems and their participation in the processes of life.
Pre/corequisite: MATH 10040 or MATH 10041 or MATH 10772 or MATH 10775 with a minimum C grade or any course between MATH 11009 to MATH 49998; or minimum 55 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences

CHEM 10058 GENERAL CHEMISTRY FOR LIFE SCIENCES I 4 Credit Hours
This is a chemistry course for non-chemistry majors and those who are not on the premed/pre-pharm track. It focuses on fundamental concepts and the development of problem-solving strategies. Students are introduced to a variety of concepts in modern chemistry, emphasizing stoichiometry, introduction to chemical reactions, thermochemistry, periodicity, molecular structure, chemical bonding and behavior of gases. Classroom time is divided into lectures, discussions and problem-solving activities to enable students to develop foundational knowledge. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10058 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Prerequisite: MATH 10675 or MATH 10772 with a minimum C grade; or a pre/co-requisite of MATH 10775 or MATH 11009 or MATH 11010 and minimum 45 ALEKS math score.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 10059 GENERAL CHEMISTRY FOR LIFE SCIENCES II 4 Credit Hours
Continuation of CHEM 10058, emphasizing intermolecular forces, properties of mixtures, kinetics, equilibrium, main group chemistry, acid-base chemistry, thermodynamics and electrochemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10059 or CHEM 10061 or CHEM 10971.
Prerequisite: Minimum C grade in the following courses: CHEM 10058 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 10060 GENERAL CHEMISTRY I (KBS) 4 Credit Hours
(Equivalent to CHEM 11060) This course is a college-level chemistry course for science majors, focusing on fundamental concepts and the development of problem-solving strategies and critical thinking. Students will be introduced to a variety of concepts in modern chemistry, emphasizing stoichiometry, introduction to chemical reactions, thermochemistry, atomic structure, periodicity, molecular structure, chemical bonding, and behavior of gases. Classroom time will be divided into lectures, discussions, and problem-solving activities to enable students to develop both foundational knowledge and analytical skills. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Prerequisite: Minimum 67 ALEKS math score or higher; or ACT MATH score of 27 or higher; or minimum C grade in the following courses: MATH 11010 or MATH 10775 or MATH 10675 or MATH 11009 or MATH 10772.
Pre/corequisite: MATH 11022 or MATH 12002 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science

CHEM 10061 GENERAL CHEMISTRY II (KBS) 4 Credit Hours
Continuation of CHEM 10060, emphasizing intermolecular forces, properties of mixtures, main group chemistry, kinetics, equilibrium, acid-base chemistry, thermodynamics and electrochemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10061 or CHEM 10971.
Prerequisite: Minimum C grade in either CHEM 10060 or CHEM 10970 or CHEM 11060.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science

CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) 1 Credit Hour
Laboratory covering pertinent aspects of CHEM 10060.
Pre/corequisite: CHEM 10058 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB) 1 Credit Hour
Laboratory covering pertinent aspects of CHEM 10061, including qualitative analysis.
Prerequisite: CHEM 10062.
Pre/corequisite: CHEM 10059 or CHEM 10061 or CHEM 10971.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

CHEM 10970 HONORS GENERAL CHEMISTRY I (KBS) 4 Credit Hours
Rigorous general chemistry course for qualified students. Stoichiometry, equilibrium, thermochemistry, atomic structure and chemical bonding, descriptive inorganic and nuclear chemistry.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences

CHEM 10971 HONORS GENERAL CHEMISTRY II (KBS) 4 Credit Hours
A continuation of CHEM 10970. Topics include properties of mixtures, properties of the elements, periodic patterns, organic compounds, kinetics, equilibrium, thermodynamics and electrochemistry.
Prerequisite: Minimum C grade in CHEM 10970.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences

CHEM 11060 GENERAL CHEMISTRY I BOOST (KBS) 6 Credit Hours
(Equivalent to CHEM 10060) This course is a college-level chemistry course for science majors with extended time devoted to fundamental concepts and the development of problem-solving strategies and critical thinking. Students will be introduced to a variety of concepts in modern chemistry, emphasizing stoichiometry, introduction to chemical reactions, thermochemistry, atomic structure, periodicity, molecular structure, chemical bonding, and behavior of gases. This course includes 5 lecture sessions and 1 recitation session. Classroom time will be divided into lectures, discussions, and problem-solving activities to enable students to develop both foundational knowledge and analytical skills. Recitation sessions will include problem-solving with an emphasis on developing core skills. The endpoint of this course is identical to that of CHEM 10060. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Prerequisite: ALEKS math score of 45 or higher and a pre/co-requisite of MATH 11010 or MATH 10775 or MATH 11009; or a prerequisite of MATH 10675 with a minimum C grade or MATH 10772 with a minimum C grade.
Schedule Type: Lecture, Recitation
Contact Hours: 5 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences

CHEM 20095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Selected topics in chemistry.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 20098 INTRODUCTION TO CHEMICAL RESEARCH (ELR) 1-3 Credit Hours
Research experience for freshmen and sophomores. Registration requires prior approval of the research director. Does not count toward the electives for the BS or BA chemistry degree. A written report is required.
Prerequisite: Minimum overall 2.500 GPA in Chemistry and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CHEM 20481 BASIC ORGANIC CHEMISTRY I 4 Credit Hours
Survey of the structure, preparation and reactions (including mechanisms) of organic compounds emphasizing the chemistry of biologically important functional groups. Students may only receive credit toward graduation for one of the following courses: CHEM 10055 or CHEM 20481 or CHEM 30481.
Prerequisite: Minimum C grade in the following courses: CHEM 10059 or CHEM 10061 or CHEM 10971.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 20482 BASIC ORGANIC CHEMISTRY II 2 Credit Hours
Continuation of CHEM 20481, emphasizing the chemistry of functional groups prevalent in biological chemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10055 or CHEM 20482 or CHEM 30482.
Prerequisite: Minimum C grade in CHEM 20481.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 30051 CAREER PATHWAYS IN CHEMISTRY 1 Credit Hour
Designed to introduce students to the wide range of career pathways available in chemistry. Students learn different strategies for identifying and pursuing career opportunities, and develop their communication skills through writing assignments and oral presentations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 30105 ANALYTICAL CHEMISTRY I 3 Credit Hours
Covers the fundamental theory, experimental methods, and applications of analytical chemistry principles in chemistry as well as other related disciplines such as life sciences and environmental science. It covers analytical measurements, experimental error, statistics, chemical equilibrium and titration, spectrometry as well as analytical separation techniques.
Prerequisite: CHEM 10061 or CHEM 10971.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 30106 ANALYTICAL CHEMISTRY II 2 Credit Hours
Covers the theoretical basis and experimental methods of analytical chemistry not considered in Analytical Chemistry I (CHEM 30105), such as noise reduction, advanced chemical equilibria and titrations, electrochemistry, atomic spectroscopy, instrumental design, and sample preparation.
Prerequisite: CHEM 30105.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 30107 ANALYTICAL CHEMISTRY LABORATORY I (WIC) 1 Credit Hour
Fundamental laboratory class for analytical chemistry. Provides hands-on experience to students on the subjects including data treatment, volumetric analysis, spectrophotometry, separation techniques and mass spectroscopy.
Prerequisite: CHEM 10063.
Pre/corequisite: CHEM 30105.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

CHEM 30108 ANALYTICAL CHEMISTRY LABORATORY II (WIC) 2 Credit Hours
Advanced analytical chemistry laboratory class which covers a broad range of modern analytical techniques, including ion-selective electrodes, voltammetry, atomic spectroscopy, mass-spectrometry and capillary electrophoresis. Unlike Analytic Chemistry Laboratory I (CHEM 30107) this class focuses on forensic rather than bioanalytical applications.
Prerequisite: CHEM 30105.
Pre/corequisite: CHEM 30107.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY 4 Credit Hours
Chemistry and metabolism of biochemically important compounds; nature of enzyme action; metabolic regulation and bioenergetics.
Prerequisite: CHEM 20481; or CHEM 30481 and CHEM 30482.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 30301 INORGANIC CHEMISTRY I 3 Credit Hours
Chemistry of hydrogen, ions in aqueous solution, redox reactions, coordination complexes: d-block chemistry, crystal field model, electronic spectra and magnetism, introduction to organometallic chemistry, periodic trends for p-block elements.
Prerequisite: CHEM 10061 or CHEM 10971.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 30475 ORGANIC CHEMISTRY LABORATORY I (ELR) 1 Credit Hour
Practical experience in organic laboratory techniques on both micro- and macroscale: physical methods for purification and characterization of organic compounds, introduction to organic reactions.
Prerequisite: CHEM 10063.
Pre/corequisite: CHEM 20481 or 30481.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, TAG Science

CHEM 30476 ORGANIC CHEMISTRY LABORATORY II 1 Credit Hour
Continuation of CHEM 30475, involving multi-step organic experiments that utilize techniques introduced in CHEM 30475.
Prerequisite: CHEM 30475.
Pre/corequisite: CHEM 20482 or 30482.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 30481 ORGANIC CHEMISTRY I 3 Credit Hours
Introduction to organic chemistry from structural, mechanistic and synthetic viewpoints with an emphasis on the chemistry of biologically relevant functional groups. Students may only receive credit toward graduation for one of the following courses: CHEM 10055 or CHEM 20481 or CHEM 30481.
Prerequisite: Minimum C grade in CHEM 10061 or CHEM 10971.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 30482 ORGANIC CHEMISTRY II 3 Credit Hours
Continuation of CHEM 30481; organic chemistry from mechanistic and synthetic viewpoints; IR and NMR spectroscopy; mass spectrometry. Students may only receive credit toward graduation for one of the following courses: CHEM 10055 or CHEM 20482 or CHEM 30482.
Prerequisite: Minimum C grade in CHEM 30481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 40092 INTERNSHIP IN CHEMISTRY AND BIOCHEMISTRY (ELR) 1-9 Credit Hours
(Repeatable for credit) Workplace experience in chemistry or biochemistry relevant to a student's career objectives. Includes career advising and job search strategies. Comprehensive written report and presentation of activities required after completion of internship.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CHEM 40093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours
(Repeatable for credit) Variable titled workshop in chemistry.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CHEM 40099 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours
(Repeatable for credit)For departmental honors may be started summer prior to senior year. Register each semester during senior year. Minimum total credit 5-hours.
Prerequisite: Departmental and honors college approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 1-10 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

CHEM 40109 BIOANALYTICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50109 and CHEM 70109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. Provides an overview of the fundamental biological targets for bioanalytical assays, such as lipids, peptides, proteins, nucleic acids and cells. Briefly introduces traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Discusses approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.
Prerequisite: CHEM 30105.
Pre/corequisite: CHEM 30284 or CHEM 40245 or CHEM 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40113 CHEMICAL SEPARATIONS 3 Credit Hours
(Cross-listed with CHEM 50113 and CHEM 70113) Theory, instrumentation and applications of chemical separations for chemical analysis with an emphasis on gas and liquid chromatography.
Prerequisite: CHEM 30106.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40115 APPLICATIONS OF SPECTROSCOPY AND IMAGING 3 Credit Hours
(Slashed with CHEM 50115 and CHEM 70115) This course covers the fundamentals of optics, recent developments in spectroscopy and microscopy and their applications in chemistry. Included are methods of optical microscope-based spectroscopy and imaging in relation to analytical chemistry, biochemistry and polymer chemistry research; such as principles and applications of fluorescence spectroscopy, atomic force microscopy, optical tweezer and patch clamp.
Prerequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40195 SPECIAL TOPICS IN ANALYTICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50195 and CHEM 70195) (Repeatable for credit) In depth examination of current topics in analytical chemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40245 BIOCHEMICAL FOUNDATIONS OF MEDICINE 4 Credit Hours
(Slashed with CHEM 50245) Chemistry and metabolism of biologically important compounds; enzyme catalysis; metabolic regulation, inborn and induced errors of metabolism. Does not count toward the B.S. Biochemistry major.
Prerequisite: CHEM 30481.
Pre/corequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 40248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50248 and CHEM 70248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.
Prerequisite: CHEM 30284 or CHEM 40245.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40251 ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC) 2 Credit Hours
Practical experience in the characterization of biomolecules; recombinant DNA technology; electrophoretic separation of macromolecules, affinity purification; mass spectrometric approaches; protein folding; RNA structure, interactions and catalytic mechanisms.
Pre/corequisite: CHEM 40262.
Schedule Type: Lecture
Contact Hours: 6 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

CHEM 40261 BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION 3 Credit Hours
(Slashed with CHEM 50261 and CHEM 70261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphasis on enzymes, membranes and bioenergetics.
Prerequisite: CHEM 20481 or CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40262 BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION 3 Credit Hours
(Slashed with CHEM 50262 and CHEM 70262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, post-translational modification.
Prerequisite: CHEM 30284 OR CHEM 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40263 PHYSICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 50263 and CHEM 70263) Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems, spectroscopy, structure and properties of biological molecules.
Prerequisite: CHEM 40555 or CHEM 40567; and CHEM 30284 or CHEM 40245 or CHEM 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40264 MEDICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 50264 and CHEM 70264) The course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.
Prerequisite: CHEM 40262 or BSCI 40143.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40295 SPECIAL TOPICS IN BIOCHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50295 and CHEM 70295) (Repeatable for credit) In depth examination of current topics in biochemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40302 INORGANIC CHEMISTRY II 2 Credit Hours
(Slashed with CHEM 50302) Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nanomaterials, nanoscience and nanotechnology.
Prerequisite: CHEM 30301.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 40303 INORGANIC CHEMISTRY III 2 Credit Hours
(Slashed with CHEM 50303) Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedra complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends of Groups 1 and 2 and d-block, bioinorganic chemistry.
Prerequisite: CHEM 40302.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 40352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50352 and CHEM 70352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.
Prerequisite: CHEM 40302.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40364 INTERMEDIATE INORGANIC CHEMISTRY LAB 1 Credit Hour
A laboratory course providing experience in the synthesis of significant inorganic compounds and the techniques of various experimental and spectroscopic methods and chromatographic separations.
Prerequisite: CHEM 40302.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

CHEM 40365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50365 and CHEM 70365) Physical methods, s-block metals, metal ion-induced folding, electron transfer proteins, oxidoreductases, substrate binding and activation by non-redox mechanisms, biomineralization, group-atom transfer and metals in medicine.
Prerequisite: CHEM 30301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40395 SPECIAL TOPICS IN INORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50395 and CHEM 70395) (Repeatable for credit) In depth examination of current topics in inorganic chemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50451 and CHEM 70451) Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials.
Prerequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours
(Slashed with CHEM 50476 and CHEM 70476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR, and mass spectrometric data through lectures and problem solving.
Prerequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 40477 INTERMEDIATE ORGANIC CHEMISTRY LABORATORY 1 Credit Hour
(Slashed with CHEM 50477) Continuation of CHEM 30476, including hands-on use of a high-field NMR spectrometer; single and multistep organic syntheses.
Prerequisite: CHEM 30476 and CHEM 40483.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

CHEM 40483 INTERMEDIATE ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 50483 and CHEM 70483) Continuation of CHEM 30482; organic chemistry from mechanistic and synthetic viewpoints, including synthetic design, organotransition metal chemistry and free radical chemistry.
Prerequisite: CHEM 30482 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CHEM 40485 PHYSICAL ORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50485 and CHEM 70485) This course presents a modern view of organic chemistry through the study of organic reaction mechanisms, advanced chemical bonding theories, high-energy intermediates and reactivity patterns common to organic chemical reactions. Emphasis is placed on synthetic organic chemistry with a focus on chemical structure, reactivity, chemical kinetics, thermodynamics, physical and chemical behavior and reaction mechanisms. Central to these investigations is understanding the use of molecular spectroscopy and molecular modeling software as investigative tools. A specific goal of this course is to introduce students to concepts necessary to solving mechanistic organic problems encountered in the research laboratory. The course covers common organic reaction mechanisms, experimental techniques and theoretical approaches to understanding reaction mechanisms. All topics are approached from a structural and mechanistic perspective. Emphasis is also placed on the importance of organic chemistry in biochemical systems. Classroom time is divided into lectures, discussions and problem solving sessions to enable students to develop both advanced knowledge and problem solving skills in organic chemistry.
Prerequisite: Minimum C grade in CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40495 SPECIAL TOPICS IN ORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50495 and CHEM 70495) (Repeatable for credit) In depth examination of current topics in organic chemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50541 and CHEM 70541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.
Prerequisite: CHEM 40556.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40555 PHYSICAL CHEMISTRY I 3 Credit Hours
(Slashed with CHEM 50555 and CHEM 70555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences.
Prerequisite: Minimum C grade in CHEM 10061 or CHEM 10971; and a minimum C grade in MATH 12003; and PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40556 PHYSICAL CHEMISTRY II 3 Credit Hours
(Slashed with CHEM 50556 and CHEM 70556) A continuation of CHEM 40555. Areas covered include quantum mechanics, atomic and molecular structure, spectroscopy, statistical mechanics, theories of reaction rates and the solid state.
Prerequisite: CHEM 40555 or PHY 45301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours
(Slashed with CHEM 50557 and CHEM 70557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data.
Prerequisite: CHEM 40556.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

CHEM 40559 NANOMATERIALS 3 Credit Hours
(Slashed with CHEM 50559 and CHEM 70559) Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.
Prerequisite: CHEM 10061 or CHEM 10971 and; CHEM 40555 or CHEM 40567.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40563 QUANTUM CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50563 and CHEM 70563) This course builds on the physical chemistry course sequence and introduces advanced topics of quantum mechanics and their applications in chemistry and towards understanding the electronic structure of atoms and molecules.
Prerequisite: CHEM 40556.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40564 COMPUTATIONAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50564 and CHEM 70564) The course introduces the theoretical foundations and practical techniques of computational chemistry research.
Pre/corequisite: CHEM 40556 or CHEM 40567.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40567 PHYSICAL CHEMISTRY FOR LIFE SCIENCES 4 Credit Hours
Traditional aspects of physical chemistry with minimal calculus treatment. Applications to the health sciences emphasized.
Prerequisite: Minimum C grade in CHEM 10061 or CHEM 10971; and MATH 12002 or MATH 12021.
Pre/corequisite: PHY 13002 or PHY 23102.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 40568 ELEMENTARY PHYSICAL CHEMISTRY LABORATORY 1 Credit Hour
Provides hands-on experience with calorimetry, viscosimetry and spectroscopic techniques.
Prerequisite: CHEM 40555 or CHEM 40567.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

CHEM 40571 SURFACE CHEMISTRY 2 Credit Hours
(Slashed with CHEM 50571 and CHEM 70571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized. Two hours lecture weekly.
Prerequisite: CHEM 40555 or CHEM 40567.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 40595 SPECIAL TOPICS IN PHYSICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50595 and CHEM 70595) (Repeatable for credit) In depth examination of current topics in physical chemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40795 CURRENT TOPICS IN CHEMICAL EDUCATION 1-3 Credit Hours
(Slashed with CHEM 50795) (Repeatable for credit) Recent advances in chemical research, instrumentation and theory important to chemical educators.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 40796 INDIVIDUAL INVESTIGATION 1-8 Credit Hours
(Repeatable for credit) Registration requires prior approval of the research director. Written report required. Maximum of two hours may be applied to the four hour CHEM 40000 elective requirement for the chemistry concentration within the B.S. in Chemistry.
Prerequisite: Minimum 2.500 overall GPA in Chemistry; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 41010 BIOPHOTONICS 3 Credit Hours
(Slashed with CHEM 51010) (Cross-listed with BSCI 41110 and BSCI 51110 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

CHEM 50093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours
(Repeatable for credit) Variable titled workshop in chemistry.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CHEM 50109 BIOANALYTICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40109 and CHEM 70109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. The course will provide an overview of the fundamental biological targets for the bioanalytical assays, such as lipids, peptides, proteins, nucleic acids, and cells. The course will then briefly introduce traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Finally, the course will discuss approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.
Prerequisite: CHEM 30105; and graduate standing; and special approval.
Corequisite: CHEM 30284 or 40245 or 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50113 CHEMICAL SEPARATIONS 3 Credit Hours
(Slashed with CHEM 40113 and CHEM 70113) Theory, instrumentation and applications of chemical separations for chemical analysis. Emphasis on gas and liquid chromatography.
Prerequisite: CHEM 30106; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50115 APPLICATIONS OF SPECTROSCOPY AND IMAGING 3 Credit Hours
(Slashed with CHEM 40115 and CHEM 70115) This course covers the fundamentals of optics, recent developments in spectroscopy and microscopy and their applications in chemistry. Included are methods of optical microscope-based spectroscopy and imaging in relation to analytical chemistry, biochemistry and polymer chemistry research; such as principles and applications of fluorescence spectroscopy, atomic force microscopy, optical tweezer and patch clamp.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50166 PRINCIPLES AND APPLICATIONS IN ANALYTICAL CHEMISTRY 2 Credit Hours
Survey of important principles and concepts and their application in Analytical Chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50195 SPECIAL TOPICS IN ANALYTICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40195 and CHEM 70195) (Repeatable for credit) In depth examination of current topics in analytical chemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50245 BIOCHEMICAL FOUNDATIONS OF MEDICINE 4 Credit Hours
(Slashed with CHEM 40245) Introduction to chemistry and metabolism of important compounds in biological systems; enzymes and characteristics of enzyme catalysis; regulation of metabolism at molecular, cellular and organism levels; inborn and induced errors of metabolism. Designed and scheduled for and priority given to students in integrated life sciences program.
Prerequisite: CHEM 30481; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 50248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40248 and CHEM 70248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50261 BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION 3 Credit Hours
(Slashed with CHEM 40261 and CHEM 70261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50262 BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION 3 Credit Hours
(Slashed with CHEM 40262 and CHEM 70262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, and post-translational modification.
Prerequisite: CHEM 50261 or CHEM 70261; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50263 PHYSICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 40263 and CHEM 70263) Principles and techniques of physical chemistry used in studying biomacro-molecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules.
Prerequisite: Graduate standing in Chemistry.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50264 MEDICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 40264 and CHEM 70264) Course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50266 PRINCIPLES AND APPLICATIONS IN BIOCHEMISTRY 2 Credit Hours
Survey of important principles and concepts and their application in biochemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

CHEM 50295 SPECIAL TOPICS IN BIOCHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40295 and CHEM 70295) (Repeatable for credit) In depth examination of current topics in biochemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50302 INORGANIC CHEMISTRY II 2 Credit Hours
(Slashed with CHEM 40302) Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nanomaterials, nanoscience and nanotechnology.
Prerequisite: CHEM 30301; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50303 INORGANIC CHEMISTRY III 2 Credit Hours
(Slashed with CHEM 40303) Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedral complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends Groups 1 and 2 and d-block, bioinorganic chemistry.
Prerequisite: CHEM 50302; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40352 and CHEM 70352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40365 and CHEM 70365) Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50366 PRINCIPLES AND APPLICATIONS IN INORGANIC CHEMISTRY 2 Credit Hours
Survey of important principles and concepts and their application in inorganic chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50395 SPECIAL TOPICS IN INORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40395 and CHEM 70395) (Repeatable for credit) In depth examination of current topics in inorganic chemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40451 and CHEM 70451) Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50466 PRINCIPLES AND APPLICATIONS IN ORGANIC CHEMISTRY 2 Credit Hours
Survey of important principles and concepts and their application in Organic Chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours
(Slashed with CHEM 40476 and CHEM 70476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR and mass spectrometric data through lectures and problem solving.
Prerequisite: CHEM 30482; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50477 INTERMEDIATE ORGANIC CHEMISTRY LABORATORY 1 Credit Hour
Continuation of CHEM 30476, including hands-on use of a high-field NMR spectrometer; single and multistep organic syntheses.
Prerequisite: CHEM 50483 and graduate standing.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

CHEM 50483 INTERMEDIATE ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 40483 and CHEM 70483) Organic chemistry from mechanistic and synthetic viewpoints, including synthetic design, organotransition metal chemistry and free radical chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CHEM 50485 PHYSICAL ORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40485 and CHEM 70485) This course presents a modern view of organic chemistry through the study of organic reaction mechanisms, advanced chemical bonding theories, high-energy intermediates and reactivity patterns common to organic chemical reactions. Emphasis is placed on synthetic organic chemistry with a focus on chemical structure, reactivity, chemical kinetics, thermodynamics, physical and chemical behavior and reaction mechanisms. Central to these investigations is understanding the use of molecular spectroscopy and molecular modeling software as investigative tools. A specific goal of this course is to introduce students to concepts necessary to solving mechanistic organic problems encountered in the research laboratory. The course covers common organic reaction mechanisms, experimental techniques and theoretical approaches to understanding reaction mechanisms. All topics are approached from a structural and mechanistic perspective. Emphasis is also placed on the importance of organic chemistry in biochemical systems. Classroom time is divided into lectures, discussions and problem solving sessions to enable students to develop both advanced knowledge and problem solving skills in organic chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50495 SPECIAL TOPICS IN ORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40495 and CHEM 70495) (Repeatable for credit) In depth examination of current topics in organic chemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40541 and CHEM 70541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.
Prerequisite: CHEM 50556; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50555 PHYSICAL CHEMISTRY I 3 Credit Hours
(Slashed with CHEM 40555 and CHEM 70555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing application in chemistry and the biological sciences.
Prerequisite: Graduate standing in Chemistry.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50556 PHYSICAL CHEMISTRY II 3 Credit Hours
(Slashed with CHEM 40556 and CHEM 70556) A continuation of CHEM 50555. Areas covered are chemical kinetics, quantum chemistry and the solid state.
Prerequisite: CHEM 50555 or PHY 45301; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours
(Slashed with CHEM 40557 and CHEM 70557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data.
Prerequisite: Graduate standing.
Pre/corequisite: CHEM 50555 and CHEM 50556.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

CHEM 50559 NANOMATERIALS 3 Credit Hours
(Slashed with CHEM 40559 and CHEM 70559). Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50563 QUANTUM CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40563 and CHEM 70563) This course builds on the physical chemistry course sequence and introduces advanced topics of quantum mechanics and their applications in chemistry and towards understanding the electronic structure of atoms and molecules.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50564 COMPUTATIONAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40564 and CHEM 70564) The course introduces the theoretical foundations and practical techniques of computational chemistry research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50566 PRINCIPLES AND APPLICATIONS IN PHYSICAL CHEMISTRY 2 Credit Hours
Survey of key principles and concepts and their application in Physical Chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50571 SURFACE CHEMISTRY 2 Credit Hours
(Slashed with CHEM 40571 and CHEM 70571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized.
Prerequisite: CHEM 40555 or 40567; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50595 SPECIAL TOPICS IN PHYSICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40595 and CHEM 70595) (Repeatable for credit) In depth examination of current topics in physical chemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50795 CURRENT TOPICS IN CHEMICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CHEM 40795) Designed to present recent advances in chemical research, instrumentation and theory to chemistry educators.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 51010 BIOPHOTONICS 3 Credit Hours
(Slashed with CHEM 41010) (Cross-listed with BSCI 41110 and BSCI 51110 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

CHEM 60099 MASTERS CAPSTONE PROJECT 3-6 Credit Hours
Capstone project in the form of literature reviews or research projects on topics in chemistry, biochemistry, or chemical education.
Prerequisite: Graduate standing.
Schedule Type: Master's Project
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 60254 BIOMEMBRANES 2 Credit Hours
(Slashed with CHEM 70254) Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 60291 SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 70291) Presentation and discussion of research papers from current biochemistry literature. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 60299 THESIS II 2 Credit Hours
Thesis students must continue registration until all degree requirements are met.
Prerequisite: CHEM 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 60327 MODERN INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 70327) Synthesis, structure and reactivity of inorganic compounds including transition metal and organometallic complexes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 60391 SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 70391) Presentation and discussion of research papers from current inorganic chemistry literature. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 60472 ADVANCED ORGANIC CHEMISTRY-SYNTHETIC ASPECTS 3 Credit Hours
(Slashed with CHEM 70472) Disconnection approach to organic synthesis. Modern methods for carbon-carbon bond formation and functional group interconversion, and their application to natural product synthesis.
Prerequisite: CHEM 30482; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 60473 STEREOSELECTIVE ORGANIC SYNTHESIS 3 Credit Hours
(Slashed with CHEM 70473) Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis.
Prerequisite: CHEM 30482; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 60541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours
Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.
Prerequisite: CHEM 50556; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 60591 SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 70591) Presentation and discussion of research papers from current physical chemistry literature. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 60691 SEMINAR: RECENT DEVELOPMENTS IN INDUSTRIAL CHEMISTRY 1 Credit Hour
Presentation and discussion of research papers from the current industrial chemistry field. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

CHEM 60894 COLLEGE TEACHING OF CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 70894) Experience in teaching of chemistry at college level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 60898 MASTERS RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research for master's students. Credits earned may be applied toward degree if department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 61191 SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 71191) Problem solving in analytical chemistry, including chemical analysis methods, instrumentation, sample preparation, and data handling.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 61491 SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 71491) Practical experience in the solving of current problems of synthesis, spectroscopy, and mechanism in organic chemistry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62191 SEMINAR: ANALYTICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72191) Student and faculty presentations on topics in analytical chemistry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62291 SEMINAR: BIOCHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72291) Student and faculty presentations on topics in biochemistry
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62391 SEMINAR: INORGANIC CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72391) Student and faculty presentations on topics in inorganic chemistry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62491 SEMINAR: ORGANIC CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72491) Presentation of topics from the recent literature on aspects of organic chemistry including synthesis, spectroscopy, mechanism, and materials properties.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62591 SEMINAR: PHYSICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72591) Student and faculty presentations on topics in physical chemistry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62691 SEMINAR: INDUSTRIAL CHEMISTRY 1 Credit Hour
Presentation of current research in industrial chemistry. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

CHEM 62791 SEMINAR: CHEMICAL EDUCATION 1 Credit Hour
Presentation of current research in chemical education. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

CHEM 70093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours
(Repeatable for credit)Variable title workshop in Chemistry.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CHEM 70109 BIOANALYTICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40109 and CHEM 50109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. The course will provide an overview of the fundamental biological targets for the bioanalytical assays, such as lipids, peptides, proteins, nucleic acids, and cells. The course will then briefly introduce traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Finally, the course will discuss approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.
Prerequisite: CHEM 30105; and doctoral standing; and special approval.
Corequisite: CHEM 30284 or CHEM 40245 or CHEM 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70113 CHEMICAL SEPARATIONS 3 Credit Hours
(Slashed with CHEM 40113 and CHEM 50113) Theory, instrumentation and applications of chemical separations for chemical analysis. Emphasis on gas and liquid chromatography.
Prerequisite: CHEM 30106; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70115 APPLICATIONS OF SPECTROSCOPY AND IMAGING 3 Credit Hours
(Slashed with CHEM 40115 and CHEM 50115) This course covers the fundamentals of optics, recent developments in spectroscopy and microscopy and their applications in chemistry. Included are methods of optical microscope-based spectroscopy and imaging in relation to analytical chemistry, biochemistry and polymer chemistry research; such as principles and applications of fluorescence spectroscopy, atomic force microscopy, optical tweezer and patch clamp.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70195 SPECIAL TOPICS IN ANALYTICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40195 and CHEM 50195) (Repeatable for credit) In depth examination of current topics in analytical chemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40248 and CHEM 50248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70254 BIOMEMBRANES 2 Credit Hours
(Slashed with CHEM 60254) Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 70261 BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION 3 Credit Hours
(Slashed with CHEM 40261 and CHEM 50261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70262 BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION 3 Credit Hours
(Slashed with CHEM 40262 and CHEM 50262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, and post-translational modification.
Prerequisite: CHEM 50261 or CHEM 70261; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70263 PHYSICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 40263 and CHEM 50263) Principles and techniques of physical chemistry used in studying biomacro-molecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules.
Prerequisite: Doctoral standing in Chemistry.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70264 MEDICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 40264 and CHEM 50264) The course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70291 SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY 1 Credit Hour
(Slashed with CHEM 60291)(Repeatable for credit) Presentation and discussion of research papers from current biochemistry literature. Participation by students and faculty.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 70295 SPECIAL TOPICS IN BIOCHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40295 and CHEM 50295) (Repeatable for credit) In depth examination of current topics in biochemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70327 MODERN INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 60327) Synthesis, structure and reactivity of inorganic compounds including transition metal and organometallic complexes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40352 and CHEM 50352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40365 and CHEM 50365) Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine.
Prerequisite: CHEM 30301; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70391 SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 60391)(Repeatable for credit) Presentation and discussion of research papers from current inorganic chemistry literature. Participation by students and faculty.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 70395 SPECIAL TOPICS IN INORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40395 and CHEM 50395) (Repeatable for credit) In depth examination of current topics in inorganic chemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40451 and CHEM 50451) Broad survey of the synthesis, properties characterization and applications of organic and polymeric materials.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70472 ADVANCED ORGANIC CHEMISTRY-SYNTHETIC ASPECTS 3 Credit Hours
(Slashed with CHEM 60472) Disconnection approach to organic synthesis. Modern methods for carbon-carbon bond formation and functional group interconversion, and their application to natural product synthesis. Doctoral standing.
Prerequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70473 STEREOSELECTIVE ORGANIC SYNTHESIS 3 Credit Hours
(Slashed with CHEM 60473) Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis.
Prerequisite: CHEM 30482; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours
(Slashed with CHEM 40476 and CHEM 50476) Strategies for structural elucidation of organic compounds from analysis of infraret, proton and carbon NMR, and mass spectrometric data through lectures and problem solving.
Prerequisite: CHEM 30482; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 70483 INTERMEDIATE ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 40483 and CHEM 50483) Organic chemistry from mechanistic and synthetic viewpoints, including synthetic design, organotransition metal chemistry and free radical chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CHEM 70485 PHYSICAL ORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40485 and CHEM 50485) This course presents a modern view of organic chemistry through the study of organic reaction mechanisms, advanced chemical bonding theories, high-energy intermediates and reactivity patterns common to organic chemical reactions. Emphasis is placed on synthetic organic chemistry with a focus on chemical structure, reactivity, chemical kinetics, thermodynamics, physical and chemical behavior and reaction mechanisms. Central to these investigations is understanding the use of molecular spectroscopy and molecular modeling software as investigative tools. A specific goal of this course is to introduce students to concepts necessary to solving mechanistic organic problems encountered in the research laboratory. The course covers common organic reaction mechanisms, experimental techniques and theoretical approaches to understanding reaction mechanisms. All topics are approached from a structural and mechanistic perspective. Emphasis is also placed on the importance of organic chemistry in biochemical systems. Classroom time is divided into lectures, discussions and problem solving sessions to enable students to develop both advanced knowledge and problem solving skills in organic chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70495 SPECIAL TOPICS IN ORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40495 and CHEM 50495) (Repeatable for credit) In depth examination of current topics in organic chemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40541 and CHEM 50541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70555 PHYSICAL CHEMISTRY I 3 Credit Hours
(Slashed with CHEM 40555 and CHEM 50555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences.
Prerequisite: Doctoral standing in Chemistry.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70556 PHYSICAL CHEMISTRY II 3 Credit Hours
(Slashed with CHEM 40556 and CHEM 50556) Fundamental concepts of physical chemistry of current interest. Included are biological and medical aspects of physical chemistry. Graduate credit given to nonchemistry and nonphysics majors and with permission to certain chemistry majors.
Prerequisite: CHEM 50555 or 70555; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours
(Slashed with CHEM 40557 and CHEM 50557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data correlation of results with theory and an introduction to the computer treatment of data.
Prerequisite: Doctoral standing.
Pre/corequisite: CHEM 70555 and CHEM 70556.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

CHEM 70559 NANOMATERIALS 3 Credit Hours
(Slashed with CHEM 40559 and CHEM 50559) Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70563 QUANTUM CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40563 and CHEM 50563) This course builds on the physical chemistry course sequence and introduces advanced topics of quantum mechanics and their applications in chemistry and towards understanding the electronic structure of atoms and molecules.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70564 COMPUTATIONAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40564 and CHEM 50564) The course introduces the theoretical foundations and practical techniques of computational chemistry research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70571 SURFACE CHEMISTRY 2 Credit Hours
(Slashed with CHEM 40571 and CHEM 50571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized.
Prerequisite: CHEM 40555 or CHEM 40567; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 70591 SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY 1 Credit Hour
(Slashed with CHEM 60591)(Repeatable for credit) Presentation and discussion of research papers from current physical chemistry literature. Participation by students and faculty.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 70595 SPECIAL TOPICS IN PHYSICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40595 and CHEM 50595) (Repeatable for credit) In depth examination of current topics in physical chemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70894 COLLEGE TEACHING OF CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 60894) Experience in teaching of chemistry at college level.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 71191 SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY 1 Credit Hour
(Slashed with CHEM 61191)(Repeatable for credit) Problem solving in analytical chemistry, including chemical analysis methods, instrumentation, sample preparation, and data handling.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 71491 SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 61491)(Repeatable for credit) Practical experience in the solving of current problems of synthesis, spectroscopy, and mechanism in organic chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72191 SEMINAR: ANALYTICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 62191) Student and faculty presentations on topics in analytical chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72291 SEMINAR: BIOCHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 62291) Student and faculty presentations on topics in biochemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72391 SEMINAR: INORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 62391)(Repeatable for credit) Student and faculty presentations on topics in inorganic chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72491 SEMINAR: ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 62491)(Repeatable for credit) Presentation of topics from the recent literature on aspects of organic chemistry including synthesis, spectroscopy, mechanism, and materials properties.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72591 SEMINAR: PHYSICAL CHEMISTRY 1 Credit Hour
(Slashed with CHEM 62591)(Repeatable for credit) Student and faculty presentations on topics in physical chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: CHEM 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 80898 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree if department approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Chinese (CHIN)

CHIN 15101 ELEMENTARY CHINESE I 4 Credit Hours
An introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

CHIN 15102 ELEMENTARY CHINESE II 4 Credit Hours
A continuation of the introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures.
Prerequisite: CHIN 15101.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHIN 25201 INTERMEDIATE CHINESE I 4 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: CHIN 15102.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

CHIN 25202 INTERMEDIATE CHINESE II 4 Credit Hours
Continuation of CHIN 25201.
Prerequisite: CHIN 25201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

CHIN 25421 CHINESE CULTURE 3 Credit Hours
This course will guide students to explore the foundations of Chinese civilization and the dimensions of Chinese culture. The course will focus on providing students with a deeper knowledge of Chinese culture and better understanding of contemporary China. This course is a basic introduction to Chinese culture. It does not presume prior knowledge of China or the Chinese language. This course is taught in English and is open to students in any program.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 30095 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)Topic to be announced in schedule of classes.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 35211 INTENSIVE CHINESE CONVERSATION 3 Credit Hours
This course increases students' knowledge of Chinese vocabulary and sentence structure; emphasis will be on developing fluency and oral proficiency in Chinese.
Prerequisite: CHIN 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 35221 CHINESE IN THE REAL WORLD 3 Credit Hours
This course focuses on how the Chinese language varies by social and cultural contexts. The instructor will utilize different socially and culturally relevant topics to help students master the structures, vocabulary, and idiomatic expressions commonly used in formal and informal situations. Students will be systematically exposed to the distinguishing features of written and spoken Chinese in terms of language form, function, and communication.
Prerequisite: CHIN 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Chinese language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Chinese (CHIN) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

CHIN 45302 BUSINESS CHINESE 3 Credit Hours
Study of the business protocol, language functions, texts and vocabulary associated with travel and business in the Chinese-speaking world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 45322 CHINESE FICTION 3 Credit Hours
This course emphasizes speaking and reading skills in Chinese through selected stories and anecdotes including sayings from classical philosophers, folk tales, legends, and great works of literature.
Prerequisite: CHIN 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 45323 CHINESE COMPOSITION 3 Credit Hours
This course focuses on studying modern and classical forms of Chinese literature written by acknowledged masters. Through studying these works, students improve their understanding of Chinese literature, open avenues of thought, broaden their vocabulary, master basic rules and techniques of writing, and develop the ability to write with eloquence and skill.
Prerequisite: CHIN 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Classics (CLAS)

CLAS 21201 ENGLISH WORDS FROM CLASSICAL ELEMENTS 3 Credit Hours
Building of English vocabulary through study of basic roots from Latin and Greek; prefixes, suffixes, rules for accent and pronunciation; specialized scientific and legal terminology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 21404 THE GREEK ACHIEVEMENT (DIVG) (KHUM) 3 Credit Hours
A survey of the cultural achievements of the ancient Greeks as manifested in their poetry, philosophy, history and art from the Homeric period through the New Testament.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, Transfer Module Humanities

CLAS 21405 THE ROMAN ACHIEVEMENT (DIVG) (KHUM) 3 Credit Hours
A survey of the cultural achievements of the ancient Romans as manifested in their literature and art from the Etruscans through the Christians.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, Transfer Module Humanities

CLAS 41005 HISTORY OF ANCIENT GREECE 3 Credit Hours
(Slashed with CLAS 51005) (Cross-listed with HIST 41003 and HIST 51003) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with HIST 41006) (Slashed with CLAS 51006, HIST 51006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41089 CLASSICS INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Slashed with CLAS 51089) A Kent State faculty-led study abroad experience that involves experiential activities and site visits outside the United States. May include, for example, participation in an archaeological dig or tour of sites in Italy and Greece. Course may have pre- or post-travel classroom study. Course activities may include classroom study, research, fieldwork, internships and service-learning.
Prerequisite: Special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CLAS 41092 FIELD EXPERIENCE IN CLASSICS (ELR) 1-4 Credit Hours
(Repeatable for a maximum of 7 credit hours)(Slashed with CLAS 51092) Travel-based study/field experience at a site or sites away from Kent State University under the supervision of members of the classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites that pertain to classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other cities and participation in an archaeological field school.
Prerequisite: None.
Schedule Type: Field Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CLAS 41095 SPECIAL TOPICS IN CLASSICS 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with CLAS 51095) Topic varies per course offering and listed in the schedule of classes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with classical languages or cultures carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Classics (CLAS) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

CLAS 41097 COLLOQUIUM IN CLASSICS 3 Credit Hours
(Repeatable for credit)(Slashed with CLAS 51097) Detailed study of an aspect of antiquity that engages issues of current interest, for example women in antiquity, ancient Christianity, multiculturalism in antiquity.
Prerequisite: None.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

CLAS 41301 CLASSICAL MYTHOLOGY 3 Credit Hours
(Slashed with CLAS 51301) Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41304 LITERATURE OF THE ROMAN WORLD (ELR) (WIC) 3 Credit Hours
(Slashed with CLAS 51304) Major works of Latin literature, studied in their historical context by genre; knowledge of Latin not required. Authors read include Plautus, Terence, Lucretius, Cicero, Catullus, Vergil, Horace, Petronius, Seneca, Suetonius, Tacitus and Juvenal.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CLAS 41305 CLASSICAL LITERARY STUDIES 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Slashed with CLAS 51305) Study of a particular literary genre. Topics are individually designed to provide instruction and training of a specific genre of Greek or Roman literature.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41401 GREEK ARCHAEOLOGY AND ART 3 Credit Hours
(Slashed with CLAS 51401) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41402 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours
(Slashed with CLAS 51402) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41404 ANCIENT CHRISTIANITIES 3 Credit Hours
In-depth examination of the formative period of Christianity and the diverse "Christianities" during the first 100 years after the death of Jesus of Nazareth, including the Judaic context for the birth of Christianity, diversity among the earliest Christian communities, and the process by which the New Testament canon was formed. Study of a variety of texts produced by the early church.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41503 LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC) 3 Credit Hours
(Slashed with CLAS 51503) Major works of Greek literature, studied in their historical context and by genre. Knowledge of Greek is not required.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CLAS 51005 HISTORY OF ANCIENT GREECE 3 Credit Hours
(Slashed with CLAS 41005) (Cross-listed with HIST 41003 and HIST 51003) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with HIST 51006) (Slashed with CLAS 41006, HIST 41006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51089 CLASSICS INTERNATIONAL EXPERIENCE 1-4 Credit Hours
(Slashed CLAS 51089) A Kent State faculty-led study abroad experience that involves experiential activities and site visits outside the United States. International experience may include, for example, participation in an archaeological dig or tour of sites in Italy or Greece. International experience courses may have pre-and post-travel classroom study. Course activities include, but are not limited to, classroom study, research, fieldwork, internships and service-learning.
Prerequisite: Graduate Standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

CLAS 51092 FIELD EXPERIENCE IN CLASSICS 1-4 Credit Hours
(Repeatable for a maximum of 7 credit hours)(Slashed with CLAS 41092) Travel-based study/field experience at a site or sites away from Kent State University under the supervision of members of the classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites that pertain to classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other cities and participation in an archaeological field school.
Prerequisite: Graduate standing.
Schedule Type: Field Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter

CLAS 51095 SPECIAL TOPICS IN CLASSICS 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with CLAS 51095) Topic varies per course offering and listed in the schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51097 COLLOQUIUM IN CLASSICS 3 Credit Hours
(Repeatable for credit) (Slashed with CLAS 41097) Detailed study of an aspect of antiquity that engages issues of current interest, for example women in antiquity, ancient Christianity, multiculturalism in antiquity.
Prerequisite: Graduate standing.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

CLAS 51301 CLASSICAL MYTHOLOGY 3 Credit Hours
(Slashed with CLAS 41301) Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51304 LITERATURE OF THE ROMAN WORLD 3 Credit Hours
(Slashed with CLAS 41304) Major works of Latin literature, studied in their historical context by genre; knowledge of Latin not required. Authors read include Plautus, Terence, Lucretius, Cicero, Catullus, Vergil, Horace, Petronius, Seneca and Juvenal.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51305 CLASSICAL LITERARY STUDIES 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Slashed with CLAS 41305) Study of a particular literary genre. Topics are individually designed to provide instruction and training of a specific genre of Greek or Roman literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51401 GREEK ARCHAEOLOGY AND ART 3 Credit Hours
(Slashed with CLAS 41401) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51402 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours
(Slashed with CLAS 41402) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51503 LITERATURE OF THE ANCIENT GREEKS 3 Credit Hours
(Slashed with CLAS 41503) Major works of Greek literature, studied in their historical context and by genre. Knowledge of Greek is not required.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 61404 ANCIENT CHRISTIANITIES 3 Credit Hours
In-depth examination of the formative period of Christianity and the diverse "Christianities" during the first 100 years after the death of Jesus of Nazareth, including the Judaic context for the birth of Christianity, diversity among the earliest Christian communities, and the process by which the New Testament canon was formed. Study of a variety of texts produced by the early church.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 66398 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with classical languages, translation or cultures carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

Clinical Education (CLI)

CLI 80200 STANDARDIZED PATIENTS ROTATION 1 Credit Hour
Offers second year students the opportunity to interview standardized patients and receive feedback on their patient interviewing and history recording skills which prepares them to function competently in a doctor/patient encounter. Some students find that interviewing patients comes naturally, while for others it is more a learned skill. The standardized patients are actors who have been coached to simulate actual patients so accurately that the simulation could possibly fool even a skilled clinician.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clinical Laboratory
Contact Hours: 4 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80311 WOUND CARE 2 Credit Hours
The clinical rotation provides students with an opportunity to become exposed to the clinical practice of wound care. Students have a unique opportunity to be involved in wound care patient management, which is an essential part of podiatric medical practice. Students develop skills in wound care patient management as well as communication skills. Students also develop cognitive reasoning skills so as to accurately diagnose comorbid conditions and develop treatment plans appropriate for each patient. Students are exposed to a variety of wound pathology during this clinical wound care rotation. A combination of physician-guided patient care and nursing lead discussion groups allow students to be exposed to many topics related to the essentials of wound patient management. Students are able integrate knowledge already gained in the classroom with clinical medicine.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80312 FOOT AND ANKLE SURGERY I 2 Credit Hours
This rotation is designed as a well-rounded surgical experience involving all appropriate settings, including the surgical clinic, the hospital, the operating room and academic conferences.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80313 FOOT AND ANKLE SURGERY II 2 Credit Hours
This rotation is designed as a well-rounded surgical experience involving all appropriate settings, including the surgical clinic, the hospital, the operating room and academic conferences.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80316 SURGICAL SKILLS AND SIMULATED PATIENTS II 2 Credit Hours

This combined course of surgical skills and simulated patients is offered as part of the core clinical rotations in the third year. The surgical skills portion provides students with the knowledge and hands-on training pertaining to the physical skills that are necessary to perform surgery of the foot and ankle. An effort is made to correlate didactic information learned in the classroom with the rationale behind why many surgical procedures are performed. Adequate demonstration of surgical skills are provided along with practice time and constructive performance feedback. Upon successful completion of this course, students should possess a basic understanding of and the ability to perform physical skills which are necessary in foot and ankle surgery. Course covers general medicine, simulated patient interactions and clinical skills exam exposure.

Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80320 RADIOLOGY ROTATION 2 Credit Hours

Clinical rotations function by adapting and applying classroom information to real life, "hands-on" situations. A majority of foot complaints necessitate the taking and the reading of radiographs. As specialists of the foot and ankle, podiatrists are in a unique situation in being able to take and interpret radiographs in their own offices. Radiographic analysis is therefore an integral component of podiatric medical education. The Radiology/Medical Imaging rotation focuses on those skills commonly performed by the podiatrist. This includes positioning and developing radiographs along with recognizing the most common pedal pathologies.

Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80351 PODIATRIC MEDICINE/BIOMECHANICS (EUCLID) 2 Credit Hours

Gives students the opportunity to perform primary foot and ankle care under the supervision of the clinical faculty. Students learn basic podiatric palliative care techniques on patients, as well as how to record the findings in the medical record. Students are evaluated on their ability to present the case history, treat the patient and properly record their findings. Students receive clinical conferences on a variety of podiatric medical topics with practical exams in many areas. Two months are spent at the Cleveland Foot and Ankle Clinic. One month is spent at the Cleveland VA Hospital. This rotation also provides the student with the opportunity for observation and practice of examination skills required in performing a musculoskeletal and biomechanical evaluation. This involves the development of skill in obtaining a biomechanical/musculoskeletal history, arthrometric evaluation, visual gait analysis and musculoskeletal examination to include muscle strength testing, flexibility and range of motion. The student is also taught, and provided opportunities for practice, various methods of obtaining and evaluating proper biomechanical cast impressions of the feet for the purpose of fabricating orthotic devices, Emphasis in this rotation is on the practice and refinement of clinical evaluation and manual skills.

Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80352 PODIATRIC MEDICINE/BIOMECHANICS (INDEPENDENCE) 2 Credit Hours

Gives students the opportunity to perform primary foot and ankle care under the supervision of the clinical faculty. Students learn basic podiatric palliative care techniques on patients, as well as how to record their findings in the medical record. Students are evaluated on their ability to present the case history, treat the patient and properly record their findings. Students receive clinical conferences on a variety of podiatric medical topics, with practical exams in many areas. Two months are spent at the Cleveland Foot and Ankle Institute. One month is spent at the Cleveland VA Hospital. Also provides the student with the opportunity for observation and practice of examination skills required in performing a musculoskeletal and biomechanical evaluation. This involves the development of skill in obtaining a biomechanical/musculoskeletal history, arthrometric evaluation, visual gait analysis and musculoskeletal examination to include muscle strength testing, flexibility and range of motion. The student is taught and provided opportunities for practice, various methods of obtaining and evaluating proper biomechanical cast impressions of the feet for the purpose of fabricating orthotic devices. Emphasis is on the practice and refinement of clinical evaluation and manual skills.

Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80365 PRIMARY CARE/VETERANS ADMINISTRATION 2 Credit Hours

This is a one-month rotation at a veteran's health care facility, which emphasizes the skills necessary to function effectively in government health care facilities.

Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clinical Laboratory
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80370 HISTORY AND PHYSICAL ROTATION 4 Credit Hours

The history and physical rotation is a one month experience in one of the several area hospitals, which is designed to provide experience in history and physical examinations. Each rotation site will provide the same core experiences, (based on the goals and objectives), in patient assessment techniques (i.e., history and physical examination), the understanding of disease processes and management strategies. In addition to the core experiences, each rotation site may add additional exposures and training.

Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clinical Laboratory
Contact Hours: 16 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80380 SIMULATED PATIENTS I 2 Credit Hours

Clinical course offered as part of the core clinical rotations in the third year. Covers general medicine rotation, simulated patients interactions and clinical skills exam exposure.

Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80443 SENIOR CLINICAL ROTATION 4 Credit Hours
The senior clinical rotation is designed to maximize student-learning opportunities in a clinical setting. This rotation will take place at the Cleveland Foot and Ankle clinics (Midtown and Independence locations) as well as Cleveland-area Department of Veterans' Affairs locations. Students are assigned to one or more locations for the month.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80460 CLERKSHIP ROTATION I 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80465 CLERKSHIP ROTATION II 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80470 CLERKSHIP ROTATION III 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80475 CLERKSHIP ROTATION IV 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80480 CLERKSHIP ROTATION V 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80485 CLERKSHIP ROTATION VI 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80486 CLERKSHIP ROTATION VII 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences. This is an elective rotation that is available in the event that students wish to gain additional experience in a clinical setting prior to graduation.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80487 CLERKSHIP ROTATION VIII 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences. This is an elective rotation that is available in the event that students wish to gain additional experience in a clinical setting prior to graduation.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80490 CLERKSHIP VII 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year, but are given the opportunity to add elective clerkship rotations. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process. This is an elective rotation that is available in the event that students wish to gain additional experience in a clinical setting prior to graduation.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clinical Laboratory
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80521 SENIOR MEDICINE ROTATION I 4 Credit Hours
One-month external rotation at hospitals throughout the United States. Students are instructed in skills, values and knowledge necessary to perform a complete medical history and physical.
Prerequisite: Students must be enrolled in the Podiatric Medicine program in order to register for this course.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80522 SENIOR MEDICINE ROTATION II 4 Credit Hours
One-month external rotation at an area hospital. Students are instructed in skills, values and knowledge necessary to perform a complete medical history and physical.
Prerequisite: Students must be enrolled in the Podiatric Medicine program in order to register for this course.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

Clinical Laboratory Sciences (CLS)

CLS 49010 CLINICAL MICROBIOLOGY: THEORY 4 Credit Hours
Theoretical consideration of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 8 other
Grade Mode: Standard Letter-IP

CLS 49011 CLINICAL MICROBIOLOGY: APPLICATIONS 4 Credit Hours
Applied and practical considerations of theoretical aspects of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 8 other
Grade Mode: Standard Letter-IP

CLS 49012 CLINICAL IMMUNOLOGY: THEORY 1 Credit Hour
Theoretical considerations of laboratory practices involving quantitation and detection of antigens and antibodies and the significance of these findings in pathological states.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49013 CLINICAL IMMUNOLOGY: APPLICATIONS 1 Credit Hour
Applied and practical consideration of laboratory practices in immunology and serology relating to diagnosis of disease states.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49014 CLINICAL MYCOLOGY: THEORY AND APPLICATIONS 1 Credit Hour
Theoretical, applied and practical consideration of the isolation, identification and characterization of pathogenic fungi and their relation to human disease states.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49015 CLINICAL PARASITOLOGY: THEORY AND APPLICATIONS 1 Credit Hour
Theoretical, applied and practical considerations of the isolation identification and characterization of human parasites and their relations to pathologic conditions.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49020 CLINICAL CHEMISTRY: THEORY 4 Credit Hours
Theoretical considerations of the principles of clinical chemistry relating to the identification and quantitation of biologically important substances in blood and other body fluids.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 8 other
Grade Mode: Standard Letter-IP

CLS 49021 CLINICAL CHEMISTRY: APPLICATIONS 3 Credit Hours
Applied and practical considerations of clinical chemistry principles relating to significant changes in body fluids as the result of pathologic conditions.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 6 other
Grade Mode: Standard Letter-IP

CLS 49022 URINALYSIS: THEORY 1 Credit Hour
Theoretical considerations of the physiological activities of the renal system together with laboratory principles of analysis of urine and other body fluids.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49023 URINALYSIS: APPLICATIONS 1 Credit Hour
Applied and practical considerations of laboratory practices in urine and other body fluid analysis as aids in diagnosis of disease.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49030 IMMUNOHEMATOLOGY: THEORY 2 Credit Hours
Theoretical consideration of laboratory procedures involved in blood grouping and typing; identification of blood group antigens and antibodies collection and preparation of blood for transfusion.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

CLS 49031 IMMUNOHEMATOLOGY: APPLICATIONS 2 Credit Hours
Applied and practical consideration of laboratory methods for the administration of blood and its components.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

CLS 49032 COAGULATION: THEORY AND APPLICATIONS 1 Credit Hour
Theoretical consideration of the coagulation mechanism and its relation to pathological states; identification of abnormalities and deficiencies.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49033 CLINICAL HEMATOLOGY: THEORY 2 Credit Hours
Theoretical considerations of the development of formed elements; identification of marrow and blood cells; study of normal and abnormal cellular blood components.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

CLS 49034 CLINICAL HEMATOLOGY: APPLICATIONS 2 Credit Hours
Applied and practical consideration of laboratory methods and procedures in identification and enumeration of normal and abnormal formed elements of blood.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

CLS 49040 TOPICS IN LABORATORY MANAGEMENT 1 Credit Hour
Consideration of topics relating to safety, education, personnel, budgeting, scheduling and medical legal problems. Repeatable for a total of 4 hours.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49095 SPECIAL TOPICS IN MEDICAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for a maximum of 4 credit hours) Topical consideration of special techniques encountered in nuclear medicine, cytology, cytogenetics, virology, toxicology and special instrumentation.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2-8 other
Grade Mode: Standard Letter-IP

College of Aeronautics and Engineering (CAE)

CAE 12260 SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING 1 Credit Hour
(Repeatable for credit) Introduction to basic problem-solving skills used in aeronautics and engineering. The course includes analysis of real-world scenarios and problems using common analytical and computer techniques, review and instruction in these techniques when necessary and practice in using these methods to analyze and solve problems. Students scoring a 35 or above on the ALEKS assessment will not receive credit towards their degree by completing this course.
Prerequisite: ALEKS score of 34 or below; and special approval.
Pre/corequisite: MATH 00020 or MATH 00021 or MATH 00022.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Satisfactory/Unsatisfactory

CAE 22095 SPECIAL TOPICS IN AERONAUTICS AND ENGINEERING 1-4 Credit Hours
(Repeatable for credit) Topics to be announced in the schedule of classes, offering current topics in technology based areas of study.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-4 other
Grade Mode: Standard Letter

CAE 35095 SPECIAL TOPICS IN AERONAUTICS AND ENGINEERING 1-3 Credit Hours
(Repeatable for credit) Specialized offerings of interest in response to emerging or needed curricular needs in aeronautics and engineering. Topics will be announced in the schedule of classes.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CAE 45092 AERONAUTICS AND ENGINEERING INTERNSHIP/ COOPERATIVE EDUCATION (ELR) (WIC) 1-3 Credit Hours
(Repeatable for a total of 6 hours) Work experience in aerospace/ aviation industry or related activity, laboratory or student professional organization.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement, Writing Intensive Course

CAE 45096 INDIVIDUAL INVESTIGATION IN AERONAUTICS AND ENGINEERING 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Work study of an individual nature on a topic relating to professional aviation.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

College of the Arts (CA)

CA 10195 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours
(Repeatable for credit)This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CA 20004 BEST PRACTICES IN THE ARTS 2 Credit Hours
This arts course highlights best practices and activities needed to thrive in any arts medium. Concepts are reinforced through real-world studio-based projects, and by listening to speakers from diverse artistic mediums and perspectives share strategies that helped them succeed.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 1 other
Grade Mode: Standard Letter

CA 20005 INNOVATIVE APPLICATIONS IN THE ARTS 2 Credit Hours
This arts course encourages students to apply divergent thinking through the lens of a world view to develop a strategy to innovate and flourish in the arts ecosystem.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 1 other
Grade Mode: Standard Letter

CA 20010 SUCCESS IN THE ARTS 1 Credit Hour
This course prepares students for their professional life in the arts through building academic success skills. This course will help students develop proficiency in time management, goal setting, studying, working with faculty and academic advisors and personal organization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CA 20295 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours
(Repeatable for credit)This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CA 30395 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours
(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CA 31300 MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP 2 Credit Hours
This course includes a study of music entrepreneurship and the attributes of successful musicians including creating a project, financing a project, and marketing a project for understanding of career options in various music fields. This course mixes theory with practice and challenges the student to apply concepts and principles to real world situations.
Prerequisite: Music, Music Education or Music Technology major; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

CA 40493 VARIABLE TITLE WORKSHIP IN THE COLLEGE OF THE ARTS 1-5 Credit Hours
(Repeatable for credit) Workshop setting dealing with topics within the College of the Arts.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

CA 40495 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours
(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CA 41495 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours
(Repeatable for credit)This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course, and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The school concerned clears the proposed course with the College Curriculum Committee.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Satisfactory/Unsatisfactory

Communication and Information (CCI)

CCI 10095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours
(Repeatable for credit) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CCI 12001 PHOTOGRAPHY 3 Credit Hours
This is an introductory course intended to provide a basic understanding of the photographic process as visual communication. The course will explore why humans are compelled to capture images and how our visual language has impacted society and culture. Students will learn camera controls, depth of field, composition, exposure, image correction, digital workflow and other topics through a range of photographic assignments. This course will also focus on the history, technology, ethics and art of photography.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 20001 INTRODUCTION TO MEDIA ADVOCACY 3 Credit Hours
This course examines how stories are used to create change, a process referred to as story-based strategy. Throughout the semester, students examine how organizers, advocates and social movements use stories and other activation tactics to gain media attention, pierce public apathy, reshape public opinion, and create or resist change. Using academic texts and case studies, students also critically consider how social movements use and interact with the media, the role of media in covering social movements, the benefits and risks of media coverage and the evolving line between journalism and advocacy. Students have the opportunity to analyze social change stories of their choosing, develop and present a substantive social change case study, engage in direct action for causes that matter to them and engage in collective action tactics related to a social change campaign.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 40089 BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR) 3 Credit Hours
The course will analyze the phenomenon of 'made in Italy' with a focus on fashion, food and design from a communication perspective. Students will have the chance to better understand the branding strategies effectively operating behind some of the most important Italian brands that make Italy and Italian productions fascinating and attracting for the foreign consumers and markets. The course will focus on PR, social media and advertising strategies that are central for contemporary brands and it will investigate the main strategic areas of 'made in Italy' and how they are communicated and promoted. Specific case studies will be presented and discussed in class.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 40095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CCI 50095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

CCI 40189 ITALIAN POP CULTURE (DIVG) (ELR) 3 Credit Hours
This course is aimed at investigating Italian contemporary pop culture and mediated narratives produced by the Italian media industry (with a focus on tv drama and movie narratives). While investigating media, format, genres and imageries of contemporary Italian pop culture, students will be able to immerse themselves deeper into aspects of the Italian cultural identity that inform and shape pop culture narratives such as mafia, the Catholic/religious imagery, food as well as ideals of beauty, etc. In so doing students will be able to better detect the main aspects of contemporary Italian culture as represented from the lenses of the media. The course will investigate new practices of production and consumption of media content and it will take into consideration key concepts and practices that are central to the cultural industries such as genres, format, celebrity and adaptation by presenting and discussing different media products. While focusing on the Italian case, comparisons will be made with the U.S.A. and other European countries. At the same times cultural products of foreign cultural industries will be analyzed for understanding how Italy is represented from abroad.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 40289 ITALIAN CINEMA (DIVG) (ELR) 3 Credit Hours
The course introduces the student to the world of Italian Cinema. In the first part the class will be analysing Neorealism, a cinematic phenomenon that deeply influenced the ideological and aesthetic rules of film art. In the second part we will concentrate on the films that mark the decline of Neorealism and the talent of 'new' auteurs such as Fellini . The last part of the course will be devoted to the cinema from 1970's to the present in order to pay attention to the latest developments of the Italian industry. The course is a general analysis of post-war cinema and a parallel social history of this period using films as 'decoded historical evidence'. Together with masterpieces such as Open city and The bicycle thief the screenings will include films of the Italian directors of the 'cinema d'autore' such as Life is Beautiful and the 2004 candidate for the Oscar for Best Foreign Film, I am not scared. The class will also analyse the different aspects of Film making both in Italian and the U.S. industry where I had the pleasure to work for many years in the Editing Department on Films such as The dead poet society and The Godfather part 3. The Films in DVD format are dubbed in English or sub-titled.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 40389 DOCUMENTARY FILMMAKING (DIVG) (ELR) 3 Credit Hours
Documentary Filmmaking is a course characterized by the co-existence of theory and practice and the balance between the two. The theoretical aspect of the course has the purpose of providing information about general basics of film language, film history and the history of documentary filmmaking. It will provide the students the tools for being able to talk about ideas in terms of film language, through the analysis of existing documentaries and exercises shot by the students themselves. Without a good theoretical base, it would be difficult to find the right kind of themes, voices, styles and development. The practical aspect of the course is focused on teaching the students the use of technical equipment including still-cameras, video-cameras, lights, audio tools and post-production software. The course will be focused mainly on European Documentaries as a way of teaching the thematic and political difference between the cultures of the two continents. The combination of the theoretical and practical aspects will generate a solid base for the micro-production of well planned documentaries, which the students will develop, shoot, edit and screen.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 40489 MULTIMEDIA EXPERIENTIAL LEARNING (DIVG) (ELR) 1 Credit Hour
The Multimedia Experiential Learning course is designed to allow students a deeper understanding of their study abroad experience in Italy and in Florence more in particular, by designing, developing and editing multimedia products about their academic and extra academic experiences. Each semester students are engaged in different activities and consequently have to produce different products: magazines, videos, articles, blog entries, communication campaigns etc. Students will practice an activity of processing information related to their everyday life experiences, visits of exhibitions and museums and meetings with professionals by regularly developing content/stories about these experiences as well as about events taking place in Florence and the other cities visited during their time abroad. The in-class meetings will help students to better focus on the different fieldtrips (Rome, Milan, American Cemetery in Florence and Chianti) that will take place during the semester by providing background information of the Italian context and by better understanding and making sense of the Italian culture. Additionally, students will also visit museums and exhibitions in the city of Florence. These visits will help students to make sense of the city and of the Italian culture.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 1 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 41389 FROM IDEAS TO STORIES: STORYTELLING IN TUSCANY (DIVG) (ELR) 3 Credit Hours
Students will explore and learn from experts about different aspects related to storytelling (ideation, production, editing, distribution) as well as aspects related to the Italian culture such as arts, history, food, fashion etc. With a focus on idea generation and development, students may explore different types of storytelling that apply to different media such as video, photography, design, journalism, advertising and communication campaigns. Students will analyze media content from both a theoretical and pragmatic perspective enriching their knowledge and competences as content creators and storytellers while experiencing and appreciating a foreign culture.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 45089 INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with CCI 55089) This course explores variable topics in communication and information through study abroad experiences outside the United States. Students will travel and learn together through class activities, tours, discussions and other assignments in an international context.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 45091 SEMINAR IN MEDIA AND MOVEMENTS (ELR) 3 Credit Hours
(Slashed with CCI 55091) (Repeatable for credit) The College of Communication and Information's (CCI's) Media and Movements Seminar is a high-impact, immersive educational experience that involves problem-based learning about a significant and highly relevant social issue. The course enables CCI undergraduate and graduate students, as well as students from other Kent State departments and colleges, to apply their communication, research, multimedia storytelling, design, advocacy, data, information and knowledge management skills to help clients and communities affected by the social issue. The seminar relies heavily upon experiential learning and field research and requires students to work independently and as part of interdisciplinary teams to develop public awareness and advocacy campaigns.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CCI 46089 INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) (Slashed with CCI 56089) This course explores variable topics in communication and information through study abroad experiences outside the United States. Students will travel and learn together through class activities, tours, discussions, and other assignments in an international context. This course contains a studio experience.
Prerequisite: None.
Schedule Type: International Experience, Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 48001 COMMUNICATING RISK: GLOBAL EMERGENCIES 3 Credit Hours
(Slashed with CCI 58001) This course examines communication during times of global chaos, catastrophe and recovery, a field also known as high-risk communication (HRC). By studying pandemics, climate crises, terrorism and humanitarian disasters, we will explore the challenges of science and fact-based communication in real-world contexts. We will apply best practices in visual, digital and public communication and media relations to the real-time exchange of information that engages the public, motivates action and saves lives.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 50095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CCI 40095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

CCI 51389 FROM IDEAS TO STORIES: STORYTELLING IN TUSCANY 3 Credit Hours
(Slashed with CCI 41389) Students will explore and learn from experts about different aspects related to storytelling (ideation, production, editing, distribution) as well as aspects related to the Italian culture such as arts, history, food, fashion, etc. With a focus on idea generation and development, students may explore different types of storytelling that apply to different media such as video, photography, design, journalism, advertising and communication campaigns. Students will analyze media content from both a theoretical and pragmatic perspective enriching their knowledge and competences as content creators and storytellers while experiencing and appreciating a foreign culture.
Prerequisite: Graduate standing.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 55089 INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CCI 45089) This course explores variable topics in communication and information through study abroad experiences outside the United States. Students will travel and learn together through class activities, tours, discussions and other assignments in an international context.
Prerequisite: Graduate standing.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CCI 55091 SEMINAR IN MEDIA AND MOVEMENTS 3 Credit Hours
(Slashed with CCI 45091) The College of Communication and Information's (CCI's) Media and Movements Seminar is a high-impact, immersive educational experience that involves problem-based learning about a significant and highly relevant social issue. The course enables CCI undergraduate and graduate students, as well as students from other Kent State departments and colleges, to apply their communication, research, multimedia storytelling, design, advocacy, data, information and knowledge management skills to help clients and communities affected by the social issue. The seminar relies heavily upon experiential learning and field research and requires students to work independently and as part of interdisciplinary teams to develop public awareness and advocacy campaigns.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 56089 INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION 3 Credit Hours
(Repeatable for credit) (Slashed with CCI 46089) This course explores variable topics in communication and information through study abroad experiences outside the United States. Students will travel and learn together through class activities, tours, discussions, and other assignments in an international context. This course contains a studio experience.
Prerequisite: Graduate standing.
Schedule Type: International Experience, Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

CCI 58001 COMMUNICATING RISK: GLOBAL EMERGENCIES 3 Credit Hours
(Slashed with CCI 48001) This course examines communication during times of global chaos, catastrophe and recovery, a field also known as high-risk communication (HRC). By studying pandemics, climate crises, terrorism and humanitarian disasters, we will explore the challenges of science and fact-based communication in real-world contexts. We will apply best practices in visual, digital and public communication and media relations to the real-time exchange of information that engages the public, motivates action and saves lives.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 60000 FOUNDATIONS OF COMMUNICATION AND INFORMATION INQUIRY 3 Credit Hours
(Slashed with CCI 80000) Introduction to epistemological foundations of the Communication and Information (CCI) disciplines, theory construction and academic writing for the CCI PhD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 60001 FOUNDATIONS OF RESEARCH AND SCHOLARSHIP IN COMMUNICATION AND INFORMATION 3 Credit Hours
(Slashed with CCI 80001) Overview of the process of engaging with and presenting empirical research in communication and information, emphasizing the importance of clear conceptualization, meaningful engagement with literature, and effective presentation of findings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 60095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CCI 80095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

CCI 60097 COLLOQUIUM IN COMMUNICATION AND INFORMATION 1 Credit Hour
(Slashed with CCI 80097) The colloquium course provides College of Communication &Information (CCI) master's level students exposure to cutting edge research, professional socialization to the doctoral program, and a platform to present their own research and ideas.
Prerequisite: Graduate standing.
Schedule Type: Colloquium
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCI 61000 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION AND INFORMATION 3 Credit Hours
(Slashed with CCI 81000) This course Investigates quantitative social science methods applicable to the study of communication and information, including survey, content analysis, and experimental approaches. Emphasis is on original and secondary data collection, data analysis, data illustration, and interpreting and reporting research results for scholarly and lay audiences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 62000 QUALITATIVE RESEARCH METHODS IN COMMUNICATION AND INFORMATION 3 Credit Hours
(Slashed with CCI 82000) This course introduces qualitative methodologies and methods applicable to the study of communication and information. Emphasis is on development of ethically sound appropriate methodological choice and development of rigorous study design. Students will be introduced to data collection and learn to present to scholarly and lay audiences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 80000 FOUNDATIONS OF COMMUNICATION AND INFORMATION INQUIRY 3 Credit Hours
(Slashed with CCI 60000) Introduction to epistemological foundations of the Communication and Information (CCI) disciplines, theory construction and academic writing for the CCI PhD.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 80001 FOUNDATIONS OF RESEARCH AND SCHOLARSHIP IN COMMUNICATION AND INFORMATION 3 Credit Hours
(Slashed with CCI 60001) Overview of the process of engaging with and presenting empirical research in communication and information, emphasizing the importance of clear conceptualization, meaningful engagement with literature, and effective presentation of findings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 80094 COLLEGE TEACHING IN COMMUNICATION AND INFORMATION 3 Credit Hours
Training and investigation of best practices for collegiate instruction: course development, classroom performance, evaluation and reflection, introduction to instructional research.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CCI 80095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CCI 80095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

CCI 80096 INDIVIDUAL INVESTIGATION IN COMMUNICATION AND INFORMATION 1-3 Credit Hours
(Repeatable with the approval of the student's advisor for a maximum of 6 credit hours) Independent study of area or problem to be selected in consultation with doctoral faculty.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

CCI 80097 COLLOQUIUM IN COMMUNICATION AND INFORMATION 1 Credit Hour
(Slashed with CCI 60097) The colloquium course provides College of Communication &Information (CCI) master's level students exposure to cutting edge research, professional socialization to the doctoral program, and a platform to present their own research and ideas.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCI 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CCI 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: CCI 80199 or COMM 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CCI 81000 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION AND INFORMATION 3 Credit Hours
(Slashed with CCI 61000) This course Investigates quantitative social science methods applicable to the study of communication and information, including survey, content analysis, and experimental approaches. Emphasis is on original and secondary data collection, data analysis, data illustration, and interpreting and reporting research results for scholarly and lay audiences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 82000 QUALITATIVE RESEARCH METHODS IN COMMUNICATION AND INFORMATION 3 Credit Hours
(Slashed with CCI 62000) This course introduces qualitative methodologies and methods applicable to the study of communication and information. Emphasis is on development of ethically sound appropriate methodological choice and development of rigorous study design. Students will be introduced to data collection and learn to present to scholarly and lay audiences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 85098 RESEARCH IN COMMUNICATION AND INFORMATION 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if doctoral supervisory committee and CCI College Doctoral Program Policy Committee approve.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Communication Studies (COMM)

COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL) 3 Credit Hours
This course offers an overview of communication in interpersonal, group and public contexts. Students will develop a wide range of practical communication skills like listening, giving and receiving constructive feedback, presenting information, persuading audiences and more that will help them succeed in both personal and professional settings. These skills will help prepare students to engage confidently in interpersonal interactions, group discussions and public speaking.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Additional, TAG Communication, Transfer Module Composition

COMM 20000 FOUNDATIONS OF COMMUNICATION 3 Credit Hours
This course serves as an introduction to the major. Provides an introduction to communication studies faculty, research and the major concentrations of the school; highlights possible careers in communication studies; and introduces possible ways students can supplement curriculum efforts through involvement.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 20001 INTERPERSONAL COMMUNICATION 3 Credit Hours
Introduction to human interpersonal communication. Components and structures situations and contexts are described nonevaluative focus with emphasis on informal experience.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Communication

COMM 26000 CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM) 3 Credit Hours
A critical examination of selected public speeches representing diverse viewpoints on a variety of historic and contemporary issues, emphasizing methods of evaluating public oral communication and the role of speechmaking in free societies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Humanities, Transfer Module Humanities

COMM 30000 COMMUNICATION RESEARCH METHODS 3 Credit Hours
Communication research skills are marketable for career advancement. This course provides basic skills in communication research in order to evaluate and have conversations about research findings with others. The class gives students the tools to know what questions to ask when an individual, social media post, or organization uses research to back up thinking, make an argument, or come to a decision. Students will learn how to conduct interviews, focus groups, surveys and other research tools and interpret that information to be competitive in industries such as, media companies, nonprofit and public relations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 34000 DIFFICULT DECISIONS IN COMMUNICATION (WIC) 3 Credit Hours
Right and wrong. Good and bad. Moral and immoral. These phrases are commonly used to describe the decisions people must make daily. Communication professionals must wrestle with ethical issues like privacy, transparency, representation, advocacy, power, truthfulness. In this course, students will explore the complex circumstances surrounding the rights and responsibilities of the current communication landscape to prepare them for life after graduation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

COMM 35464 ARGUMENTATION AND PERSUASIVE COMMUNICATION 3 Credit Hours
Students will be introduced to principles and practices of effective argumentation and persuasive communication. Through exposure to rhetorical and social scientific theories, students will engage in research to develop argumentative cases and assess persuasive messaging strategies in mediated contexts. The course emphasizes processes of reasoning, the nature and use of evidence, recognition of common fallacies, media and information literacy, and generation and construction of valid and ethical arguments. Assignments will allow students to practice argumentation and persuasive communication as well as develop critical thinking skills needed to evaluate arguments and persuasive messages.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35600 COMMUNICATION IN SMALL GROUPS AND TEAMS 3 Credit Hours
Focuses on the application and practice of group communication skills and techniques applied to goal-oriented small group situations. Course explores communication theory and research about small groups and teams, relating in group and teams, managing conflict in groups and teams, leadership in groups and teams and problem-solving in groups and teams.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Communication

COMM 35852 INTERCULTURAL COMMUNICATION (DIVG) 3 Credit Hours
Theory and application of communication between people of different cultures and different national systems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

COMM 35860 INTERVIEWING 3 Credit Hours
Techniques, principles and practical skills for interviews most likely to occur in business environments; job searches and selection interviews, information-gathering interviews, performance appraisals, counseling interviews and persuasive interviews.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35863 BUSINESS AND PROFESSIONAL COMMUNICATION 3 Credit Hours
This course covers public and conference speaking, conducting meetings, electronic presentations, interviewing and interpersonal relations as applied to business and organizational settings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35864 ORGANIZATIONAL COMMUNICATION 3 Credit Hours
Application of communication theory to organizational settings. Exploration of communication structures processes and methods in organizations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35902 COMMUNICATION THEORY 3 Credit Hours
Study of the process of human communication. Emphasis on source, message, channel and receiver dimensions of communication. Examination of major theories of communication and social influence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35912 GENDER AND COMMUNICATION (DIVD) 3 Credit Hours
Explores how gender is socially constructed in everyday communicative interactions and institutional contexts, including close relationships, organizations, school settings and the media. In the process, this course uncovers how the social construction of gender perpetuates power imbalances in society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

COMM 36001 PUBLIC COMMUNICATION IN SOCIETY 3 Credit Hours
Examines communication in public settings. Content includes communication campaigns, corporate crisis communication, public opinion and communication issues in executive, legislative and judicial settings. Students explore the influence of mediated messages via application of mass communication theories and constructs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 36500 HEALTH COMMUNICATION 3 Credit Hours
Introduction to the roles of communication in health, health and risk behavior, health care, and health promotion, including interpersonal, organizational and media contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 37091 SEMINAR IN COMMUNICATION AND POPULAR CULTURE 3 Credit Hours
(Repeatable twice for credit) Popular culture is driven by communication. The messages contained in that communication can be both prescriptive and descriptive and can reveal much about people's culture, attitudes, fears, values and perceptions of reality. Course will focus on messages contained in various popular culture artifacts including, but not limited to film, television, internet, music and literature.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 40095 SPECIAL TOPICS IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit) (Slashed with COMM 50095 and COMM 70095) Special topic courses cover emerging issues or specialized content in Communication Studies that is not represented in the existing curriculum. Not offered every semester.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

COMM 41000 SPORTS COMMUNICATION 3 Credit Hours
An examination of the inter-relationship between sports and communication in today's society. Students discuss and examine sports through communication lenses (groups, interpersonal, media/mediated and organizational).
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 42000 MEDIA, WAR AND PROPAGANDA 3 Credit Hours
Examines the influence of TV, movies, and media images of war, the war effort and portrayals of enemies, protesters and anti-war groups on communication research, including mass communication and persuasion.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 43000 COMMUNICATION TECHNOLOGY AND HUMAN INTERACTION 3 Credit Hours
Course aims to help students develop a critical understanding of diverse newer media and how they are used and affect human interaction. In achieving this goal, students are expected to learn how newer media are different from and similar to face-to-face communication or traditional mass media, newer media's social and psychological effects on human interactions, and theoretical frameworks explaining these media.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45006 MEDIA USE AND EFFECTS 3 Credit Hours
The course examines the ways in which communication scholars have conceptualized and analyzed media processes, uses and effects. We explore such issues as media portrayals, news coverage, political campaigns, sex and violence in the media, media entertainment, children and television, and newer communication technologies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45007 FREEDOM OF SPEECH 3 Credit Hours
(Slashed with COMM 55007) What kind of speech is protected by the First Amendment? What can the government censor? How have issues like libel, slander, sedition, blasphemy, obscenity and words that provoke people to anger affect how we communicate in today's society? It seems simple at first, "Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the government for a redress of grievances." Yet, ever since its adoption, these 45 words have been a point of contention for citizens, the Supreme Court and the government. This course will help students grasp why the First Amendment is an important part of American life, what it protects and why it matters personally and professionally.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45091 SEMINAR IN COMMUNICATION STUDIES 3 Credit Hours
(Repeatable for credit) Examination of selected communication topics/areas and related research.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 45092 INTERNSHIP IN COMMUNICATION STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) A formal, cooperative field experience with a designated organization or agency as designed by the student and the internship coordinator.
Prerequisite: Minimum C grade in COMM 34000 or COMM 45902.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

COMM 45196 INDEPENDENT STUDY: COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) Readings and/or research on problems approved by undergraduate coordinator in consultation with student's adviser and faculty project director.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 45459 COMMUNICATION AND CONFLICT MANAGEMENT 3 Credit Hours
(Slashed with COMM 55459) Conflict is inevitable in relationships, but it doesn't have to destroy them. This course highlights how effective conflict management leads to happier and more fulfilling relationships. It also provides students with essential communication skills for resolving conflicts in personal and professional environments.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45660 POLITICAL COMMUNICATION 3 Credit Hours
Modern society requires us to communicate with others to craft laws and policies, address competing needs and select our representatives. This course will provide an overview of this political communication process. Course content includes the importance of communication in democracies, the role of media in politics, ways to analyze political messages and studies of contemporary campaigns.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45678 SOCIAL MEDIA AND GLOBALIZATION 3 Credit Hours
The course introduces students to social media and how they operate in a globalized context. Through the relevant literature, students will be able to use key theoretical tools to understand and critically analyze implications of globalization and social media on issues related to communication, social inequalities, citizenship, and youth cultures. The students will navigate the relationship between globalization and social media processes through practical examples including media texts, audiovisual material, social media content, etc. In class, the students will be expected to fully engage in discussions and group activities designed to emphasize their individual, professional, and academic growth.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45756 INTERNATIONAL COMMUNICATION 3 Credit Hours
International communication examines global communication approaches as they relate to issues of justice, equity and peaceful coexistence. The course critically examines the role of communication in shaping international politics, public diplomacy, social movements and across border cultural practices. Specifically, it engages with global communication and information inequalities and how this divide is intertwined with economic, environmental and material disparities that hinder the development aspirations of communities in non-Western contexts. Driven by the proposition that the sustainability of our planet and its inhabitants rests upon global collaboration—not competition—the course puts communication as a cornerstone of global understanding. By closely studying actors such as nation states, corporations, hackers, and activists, students will be equipped with theoretical and practical literacies of international communication that empower them to respond to our shared problems ranging from the climate crisis to pandemics, and, in doing so, advocate for a just, equitable and sustainable global society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45760 MEDIA AND NATIONALISM 3 Credit Hours
The goal of this course is to introduce and discuss the images, signs, symbols, commodities, cultural commercial products and personal and collective identities that emerge and circulate through mundane engagement with commodities and global media forms. Students will analyze connections and tensions between the forces of nationalism and the forces of globalization and explore some of the scholarly literature about the role of the media and consumer culture in those tensions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours
Offers a broad-based treatment of a variety of topics in our "globalizing" world from the standpoint of communication. Considers the importance of communication on multiple levels of the international landscape, ranging from the very ways globalization is defined and framed to new communication media and networks, to campaigns and debates about global issues, and including the transformation of organizational and institutional relationships as well as local-to-global interactions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45776 COMMUNICATION AND TERRORISM 3 Credit Hours
This course examines many facets of terrorism, including its historic roots and its social, political, ethnic, geographic, moral and spiritual causes. Students will be challenged to understand basic definitions of terrorism and think beyond conventional assumptions about terrorist organizations, especially assumptions derived from mass media, popular culture and Western biases. We will examine two central premises: first, that communication – spoken/written, traditional/nontraditional, public/private, visual/symbolic – is a both a tool and the goal of organized terrorism; and second, that terrorist organizations use brand-positioning strategies we often associate with commercial entities. Students will be required to think deeply, critically and objectively about the narratives, messages, images and symbolism used by past and present-day terrorist movements.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45807 HIGH IMPACT PROFESSIONAL SPEAKING 3 Credit Hours
Principles and practices of effective communication in a variety of professional contexts. Emphasis on professional presentation skills development.
Prerequisite: COMM 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45865 ORGANIZATIONAL COMMUNICATION TRAINING AND DEVELOPMENT (ELR) 3 Credit Hours
This course prepares students for careers as professional development specialists, communication consultants and corporate coaches. They acquire practical skills to design and deliver communication training programs using a needs centered approach. Theory and application underpin a comprehensive training approach, incorporating contemporary best practices and real-world applications for effective modern training.
Prerequisite: COMM 35864.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

COMM 45902 COMMUNICATION AND INFLUENCE (WIC) 3 Credit Hours
Explores theories and strategies of social influence in contemporary society. Students discuss and critique influential communication practices such as interpersonal persuasion, product and services advertisements, social movements and political messages.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

COMM 45903 COMMUNICATION CAMPAIGNS (ELR) 3 Credit Hours
The primary purpose of this course is to enable students to understand the fundamentals of how persuasive communication campaigns are developed, implemented and evaluated.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

COMM 45957 LANGUAGE IN THE 21ST CENTURY 3 Credit Hours
An overview of how languages affect the way we communicate with each other. In this course, students will learn about verbal and nonverbal communication, language evolution, cultural differences in language, language and social change, languages in traditional and social media and language in the workplace.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45959 NONVERBAL COMMUNICATION 3 Credit Hours
Students will explore how we create meaning through nonverbal behaviors including physical appearance, eye behavior, facial expressions, gesture, posture and voice. In addition, readings and class discussions investigate nonverbal communication in online platforms, impression management, flirting behaviors and how to detect deception. The importance of culture in interpreting nonverbal codes will be emphasized, along with understanding how nonverbal and verbal codes interact in different communication contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 46091 SENIOR SEMINAR (ELR) 3 Credit Hours
(Repeatable for credit) Senior Seminar is an advanced level course that features current topics in communication and is driven by problem-analysis and a search for solutions. In-depth exploration and analysis of a communication issue is an opportunity for students to synthesize coursework and communication experiences into transferable skills and applications. A summative experience, this course may result in a research project or paper, portfolio, multimedia presentation, community-based initiative, and or a public presentation. Topics vary based on faculty expertise and research interests. The Senior Seminar course is applied and experiential.
Prerequisite: Senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

COMM 46507 COMMUNICATION FOR HEALTH AND WELL-BEING 3 Credit Hours
From bullying to social support, whether face-to-face or on Instagram, interpersonal communication affects wellness. This course is designed to help students demonstrate the many ways that our interpersonal and mediated interactions with friends, family and acquaintances can affect our health and well-being. Students will also learn about communication tools that can help reduce health risks and bolster their health and the health of others.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 46601 COMMUNICATION IN RELATIONSHIPS 3 Credit Hours
Synthesizes theory and research about communication in the development, maintenance and dissolution of the relationships of romantic partners, personal friends, professional colleagues, spouses and family members. Sub-topics include personal identity, culture, social attraction, self-disclosure, relationship stages, affection, love, sex, social support, conflict, power dynamics, hurt, jealousy and infidelity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 46605 COMMUNICATION ACROSS THE LIFESPAN (DIVD) 3 Credit Hours
Explores common life stages (childhood, youth, midlife and old age) and the transitioning of communication within and between these different stages of development. Sub-topics include life span communication and: family, friendships, social and gender role development, multigenerational workplace and the use of varied communication technologies facilitating human interaction across the life span.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

COMM 46608 FAMILY COMMUNICATION 3 Credit Hours
Examines the interactions among individuals in families. Sub-topics of the course include family communication and storytelling, identity, rules, conflict, intimacy, stress, external influences on family communication, and family communication and the media.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 50095 SPECIAL TOPICS IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit) (Slashed with COMM 40095 and COMM 70095) Special topic courses cover emerging issues or specialized content in Communication Studies that is not represented in the existing curriculum. Not offered every semester.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

COMM 55007 FREEDOM OF SPEECH 3 Credit Hours
(Slashed with COMM 45007) What kind of speech is protected by the First Amendment? What can the government censor? How have issues like libel, slander, sedition, blasphemy, obscenity and words that provoke people to anger affect how we communicate in today's society? It seems simple at first, "Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the government for a redress of grievances." Yet, ever since its adoption, these 45 words have been a point of contention for citizens, the Supreme Court and the government. This course will help students grasp why the First Amendment is an important part of American life, what it protects and why it matters personally and professionally.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 55093 VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit)Variable topic workshop in communication studies.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

COMM 55459 COMMUNICATION AND CONFLICT MANAGEMENT 3 Credit Hours
(Slashed with COMM 45459) Conflict is inevitable in relationships, but it doesn't have to destroy them. This course highlights how effective conflict management leads to happier and more fulfilling relationships. It also provides students with essential communication skills for resolving conflicts in personal and professional environments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 55766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours
(Slashed with COMM 45766) Offers a broad-based treatment of a variety of topics in our "globalizing" world from the standpoint of communication. Considers the importance of communication on multiple levels of the international landscape, ranging from the very ways globalization is defined and framed to new communication media and networks, to campaigns and debates about global issues, and including the transformation of organizational and institutional relationships as well as local-to-global interactions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 60199 THESIS I 2-6 Credit Hours
Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester or distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: COMM 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 61198 MASTERS PROJECT IN COMMUNICATION STUDIES 3 Credit Hours
One of the non-thesis options for graduation. Students propose a theory-driven applied research project on a communicative phenomenon or issue. The final written paper is evaluated by the students' academic advisor and the Graduate Coordinator to deem satisfactory for graduation.
Prerequisite: COMM 65000 and COMM 65020 and COMM 65652.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 64092 MASTERS INTERNSHIP IN COMMUNICATION STUDIES 3 Credit Hours
(Repeatable for credit) One of the non-thesis options for graduation. Students choose and secure an internship position with a designated organization or agency that requires the student to utilize communication skills and knowledge. Students complete 135 hours of internship. The employer, the academic advisor, and the Graduate Coordinator evaluate the student's overall performance. The advisor and the Graduate Coordinator determine whether the student complete the requirements.
Prerequisite: COMM 65000 and COMM 65020 and COMM 65652; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 65000 FOUNDATIONS OF COMMUNICATION AND ADVOCACY 3 Credit Hours
(Slashed with COMM 85000) This course will introduce students to the foundation of scientific inquiry and its application to effective advocacy generally and communication studies specifically. Research in the field of communication has been central to the study and practice of advocacy. Students will learn about the history of the field and representative communication perspectives and paradigms that have been central to the study and practice of advocacy in different contexts. In this course, students will explore how communication has played a role in advocacy and social change. Students will understand the root and the development of the field and thinking related to advocacy and will evaluate, critique and synthesize communication literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65020 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours
(Slashed with COMM 75020) An examination of basic quantitative social scientific research methods and procedures for the study of communication.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65040 QUALITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours
Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data participant observation, and archival strategies of data collection and interpretive and interactionist approaches to data analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65070 SOCIAL INFLUENCE 3 Credit Hours
(Slashed with COMM 85070) This course explores theories, ethics, and strategies of social influence in contemporary society. Students discuss and critique influential communication practices such as advocacy, interpersonal persuasion, product and services advertisements, social movements and political messages.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 65093 VARIABLE TITLE WORKSHOP IN COMMUNICATION 1-6 Credit Hours
(Repeatable for credit)Variable topic workshop in communication studies.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

COMM 65096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with COMM 75096) Independent study of area or problem to be selected in consultation with graduate staff.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 65098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for master's level graduate students. Credits may be applied toward meeting degree requirements if school approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 65591 SEMINAR IN COMMUNICATION STUDIES 3 Credit Hours
(Repeatable for credit) (Slashed with COMM 75591) Seminar course in various research areas centered in communication studies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 65652 THEORIES OF COMMUNICATION 3 Credit Hours
(Slashed with COMM 75652) Introduction to approaches in the study of human communication. Focuses on differing views of interaction from theory building and research-generation perspective.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65660 POLITICAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 75660) (Crosslisted with JMC 65660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65661 COMMUNICATION IN AN INFORMATION SOCIETY 3 Credit Hours
(Slashed with COMM 75661) Examines how the development and use of newer communication technologies have influenced human communication. Considers the evolution, social and psychological impact, and culture of newer communication technologies such as the Internet, and how research adapts to these newer media.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65662 MEDIA EFFECTS 3 Credit Hours
(Slashed with COMM 85662) This course examines the uses and effects of mediated communication, media processes, how information flows through societies, and audience reactions to media messages. Attention is paid to diverse channels, audiences and representations in media across a range of contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65665 PERSONAL AND MEDIATED COMMUNICATION 3 Credit Hours
(Slashed with COMM 75665) Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co- viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65670 INTERPERSONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 75670) Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development, interaction, interpersonal traits, compliance, conversational analysis and research methods.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT 3 Credit Hours
(Slashed with COMM 85675) Communication, uncertainty, and the management of private information examines theory and research about disclosure and uncertainty issues in communication in a variety of contexts. Course content examines disclosure and uncertainty management applications in relational contexts, health contexts, organizational contexts, and contexts involving human interaction occurring through technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65677 RELATIONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 85677) Relational communication provides an exploration of theory and research about the interactions among individuals in personal relationships. Subtopics of the course include communication and the development, maintenance, and dissolution of personal relationships, relationships across the life span, individual differences in relationships and relational processes, qualities and outcomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65683 INTERGROUP COMMUNICATION 3 Credit Hours
(Slashed with COMM 85683) Overview of theory and research of communication between groups of individuals, including issues of discrimination, language, identity, social status, religion and demographics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65686 INTERCULTURAL AND INTERGROUP COMMUNICATION 3 Credit Hours
This course will introduce students to intercultural and intergroup communication and factors contributing to successful communication among different cultures and social groups. In this course, we will discuss issues pertaining to identities and their relationships with advocacy intervention strategies. After completing this course, students will be able to analyze interactions among various groups from cultural and socio-psychological perspectives. They will learn to describe and discuss current issues of intercultural and intergroup communication by taking a critical and analytical approach. Furthermore, they will propose advocacy interventions based on their assessment of communication needs to improve relationships between members of cultures and/or social groups.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65794 TEACHING OF COLLEGE COMMUNICATION 3 Credit Hours
(Repeatable for credit) (Slashed with COMM 75794) Training and experience in college teaching. Maximum of three hours applicable toward master's degree requirements.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65851 ORGANIZATIONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 85851) Structure, methodology and application of communication theory in industrial and organizational settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65891 SEMINAR IN ORGANIZATIONAL COMMUNICATION 3,4 Credit Hours
(Repeatable for credit) Theories and problems of human communication within, between and/or among formal organizations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3-4 other
Grade Mode: Standard Letter

COMM 66501 HEALTH COMMUNICATION 3 Credit Hours
(Slashed with COMM 86501) This course provides an overview of the ways health communication can empower individuals and communities to improve their health and well-being. Students will learn about theoretical and practical tools for communicating about and enhancing health in personal, community and healthcare contexts. In addition, the course explores how effective partnerships between researchers and community groups can be utilized in community-based participatory research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 70095 SPECIAL TOPICS IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit) (Slashed with COMM 40095 and COMM 50095) Special topic courses cover emerging issues or specialized content in Communication Studies that is not represented in the existing curriculum. Not offered every semester.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

COMM 75020 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours
(Slashed with COMM 65020) An examination of basic quantitative social scientific research methods and procedures for the study of communication.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75040 QUALITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours
(Slashed with COMM 65040) Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data, participant observation and archival strategies of data collection and interpretive and interactionist approaches to data analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75093 VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit) Variable title workshop in communications.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

COMM 75096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours
(Repeatable for credit) (Slashed with COMM 65096) Independent study of area or problem to be selected in consultation with graduate staff.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 75591 SEMINAR IN COMMUNICATION STUDIES 3 Credit Hours
(Repeatable for credit) (Slashed with COMM 65591) Seminar course in various research areas centered in communication studies.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 75652 THEORIES OF COMMUNICATION 3 Credit Hours
(Slashed with COMM 65652) Introduction to approaches in the study of human communication. Focuses on differing views of interaction from theory building and research generation perspective.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75660 POLITICAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 65660 and COMM 75660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75661 COMMUNICATION IN AN INFORMATION SOCIETY 3 Credit Hours
(Slashed with COMM 65661) Examines how the development and use of newer communication technologies have influenced how people communicate. Considers the evolution, social and psychological impact and culture of newer communication technologies (especially the Internet) and how research adapts to such technologies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75665 PERSONAL AND MEDIATED COMMUNICATION 3 Credit Hours
(Slashed with COMM 65665) Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co-viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75670 INTERPERSONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 65670) Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development, interaction, interpersonal traits, compliance, conversational analysis and research methods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75794 TEACHING OF COLLEGE COMMUNICATION 3 Credit Hours
(Repeatable for credit) (Slashed with COMM 65794) Training and experience in college teaching. Maximum of three hours applicable toward doctoral degree requirements.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75891 SEMINAR IN ORGANIZATIONAL COMMUNICATION 3,4 Credit Hours
(Repeatable for credit)Theories and problems of human communication within, between and/or among formal organizations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3-4 other
Grade Mode: Standard Letter

COMM 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: COMM 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 85000 FOUNDATIONS OF COMMUNICATION AND ADVOCACY 3 Credit Hours
(Slashed with COMM 65000) This course will introduce students to the foundation of scientific inquiry and its application to effective advocacy generally, and communication studies specifically. Research in the field of communication has been central to the study and practice of advocacy. Students will learn about the history of the field and representative communication perspectives and paradigms that have been central to the study and practice of advocacy in different contexts In this course, students will explore how communication has played a role in advocacy and social change. Students will understand the root and the development of the field and thinking related to advocacy, and will evaluate, critique and synthesize communication literature.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85070 SOCIAL INFLUENCE 3 Credit Hours
(Slashed with COMM 65070) This course explores theories, ethics, and strategies of social influence in contemporary society. Students discuss, and critique influential communication practices such as advocacy, interpersonal persuasion, product and services advertisements, social movements, and political messages.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 85098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if school approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 85662 MEDIA EFFECTS 3 Credit Hours
(Slashed with COMM 65662) This course examines the uses and effects of mediated communication, media processes, how information flows through societies, and audience reactions to media messages. Attention is paid to diverse channels, audiences, and representations in media across a range of contexts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT 3 Credit Hours
(Slashed with COMM 65675) Communication, uncertainty and the management of private information examines theory and research about disclosure and uncertainty issues in communication in a variety of contexts. Course content examines disclosure and uncertainty management applications in relational contexts, health contexts, organizational contexts, and contexts involving human interaction occurring through technology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85677 RELATIONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 65677) Relational communication provides an exploration of communication theory and research about the interactions among individuals in personal relationships. Subtopics of the course include communication and the development, maintenance, and dissolution of personal relationships, relationships across the life span, individual differences in relationships and relational processes, qualities and outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85683 INTERGROUP COMMUNICATION 3 Credit Hours
(Slashed with COMM 65683) Overview of theory and research of communication between groups of individuals, including issues of discrimination, language, identity, social status, religion and demographics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85851 ORGANIZATIONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 65851) Structure, methodology and application of communication theory in industrial and organizational settings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 86501 HEALTH COMMUNICATION 3 Credit Hours
(Slashed with COMM 66501) This course provides an overview of the ways health communication can empower individuals and communities to improve their health and well-being. Students will learn about theoretical and practical tools for communicating about and enhancing health in personal, community, and healthcare contexts. In addition, the course explores how effective partnerships between researchers and community groups can be utilized in community-based participatory research.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Computer Information Systems (CIS)

CIS 24053 INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES 3 Credit Hours
(Equivalent to IT 11000) This foundational course introduces students to hands-on application of contemporary information systems and digital technologies. From personal devices to cloud infrastructure and traditional office applications to cloud and enterprise systems. Students learn important concepts and theories and begin building their inventory of technical skills to solve problems for immediate application, to earn industry-valued certifications and to prepare for advanced coursework.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

CIS 24065 WEB PROGRAMMING 3 Credit Hours
Principles of visual design as applied to Web site interface development. The course exposes students to the basics of programming and relational database and how to develop a Web-based database driven interactive information system.
Prerequisite: CIS 24053.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 24093 VARIABLE TITLE WORKSHOP IN MANAGEMENT AND INFORMATION SYSTEMS 1-6 Credit Hours
(Repeatable for credit) Special workshop in management and information systems. Credits depend on scope of project.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CIS 24167 CLOUD INFRASTRUCTURE AND APPLICATIONS 3 Credit Hours
Information systems is critical to the efficient operation of any organization today, such as in hiring employees, performing background checks, ordering/creating products, transacting businesses, and providing follow-up services, among others. These can be large “integrated systems” or ERPs or loose collection of “Apps.” This class explores the various alternatives available today and the likely future of new products in the future. Different viewpoints and debates will be explored in the class with opportunities for students to discuss and present their thoughts.
Prerequisite: Minimum C+ grade in CIS 24053; and minimum 2.250 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34032 DATA AND FILE TECHNOLOGY 3 Credit Hours
An introduction to file architecture and data base management systems. The application of these technologies is detailed.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34034 BUSINESS MODELING AND AGILE DESIGN 3 Credit Hours
Introduction to innovative modeling and reengineering methods, tools, and techniques such as Agile and SCRUM methods to analyze real-world business problems and offer solutions using existing and emerging digital technologies such as artificial intelligence, smart devices (Internet of Things), cybersecurity and the metaverse/augmented reality/eXtensible reality.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34045 SMALL SYSTEMS TECHNOLOGY 3 Credit Hours
An examination of the role of small computer systems within an organization's information systems environment.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34054 USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS 3 Credit Hours
Digital technologies are dramatically changing businesses and societies. Students will learn about how information systems (IS) are impacting various facets of business and society. Students will also learn about emerging digital technologies such as artificial intelligence, business data analytics, cryptocurrencies and FinTechs, smart devices, cybersecurity, and digital transformation with hands-on assignments related to building and delivering digital innovations for business and society.
Prerequisite: CIS 24053 or IT 11000; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34167 DESIGNING INNOVATIVE PROGRAMS AND APPS 3 Credit Hours
Course on front-end (client-side or user) design exposes students to the process of interface design, starting with the development of mobile-first interface prototypes using techniques such as wireframing and fun coding with HTML, CSS, JavaScript and JQuery. This course may offer certification opportunities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44008 MANAGING AGILE DIGITAL TRANSFORMATION PROJECTS 3 Credit Hours
(Slashed with CIS 54008) Drawn on the modern foundations of software development, this course will offer an overview and hands-on experience of the agile methodologies and techniques (e.g., Scrum, extreme programming) to support the agile implementation of digital transformation projects/strategies in organizations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44040 DESIGNING INNOVATIVE SERVER-SIDE SYSTEMS 3 Credit Hours
Course, on back-end (server-side) design, exposes students to the process of linking the front-end client interfaces to work with powerful servers that perform the magic in the background. Students will be exposed to topics such as server-side and serverless computing, and will use modern web languages such as but not limited to Python, NodeJS, Angular, React and Vue.
Prerequisite: CIS 34167.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44041 MANAGING CYBERSECURITY 3 Credit Hours
(Slashed with CIS 54041) Course explores digital technologies and business issues related to cybersecurity management. It offers the foundations to understand the cybersecurity threats and privacy risks embedded in the implementation of emerging digital technologies (e.g., artificial intelligence, smart devices, collaborative tools) and the execution of digital transformation projects/strategies. The course will also facilitate the development of technological skills to design, implement, and evaluate cybersecurity policies in organizations. The course offers certification opportunities.
Prerequisite: CIS 24053 and CIS 34054 with a minimum C+ grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44042 NETWORK THEORY AND APPLICATIONS 3 Credit Hours
Presentation of current and emerging network technologies and services in business applications and performance issues. Topics include transmission media, modulation and signaling schemes, switching and multiplexing techniques, local and wide area network protocols and standards, and internetworking devices.
Prerequisite: Minimum C+ grade in CIS 24053 and C grade in CIS 24065; and minimum overall 2.250 GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44043 DATABASE DESIGN AND DATA GOVERNANCE 3 Credit Hours
Databases provide the fundamental foundation for modern IT applications. Students will learn the basics of database design by working with relational SQL and NoSQL databases in a hands-on environment. Students will also learn to integrate data governance fundamentals into their database designs.
Prerequisite: CIS 34167.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44046 HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION 3 Credit Hours
(Slashed with CIS 54046) Course will cover some of the latest trends and future predictions for business value creation from digital technology investments in companies. This course has two key objectives. First, it will provide students with the theoretical foundations and techie-savvy managerial skills to create business value from their digital technology investments. Second, it will examine the digital technology selection, usage, exploitation and growth for different purposes (e.g., transformation, innovation and getting a competitive advantage). The course offers certification opportunities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44048 BUILDING SOLUTIONS FOR BUSINESSES (ELR) (WIC) 3 Credit Hours
Just like in industry, students will learn to work together in teams composed of information systems (IS) managers and IS designers to develop fully workable innovative projects (using existing and emerging technologies such as AI, smart devices (IoTs), cybersecurity and XR (eXtensible reality) for a real client. Students will use their diverse knowledge and previous learning as well as articulate their IT-based business solutions for business via "writing-intensive" industry-white papers and client-facing presentations, with regular instructor guidance and feedback.
Prerequisite: Minimum 2.250 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CIS 44093 VARIABLE TITLE WORKSHOP IN MANAGEMENT AND INFORMATION SYSTEMS 1-6 Credit Hours
(Repeatable for credit) Variable title workshop courses offered under Computer Information Systems.
Prerequisite: Minimum 2.25 overall GPA.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CIS 44095 SPECIAL TOPICS IN COMPUTER INFORMATION SYSTEMS 3 Credit Hours
(Repeatable for credit) Offered on a semester basis with different CIS topics and different faculty involved each time the course if offered.
Prerequisite: Minimum 2.250 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44151 INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CIS 54151) Students, in teams, will learn how to build agile and fast prototypes using "low-code, no-code" programming, artificial intelligence, Microsoft Power BI, and Microsoft Power Automate to digitally convert and create digital-first workflows and AI-based solutions with emphasis on requirements engineering and feasibility planning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44292 BUSINESS EXPERIENCE AND INTERNSHIP (ELR) 3 Credit Hours
(Repeatable for credit) Learning by experience and practice in an IT related company. The course exposes students to the various areas and activities related to the information systems profession in a cooperating organization.
Prerequisite: Minimum C+ grade in CIS 24053; and minimum 2.250 overall GPA.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CIS 44293 WORKSHOP IN PROFESSIONAL INFORMATION SYSTEMS CERTIFICATION 3 Credit Hours
(Repeatable for Credit) Supervised workshop designed to help students pass at least one VMware, Microsoft or other vendors' professional certification credentials. The student chooses the exam to take, with the course providing a supported self-study opportunity to prepare for the exam.
Prerequisite: Minimum C+ grade in CIS 24053; and minimum 2.250 overall GPA.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Standard Letter

CIS 44295 SPECIAL TOPICS IN INFORMATION SYSTEMS 3 Credit Hours
(Slashed with CIS 54295) (Repeatable for credit) Special topics course on the newest advances in information systems and how they support business activities. New and emerging topics in information systems are presented experimentally, with the content of the course changing from one offering to another.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54008 MANAGING AGILE DIGITAL TRANSFORMATION PROJECTS 3 Credit Hours
(Slashed with CIS 44008) Drawn on the modern foundations of software development, this course will offer an overview and hands-on experience of the agile methodologies and techniques (e.g., Scrum, extreme programming) to support the agile implementation of digital transformation projects/strategies in organizations.
Prerequisite: Graduate standing; or special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54041 MANAGING CYBERSECURITY 3 Credit Hours
(Slashed with CIS 44041) Course explores digital technologies and business issues related to cybersecurity management. It offers the foundations to understand the cybersecurity threats and privacy risks embedded in the implementation of emerging digital technologies (e.g., artificial intelligence, smart devices, collaborative tools) and the execution of digital transformation projects/strategies. The course will also facilitate the development of technological skills to design, implement, and evaluate cybersecurity policies in organizations. The course offers certification opportunities.
Prerequisite: Admission to MBA or MSBA program; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54046 HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION 3 Credit Hours
Course will cover some of the latest trends and future predictions for business value creation from digital technology investments in companies. This course has two key objectives. First, it will provide students with the theoretical foundations and techie-savvy managerial skills to create business value from their digital technology investments. Second, it will examine the digital technology selection, usage, exploitation and growth for different purposes (e.g., transformation, innovation, and getting a competitive advantage). The course offers certification opportunities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54151 INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CIS 44151) Students, in teams, will learn how to build agile and fast prototypes using "low-code, no-code" programming, artificial intelligence, Microsoft Power BI and Microsoft Power Automate to digitally convert and create digital-first workflows and AI-based solutions with emphasis on requirements engineering and feasibility planning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54295 SPECIAL TOPICS IN INFORMATION SYSTEMS 3 Credit Hours
(Slashed with CIS 44295) (Repeatable for credit) Special topics course on newest advances in information systems and how they support business activities. New and emerging topics in information systems are presented experimentally, with the content of the course changing from one offering to the another.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 64042 GLOBALIZATION AND TECHNOLOGY STRATEGY 2 Credit Hours
This course is designed for anyone dealing with technology in a globalized economy. Technology is pervasive in today's globalized world. Given that technology is central to every business operation, learning to manage technology in a global context is crucial. This course uses technology management as the central cog that impacts multiple business and social facets, including digital transformation, cybersecurity, international operations, sustainability, marketing, finance, culture, human capital and the political economy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CIS 74042 GLOBALIZATION AND TECHNOLOGY STRATEGY 3 Credit Hours
Focus is on the strategic issues around how a firm should manage its technology in a global market. Strategic issues include understanding the technological and competitive landscape, innovations, competitive advantages in the high-tech marketplace, outsourcing and information ethics. The core emphasis in on integrated decision-making in the age of globalization.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84008 THEORY DEVELOPMENT IN INFORMATION SYSTEMS RESEARCH 3 Credit Hours
Course offers the core foundations for theorizing in Information Systems research and provides the platform to develop world-class scientific skills to identify a relevant business and research problem to formulate compelling research questions. Students will learn the key ingredients of a theory and the approaches to building a theory. They will also understand the distinctions between variance and process models and how to build multilevel theories and use multidimensional constructs. They will assimilate the ingredients of a theory including constructs, measures, functional forms of relationships, assumptions and boundary conditions. Students will also discover how to leverage context and time in theory development in Information Systems research. While this course can be useful for doctoral students from other Business Administration or Social Sciences disciplines.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84009 ARTIFICIAL INTELLIGENCE AND CYBERSECURITY MANAGEMENT 3 Credit Hours
Course is designed to provide a comprehensive understanding of how AI technologies are transforming the landscape of cybersecurity, posing new challenges and opportunities for organizations. Students engage with a range of topics, from the fundamentals of AI and machine learning to advanced cybersecurity strategies, ethical considerations and policy development. Course emphasizes critical thinking and research skills, enabling students to analyze complex scenarios. Through a blend of theoretical knowledge and practical applications, students learn how AI algorithms can be employed for threat detection, risk management and response automation. They also examine the vulnerabilities and ethical concerns AI introduces into cybersecurity, such as biases in AI algorithms and the potential for AI-driven cyber attacks. Course prepares students to conduct and publish high-quality research in AI and cybersecurity management. It aims to cultivate a new generation of scholars and practitioners who can navigate and shape the future of cybersecurity in an AI-driven world.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84083 THE BRIGHT AND DARK SIDES OF DIGITAL TECHNOLOGIES 3 Credit Hours
Course meticulously explores the dual facets of the bright and dark sides of digital technologies. Covering a wide array of emerging technologies (Internet of Things), ethical considerations (data privacy, algorithmic bias) and theoretical frameworks (digital responsibility and socio-technical systems). Students will gain a profound understanding of the forefront of IS research. Course will also explore the various bright (digital responsibility, inclusion, accessibility) and dark sides (technostress, digital addiction, online harassment) of digital technologies at both individual (employees, individuals, customers) and organizational levels, with a primary focus on the individual.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84084 BUSINESS VALUE OF DIGITAL TRANSFORMATION 3 Credit Hours
Doctoral seminar is to investigate behavioral and managerial issues in the field of information systems-based digital transformation. The substantive domain of this digital transformation will emphasize what social scientists investigate with the organization as the unit of analysis. Course offers an in-depth exploration into the intersection of digital technology, strategic management and economic theory within these industries. It will provide students with a comprehensive understanding of how digital transformation drives value creation, influences competitive advantage and redefines business models in high-technology sectors. Students will gain a nuanced perspective on the transformative power of digital technologies. Students will explore the basis of strategy, deployment and competition in both legacy industries and high-technology industries and be introduced to conceptual frameworks based on cutting-edge research in economics and strategy. Students will learn how to develop and apply such frameworks in their research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84095 SPECIAL TOPICS IN INFORMATION SYSTEMS RESEARCH 3 Credit Hours
(Repeatable for credit) Variable content of relevance to IS research. Exact topics will be announced when scheduled.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Computer Science (CS)

CS 10001 COMPUTER LITERACY 3 Credit Hours
Introduction to history, language, procedures, applications, abuses and impact of computers. Hands-on experience with microcomputers. Not open to students with previous experience.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

CS 10051 COMPUTER SCIENCE PRINCIPLES (KMCR) 4 Credit Hours
An introductory, broad and hands-on coverage of aspects of computer science, including algorithms, problem solving, operating systems concepts, computer architecture, programming languages and modern applications.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

CS 10062 PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES 4 Credit Hours
Solving problems in a science frequently requires a knowledge of programming. This course provides an introduction to using programs to solve problems. It is designed for majors and non-majors who have had little or no prior programming experience. The course emphasizes a hands-on, team-based approach to learning programming and problem solving.
Prerequisite: Minimum 55 ALEKS math score or minimum C grade in either MATH 11009 (or MATH 10772) or MATH 11010 (or MATH 10775 or MATH 10675).
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 13001 COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING 4 Credit Hours
Computer science concepts, including algorithm development and problem-solving strategies focused on procedural abstraction. High-level programming concepts, including data types, expressions, program structures, functions, parameter passing, scope, extent, arrays, introduction to recursion and an introduction to object oriented-concepts.
Prerequisite: MATH 11022 or MATH 12002 or MATH 12011; or minimum C grade in one of the following courses: MATH 10675 or MATH 10775 or MATH 11010; or minimum 67 ALEKS math score.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 13011 COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING 2 Credit Hours
Computer science concepts, including algorithm development and problem-solving strategies focused on programming abstractions. High-level programming concepts, including variables, branching, iteration and functions.
Prerequisite: MATH 11022 or MATH 12002 or MATH 12011; or minimum C grade in one of the following courses: MATH 10675 or MATH 10775 or MATH 11010; or minimum 67 ALEKS math score.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

CS 13012 COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING 2 Credit Hours
Computer science concepts, including algorithm development and problem-solving strategies focused on programming abstractions. High-level programming concepts, including introduction to recursion and object-oriented concepts.
Prerequisite: CS 13011 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

CS 19995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Special topics from all areas of computer science.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 20062 ADVANCED PROGRAMMING WITH PYTHON 4 Credit Hours
This course introduces students to advanced computer programming design and development with the main focus on data structures and abstraction using Python. Students learn basic object-oriented and GUI programming and graph algorithm applications.
Prerequisite: CS 10062 or CS 13001 or CS 13012.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 23001 COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION 4 Credit Hours
Advanced computer programming design, and development with a primary focus on data structures and abstraction using an object oriented programming language.
Prerequisite: Minimum C grade in CS 13001 or CS 13012.
Corequisite: CS 23022.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE 3 Credit Hours
(Cross-listed with MATH 23022) Discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling. Specific topics include propositional and predicate logic and logical modeling using Boolean algebra and logical gates, information representation using binary system, sets, functions, relations, logical argumentation and proof techniques, recursion and recursive modeling, sequences and summation, arithmetic and geometric progressions, algorithms, iterative vs recursive algorithms, mathematical and structural induction, recursive structures, counting, permutation and combination, binomial expansion, matrices and matrix-operations, graphs and trees and their traversal, probability and Bayes' theorem, finite state machines, their modeling and applications, Regular grammar, basics of number theory, modeling computation and Turing machines, decidability and halting problem.
Prerequisite: Minimum C grade in MATH 11009 or MATH 11010 or MATH 11022, or ALEKS score of 78.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 23301 ROBOTICS AND EMBEDDED SYSTEMS LABORATORY I 1 Credit Hour
This course provides a team based, hands-on introduction to linking and programming robotic and embedded systems. Students in this course work with junior and senior level students on projects building devices that require linking and programming robotic and embedded systems.
Prerequisite: Minimum C grade in CS 13001 or CS 13012.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

CS 23302 ROBOTICS AND EMBEDDED SYSTEMS LABORATORY II 2 Credit Hours
This course is the second computer science course on linking and programming robotic and embedded systems in a team based, hands-on environment. Students in this course work with junior and senior level students on projects building devices that require linking and programming robotic and embedded systems.
Prerequisite: CS 23001 and CS 23301 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

CS 29995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Special topics from all areas of computer science.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 30062 PYTHON FOR DATA SCIENCE 3 Credit Hours
This course will introduce basic topics in the field of data science, including data collection, storage, manipulation, and visualization, as well as the area of machine learning. Specifically, students will learn how to use Python to import, clean, analyze, visualize, and learn data for real-world applications.
Prerequisite: CS 20062 or CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 32301 HUMAN INTERFACE COMPUTING 3 Credit Hours
Foundations of human computer interaction including interaction design. Foundations of graphics and visualization. Basic concepts in security and secure design including cryptography. Introduction to intelligent systems including basic knowledge representation and basic machine learning.
Prerequisite: Minimum C grade in CS 20062 or CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33007 INTRODUCTION TO DATABASE SYSTEM DESIGN 3 Credit Hours
An introduction to the basic theoretical aspects of database systems, file organization, search methodologies, language design and performance evaluation techniques, initial modeling concepts and their use in hierarchical, network, relational and object-oriented database designs.
Prerequisite: Minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33011 SPEED PROGRAMMING TECHNIQUES 3 Credit Hours
Discussion and practice of pertinent aspects related to programming under time constraints.
Prerequisite: CS 23001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

CS 33092 SPEED PROGRAMMING PRACTICUM (ELR) 2 Credit Hours
(Repeatable for credit) Practice of pertinent aspects from CS 33011.
Prerequisite: CS 33011.
Schedule Type: Practical Experience
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CS 33101 STRUCTURE OF PROGRAMMING LANGUAGES 3 Credit Hours
Introduction to grammar, discrete and data structure concepts, syntax, semantics, abstraction, Advanced Programming Constructs, implementation model for imperative languages, dynamic memory management, type theory, concurrent programming, functional programming, logic programming, object oriented programming, event driven programming.
Prerequisite: Minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33192 INTERNSHIP IN COMPUTER SCIENCE (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience in computer science. Since this work will be outside the department a report and final presentation will be required; a site visit might also be necessary.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CS 33211 OPERATING SYSTEMS 3 Credit Hours
Introduction to operating systems, processes and threads, CPU scheduling, mutual exclusion and synchronization, deadlock, memory management, file systems, security, networking and distributed systems and current topics. systems.
Prerequisite: Minimum C grade in CS 23001.
Pre/corequisite: CS 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33223 UNIX TOOLS 3 Credit Hours
Course will cover UNIX operating system environment topics that will make the user more productive. Topics will include the user environment, shells, files, the file system, editors, scripting languages, document processing, processes, remote access and documentation.
Prerequisite: CS 13001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33301 EMBEDDED SYSTEM PROGRAMMING 3 Credit Hours
An embedded system is a combination of computer hardware and software specifically designed for a particular function. Embedded systems have been playing important roles in various application areas such as industrial machines, automobiles, medical equipment, cameras, household appliances, airplanes, vending machines, toys and other uses. Students will learn fundamental concepts of designing and programming embedded computer systems, including requirements specifications, architectural and detailed design, and implementation, focusing on real-time aspects of programming languages, operating system kernels, and hardware architectures.
Prerequisite: Minimum C grade in CS 23001.
Corequisite: CS 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33302 INTRODUCTION TO INTELLIGENT ROBOTICS 3 Credit Hours
This course introduces students to the basic knowledge of programming of robotic systems, including algorithmic modeling and design, geometric motion planning and robot operating systems, all for making intelligent robots. Computer science is an integral part of robotics as it includes areas such as computer algorithms, computational geometry, artificial intelligence, machine learning and image processing. The material covered in this course consists of a brief description of the intrinsic geometry, kinematics, statics, mechanics and controls of robotic systems and goes deeper into developing algorithms and useful software libraries. In addition, this course introduces practical examples and performance results using them with hands-on experience in a lab setting.
Prerequisite: CS 20062 or CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33901 SOFTWARE ENGINEERING 3 Credit Hours
An introduction to software engineering concepts: life cycle models; modeling languages; requirements analysis; specification; design; testing; validation; project management and maintenance.
Prerequisite: Minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 35101 COMPUTER ORGANIZATION 3 Credit Hours
Computer system organization, including performance measures, instruction sets, computer arithmetic, central processing unit, pipelining, memory hierarchy and parallel processors.
Prerequisite: Minimum C grade in the following courses: CS 10062 or CS 13001; or CS 13011 and CS 13012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 35201 COMPUTER COMMUNICATION NETWORKS 3 Credit Hours
An introduction to net-centric systems, data communication protocols, network architectures, routing protocols, network management, congestion control, network security, compression techniques, mobile and wireless networks and WWW as an example of a client-server system.
Prerequisite: CS 20062 or CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 38101 INTRODUCTION TO GAME PROGRAMMING 3 Credit Hours
Game engine scripting, event driven and data driven programming, game engine data structures, basic game related graphics and AI concepts, a short game development project.
Prerequisite: Minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 39995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Special topics from all areas of computer science.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 40510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with MCLS 40510)(Slashed with CS 50510, CS 70510, MCLS 50510 and MCLS 70510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 41038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with MATH 41038 and PHIL 41038)(Slashed with MATH 51038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics.
Prerequisite: Computer Science major or minor; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 42201 NUMERICAL LINEAR ALGEBRA 3 Credit Hours
(Cross-listed with MATH 42201)(Slashed with CS 52201 and MATH 52201) Fundamentals of numerical linear algebra; solving linear systems; QR factorization and least squares; iterative methods for eigenvalue problems.
Prerequisite: Minimum C grade in the following courses CS 13001 or (CS 13011 and CS 13012); and MATH 12003 or MATH 12013; and MATH 21001 or MATH 21002 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 42202 NUMERICAL APPROXIMATION AND OPTIMIZATION 3 Credit Hours
(Cross-listed with MATH 42202)(Slashed with CS 52202 and MATH 52202) This course introduces numerical methods for solving nonlinear equations, optimizing functions, performing interpolation, computing differentiation and integration and solving differential equations.
Prerequisite: Minimum C grade in the following courses: (MATH 22005 and MATH 32044) or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43016 BIG DATA ANALYTICS 3 Credit Hours
This course will introduce the state-of-art computing platforms with the focus on how to utilize them in processing (managing and analyzing) massive datasets. The course will utilize several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank, and massive graph analytics as the case study for large scale data processing.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43105 DATA MINING TECHNIQUES 3 Credit Hours
Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining, covering a set of interesting topics, including association rule mining, clustering, classification, web mining, etc. It covers the basics of some important theoretical foundations for data mining, including linear regression, Bayesian inferences, information theory, and markov chain random walk.
Prerequisite: CS 33007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43118 GRAPH AND SOCIAL NETWORK ANALYSIS 3 Credit Hours
(Slashed with CS 53118 and CS 73118) Catalog Description: This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph database.
Prerequisite: CS 33007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43202 SYSTEMS ADMINISTRATION 3 Credit Hours
(Slashed with CS 53202) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX, together with the analysis of problems which can arise in these activities.
Prerequisite: CS 33211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43203 SYSTEMS PROGRAMMING 3 Credit Hours
(Slashed with CS 53203) This course provides an in-depth exploration of the Unix/Linux operating system's structure while teaching students how to write system and network programs. It is ideal for those interested in developing system software for Unix/Linux or gaining a deeper understanding of a multi-tasking, multi-user operating system. The course covers key topics, including the file system, terminal and device input/output, multi-tasking, inter-process communication, video display management and network programming. Theoretical concepts are integrated with practical examples of how Unix implements them. By the end of the course, students have the skills to understand how most Unix commands function and are capable of drafting their own versions of many common commands.
Prerequisite: CS 33211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43301 SOFTWARE DEVELOPMENT FOR ROBOTICS 3 Credit Hours
(Slashed with CS 53301) Robots are being used in multiple places that are not easily accessible for humans to support the lack of available labor and gain extra precision, and for cost-effective manufacturing processes, monitoring, space exploration, precision surgery and artificial limb support for elderly and physically challenged persons. Computer science is an integral part of robotics as it includes areas such as computer algorithms, artificial intelligence and image processing, which are essential aspects of robotics. This first course on robotics teaches students various motions of rigid robots; mathematics and algorithms related to these motions; motion planning; obstacle avoidance; and intelligent path planning, including the use of various sensors. In addition, students learn Robot Operating System (ROS) and ROS programming which provide a structured, modular and well-supported environment that facilitates understanding and experimentation in the field of robotics.
Prerequisite: Minimum C grade in the following courses: CS 23001; and CS 33301 or CS 33302.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43302 ALGORITHMIC ROBOTICS 3 Credit Hours
(Slashed with CS 53302 and CS 73302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.
Prerequisite: CS 33301 and CS 43301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43303 INTERNET OF THINGS 3 Credit Hours
(Slashed with CS 53303 and CS 73303) This course will provide a comprehensive an understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.
Prerequisite: CS 33301 or CS 45231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43305 ADVANCED DIGITAL DESIGN 3 Credit Hours
(Slashed with CS 53305) This course describes techniques in the design of digital systems. Topics covered include combinational and sequential logic, gate-level minimization, registers and counters, memory and programmable logic, hardware description languages, digital communication including serial and parallel and synchronous and asynchronous methods.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43334 HUMAN-ROBOT INTERACTION 3 Credit Hours
(Slashed with CS 53334 and CS 73334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.
Prerequisite: CS 33301 and CS 43301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43401 SECURE PROGRAMMING 3 Credit Hours
Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and cryptography, random number generators.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44001 COMPUTER SCIENCE III - PROGRAMMING PATTERNS 4 Credit Hours
(Slashed with CS 54001) Extends students' knowledge of object-oriented programming, and improves their C++ programming skills. Specifically, the course covers procedural and object-based programming, inheritance, polymorphism, popular design patterns and generic programming.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 44003 MOBILE APPS IN IOS PROGRAMMING 3 Credit Hours
(Slashed with CS 54003) Students are introduced to mobile applications programming in the iOS environment using model, view, controller paradigms. Other topics include swift, programming using on board devices like GPS, cameras, motion detectors, and screen touches.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44004 DRONE PROGRAMMING 3 Credit Hours
(Slashed with CS 54004) This course describes the design, programming and control of autonomous drones. Topics covered include drone software and hardware architecture, use case models, interoperability, trajectory programming, flight control programming and sensors. Students apply this knowledge in the context of programming assignments with a drone simulator. Subsequently, students develop custom programs designed to control and fly autonomous drones.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44105 WEB PROGRAMMING I 3 Credit Hours
(Slashed with CS 54105) This course is the first of a two-course sequence on Web Programming covering from basic to advanced topics on Web Programming based on open standards and best practices. Topics covered include the HyperText Markup Language (HTML), specifying look and feel using Cascading Style Sheets (CSS), client side programming in Javascript, server side programming in PHP, and the Hypertext Transfer Protocol (HTTP).
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44106 WEB PROGRAMMING II 3 Credit Hours
(Slashed with CS 54106) This course is the second of a two-course sequence on Web Programming covering advanced topics on Web Programming based on open standards and best practices. This is a project course exploring advanced aspects of Web programming. Topics covered include advanced server side programming in PHP; database driven websites; structured query language (SQL) and MySQL; E-commerce; web hosting using Apache, PHP and MySQL; basic and digest authentication; web security, encryption and digital certificates; Extensible Markup Language (XML) for the web, AJAX and web services; scalable vector graphics (SVG); mobile websites.
Prerequisite: CS 44105.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44201 ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CS 54201) Computational intelligence concepts and methods such as modeling real-world problems as state-space search problems; heuristics, local and meta-heuristics search; game playing and adversarial search; constraint-based problem solving and optimization; automated machine learning theory and techniques; Knowledge based systems including logical inference techniques, fuzzy logic and case-based reasoning; probabilistic and uncertainty-based reasoning; ontology and semantic networks, and planning
Prerequisite: CS 23001 and CS 23022.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44202 MACHINE LEARNING AND DEEP LEARNING 3 Credit Hours
(Slashed with CS 54202) This course provides an overview of some fundamental concepts, techniques and algorithms in machine learning and deep learning, and will give students a basic understanding (ideas and intuitions) of how modern machine learning works. Specifically, there are three main objectives: 1. To help student get familiar with the fundamental mathematical tools (linear algebra, probability theory, statistical inference, numerical optimization, and learning theory) which lays the foundation of machine learning algorithms and techniques; 2. To introduce the core machine learning concepts and topics, such as linear regression, classification, SVM, and neural networks (and its deep variants); in addition, we will utilize the recommendation system for students to learn how real world machine system works; 3. Teach students how to program and use the latest machine learning packages, such as Tensorflow.
Prerequisite: CS 23001 and MATH 21002 and MATH 20011 and MATH 12013.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44901 SOFTWARE DEVELOPMENT PROJECT (ELR) (WIC) 4 Credit Hours
With the supervision of the instructor, students work in teams to design and implement a realistic software project similar to projects they would encounter in the workplace.
Prerequisite: CS 33901; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CS 44902 SOFTWARE REQUIREMENTS ENGINEERING 3 Credit Hours
(Slashed with CS 54902) Students will learn a systematic approach to requirements elicitation, envisioning, requirements engineering, while leveraging design-based ideation and validation. Topics include software and systems requirements engineering, interface design and modeling, systems architecture, performance engineering, ethics, systems verification and testing.
Prerequisite: CS 33901.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 45102 CENTRAL PROCESSING UNIT (CPU) ARCHITECTURES 3 Credit Hours
(Slashed with CS 55102) This course explores CPU architectures and concepts, focusing mostly on general purpose CPUs. It begins by examining the x86 architecture, the origins of reduced instruction set computers, and how those diverse concepts were reconciled. It looks at superscalar execution, out-of-order execution, branch prediction, and speculative execution, and their use in the Intel Pentium Pro and Pentium II. Finally, it concludes by exploring some contemporary CPU architectures such as embedded processors, graphics processors, and the open-source RISC-V architecture.
Prerequisite: CS 35101; and CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 45203 COMPUTER NETWORK SECURITY 3 Credit Hours
(Slashed with CS 55203) Overview of network security including attacks and vulnerabilities and defense measures, secure network design, network and transport layers security, intrusion detection techniques, defense against denial of service attacks, network hardware, software, and applications attacks and their defense, security policies, legal and ethical issues in cyber and computer crimes.
Prerequisite: CS 35201 and; MATH 20011 or MATH 30011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 45231 INTERNET ENGINEERING 3 Credit Hours
Design fundamentals and working principles of internet systems at the IP layer and above. DNS, inter-domain routing, internet client server programming, application level protocols (HTTP, XML,etc.) web server architecture, browser internet security and multimedia serving.
Prerequisite: CS 23001, 33211 and 35201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 46101 DESIGN AND ANALYSIS OF ALGORITHMS 3 Credit Hours
(Slashed with CS 56101) Introduction to algorithmic concepts, design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.
Prerequisite: MATH 12003 or MATH 12013; and minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47101 COMPUTER GRAPHICS 3 Credit Hours
Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man-machine communications.
Prerequisite: CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47102 COMPUTER HAPTICS 3 Credit Hours
(Slashed with CS 57102 and CS 77102) This course introduces students to computer haptics which is the study of touch with a focus on computing, developing algorithms and designing new user interfaces, innovatively enhancing existing human-computer systems. This course is organized into modules that include fundamental concept and theory lectures and practical programming assignments, including a term project with real haptic (touch feedback) devices combined with virtual reality display devices.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47205 INFORMATION SECURITY 3 Credit Hours
(Slashed with CS 57205) An introduction to concepts and methodology useful for information security, as specified by the NSTISSI NO. 4011 standard from the NSA.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47206 DATA SECURITY AND PRIVACY 3 Credit Hours
(Slashed with CS 57206) The goal of the course is to familiarize the students with basic concepts of security and privacy, their definitions, applications and current advances in research community and industry. This course addresses the security and privacy issues in legacy systems and also studies security and privacy policies and legislations. This course also reviews current research projects in the area of security and privacy.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47207 DIGITAL FORENSICS 3 Credit Hours
(Slashed with CS 57207) This course addresses the need for digital forensics, best practices for general incidence response, legal aspects of forensics, tools and techniques to perform a full computer forensic investigation.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47221 INTRODUCTION TO CRYPTOLOGY 3 Credit Hours
This is a course on the modern science of Cryptology; that is, the process of hiding information by converting it, through a reversible process, into something unrecognizable. Of course, only the recipient should be able to reverse the "hiding" or encrypting process. As far as usage in life is concerned, this course will help you to set up cryptosystems in many different environments. This skill is highly employable; from the NSA, to banks, to anybody who needs to encrypt information is looking for people with knowledge in Cryptology.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 48101 GAME ENGINE CONCEPTS 3 Credit Hours
Introduction to 3D game engine design, game memory management, multithreading in games, sprites and bitmap animation level design, path finding, audio-visual effects, AI and physical modeling in games, networked gaming.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 48102 GAME DEVELOPMENT PRACTICUM (ELR) (WIC) 4 Credit Hours
With the supervision of the instructor, students will work in teams to design and implement a computer game or 3D interactive learning environment using a game engine in a professional setup.
Prerequisite: CS 33007 and CS 33901 and CS 35201; and CS 48101 or CS 38101; and junior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CS 49995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-4 Credit Hours
(Repeatable for credit) (Slashed with CS 59995) Special topics from all areas of computer science.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CS 49996 INDIVIDUAL STUDY 1-4 Credit Hours
(Repeatable for credit).
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

CS 49998 RESEARCH (ELR) 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with computer science under the supervision of a faculty member. The work for this course should result in a technical report, paper, presentation or some other appropriate product.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CS 49999 CAPSTONE PROJECT (ELR) (WIC) 4 Credit Hours
This course is an integrative experience that brings together all components of the undergraduate computer science curriculum in an applied, hands-on real-world setting.
Prerequisite: CS 33007 and CS 33901 and CS 35201.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab, Project or Capstone
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CS 50510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with MCLS 50510)(Slashed with CS 40510, CS 70510, MCLS 40510 and MCLS 70510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 52201 NUMERICAL LINEAR ALGEBRA 3 Credit Hours
(Cross-listed with MATH 52201)(Slashed with CS 42201 and MATH 42201) Fundamentals of numerical linear algebra; solving linear systems; QR factorization and least squares; iterative methods for eigenvalue problems.
Prerequisite: Computer Science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 52202 NUMERICAL APPROXIMATION AND OPTIMIZATION 3 Credit Hours
(Cross-listed with MATH 52202)(Slashed with CS 42202 and MATH 42202) This course introduces numerical methods for solving nonlinear equations, optimizing functions, performing interpolation, computing differentiation and integration and solving differential equations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53118 GRAPH AND SOCIAL NETWORK ANALYSIS 3 Credit Hours
(Slashed with CS 43118 and CS 73118) This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph databases.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53202 SYSTEMS ADMINISTRATION 3 Credit Hours
(Slashed with CS 43202) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX together with the analysis of problems which can arise in these activities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53203 SYSTEMS PROGRAMMING 3 Credit Hours
(Slashed with CS 43203) This course provides an in-depth exploration of the Unix/Linux operating system's structure while teaching students how to write system and network programs. It is ideal for those interested in developing system software for Unix/Linux or gaining a deeper understanding of a multi-tasking, multi-user operating system. The course covers key topics, including the file system, terminal and device input/output, multi-tasking, inter-process communication, video display management and network programming. Theoretical concepts are integrated with practical examples of how Unix implements them. By the end of the course, students have the skills to understand how most Unix commands function and are capable of drafting their own versions of many common commands.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53301 SOFTWARE DEVELOPMENT FOR ROBOTICS 3 Credit Hours
(Slashed with CS 43301) Robots are being used in multiple places that are not easily accessible for humans to support the lack of available labor and gain extra precision, and for cost-effective manufacturing processes, monitoring, space exploration, precision surgery and artificial limb support for elderly and physically challenged persons. Computer science is an integral part of robotics as it includes areas such as computer algorithms, artificial intelligence and image processing, which are essential aspects of robotics. This first course on robotics teaches students various motions of rigid robots; mathematics and algorithms related to these motions; motion planning; obstacle avoidance; and intelligent path planning, including the use of various sensors. In addition, students learn Robot Operating System (ROS) and ROS programming which provide a structured, modular and well-supported environment that facilitates understanding and experimentation in the field of robotics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53302 ALGORITHMIC ROBOTICS 3 Credit Hours
(Slashed with CS 43302 and CS 73302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53303 INTERNET OF THINGS 3 Credit Hours
(Slashed with CS 43303 and CS 73303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53305 ADVANCED DIGITAL DESIGN 3 Credit Hours
(Slashed with CS 43305) This course describes techniques in the design of digital systems. Topics covered include combinational and sequential logic, gate-level minimization, registers and counters, memory and programmable logic, hardware description languages, digital communication including serial and parallel and synchronous and asynchronous methods.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53334 HUMAN-ROBOT INTERACTION 3 Credit Hours
(Slashed with CS 43334 and CS 73334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53401 SECURE PROGRAMMING 3 Credit Hours
Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and cryptography, random number generators.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54001 COMPUTER SCIENCE III - PROGRAMMING PATTERNS 4 Credit Hours
(Slashed with CS 44001) Extends students' knowledge of object-oriented programming, and improves their C++ programming skills. Specifically, the course covers procedural and object-based programming, inheritance, polymorphism, popular design patterns and generic programming.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 54003 MOBILE APPS IN IOS PROGRAMMING 3 Credit Hours
Students are introduced to mobile applications programming in the iOS environment using model, view, controller paradigms. Other topics include swift, programming using on board devices like GPS, cameras, motion detectors, and screen touches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54004 DRONE PROGRAMMING 3 Credit Hours
(Slashed with CS 44004) This course describes the design, programming and control of autonomous drones. Topics covered include drone software and hardware architecture, use case models, interoperability, trajectory programming, flight control programming and sensors. Students apply this knowledge in the context of programming assignments with a drone simulator. Subsequently, students develop custom programs designed to control and fly autonomous drones.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54105 WEB PROGRAMMING I 3 Credit Hours
(Slashed with CS 44105) This course is the first of a two-course sequence on Web Programming covering from basic to advanced topics on Web Programming based on open standards and best practices. Topics covered include the HyperText Markup Language (HTML), specifying look and feel using Cascading Style Sheets (CSS), client side programming in Javascript, server side programming in PHP, and the Hypertext Transfer Protocol (HTTP).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54106 WEB PROGRAMMING II 3 Credit Hours
(Slashed with CS 44106) This course is the second of a two-course sequence on Web Programming covering advanced topics on Web Programming based on open standards and practices. This is a project course exploring advanced aspects of Web programming. Topics covered include advanced server side programming in PHP; database driven websites; structured query language (SQL) and MySQL; E-commerce; web hosting using Apache, PHP MySQL; basic and digest authentication; web security, encryption and digital certificates; Markup Language (XML) for the web, AJAX and web services; scalable vector graphics (SVG); websites.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54201 ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CS 44201) Computational intelligence concepts and methods such as modeling real-world problems as state-space search problems; heuristics and meta-heuristics search; game playing and adversarial search; constraint-based optimization and search; automated machine learning such as clustering, neural networks, regression analysis, decision trees, Markov models and HMM; Deep neural networks and its application in speech and image understanding; logical inference techniques, fuzzy systems, case-based reasoning and uncertainty based reasoning; Knowledge-based systems; planning techniques and systems
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54202 MACHINE LEARNING AND DEEP LEARNING 3 Credit Hours
(Slashed with CS 44202) This course provides an overview of some fundamental concepts, techniques and algorithms in machine learning and deep learning, and will give students a basic understanding (ideas and intuitions) of how modern machine learning works. Specifically, there are three main objectives: 1. To help student get familiar with the fundamental mathematical tools (linear algebra, probability theory, statistical inference, numerical optimization, and learning theory) which lays the foundation of machine learning algorithms and techniques; 2. To introduce the core machine learning concepts and topics, such as linear regression, classification, SVM, and neural networks (and its deep variants); in addition, we will utilize the recommendation system for students to learn how real world machine system works; 3. Teach students how to program and use the latest machine learning packages, such as Tensorflow.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54902 SOFTWARE REQUIREMENTS ENGINEERING 3 Credit Hours
(Slashed with CS 44902) Students will learn a systematic approach to requirements elicitation, envisioning, requirements engineering, while leveraging design-based ideation and validation. Topics include software and systems requirements engineering, interface design and modeling, systems architecture, performance engineering, ethics, systems verification and testing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 55102 CENTRAL PROCESSING UNIT (CPU) ARCHITECTURES 3 Credit Hours
(Slashed with CS 45102) This course explores CPU architectures and concepts, focusing mostly on general purpose CPUs. It begins by examining the x86 architecture, the origins of reduced instruction set computers, and how those diverse concepts were reconciled. It looks at superscalar execution, out-of-order execution, branch prediction, and speculative execution, and their use in the Intel Pentium Pro and Pentium II. Finally, it concludes by exploring some contemporary CPU architectures such as embedded processors, graphics processors, and the open-source RISC-V architecture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 55203 COMPUTER NETWORK SECURITY 3 Credit Hours
(Slashed with CS 45203) Overview of network security including attacks and vulnerabilities and defense measures, secure network design, network and transport layers security, intrusion detection techniques, defense against denial of service attacks, network hardware, software, and applications attacks and their defense, security policies, legal and ethical issues in cyber and computer crimes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 55231 INTERNET ENGINEERING 3 Credit Hours
(Slashed with CS 45231) Design fundamentals and working principles of internet systems at the IP layer and above. DNS, inter-domain routing, internet client server programming, application level protocols (HTTP, XML,etc.) Web server architecture, browser, internet security, and multimedia serving.
Prerequisite: CS 23001 and CS 55201; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 56101 DESIGN AND ANALYSIS OF ALGORITHMS 3 Credit Hours
(Slashed with CS 46101) Introduction to algorithmic concepts, design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57101 COMPUTER GRAPHICS 3 Credit Hours
(Slashed with CS 47101) Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man-machine communications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57102 COMPUTER HAPTICS 3 Credit Hours
(Slashed with CS 47102 and CS 77102) This course introduces students to computer haptics which is the study of touch with a focus on computing, developing algorithms and designing new user interfaces, innovatively enhancing existing human-computer systems. This course is organized into modules that include fundamental concept and theory lectures and practical programming assignments, including a term project with real haptic (touch feedback) devices combined with virtual reality display devices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57205 INFORMATION SECURITY 3 Credit Hours
(Slashed with CS 47205) An introduction to concepts and methodology useful for information security, as specified by the NSTISSI NO. 4011 standard from the NSA.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57206 DATA SECURITY AND PRIVACY 3 Credit Hours
(Slashed with CS 47206) The goal of the course is to familiarize the students with basic concepts of security and privacy, their definitions, applications and current advances in research community and industry. This course addresses the security and privacy issues in legacy systems and also studies security and privacy policies and legislations. This course also reviews current research projects in the area of security and privacy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57207 DIGITAL FORENSICS 3 Credit Hours
(Slashed with CS 47207) This course addresses the need for digital forensics, best practices for general incidence response, legal aspects of forensics, tools and techniques to perform a full computer forensic investigation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57221 INTRODUCTION TO CRYPTOLOGY 3 Credit Hours
(Slashed with CS 47221) This is a course on the modern science of Cryptology; that is, the process of hiding information by converting it, through a reversible process, into something unrecognizable. Of course, only the recipient should be able to reverse the "hiding" or encrypting process. As far as usage in life is concerned, this course will help you to set up cryptosystems in many different environments. This skill is highly employable; from the NSA, to banks, to anybody who needs to encrypt information is looking for people with knowledge in Cryptology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 59893 VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE 1-6 Credit Hours
(Repeatable for credit) Studies in special topics in computer science.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CS 59995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with CS 49995) Various special courses will be announced in the schedule of classes under this title.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 60093 VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Studies of special topics in computer science. Not acceptable for credit toward a graduate degree in computer science without approval of the student's adviser.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CS 61002 ALGORITHMS AND PROGRAMMING I 4 Credit Hours
This course is designed for graduate students with little knowledge of the undergraduate computer science curriculum. It is suitable for students with a background in engineering, physics, biology, geography, etc. This course is designed to introduce students to mapping scientific problems in their field of study into the computational framework. The primary purpose of this course is to help students become skillful in making the computer do what they want it to do. This course provides students with hands-on tools to develop computational methods for data modeling and analysis using Python packages such as Numpy and Matplotlib.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CS 61003 ALGORITHMS AND PROGRAMMING II 4 Credit Hours
Further exploration into the tools used in computer science. This course provides an introduction to algorithmic concepts and covers the design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.
Prerequisite: CS 61002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CS 61004 OPERATING SYSTEMS AND ARCHITECTURE 4 Credit Hours
This course introduces the fundamentals of modern computing systems. It covers the basic architecture, operating system that manages the underlying hardware and basic network that now enables building of networked computing systems. Students learn about key hardware and software components that make up computer and network internals and their essential functions, and learn how these work together as a whole to make computing systems that run efficiently, reliably and securely. This course is suitable for students who may not have an undergraduate degree in computer science or closely related areas.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CS 61092 PRACTICUM IN CS FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT 1-5 Credit Hours
(Repeatable for credit)This course is an alternative to IAKM 60198 for students interested in pursuing a CS thesis. Credit for IAKM 60198 or any other project course is not allowed.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 61199 THESIS I FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours. No credit for CS students.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 61299 THESIS II FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT STUDENTS 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CS 61199.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 62263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours
(Slashed with CS 72263) (Cross-listed with MATH 62263 and MATH 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.
Prerequisite: MATH 51021 and CS 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 62264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours
(Slashed with CS 72264) (Cross-listed MATH 62264 and MATH 72264) Construction and analysis of numerical methods for systems of non linear algebraic equations and optimization problems. Numerical implementation and software.
Prerequisite: MATH 52041 and CS 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63005 ADVANCED DATABASE SYSTEMS DESIGN 3 Credit Hours
(Slashed with CS 73005) Introduction to a variety of advanced database topics and on-going trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63015 DATA MINING TECHNIQUES 3 Credit Hours
(Slashed with CS 73015) Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63016 BIG DATA ANALYTICS 3 Credit Hours
(Slashed with CS 73016) Introduces computing platforms with focus on how to use them in processing, managing and analyzing massive datasets. Utilizes several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank and massive graph analytics as the case study for large scale data processing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63017 BIG DATA MANAGEMENT 3 Credit Hours
This course will cover a series of important Big-Data-related problems and their solutions. Specifically, we will introduce the characteristics and challenges of the Big Data, state-of-the-art computing paradigm sand platforms (e.g., MapReduce), big data programming tools (e.g., Hadoop and MongoDB), big data extraction and integration, big data storage, scalable indexing for big data, big graph processing, big data stream techniques and algorithms, big probabilistic data management, big data privacy, big data visualizations, and big data applications (e.g., spatial, finance, multimedia, medical, health, and social data).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63018 PROBABILISTIC DATA MANAGEMENT 3 Credit Hours
(Slashed with CS 73018) This course addresses the fundamental concepts and techniques for probabilistic data management in the area of databases. Probabilistic data are pervasive in many real-world applications, such as sensor networks, GPS system, location-based services, mobile computing, multimedia databases, data extraction and integration, trajectory data analysis, semantic web, privacy preserving, and so on. This class also covers major research topics such as probabilistic or uncertain data models, probabilistic queries, probabilistic query answering techniques, and data quality issues in databases.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63100 COMPUTATIONAL HEALTH INFORMATICS 3 Credit Hours
(Slashed with CS 73100) The course describes computational techniques and software tools for managing and transmitting health related information and automated analysis of medical and biosignal data.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63201 ADVANCED OPERATING SYSTEMS 3 Credit Hours
(Slashed with CS 73201) Introduction to distributed systems, interprocess communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63301 PARALLEL AND DISTRIBUTED COMPUTING 3 Credit Hours
(Slashed with CS 73301) Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using SIMD, SPMD, MIMD and associative computing; parallel and distributed architecture using existing machines as case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63304 CLUSTER COMPUTING 3 Credit Hours
(Slashed with CS 73304) This course will investigate clusters of computers as a computing platform, hardware and software trade-offs for clusters and application performance and programming of clusters.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63305 MULTICORE COMPUTING 3 Credit Hours
(Slashed with CS 73305) Starting about 2005, hardware architects began putting more than one processing core on a single chip, leading to the recent rapid advancements in multicore processor architectures. This shift has changed almost everything ranging from memory hierarchy and consistency to programming those architectures. The goal of this course is to study multicore processor architectures from the perspective of hardware, software and algorithm design, the challenges, and the technologies that are relevant to those architectures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63306 EMBEDDED COMPUTING 3 Credit Hours
(Slashed with CS 73306) Computational issues structuring programs for processors embedded in other devices, such as those found in automobiles and biological and chemical sample processing devices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63901 SOFTWARE ENGINEERING METHODOLOGIES 3 Credit Hours
(Slashed with CS 73901) Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation; reuse; and metrics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63902 SOFTWARE EVOLUTION 3 Credit Hours
(Slashed with CS 73902) Methods and techniques supporting later lifecycle activities, including software testing and maintenance, reuse and reverse engineering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 64201 ADVANCED ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CS 74201) Advanced topics in AI such as Nature inspired meta-heuristics and their applications in real-world optimization problems; Bayesian networks and probabilistic reasoning over time with applications; Utility theory and decision networks and their applications; game theory and multi-agent systems and their applications; Advanced learning theory such as statistical learning, reinforced learning, probabilistic learning, deep convolution neural network, recurrent neural network, Long Short-term Memory (LSTM), transfer learning, federated learning, transformers, and their application to vision and speech understanding; introduction to object recognition, scene analysis and object tracking; introduction to speech understanding; Context-based discourse and conversation analysis; multi-modal emotion recognition.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 64401 IMAGE PROCESSING 3 Credit Hours
(Slashed with CS 74401) This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 64402 MULTIMEDIA SYSTEMS AND BIOMETRICS 3 Credit Hours
(Slashed with CS 74402) This course discusses computational techniques for the fusion of multimedia data recorded by sensors for human-identification using automated analysis of biometric signals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 65101 ADVANCED COMPUTER ARCHITECTURE 3 Credit Hours
(Slashed with CS 75101) System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 65202 ADVANCED COMMUNICATION NETWORKS 3 Credit Hours
(Slashed with CS 75202) This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and internet routing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 65203 WIRELESS AND MOBILE COMMUNICATION NETWORKS 3 Credit Hours
(Slashed with CS 75203) Examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. Course covers the architecture and the interactions among different functional units in wireless and mobile systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 66101 ADVANCED TOPICS IN ALGORITHMS 3 Credit Hours
(Slashed with CS 76101) Advanced algorithms, fast fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, gcd, factoring, numerical and symbolic computational algorithms, Risch integration algorithm, pattern matching.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 66105 PARALLEL AND DISTRIBUTED ALGORITHMS 3 Credit Hours
(Slashed with CS 76105) Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation, using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 66110 COMPUTATIONAL GEOMETRY 3 Credit Hours
(Slashed with CS 76110) Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational geometry studies algorithms for geometric problems.
Prerequisite: Graduate Standing
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 67101 ADVANCED COMPUTER GRAPHICS 3 Credit Hours
(Slashed with CS 77101) In-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 67301 SCIENTIFIC VISUALIZATION 3 Credit Hours
(Slashed with CS 77301) Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 67302 INFORMATION VISUALIZATION 3 Credit Hours
(Slashed with CS 77302) Information visualization is the science that unveils the underlying structure of data sets using visual representations that utilize the powerful processing capabilities of the human visual perceptual system. In this class, we will study algorithms and systems for visually exploring, understanding, and analyzing large, complex data sets. Information visualization focuses on abstract data such as symbolic, tabular, networked, hierarchical, or textual information sources. The objectives of the course are to learn the principles involved in information visualization and a variety of existing techniques and systems. The students will also gain backgrounds and skills that will aid the design of new, innovative visualizations in realistic applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 69098 RESEARCH 1-5 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if grade of "S" is given.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69099 CAPSTONE PROJECT 3,6 Credit Hours
(Repeatable for credit) This course is an integrative experience that brings together all components of the master's non-thesis graduate program in an applied, hands-on, real-world setting.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory

CS 69191 MASTER'S SEMINAR 1-2 Credit Hours
(Repeatable for credit) Seminar for masters students to present and discuss computer science related research and academics. Masters students are required to take at least 2 credit hours for completion of degree and make at least one presentation of project work or research. Only two credits count towards the masters degree.
Prerequisite: Computer Science major within the Master of Arts or Master of Science degree.
Schedule Type: Seminar
Contact Hours: 1-2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69192 GRADUATE INTERNSHIP 1-3 Credit Hours
(Repeatable for credit) Supervised experience in the chosen graduate program. Since this work will be outside the department, a report and a final presentation will be required.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69199 THESIS I 2-6 Credit Hours
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CS 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with CS 79995) Special topics in computer science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 70510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with MCLS 70510)(Slashed with CS 40510, CS 50510, MCLS 40510 and MCLS 50510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 72263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours
(Slashed with CS 62263) (Cross-listed with MATH 62263 and MATH 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.
Prerequisite: MATH 51021 and CS 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 72264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours
(Slashed with CS 62264) (Cross-listed with MATH 62264 and MATH 72264) Construction and analysis of numerical methods for systems of non linear algebraic equations and optimization problems. Numerical implementation and software.
Prerequisite: MATH 52041 and CS 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73005 ADVANCED DATABASE SYSTEMS DESIGN 3 Credit Hours
(Slashed with CS 63005) Introduction to a variety of advanced database topics and on-going trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73015 DATA MINING TECHNIQUES 3 Credit Hours
(Slashed with CS 63015) Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73016 BIG DATA ANALYTICS 3 Credit Hours
Introduces computing platforms with the focus on how to utilize them in processing, managing and analyzing massive datasets. The course will utilize several key data processing tasks, including simple statistics, data aggrefation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank, and massive graph analytics as the case study for large scale data processing.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73017 BIG DATA MANAGEMENT 3 Credit Hours
This course will cover a series of important Big-Data-related problems and their solutions. Specifically, we will introduce the characteristics and challenges of the Big Data, state-of-the-art computing paradigm sand platforms (e.g., MapReduce), big data programming tools (e.g., Hadoop and MongoDB), big data extraction and integration, big data storage, scalable indexing for big data, big graph processing, big data stream techniques and algorithms, big probabilistic data management, big data privacy, big data visualizations, and big data applications (e.g., spatial, finance, multimedia, medical, health, and social data).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73018 PROBABILISTIC DATA MANAGEMENT 3 Credit Hours
(Slashed with CS 63018) This course addresses the fundamental concepts and techniques for probabilistic data management in the area of databases. Probabilistic data are pervasive in many real-world applications, such as sensor networks, GPS system, location-based services, mobile computing, multimedia databases, data extraction and integration, trajectory data analysis, semantic web, and privacy preserving. This class also covers major research topics such as probabilistic or uncertain data models, probabilistic queries, probabilistic query answering techniques, and data quality issues in databases.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73100 COMPUTATIONAL HEALTH INFORMATICS 3 Credit Hours
(Slashed with CS 63100) The course describes computational techniques and software tools for managing and transmitting health related information and automated analysis of medical and biosignal data.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73118 GRAPH SOCIAL NETWK ANALYSIS 3 Credit Hours
(Slashed with CS 43118 and CS 53118) This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph database.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73201 ADVANCED OPERATING SYSTEMS 3 Credit Hours
(Slashed with CS 63201) Introduction to distributed systems, interprocess communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73301 PARALLEL AND DISTRIBUTED COMPUTING 3 Credit Hours
(Slashed with CS 63301) Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using simd spmd mimd and,associative computing parallel and distributed architecture using existing machines as case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73302 ALGORITHMIC ROBOTICS 3 Credit Hours
(Slashed with CS 43302 and CS 53302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73303 INTERNET OF THINGS 3 Credit Hours
(Slashed with CS 43303 and CS 53303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73304 CLUSTER COMPUTING 3 Credit Hours
(Slashed with CS 63304) This course will investigate clusters of computers as a computing platform, hardware and software tradeoffs for clusters and application performance and programming of clusters.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73305 MULTICORE COMPUTING 3 Credit Hours
(Slashed with CS 63305) Starting about 2005, hardware architects began putting more than one processing core on a single chip, leading to the recent rapid advancements in multicore processor architectures. This shift has changed almost everything ranging from memory hierarchy and consistency to programming those architectures. The goal of this course is to study multicore processor architectures from the perspective of hardware, software, and algorithm design, the challenges, and the technologies that are relevant to those architectures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73306 EMBEDDED COMPUTING 3 Credit Hours
(Slashed with CS 63306) Computational issues structuring programs for processors embedded in other devices such as those found in automobiles and biological chemical sample processing devices.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73334 HUMAN-ROBOT INTERACTION 3 Credit Hours
(Slashed with CS 43334 and CS 53334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73901 SOFTWARE ENGINEERING METHODOLOGIES 3 Credit Hours
(Slashed with CS 63901) Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation reuse; and metrics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73902 SOFTWARE EVOLUTION 3 Credit Hours
(Slashed with CS 63902) Methods and techniques supporting later lifecycle activities, including software testing and maintenance reuse and reverse engineering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 74201 ADVANCED ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CS 64201) Advanced topics in AI such as Nature inspired meta-heuristics and their applications in real-world optimization problems; Bayesian networks and probabilistic reasoning over time with applications; Utility theory and decision networks and their applications; game theory and multi-agent systems and their applications; Advanced learning theory such as statistical learning, reinforced learning, probabilistic learning, deep convolution neural network, recurrent neural network, Long Short-term Memory (LSTM), transfer learning, federated learning, transformers, and their application to vision and speech understanding; introduction to object recognition, scene analysis and object tracking; introduction to speech understanding; Context-based discourse and conversation analysis; multi-modal emotion recognition.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 74401 IMAGE PROCESSING 3 Credit Hours
(Slashed with CS 64401) This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 74402 MULTIMEDIA SYSTEMS AND BIOMETRICS 3 Credit Hours
(Slashed with CS 64402) This course discusses computational techniques for fusion of multimedia data collected by sensors for human-identification using automated analysis of biometric signals.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 75101 ADVANCED COMPUTER ARCHITECTURE 3 Credit Hours
(Slashed with CS 65101) System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 75202 ADVANCED COMMUNICATION NETWORKS 3 Credit Hours
(Slashed with CS 65202) This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and internet routing.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 75203 WIRELESS AND MOBILE COMMUNICATION NETWORKS 3 Credit Hours
(Slashed with CS 65203) Examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. Course covers the architecture and the interactions among different functional units in wireless and mobile systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 76101 ADVANCED TOPICS IN ALGORITHMS 3 Credit Hours
(Slashed with CS 66101) Advanced algorithms, fast Fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, GCD, factoring, numerical and symbolic computational algorithms, Rischintegration algorithm, pattern matching.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 76105 PARALLEL AND DISTRIBUTED ALGORITHMS 3 Credit Hours
(Slashed with CS 66105) Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation, using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 76110 COMPUTATIONAL GEOMETRY 3 Credit Hours
(Slashed with CS 66110) Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational geometry studies algorithms for geometric problems.
Prerequisite: Doctoral Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 77101 ADVANCED COMPUTER GRAPHICS 3 Credit Hours
(Slashed with CS 67101) In-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 77102 COMPUTER HAPTICS 3 Credit Hours
(Slashed with CS 47102 and CS 57102) This course introduces students to computer haptics which is the study of touch with a focus on computing, developing algorithms and designing new user interfaces, innovatively enhancing existing human-computer systems. This course is organized into modules that include fundamental concept and theory lectures and practical programming assignments, including a term project with real haptic (touch feedback) devices combined with virtual reality display devices.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 77301 SCIENTIFIC VISUALIZATION 3 Credit Hours
(Slashed with CS 67301) Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 77302 INFORMATION VISUALIZATION 3 Credit Hours
(Slashed with CS 67302) Information visualization is the science that unveils the underlying structure of data sets using visual representations that utilize the powerful processing capabilities of the human visual perceptual system. In this class, we will study algorithms and systems for visually exploring, understanding, and analyzing large, complex data sets. Information visualization focuses on abstract data such as symbolic, tabular, networked, hierarchical, or textual information sources. The objectives of the course are to learn the principles involved in information visualization and a variety of existing techniques and systems. The students will also gain backgrounds and skills that will aid the design of new, innovative visualizations in realistic applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 79995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with CS 69995) Special topics in computer science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 89098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. The work for this course should result in a paper, presentation or some other appropriate product.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 89191 DOCTORAL SEMINAR 1-2 Credit Hours
(Repeatable for credit) Seminar for doctoral students to present and discuss computer science related research and academics. Doctoral students are required to take at least 3 credit hours for completion of degree and make at least two presentations of project work or research. Only two credits count towards the doctoral degree.
Prerequisite: Computer Science major within the Doctor of Philosophy degree.
Schedule Type: Seminar
Contact Hours: 1-2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 89199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 89299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: CS 89199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 89991 RESEARCH SEMINAR IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Research seminar on current research in computer science.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Construction Management (CMGT)

CMGT 10001 INTRODUCTION TO CONSTRUCTION MANAGEMENT 3 Credit Hours
Serves to introduce the basic terms, concepts, procedures and current trends in the construction industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 11044 CONSTRUCTION SAFETY 3 Credit Hours
The theories and principles of construction safety and health applied to real-world setting. Upon completion of course materials and required attendance hours, students receive their OSHA 30 certification.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Construction Technology

CMGT 11071 CONSTRUCTION MATERIALS AND METHODS I 3 Credit Hours
An introduction to principles of building construction, including preparation for the structures and environmental control sequences. Includes a more detailed and systematic look at wood light-frame construction.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Construction Technology, TAG Engineering Technology

CMGT 21071 CONSTRUCTION MATERIALS AND METHODS II 3 Credit Hours
Ties together steel and concrete structural systems and the integration of building service systems, with a focus on the construction and detailing of building enclosure systems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 22200 CONSTRUCTION DOCUMENT READING 3 Credit Hours
The reading and understanding of the drawings that are used to communicate information about commercial and residential buildings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Construction Technology

CMGT 27210 SUSTAINABILITY IN THE BUILT ENVIRONMENT 3 Credit Hours
With broad coverage including architecture, engineering, and construction, this course nevertheless delivers detailed information on all aspects of the green building process, from materials selection to building systems and more.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

CMGT 31015 CONSTRUCTION TECHNOLOGY 3 Credit Hours
Course provides basic concepts and practices of the construction industry, including estimating, materials, tools, techniques and production of residential construction.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

CMGT 31023 CONSTRUCTION SURVEYING 3 Credit Hours
The study of surveying, including fieldwork, using state-of-the-art equipment and its relationship to the construction documents.
Prerequisite: CMGT 22200.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

CMGT 31033 MECHANICAL SYSTEMS 3 Credit Hours
An overview of mechanical systems in commercial and residential buildings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 31040 ELECTRICAL SYSTEMS FOR CONSTRUCTION MANAGERS 3 Credit Hours
An overview of electrical systems in commercial and residential buildings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 31044 ADVANCED CONSTRUCTION SAFETY AND MANAGEMENT 3 Credit Hours
Course enables students to be able to properly manage the construction safety techniques and practices they learned in CMGT 11044. Course provides the opportunity for students to learn how to utilize management skills to lead and implement an effective construction safety program.
Prerequisite: CMGT 11044.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 31045 CONSTRUCTION RISK MANAGEMENT 3 Credit Hours
Course provides an in-depth study of various risks associated with construction projects, and how those risks affect the construction industry. Topics of discussion include analytical and management techniques used to identify, analyze and respond to risks. Students review actual legal case studies and develop written opinion papers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 31046 INTRODUCTION TO INSURANCE AND WORKER'S COMPENSATION 3 Credit Hours
Introduction to construction-related insurance products and worker's compensation practices and policies. Course provides the understanding of the legal, management and costing implications associated with each of these, both prior to and during a construction project.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 32001 PROPOSAL DEVELOPMENT AND ANALYSIS 3 Credit Hours
(Repeatable for credit) Students create and combine project management, safety and quality control plans to prepare quantity takeoffs and schedule for a construction project, in the form of a construction proposal and presentation. Further analysis is done on general construction proposals.
Prerequisite: CMGT 10001; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 33092 CONSTRUCTION MANAGEMENT INTERNSHIP (ELR) (WIC) 2-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Supervised work-study experience in an approved construction-related business that is relative to a student's program. The course can be taken for 3 credit hours in the semester for full-time employment (450+ total hours) or 2 credit hours for part-time employment (300-450 total hours). To repeat the course for credit, the student must assume a different position or responsibilities if employed by the same organization, or the student must be employed by a different company.
Prerequisite: Minimum 2.250 overall GPA; and Construction Management major or minor; and sophomore standing.
Pre/corequisite: CMGT 11044.
Schedule Type: Practical Experience
Contact Hours: 20-30 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CMGT 33111 INTRODUCTION TO BUILDING STRUCTURES 3 Credit Hours
Introduction to Building Structures covers the basic concepts of vector mechanics and statics with their application to the relationship between applied forces and internal effects as utilized in either the selection or investigation of structural members subjected to various loading conditions
Prerequisite: PHY 13001 or PHY 23101.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab
Grade Mode: Standard Letter

CMGT 37295 SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT 1-3 Credit Hours
Analysis of significant and current issues in construction management not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CMGT 40095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) The course content is dependent on the special topics content.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CMGT 41040 CONSTRUCTION ESTIMATING I 3 Credit Hours
(Slashed with CMGT 51040) Introduction to estimating and the quantity takeoff process needed to complete accurate estimates for all types of construction projects. Students must have the ability to read and understand construction drawings.
Prerequisite: CMGT 11071 and CMGT 21071 and CMGT 22200.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 41041 CONSTRUCTION ESTIMATING II 3 Credit Hours
(Slashed with CMGT 51041) Course covers putting costs to the project, finalizing the bid, incorporating the estimate into the schedule, buying out the project, bidding ethics and using computer spreadsheets, including Excel, to automate estimating functions.
Prerequisite: CMGT 41040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 41047 FUNDAMENTALS OF INDUSTRIAL AND CONSTRUCTION HYGIENE 3 Credit Hours
Focuses on the environmental, community and occupational health issues within facilities and construction sites. Course provides the opportunity for students to recognize, evaluate and control occupational hazards.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 41048 OCCUPATIONAL SAFETY AND HEALTH LAW 3 Credit Hours
Course focuses on general legal doctrine and practical considerations of the Occupational Safety and Health Act (OSHA). Covers the scope of the act, duties under the act, enforcement, adjudication and OSHA-related litigation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42030 BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGEMENT 3 Credit Hours
This course is intended to apply Building Information Modeling tools in a meaningful manner within the field of Construction Management. The course will progress through the core concepts of widely used VDC tools: Sketchup, Revit, Navisworks. The key areas of focus will be conceptualizing projects, quantity takeoff, scheduling, and constructability review. Class time will involve hands-on training and exercises that will simulate real-world situations and deadlines. Complexity levels in the models will be minimized to ensure focus on concepts. Students will have multiple opportunities to hone their presentation skills with their projects through the course progression.
Prerequisite: CMGT 22200.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42050 INTERNATIONAL CONSTRUCTION MANAGEMENT 3 Credit Hours
Course focuses on the culture and management of international design and construction operations, with an emphasis on business development, financing, planning, contracts and negotiations, special construction techniques in adverse environments, procurement and logistics. A short-term study abroad trip is included in the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42051 ALTERNATIVE ENERGY SYSTEMS IN BUILDING DESIGN 3 Credit Hours
Course focuses on the construction application of alternative mechanical, electrical and plumbing systems in the built environment. Emphasis on energy efficient systems, energy conservation, cost benefits, building issues and construction techniques to develop these systems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42052 MECHANICAL AND ELECTRICAL ESTIMATING 3 Credit Hours
Course focuses on estimating mechanical, electrical, plumbing and fire protection systems for the built environment. Covers detailed estimating practices of mechanical systems, including indirect costs, direct costs, bidding strategies, piping, pumps, plumbing systems, fire protection, HVAC, ductwork, insulation, automatic temperature controls, supports and manpower.
Prerequisite: CMGT 31033 and CMGT 31040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42053 SUBCONTRACTOR LEADERSHIP AND PRACTICES 3 Credit Hours
Course focuses on the leadership, operations and overall management of construction subcontractor companies. Emphasis on how subcontractor leaders can avoid mistakes and manage risk to make their scopes of work run more intelligently, effectively and efficiently.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42054 CIVIL ESTIMATING 3 Credit Hours
Course provides an in-depth review and application of civil construction estimating techniques and technology associated with civil estimating practices. Course covers site work, site utilities, substructures and heavy equipment estimating.
Prerequisite: CMGT 10001 and CMGT 41040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42055 CIVIL UTILITY SYSTEMS 3 Credit Hours
Course discusses the installation, construction, renewal, estimating and management of underground utility systems. Maintains an emphasis on minimal soil and environmental disturbance.
Prerequisite: CMGT 10001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42056 SOILS AND MATERIALS 3 Credit Hours
Building on previous knowledge of construction, students explore the nature of soils and how they can influence construction operations, soil safety, soils within the construction contract, soil classifications, soil strengths and specification sections tied to soils and materials.
Prerequisite: CMGT 10001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

CMGT 42105 CONSTRUCTION CONTRACTS AND LAW 3 Credit Hours
(Slashed with CMGT 52105) Course covers the fundamentals of construction contracts and law; the impact of information technology on contracts and contracting; and the effect of contracts and law on the management, administration and costs of construction work.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42107 CONSTRUCTION SCHEDULING 3 Credit Hours
(Slashed with CMGT 52107) The traditional theory of planning, scheduling and controlling construction projects. Current industry standard computer applications for scheduling are utilized.
Prerequisite: CMGT 41041.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 43096 INDIVIDUAL INVESTIGATION IN CONSTRUCTION MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

CMGT 43099 CONSTRUCTION MANAGEMENT CAPSTONE (ELR) 3 Credit Hours
The application of all previous construction management courses and experiences to ensure all major learning objectives have been obtained, and that these learning objectives can be applied to performance similar to industry practices.
Prerequisite: CMGT 31033 and CMGT 31040 and CMGT 41041 and CMGT 42105 and CMGT 42107; and senior standing.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CMGT 50095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Various content based on the special topics content.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CMGT 51040 CONSTRUCTION ESTIMATING I 3 Credit Hours
(Slashed with CMGT 41040) Introduction to estimating and the quantity takeoff process needed to complete accurate estimates for all types of construction projects. Students must have the ability to read and understand construction drawings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 51041 ADVANCED ESTIMATING 3 Credit Hours
(Slashed with CMGT 41041) Course covers putting costs to the project, finalizing the bid, incorporating the estimate into the schedule, buying out the project, bidding ethics and using computer spreadsheets, including Excel, to automate estimating functions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 52105 CONSTRUCTION CONTRACTS AND LAW 3 Credit Hours
(Slashed with CMGT 42105) Course covers the fundamentals of construction contracts and law; the impact of information technology on contracts and contracting; and the effect of contracts and law on the management, administration and costs of construction work.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 52107 CONSTRUCTION SCHEDULING 3 Credit Hours
(Slashed with CMGT 42107) The traditional theory of planning, scheduling and controlling construction projects. Current industry standard computer applications for scheduling are utilized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 52110 ADVANCED CONSTRUCTION MANAGEMENT 3 Credit Hours
A comprehensive application of construction management principles and practices to various situations and projects according to construction industry methods and performance standards.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62030 BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGEMENT 3 Credit Hours
Course reinforces and investigate the usage of building information modeling (BIM) as a construction management tool. Students create BIM models, with scheduling and cost loading, to understand how BIM usage is maximized within the built environment. Student utilizes software applications to create the BIM model and integrate the construction schedule and estimate. Students also perform research on the application of BIM in the industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62040 CONSTRUCTION METHODS IMPROVEMENTS 3 Credit Hours
A focused study of the philosophy and principles of quality management as applied to the construction industry. Course presents a project-based approach to the principles and practices of Total Quality Management (TQM) in construction projects and the application of TQM and other quality measures during different phases of the construction process.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62050 INTERNATIONAL CONSTRUCTION MANAGEMENT 3 Credit Hours
Topics include operating and sustaining an international business or business presence, the global market, project funding, case studies and best practices. Course includes project-specific case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62060 NEGOTIATION IN THE BUILT ENVIRONMENT 3 Credit Hours
Examination of negotiation theories, strategies and tactics as applied to transactions in the construction and technological environments. Establishment of win-win environment in dealing with the project parties by adopting creative means to solve problems and resolve disputes. Practice through negotiation case studies, scenarios and role playing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62070 ENGINEERING ECONOMICS AND STRATEGIC DECISION MAKING 3 Credit Hours
Application of engineering economic principles related to evaluating alternative solutions, replacement decisions and retention decisions. Includes decision and risk analysis, sensitivity analysis, expected value, benefit cost analysis, public sector economics, economic cycle, operation research, strategic management and entrepreneurship in the technological environment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62080 ADVANCED CONSTRUCTION RISK MANAGEMENT 3 Credit Hours
This course provides an in-depth study of various risks associated with construction projects, and how those risks affect the construction industry. This course prepares leaders to make decisions that affect individual projects and the organization as a whole. Topics of discussion include analytical and management techniques used to identify, analyze, and respond to construction risks. Students review case studies, texts, and use instructor examples of how to identify and mitigate risks.
Prerequisite: Graduate Standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62108 ADVANCED CONSTRUCTION SCHEDULING 3 Credit Hours
This course reviews the traditional theory on planning, scheduling and controlling construction projects, including development of critical path networks (CPM & PERT), Gantt bar charts and construction cost control and reporting practices. Further, research and development of advanced scheduling theories and practice are performed and mastered, as well as classroom teaching and presentation experience. Forensic scheduling and claim building for construction delay concepts and practices are also investigated, reviewed, analyzed and practiced.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 65099 MASTER PROJECT IN CONSTRUCTION MANAGEMENT 3 Credit Hours
This course is the application of all previous construction management courses and experiences to ensure all major learning objectives have been obtained, and that these learning objectives can be applied to performance similar to industry best practices.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 67295 SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT 1-4 Credit Hours
Analysis of significant and current issues in construction management not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

CMGT 67296 INDIVIDUAL INVESTIGATION IN CONSTRUCTION MANAGEMENT 1-3 Credit Hours
Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

CMGT 67320 APPLIED SUSTAINABILITY IN CONSTRUCTION MANAGEMENT 3 Credit Hours
Investigation of strategies and methods used by construction managers and others to assist in developing sustainable built environments. Course takes a close look at standards for environmentally sustainable construction and at the application of best management practices for construction activities. Focus is on LEED certification, international standards on environmental management systems and other established criteria, guidelines, standards and tools associated with green building. Provides an in-depth discussion and practical application of LEED assessment, guidelines and standards for various building sectors. Includes a major individual design project/case study involving research in green construction and design on a particular construction project, along with the application of LEED guidelines, assessment and methods to the project.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Cooperative Education (COOP)

COOP 20092 COOPERATIVE EDUCATION (ELR) 0 Credit Hours
Limited to students on approved, full-time cooperative work assignments. No academic credit or grade is awarded for the assignment.
Prerequisite: Special approval.
Schedule Type: Cooperative Education
Contact Hours: 0 other
Grade Mode: Complete/Not Complete
Attributes: Experiential Learning Requirement

Counselor Education and Supervision (CES)

CES 20092 FIELD EXPERIENCE I: MIDDLE CHILDHOOD (ELR) 1 Credit Hour
(Repeatable for credit) Course augments from an experiential perspective knowledge of early adolescence period of development. Placement in school settings (30 hrs.).
Corequisite: HDFS 24013.
Schedule Type: Field Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CES 34650 PRACTICES AND THEORIES IN ADDICTIONS COUNSELING 3 Credit Hours
Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.
Prerequisite: CES 37662.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 34654 EVIDENCE-BASED APPROACHES IN ADDICTIONS COUNSELING 3 Credit Hours
Intensive study of a select number of evidence-based or empirically-supported approaches in addictions counseling, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.
Prerequisite: CES 37665.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 37662 INTRODUCTION TO ADDICTIONS COUNSELING 3 Credit Hours
Introduction to fundamental concepts and recommended practices in addictions counseling today, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 37665 PLANNING CARE IN ADDICTIONS COUNSELING 3 Credit Hours
Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative and coordinated care.
Prerequisite: CES 34650.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 37668 INTRODUCTION TO MOTIVATIONAL INTERVIEWING 3 Credit Hours
Introduction to motivational interviewing (MI), a strengths-based and evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 37692 ADDICTIONS COUNSELING PRACTICUM (ELR) 4-9 Credit Hours
(Repeatable for credit) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six or seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.
Prerequisite: CES 34654 or CES 37665.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 21-56 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

CES 37800 SMALL GROUP PROCESS 2 Credit Hours
(Cross-listed with HED 34060) Students learn to understand the dynamics of problem-solving groups and how to become effective leaders and members. Topics include climate, goals, decision making, communication, leadership, membership. Experience- based learning combined with conceptualizing.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CES 40093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) Topics of special interest to students who desire to increase their knowledge in counseling and related areas. Kent faculty and experts from other institutions and agencies. Topics will be announced in the schedule of classes booklet.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

CES 44084 BEHAVIORAL SCIENCE IN HEALTH PROFESSIONS 1-3 Credit Hours
(Repeatable for a maximum of 12 hours) Behavioral science perspective on individual and social issues affecting medical care delivery. Individually arranged. May include field projects participation in health related investigations and presentations and personal development programs.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 50093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours
(Repeatable for credit) (Slashed with CES 70093) Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of college of continuing studies. Limit of 6 hours with adviser's permission toward any degree program.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 60193 VARIABLE TITLE WORKSHOP IN CLINICAL REHABILITATION COUNSELING 1-4 Credit Hours
(Repeatable for credit)(Slashed with CES 70193) Variable topic workshop designed to respond to emerging or specialized needs in clinical rehabilitation counseling.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CES 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 64084 BEHAVIORAL SCIENCE IN THE HEALTH PROFESSIONS 1-3 Credit Hours
Behavioral science perspective on individual and social issues that affect medical care delivery. Individually arranged.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

CES 65511 RESEARCH IN COUNSELING 3 Credit Hours
Introduction to purposes and practice of qualitative and quantitative research related to counseling. There will be emphasis on elements of conducting research and using products of research to support and enhance practice. Authentic examples from counseling will be used as illustration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67492 PRACTICUM I: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
Students begin supervised practice of counseling with clients, primarily in The Counseling Center. Individual supervision and seminar discussion are used for the development of counseling skills, strategies and professional role.
Prerequisite: CES 67530 and CES 67531 and CES 67580 and CES 67628 and CES 67663 and CES 68126; and Clinical Mental Health Counseling major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Standard Letter

CES 67530 COUNSELING THEORIES 3 Credit Hours
(Slashed with CES 77530) A survey of counseling practice that examines the nature of counseling process and relationships as described from major theoretical perspectives.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67531 COUNSELING SKILLS AND TECHNIQUES 3 Credit Hours
(Slashed with CES 77531) Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67580 MULTICULTURAL COUNSELING 3 Credit Hours
(Slashed with CES 77580) Seminar focused on sensitivities needed to work effectively with diverse clients. Consideration given to racism, oppression, poverty, ageism, gender, and relational affinity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67591 SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) Variable topic seminars considering problems, research and current practices for counselors and personnel workers. Topic to be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

CES 67592 PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Repeatable for credit) (Slashed with CES 77592) Involves individual counseling and group work with appropriate populations. Caseload geared toward preparation for internship.
Prerequisite: CES 67492; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Standard Letter

CES 67595 SPECIAL TOPICS IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 87595) Presentation of topics of special interest to students in counselor education and supervision. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 67596 INDIVIDUAL INVESTIGATION IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 87596) Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 67628 DIAGNOSIS IN COUNSELING 3 Credit Hours
(Slashed with CES 77628) Students develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67662 FOUNDATIONS OF ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77662) Introduction to fundamental concepts and recommended practices in addictions counseling, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67663 ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Slashed with CES 77663) Attention is given to the identity, ethics, professional standards and organizations, and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67664 THEORIES AND PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77664) Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.
Prerequisite: CES 67662; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67665 TREATMENT PLANNING IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77665) Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative, coordinated, and ethical care.
Prerequisite: CES 67664; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67666 EVIDENCE-BASED PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77666) Intensive study of a select number of evidence-based practices (EBPs) in addictions counseling for individuals, groups, and families, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.
Prerequisite: CES 67665; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67668 MOTIVATIONAL INTERVIEWING 3 Credit Hours
(Slashed with CES 77668) Introduction to motivational interviewing (MI), a strengths-based evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67692 PRACTICUM IN ADDICTIONS COUNSELING 3-6 Credit Hours
(Slashed with CES 77692) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six to seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and counselor self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.
Prerequisite: CES 67665 or CES 67666; and graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter-IP

CES 67695 SPECIAL TOPICS IN CLINICAL MENTAL HEALTH COUNSELING 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 77695) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 67698 INDIVIDUAL RESEARCH IN CLINICAL MENTAL HEALTH COUNSELING 1-9 Credit Hours
(Repeatable for credit) Student pursues research project on selected aspect of clinical mental health counseling under supervision of instructor. Arrangements with instructor must be made prior to registration. Credit hours to be fixed at registration time.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-9 other
Grade Mode: Satisfactory/Unsatisfactory

CES 67712 ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Slashed with CES 77712) Introductory course surveys philosophy, history and legislation in rehabilitation, which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67723 MEDICAL INFORMATION FOR CLINICAL REHABILITATION COUNSELORS 3 Credit Hours
(Slashed with CES 77723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours
(Slashed with CES 77725) Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours
(Slashed with CES 77732) An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67776 RESEARCH IN CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Slashed with CES 77776) Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Course acquaints students with current research. Evaluation of design statistical analysis and conclusions.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 67792 INTERNSHIP I: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Repeatable for credit) Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders.
Prerequisite: Clinical Mental Health Counseling major; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 67795 SPECIAL TOPICS IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours
(Repeatable for credit)(Slashed with CES 77795) Presentation of special interest to students. Topics vary per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 67796 INDIVIDUAL INVESTIGATION IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours
(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

CES 67798 INDIVIDUAL RESEARCH IN CLINICAL REHABILITATION COUNSELING 1-6 Credit Hours
(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of an instructor. Students must make arrangements with the instructor prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 67820 GROUP WORK: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 77820) This is an experiential and didactic course designed to provide both an overview of groups and a basic group experience. Involvement in a group is part of this course as is practice of group leadership skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67858 SEMINAR: GROUP COUNSELING 2 Credit Hours
(Slashed with CES 77858) Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

CES 67892 INTERNSHIP II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Repeatable for credit) Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders.
Prerequisite: Clinical Mental Health Counseling major; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 68011 FOUNDATIONS OF SCHOOL COUNSELING 3 Credit Hours
(Slashed with CES 78011) Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel and on the development of comprehensive school counseling programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68066 COUNSELING ADOLESCENTS 3 Credit Hours
(Slashed with CES 78066) A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans and referral procedures for youth will be covered.
Prerequisite: CES 67530 and 67531; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68067 COUNSELING CHILDREN 3 Credit Hours
(Slashed with CES 78067) Seminar focusing on intra and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play media.
Prerequisite: CES 67530 or 77530 and 67531 or 77531; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68068 SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP 3 Credit Hours
(Slashed with CES 78068) Focuses on the management, leadership and implementation of comprehensive school counseling program including developmental counseling approaches, management systems and outcome research.
Prerequisite: CES 68011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68069 ORIENTATION AND ETHICS: SCHOOL COUNSELING 3 Credit Hours
(Slashed with CES 78069) Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards, roles and functions of school counselors, and ethical standards and legal issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68070 COLLEGE AND CAREER READINESS 3 Credit Hours
This course will provide students with a knowledge base of the role of school counselors in college and career readiness and counseling. This course is designed to promote college and career advisement knowledge and skills to enable them to effectively work with students and stakeholders in post-secondary options.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68095 SPECIAL TOPICS IN SCHOOL COUNSELING 1-3 Credit Hours
(Repeatable for credit) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 68126 INTRODUCTION TO ASSESSMENT IN COUNSELING 3 Credit Hours
(Slashed with CES 78126) Instruction and experience in utilizing observational, measurement and appraisal methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68128 CLINICAL ASSESSMENT IN COUNSELING 3 Credit Hours
(Slashed with CES 78128) Experience in selecting, administering and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology.
Prerequisite: CES 68126 and 67628; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68130 PSYCHOPATHOLOGY FOR COUNSELORS 3 Credit Hours
(Slashed with CES 78130) This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment and psychopharmocological aspects of treatment are considered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68167 CASE CONCEPTUALIZATION AND TREATMENT PLANNING 3 Credit Hours
(Slashed with CES 88167) Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used.
Prerequisite: CES 67628 and CES 67492; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68168 ADVANCED COUNSELING THEORIES 3 Credit Hours
(Repeatable twice for credit) (Slashed with CES 88168) Consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used.
Prerequisite: CES 67492 with a minimum S grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68182 CAREER COUNSELING 3 Credit Hours
(Slashed with CES 78182) The world of work, theories of career choice, techniques in career counseling. An introductory course in the career area for practitioners in education, helping services, human resources and personnel.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68192 INTERNSHIP I: SCHOOL COUNSELING 3 Credit Hours
(Repeatable for credit) Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the implementation of advocacy, leadership, collaboration, and systemic change is highlighted. This course meets specific CACREP standards.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 68284 SUPERVISION IN COUNSELING I 3 Credit Hours
(Repeatable twice for credit) (Slashed with CES 88284) Focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences.
Prerequisite: CES 67592 or 77592 with a minimum S grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68292 INTERNSHIP II: SCHOOL COUNSELING 3 Credit Hours
(Repeatable for credit) Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the application of advocacy, leadership, collaboration and systemic change are highlighted in this course. This course meets specific CACREP standards.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 68392 SCHOOL COUNSELING PRACTICUM 3 Credit Hours
Students begin supervised practice of counseling with clients, primarily in a K-12 school. Direct observation, audio video recording, individual supervision, and seminar discussion are used for the development of counseling skills, strategies, and professional role. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the practicum will take place.
Prerequisite: CES 67530 and CES 67531 and CES 67820 and CES 68069; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 68529 COUPLES THERAPY:THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 78529) Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68533 FAMILY THERAPY: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 78533) Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic experiential and applied atmosphere.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68538 ADVANCED MULTICULTURAL COUNSELING 3 Credit Hours
(Slashed with CES 78538) This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided.
Prerequisite: CES 67580 or CES 77580 and CES 67531 or CES 77531; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 69192 PRACTICUM: CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Repeatable for credit) Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.
Prerequisite: CES 67492 and CES 67628 and CES 67725; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 69792 INTERNSHIP IN CLINICAL REHABILITATION COUNSELING 3,6 Credit Hours
(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor.
Prerequisite: CES 69192; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 23-43 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 70093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours
(Repeatable for credit) (Slashed with CES 50093) Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of College of Continuing Studies. Limit of 6 hours with adviser's permission toward any degree program.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 70193 VARIABLE TITLE WORKSHOP IN CLINICAL REHABILITATION COUNSELING 1-4 Credit Hours
(Repeatable for credit)(Slashed with CES 60193) Variable topic workshop designed to respond to emerging or specialized needs in clinical rehabilitation counseling.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 77530 COUNSELING THEORIES 3 Credit Hours
(Slashed with CES 67530) A survey of counseling practice that examines the nature of counseling process and relationships as described from major theoretical perspectives.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77531 COUNSELING SKILLS AND TECHNIQUES 3 Credit Hours
(Slashed with CES 67531) Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77580 MULTICULTURAL COUNSELING 3 Credit Hours
(Slashed with CES 67580) Seminar focused on sensitivities needed to work effectively with diverse clients. Consideration given to racism, oppression, poverty, ageism, gender and relational affinity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77584 WRITING FOR PROFESSIONAL PUBLICATIONS 3 Credit Hours
Seminar experience designed to prepare professionals to publish research findings, conceptualizations and professional field experiences in refereed journals and books. Elements of grant writing also treated.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77592 PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Repeatable for credit) (Slashed with CES 67592) Involves individual counseling and group work with appropriate populations. Caseload geared toward preparation for internship. Controlled registration.
Prerequisite: CES 77628; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Standard Letter

CES 77628 DIAGNOSIS IN COUNSELING 3 Credit Hours
(Slashed with CES 67628) Students develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77662 FOUNDATIONS OF ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 67662) Introduction to fundamental concepts and recommended practices in addictions counseling, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77663 ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Slashed with CES 67663) Attention is given to the identity, ethics, professional standards and organizations and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77664 THEORIES AND PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77664) Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.
Prerequisite: CES 67662 or CES 77662; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77665 TREATMENT PLANNING IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 67665) Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative, coordinated, and ethical care.
Prerequisite: CES 67664 or CES 77664; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77666 EVIDENCE-BASED PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 67666) Intensive study of a select number of evidence-based practices (EBPs) in addictions counseling for individuals, groups, and families, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.
Prerequisite: CES 77665; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77668 MOTIVATIONAL INTERVIEWING 3 Credit Hours
(Slashed with CES 67668) Introduction to motivational interviewing (MI), a strengths-based evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77692 PRACTICUM IN ADDICTIONS COUNSELING 3-6 Credit Hours
(Slashed with CES 67692) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six to seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and counselor self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.
Prerequisite: CES 67665 or CES 77665 or CES 67666 or CES 77666; and doctoral standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter-IP

CES 77695 SPECIAL TOPICS IN CLINICAL MENTAL HEALTH COUNSELING 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 67695) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 77712 ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Slashed with CES 67712) Introductory course surveys philosophy, history and legislation in rehabilitation, which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77723 MEDICAL INFORMATION FOR CLINICAL REHABILITATION COUNSELORS 3 Credit Hours
(Slashed with CES 67723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours
(Slashed with CES 67725) Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours
(Slashed with CES 67732) An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77776 RESEARCH IN CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Slashed with CES 67776) Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Course acquaints students with current research. Evaluation of design statistical analysis and conclusions.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 77795 SPECIAL TOPICS IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours
(Repeatable for credit)(Slashed with CES 67795) Presentation of special interest to students. Topics vary per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 77796 INDIVIDUAL INVESTIGATION IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours
(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

CES 77798 INDIVIDUAL RESEARCH IN CLINICAL REHABILITATION COUNSELING 1-6 Credit Hours
(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of an instructor. Students must make arrangements with the instructor prior to registration.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 77820 GROUP WORK: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 67820) This is an experiential and didactic course designed to provide both an overview of groups and a basic group experience. Involvement in a group is part of this course as is practice of group leadership skills.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77858 SEMINAR: GROUP COUNSELING 2 Credit Hours
(Slashed with CES 67858) Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 78011 FOUNDATIONS OF SCHOOL COUNSELING 3 Credit Hours
(Slashed with CES 68011) Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel and on the development of comprehensive school counseling program.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78066 COUNSELING ADOLESCENTS 3 Credit Hours
(Slashed with CES 68066) A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans and referral procedures for youth will be covered.
Prerequisite: CES 67530 or CES 77530 and CES 67531 or CES 77531; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78067 COUNSELING CHILDREN 3 Credit Hours
(Slashed with CES 68067) Seminar focusing on intra and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play media.
Prerequisite: CES 67530 or CES 77530 and CES 67531 or CES 77531; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78068 SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP 3 Credit Hours
(Slashed with CES 68068) Focuses on the management, leadership and implementation of comprehensive school counseling program including developmental counseling approaches, management systems and outcome research.
Prerequisite: CES 68011 or CES 78011; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78069 ORIENTATION AND ETHICS: SCHOOL COUNSELING 3 Credit Hours
(Slashed with CES 68069) Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards roles and functions of school counselors and ethical standards and legal issues.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78126 INTRODUCTION TO ASSESSMENT IN COUNSELING 3 Credit Hours
(Slashed with CES 68126) Instruction and experience in utilizing observational, measurement and appraisal methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78128 CLINICAL ASSESSMENT IN COUNSELING 3 Credit Hours
(Slashed with CES 68128) A laboratory experience in selecting, administering and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology.
Prerequisite: CES 68126 or CES 78126; and CES 67628 or CES 77628; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78130 PSYCHOPATHOLOGY FOR COUNSELORS 3 Credit Hours
(Slashed with CES 68130) This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment, and psychopharmocological aspects of treatment are considered.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78182 CAREER COUNSELING 3 Credit Hours
(Slashed with CES 68182) The world of work, theories of career choice, techniques in career counseling. An introductory course in the career area for practitioners in education, helping services, human resources and personnel.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78529 COUPLES THERAPY:THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 68529) Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78533 FAMILY THERAPY: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 68533) Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic experiential and applied atmosphere.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78538 ADVANCED MULTICULTURAL COUNSELING 3 Credit Hours
(Slashed with CES 68538) This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided.
Prerequisite: CES 67580 or CES 77580; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78592 PRACTICUM IN COUPLES AND FAMILY THERAPY 3 Credit Hours
(Repeatable for credit) Supervised experience in the practice of couples and family counseling. Students meet for individual supervision and seminar groups to assess their effectiveness in helping relationships.
Prerequisite: Doctoral standing in Counselor Education and Supervision major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 14 other
Grade Mode: Standard Letter

CES 79192 PRACTICUM II: CLINICAL REHABILITATION COUNSELING 3 Credit Hours
Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 79792 INTERNSHIP IN CLINICAL REHABILITATION COUNSELING 6 Credit Hours
(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor.
Prerequisite: CES 69192 or CES 79192; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 43 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 80090 DOCTORAL RESIDENCY SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours
Focus on professional identity, current issues and trends and involvement in professional activities.
Prerequisite: Doctoral standing in Counselor Education and Supervision major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral candidates work on dissertation research in consultation with their advisors. Doctoral candidates will register for two consecutive semesters of CES 80199 Dissertation I for 15 hours each semester, immediately following successful completion of doctoral comprehensive exams. Thereafter, students will register for CES 80299 Dissertation II each semester, including summer, until all degree requirements have been met.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 80200 FUNDAMENTALS OF WRITING AND RESEARCH IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours
Didactic and experiential training in the fundamentals of academic or scholarly writing and research in the counseling profession. Emphasis on reading practices; elements, principles, and processes of academic or scholarly writing; and generativity and systematic methodology in applied research in counseling and counselor education and supervision.
Prerequisite: Doctoral standing in the Counselor Education and Supervision major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of Dissertation I and continuing until all degree requirements are met. Satisfactory/unsatisfactory (S/U) graded. In-progress (IP) mark permissible.
Prerequisite: CES 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 80300 LEADERSHIP AND ADVOCACY IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours
This course is designed to assist doctoral level CES students to become knowledgeable and skillful professionals in leadership and advocacy efforts. Students will learn aspects of leadership and advocacy, such as applications in various settings and with diverse populations, to enable them to develop ethical and culturally relevant practices. Students must have completed one semester in the Counselor Education and Supervision doctoral program to enroll in this course.
Prerequisite: Doctoral standing in the Counselor Education and Supervision major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 87392 ADVANCED INDIVIDUAL COUNSELING PRACTICUM 3 Credit Hours
(Repeatable for credit) Supervised experience in counseling. Students meet for individual supervision and in seminar groups to assess their effectiveness in helping relationships.
Prerequisite: Doctoral standing in the Counselor Education and Supervision major.
Schedule Type: Practical Experience
Contact Hours: 14 other
Grade Mode: Standard Letter

CES 87595 SPECIAL TOPICS IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) Presentation of topics of special interest to students in counselor education and supervision. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 87596 INDIVIDUAL INVESTIGATION IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 67596) Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 88167 CASE CONCEPTUALIZATION AND TREATMENT PLANNING 3 Credit Hours
(Slashed with CES 68167) Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used.
Prerequisite: CES 67628 or CES 77628; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 88168 ADVANCED COUNSELING THEORIES 3 Credit Hours
(Repeatable twice for credit) (Slashed with CES 68168) Consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 88281 RESEARCH SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours
Topics or problems of current concern in counselor education and supervision services. Review of significant studies, design strategies, instrumentation, data analysis and research issues. Topic to be announced in schedule of classes booklet.
Prerequisite: CES 80200, EVAL 75510, EVAL 85515 and EVAL 85516; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 88284 SUPERVISION IN COUNSELING I 3 Credit Hours
(Repeatable twice for credit) (Slashed with CES 68284) This seminar focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 88292 INTERNSHIP IN COUNSELOR EDUCATION AND SUPERVISION 3-6 Credit Hours
(Repeatable for credit) Opportunity to integrate learning and skills in Counseling, Teaching, Research and Scholarship, Leadership, and Supervision. Each experience requires supervision. Completion of program course requirements is necessary prior to registration. Limited to 12 students.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience, Seminar
Contact Hours: 23-46 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 88294 COLLEGE TEACHING IN COUNSELOR EDUCATION AND SUPERVISION I 3 Credit Hours
(Repeatable for credit) An overview of teaching counseling at a graduate college level. The course consists of foundations, structural, and process components of college teaching. Students will be involved in activities that address each of these areas. Students will develop a reflective process that will support continual improvement in teaching.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 88298 INDIVIDUAL RESEARCH IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) Individual research on selected aspect of counseling and human development services under supervision of instructor. Arrangements with instructor must be made prior to registration. Satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CES 88392 COLLEGE TEACHING IN COUNSELOR EDUCATION AND SUPERVISION II 3 Credit Hours
(Repeatable for credit) Supervised experience in the practice of college teaching in Counselor Education and Supervision. Students will teach a master's level course in Counselor Education and Supervision and then meet for group supervision to assess their effectiveness in college teaching. Live and recorded supervisory processes will be utilized to assist with skill development.
Prerequisite: CES 88294; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CES 88492 SUPERVISION IN COUNSELING II 3 Credit Hours
(Repeatable for credit) This practicum focuses on the application of theoretical perspectives and practices of counseling supervision. It includes multiple supervisory experiences, including facilitation of individual and group supervision of counseling students in master's practicums or internships.
Prerequisite: CES 88284; and doctoral standing in the Counselor Education and Supervision major.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

Criminology and Justice Studies (CRIM)

CRIM 12000 INTRODUCTION TO JUSTICE STUDIES 3 Credit Hours
Surveys the U.S. criminal justice system and its component institutions and processes, including overviews of policing, corrections, courts, and their inter-relations in the criminal justice system. An overview is also provided of the nature and measurement of crime, patterns of offending and victimization, and criminal justice responses to offending and victimization. Historical and emerging issues are introduced including a variety of insights related to effective, professional and ethical practices in criminal justice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

CRIM 13000 CRIME AND TECHNOLOGY 3 Credit Hours
This course is designed to provide a comprehensive understanding of how technologies are shaping crime and justice. This course aims to focus on the broader societal impact of technologies in order to build knowledge and awareness. The course topics introduced touch on other academic disciplines such as philosophy, economics, criminal justice and sociology, weaving together the critical trends and the shifting technological revolution that is currently underway.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 22100 BASIC INTERVIEWING 3 Credit Hours
Foundation of basic interviewing principles, including communication models, question format, distortions, topic control, inhibitors, facilitators, listening, types of interviews and practical exercises.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 22200 INTERPERSONAL AND PROFESSIONAL SKILLS FOR PUBLIC SAFETY PROFESSIONALS 3 Credit Hours
Course prepares students with law enforcement-related verbal and written skills that are essential for bridging the communication gap and ensuring safety, success with cases and written reports and rapport with the citizens officers are sworn to protect. Officers encounter a variety of citizens daily from different cultures, backgrounds, socioeconomic statuses, abilities and crisis situations. This course prepares students to create a culture of mutual respect and build trust and relationships essential in de-escalating situations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 22300 POLICE ROLE 3 Credit Hours
Systematic analysis of the police role. An examination of the related research with an emphasis on divergent perspective and development of conceptual models.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

CRIM 22301 THE INVESTIGATIVE PROCESS 3 Credit Hours
An examination of established investigative processes, techniques employed in conducting a systematic investigation and legal implications.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 26701 CORRECTIONS 3 Credit Hours
Course topics include history of corrections, punishment, community corrections, correctional institutions, correctional administration, issues in corrections, and future trends of corrections.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

CRIM 26704 ISSUES IN LAW AND SOCIETY (KSS) 3 Credit Hours
General treatment of the legal system with special emphasis on its origin, structure and functional consequences on issues and problems in modern society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Social Sciences, Transfer Module Social Sciences

CRIM 27095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 2,3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Intensive analysis of issues significant and current in the field which are not covered in regular courses.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter

CRIM 27311 VICTIMOLOGY 3 Credit Hours
Patterns of victim-offender relationship and process of victimization. Role of victims in criminal process. Problems of adjustment to victimization and issues in victim compensation.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 32005 CAREER PATHWAYS IN SOCIOLOGY AND CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours
(Cross-listed with SOC 32005) This course equips students with an understanding of the career pathways available after completing a major or minor in sociology or criminology and justice studies. Provides students with a broad overview of career paths in sociology and criminology and justice studies while also helping students identify opportunities for internships and research while at Kent State.
Prerequisite: CRIM 12000 or SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 32200 POLICE AND COMMUNITY 3 Credit Hours
An examination of the rights of individuals, citizen involvement, the police as members of the community, and the development implementation and evaluation of related programs.
Prerequisite: CRIM 12000 and CRIM 22300; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 32500 CRISIS INTERVENTION 3 Credit Hours
Crisis intervention situations in criminal justice are considered. The service role of criminal justice personnel, community resources and skill development are also considered.
Prerequisite: CRIM 12000; and CRIM 22300 or CRIM 27311; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 32762 DEVIANT BEHAVIOR 3 Credit Hours
(Cross-listed with SOC 32762) Overview of classical and contemporary theories and perspectives on the nature, causes and societal management of deviant behavior. Application of theories and perspectives to modern and historical social problems, methods of punishment and policy trends in social control.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 33200 CRIMINAL LAW 3 Credit Hours
Developmental backgrounds and principles of criminal law; structure, functions of criminal law; rules of criminal liability and procedural requisites in criminal proof. Case analysis included.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 33300 DEVELOPMENT OF JUSTICE IN AMERICA 3 Credit Hours
Course focuses on the evolution of the criminal justice process from its establishment in the United States to the present.
Prerequisite: CRIM 12000; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 33400 CRIME AND JUSTICE IN POPULAR CULTURE 3 Credit Hours
Crime and criminal justice as they are socially constructed and portrayed in popular culture including television, news and entertainment, popular film and other media of popular culture. Critical analysis of relations between popular culture, media institutions, crime and justice. Role of popular culture media in shaping public opinions about crime and justice, and in turn the relevance of public opinion for understanding criminal justice politics and policy.
Prerequisite: CRIM 12000; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 34200 CRIMINAL PROCEDURES AND EVIDENCE 3 Credit Hours
This course focuses on the use of evidence and the legal procedures followed in the processing of criminal cases. Case analysis and writing assignments required.
Prerequisite: CRIM 12000 or PLST 18000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 34311 YOUTH AND THE JUSTICE SYSTEM 3 Credit Hours
Analysis of situations involving the legal rights of children and youths, which demand intervention by justice institutions or service agencies.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 34500 UNDERSTANDING CRIMINAL LAW THROUGH FICTION 3 Credit Hours
Exploration of legal concepts and their application as reflected in popular and literary fiction. Legal analysis of important issues involving criminal and civil law, criminal and civil procedures, evidence, courts and related legal topics. Application of legal issues and procedures to real life situations.
Prerequisite: CRIM 12000 and CRIM 26704; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 36702 CRIMINOLOGY 3 Credit Hours
Examines crime from the legal and social viewpoints including extent and patterns of criminal behavior. Special emphasis on theoretical explanations of criminal behavior and crime rates.
Prerequisite: CRIM 12000 or SOC 12050; and Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter
Attributes: CTAG Criminal Justice, TAG Social and Behavioral Sciences

CRIM 36703 JUVENILE DELINQUENCY 3 Credit Hours
Social and personal factors in juvenile delinquency; operation of juvenile justice system; prevention and control of delinquency.
Prerequisite: CRIM 12000 and CRIM 36702.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 36800 LGBTQ POPULATIONS IN THE JUSTICE SYSTEM (DIVD) 3 Credit Hours
This course explores research on LGBTQ (lesbian, gay, bisexual, transgender, and queer) populations in the juvenile and criminal justice systems. Students will examine the role that sexual orientation, gender identity, and gender expression play in the juvenile and criminal justice system, with particular attention given to the experiences of LGBTQ people within these institutions. Drawing on sociological theories of sex and gender and queer criminology, the course will review historical trends in the treatment of LGBTQ people in the justice systems, circumstances facing LGBTQ populations (sexual assault, harassment, hate crimes, institutional discrimination), and policy developments and innovations.
Prerequisite: SOC 12050 or CRIM 12000; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

CRIM 37091 SEMINAR IN CRITICAL ISSUES IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours
(Repeatable for credit) Intense analysis of issues significant and current in the justice field which are not covered in regular courses.
Prerequisite: CRIM 12000; and sophomore standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

CRIM 37095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)Intensive analysis of issues significant and current in the field which are not covered in regular courses. Repeatable for a total of 6 hours.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 37311 MINORITIES IN CRIME AND JUSTICE (DIVD) 3 Credit Hours
Focus on the role of social and ethnic minorities as victims, offenders and participants in the justice process.
Prerequisite: CRIM 12000 or SOC 12050; and Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter
Attributes: Diversity Domestic

CRIM 37411 WOMEN IN CRIME AND JUSTICE (DIVD) 3 Credit Hours
Women as a significant group in crime and their role in the development and operation of the criminal justice system.
Prerequisite: CRIM 12000 or SOC 12050; and Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter
Attributes: Diversity Domestic

CRIM 37511 IMMIGRATION: LAW, CRIME AND JUSTICE (DIVD) 3 Credit Hours
Covers issues of immigration related to law, crime, and justice. Students will be introduced to issues of international diversity through the consideration of issues of law, criminal justice, and social justice related to immigration. Topics to be covered include legal and illegal immigration, immigration law enforcement, immigrants as criminal offenders and as crime victims, police-community relations, immigrants in correctional or detention facilities, and immigration as a national security concern and controversy.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

CRIM 42577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours
(Cross-listed with SOC 42577)(Slashed with CRIM 52577 and SOC 52577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, intimate partner abuse, elderly abuse, rape, sexual abuse of children.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 44400 JUSTICE ADMINISTRATION 3 Credit Hours
Identification of administrative and management functions, leadership management styles and supervision of personnel in justice organizations.
Prerequisite: CRIM 12000; and CRIM 22300 (or CRIM 26701); and CRIM 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 45093 VARIABLE TITLE WORKSHOP IN CRIMINOLOGY AND JUSTICE STUDIES 1-6 Credit Hours
(Repeatable for credit) (Slashed with CRIM 55093)
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CRIM 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours when topic varies) Involves an individual research project of considerable depth in a subject area not covered by regular course offerings. Prior consent of supervising faculty member is required.
Prerequisite: CRIM 12000 and 26704; and SOC 32210; and junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

CRIM 46200 CURRENT CONTROVERSIAL LEGAL ISSUES 3 Credit Hours
Focuses on reading, analyzing and discussing current criminal, evidentiary and procedural issues as set forth in recent and historical U.S. Supreme Court cases. Case analysis, discussion and writing assignments are required.
Prerequisite: CRIM 12000 or PLST 18000; and junior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CRIM 46701 CRIME, JUSTICE AND SUBSTANCE ABUSE 3 Credit Hours
(Slashed with CRIM 56701) Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered.
Prerequisite: CRIM 12000 and CRIM 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46705 COMMUNITY CORRECTIONS 3 Credit Hours
(Slashed with CRIM 56705) This course is devoted to an examination of formal and informal approaches to correctional supervision and treatment through probation, parole and community residential treatment.
Prerequisite: CRIM 12000 and CRIM 26701.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46707 CORRECTIONAL INSTITUTIONS 3 Credit Hours
A thorough examination of the correctional institution, including the structure and organization, personnel, inmate social world and examination of the issues in contemporary correctional institutions.
Prerequisite: CRIM 12000 and CRIM 26701.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46708 TREATMENT METHODS 3 Credit Hours
(Slashed with CRIM 56708) Various methods of treatment are applied to corrections field. Focus is on specific techniques in community and institutional correctional settings. Direct observation utilized when possible.
Prerequisite: CRIM 12000 and 26701; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46792 INTERNSHIP (ELR) 3-9 Credit Hours
(Repeatable for credit) Work experience under the direction of supervising faculty member in a private, federal, state or local justice agency/organization, law agency/organization.
Prerequisite: CRIM 12000; and minimum 2.000 overall GPA; and Criminology and Justice Studies major or minor; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CRIM 46798 RESEARCH IN CRIMINOLOGY AND JUSTICE STUDIES (ELR) 3-12 Credit Hours
(Repeatable for credit) Individual research under direct supervision of a faculty member to provide direct hands-on research experience working on faculty research projects. Prior consent of supervising faculty member is required. Only 6 hours of nontraditional coursework can count towards the major.
Prerequisite: CRIM 12000 and CRIM 26704; and SOC 32210; and special approval.
Schedule Type: Research
Contact Hours: 3-12 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

CRIM 46800 INTELLIGENCE AND NATIONAL SECURITY 3 Credit Hours
(Slashed with CRIM 56800) Addresses topics related to global security, including economic and industrial espionage, trade secret thefts, law and technology and cyber-crimes. Implications of industrial espionage and intellectual property theft for the global economy, national and international security, and the control and regulation of white collar crime. Foundational exploration of Intelligence and Counterintelligence (IC) as concepts, processes and careers.
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46801 HOMELAND SECURITY 3 Credit Hours
(Slashed with CRIM 56801) Explores the nexus between terrorism and homeland security as it relates to homeland security strategy, assessment, evaluation, preparation, responses, and recovery actions and mechanisms relating to terrorism and homeland security. There is a focus on the importance of coordination of various assessments, plans, strategies and implementation of plans of action involving local, county, state, federal and international responses pertaining to terrorism and homeland security.
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46802 TERRORISM AND COUNTERTERRORISM 3 Credit Hours
(Slashed with CRIM 56802) Examines the origins and evolution of modern terrorism, challenges posed by terrorist groups to states and to the international system, and strategies employed to confront and combat terrorism. Assesses a wide variety of terrorist organizations, and explores the psychological, socioeconomic, political, and religious causes of terrorist violence past and present. Also analyzes the strengths and weaknesses of various counterterrorism efforts.
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46803 INFORMATION AND CYBER SECURITY 3 Credit Hours
(Slashed with CRIM 56803) Vulnerabilities of computer networks and techniques for protecting networks and data are discussed. Basic elements of symmetric and asymmetric cryptography, secure e-commerce, involving secure transmission, authentication, digital signatures, digital certificates and Public Key Infrastructure (PKI) are presented. Provides students with an introduction to the field of information security risk assessment. Incorporates cases in risk analysis derived from actual state and law enforcement agencies or private firms.
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46904 ISSUES IN POLICE WORK 3 Credit Hours
(Slashed with CRIM 56904) Analysis of police practices and functions at the municipal, state and federal level. Examination of emerging trends and issues in policing. Review of changes in police department policies and research on problem-solving in policing.
Prerequisite: CRIM 12000 and CRIM 22300; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47002 HUMAN SERVICE AGENCIES AND THE LAW 3 Credit Hours
(Slashed with CRIM 57002) An overview of the law as it pertains to human service agencies, as well as on the relationships between such agencies and the criminal and juvenile justice systems. Focused attention is given to agencies that closely connect with vulnerable populations (such as children and the poor) and those that work closely with policing and corrections (such as mental health agencies and halfway houses).
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47003 RESTORATIVE JUSTICE AND VICTIM ASSISTANCE 3 Credit Hours
(Slashed with CRIM 57003) An inquiry into the theories and research in restorative justice, as well as an assessment of victim assistance protocols and programs. Examines restorative justice and victim assistance initiatives that provide an alternative framework for dealing with crime that places victim needs in a primary position, while addressing legal concerns and interagency differences.
Prerequisite: CRIM 12000 and CRIM 27311; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47004 LEGAL PERSPECTIVES AND RIGHTS IN VICTIMIZATION 3 Credit Hours
(Slashed with CRIM 57004) An analysis of the legal rights of victims of crime at state and federal levels as well as a review of how these laws relate to the treatment of victims within the criminal and juvenile justice systems, with particular focus on the courts and correctional institutions. Relevant legislative and Constitutional changes and challenges are also addressed.
Prerequisite: CRIM 12000 and CRIM 27311; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours
(Repeatable for credit) Intensive analysis of issues significant and current in the field which are not covered in regular courses.
Prerequisite: CRIM 12000 and 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47211 COURT FUNCTIONS 3 Credit Hours
Analysis of the structure, functions and critical role of incumbents in the criminal court.
Prerequisite: CRIM 12000 and 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47311 COMPARATIVE JUSTICE SYSTEMS 3 Credit Hours
A systematic comparison of the developmental backgrounds, structure and functioning of the major systems of justice in the modern world.
Prerequisite: CRIM 12000 and CRIM 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 52577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours
(Cross-listed with SOC 52577)(Slashed with CRIM 42577 and SOC 42577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, intimate partner abuse, elderly abuse, rape, sexual abuse of children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 55093 VARIABLE TITLE WORKSHOP IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with CRIM 45093) Classroom presentations and field study focused on professional and disciplinary concerns. Specific content varies with workshop topic.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CRIM 56701 CRIME, JUSTICE AND SUBSTANCE ABUSE 3 Credit Hours
(Slashed with CRIM 46701) Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56705 COMMUNITY CORRECTIONS 3 Credit Hours
(Slashed with CRIM 46705) Study of community-based correctional supervision and treatment, examining probation, parole, and related residential programs. Topics covered include the history and organization of, and best practices in, community corrections.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56708 TREATMENT METHODS 3 Credit Hours
(Slashed with CRIM 46708) Addresses institutional- and community-based treatment of offenders. Coverage includes the theoretical foundations of treatment and common intervention strategies, including evidence-based practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56709 EMERGING TRENDS AND ISSUES IN CORRECTIONS 3 Credit Hours
Explores recent developments pertinent to the field of corrections, including sentencing trends, innovative practices, and legal developments. Analysis of emerging strategies for offender treatment, re-entry, and institutional and community safety.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56800 INTELLIGENCE AND NATIONAL SECURITY 3 Credit Hours
(Slashed with CRIM 46800) Addresses topics related to global security, including economic and industrial espionage, trade secret thefts, law and technology and cyber-crimes. Implications of industrial espionage and intellectual property theft for the global economy, national and international security, and the control and regulation of white collar crime. Foundational exploration of Intelligence and Counterintelligence (IC) as concepts, processes and careers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56801 HOMELAND SECURITY 3 Credit Hours
(Slashed with CRIM 46801) Explores the nexus between terrorism and homeland security as it relates to homeland security strategy, assessment, evaluation, preparation, responses, and recovery actions and mechanisms relating to terrorism and homeland security. There is a focus on the importance of coordination of various assessments, plans, strategies and implementation of plans of action involving local, county, state, federal and international responses pertaining to terrorism and homeland security.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56802 TERRORISM AND COUNTERTERRORISM 3 Credit Hours
(Slashed with CRIM 46802) Examines the origins and evolution of modern terrorism, challenges posed by terrorist groups to states and to the international system, and strategies employed to confront and combat terrorism. Assesses a wide variety of terrorist organizations, and explores the psychological, socioeconomic, political, and religious causes of terrorist violence past and present. Also analyzes the strengths and weaknesses of various counterterrorism efforts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56803 INFORMATION AND CYBER SECURITY 3 Credit Hours
(Slashed with CRIM 46803) Vulnerabilities of computer networks and techniques for protecting networks and data are discussed. Basic elements of symmetric and asymmetric cryptography, secure e-commerce, involving secure transmission, authentication, digital signatures, digital certificates and Public Key Infrastructure (PKI) are presented. Provides students with an introduction to the field of information security risk assessment. Incorporates cases in risk analysis derived from actual state and law enforcement agencies or private firms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56904 ISSUES IN POLICE WORK 3 Credit Hours
(Slashed with CRIM 46904) Analysis of police practices and functions at the municipal, state and federal level. Examination of emerging trends and issues in policing. Review of changes in police department policies and research on problem-solving in policing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 57002 HUMAN SERVICE AGENCIES AND THE LAW 3 Credit Hours
(Slashed with CRIM 47002) An overview of the law as it pertains to human service agencies, as well as on the relationships between such agencies and the criminal and juvenile justice systems. Focused attention is given to agencies that closely connect with vulnerable populations (such as children and the poor) and those that work closely with policing and corrections (such as mental health agencies and halfway houses).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 57003 RESTORATIVE JUSTICE AND VICTIM ASSISTANCE 3 Credit Hours
(Slashed with CRIM 47003) An inquiry into the theories and research in restorative justice, as well as an assessment of victim assistance protocols and programs. Examines restorative justice and victim assistance initiatives that provide an alternative framework for dealing with crime that places victim needs in a primary position, while addressing legal concerns and interagency differences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 57004 LEGAL PERSPECTIVES AND RIGHTS IN VICTIMIZATION 3 Credit Hours
(Slashed with CRIM 47004) An analysis of the legal rights of victims of crime at state and federal levels as well as a review of how these laws relate to the treatment of victims within the criminal and juvenile justice systems, with particular focus on the courts and correctional institutions. Relevant legislative and Constitutional changes and challenges are also addressed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 57095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours
(Repeatable for credit) Intensive analysis of issues significant and current in the field which are not covered in regular courses.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CRIM 66199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CRIM 66299 THESIS II 2 Credit Hours
Thesis students must continue to register for each semester until all degree requirements are met.
Prerequisite: CRIM 66199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CRIM 66761 LAW, JUSTICE AND SOCIETY 3 Credit Hours
Review of the origins, structure and functioning of law in relation to social context and process. Critical assessment of the use of law and legal institutions to address societal problems. Examination of the role that social inequality plays in crime and justice, nationally and internationally.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66763 THEORIES OF CRIME AND DELINQUENCY 3 Credit Hours
Study of the nature and causes of criminal and delinquent behavior, with an emphasis on major contemporary criminological theories. Includes critical analysis of relevant research and policy implications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66766 INSTITUTIONAL CORRECTIONS 3 Credit Hours
Explores the historical development and theoretical foundations of the correctional institution, including jails and prisons, the structure of institutions and operational challenges. Incorporates overview of contemporary issues and the correctional institution as a social system.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66767 JUSTICE ADMINISTRATION 3 Credit Hours
Introduces students to theories of organization and administration and their application to the administration of justice institutions. The course is divided into two sections: (1) theories of administration and organization and (2) application of theories to management of police functions. Includes use of theories to diagnose and reform justice institutions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66768 RESEARCH METHODS IN CRIMINOLOGY AND CRIMINAL JUSTICE 3 Credit Hours
Examines the methodology of research designs and techniques used in criminology and criminal justice. Provides students with an overview of the logic of research in order to critically evaluate research in the field. Focuses on the specific skills needed to conduct basic and evaluation research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66770 JUSTICE INSTITUTIONS 3 Credit Hours
Introduces students to the analysis of U.S. criminal justice institutions. Examines methods of institutional analysis, theories of administration, and the application of these theories to the understanding of police, courts and corrections.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66772 VICTIMOLOGY 3 Credit Hours
Exploration of victimology, the scientific study of the physical, emotional, and financial harm people suffer because of criminal activities. Examination of the impact of crime on victims, measuring crime through victimization, patterns of victim-offender relationships, and the role of the victim within the criminal and juvenile justice systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66773 CONTEMPORARY POLICING 3 Credit Hours
The fundamental question of this course is how to create the most effective police organization. This course examines the various theories and research on police service. Examines the nature of coercion in human interaction and the legitimate use of force by police. Study of the various philosophies and research on the Standard Model of policing, Community-Oriented Policing, and Problem-Oriented Policing. Reviews theories of police administration and the research corroborating or refuting the validity of those theories.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66795 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Offered irregularly, this course provides opportunity to study special issues developments and programs in justice studies. Topics vary.
Prerequisite: Graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CRIM 66796 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Intensive study of a subject which the student cannot normally pursue in a regularly scheduled course. Individual investigation topic must be approved by instructor and graduate coordinator.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

CRIM 66899 PROSEMINAR CAPSTONE: ISSUES IN CONTEMPORARY JUSTICE 3 Credit Hours
Capstone experience. Students synthesize program knowledge about current issues and challenges faced by the U.S. justice system through the completion of an approved, written project that is analytical and research based.
Prerequisite: CRIM 66763 and CRIM 66768; and 15 additional credit hours of Criminology and Justice Studies (CRIM) graduate courses; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

Cultural Foundations (CULT)

CULT 10001 EXPLORING THE VALUE OF DIVERSITY: FINDING YOURSELF AND APPRECIATING DIFFERENCE IN OTHERS 1 Credit Hour
This course will focus on introducing lower-division students to the concept of self-identity development and how place-, cultural- and self-identity influences one's perceptions and assumptions of others who may not share similar experiences. Students will explore and reflect on their personal identity and how their race/ethnicity, beliefs, personality, expressions and cultural practices influence their perceptions of diverse populations; they will also explore the complexity of diversity in the United States and actively consider their place and role in our diverse society, as adults.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CULT 20091 PREPROFESSIONAL SEMINAR IN EDUCATIONAL STUDIES 2-4 Credit Hours
(Repeatable for credit) Introduction to the nature and scope of educational service delivery across settings, and to the social and cultural foundations of educational policies and programs. Open to any university student and to those considering alternative careers in education.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 2-4 other
Grade Mode: Standard Letter

CULT 26001 INTRODUCTION TO DISABILITY STUDIES 3 Credit Hours
Interdisciplinary exploration of conceptual theoretical, philosophical and legal aspects related to inclusion of individuals with disabilities in community life.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY 3 Credit Hours
This introductory course explores the purposes, organizations and outcomes of schooling from the perspectives of the field of social foundations of education. Candidates undertake critical inquiry into teaching as a profession. Licensure requirements, teachers' legal responsibilities and the accountability of public schools are also explored.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Education, TAG Education

CULT 39595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 2-4 Credit Hours
(Repeatable for credit) Directed reading and/or research of special interest or need to small groups of students in cultural foundations. Planned with and directed by a faculty member.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter-IP

CULT 39596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student program. Planned with and directed by a faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 40093 VARIABLE TITLE WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours
(Repeatable for credit) (Slashed with CULT 50093 and CULT 70093) Variable topics; designed to respond to specialized needs of various groups within the context of trends issues and problems in the educational foundations disciplines.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

CULT 46001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION 3 Credit Hours
(Slashed with CULT 56001 and CULT 76001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal considerations to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life.
Prerequisite: CULT 26001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 49570 SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION 3 Credit Hours
Explores the history, social context, and issues in multicultural education (formal PK-12) in the U.S. Students gain an appreciation of the challenges of equalizing opportunity of educational achievement, an understanding that is essential for 21st century educational leadership.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 50093 VARIABLE TITLE WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours
(Repeatable for credit) (Slashed with CULT 40093 and CULT 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

CULT 56001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION 3 Credit Hours
(Slashed with CULT 46001 and CULT 76001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal consideration to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 59570 SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION 3 Credit Hours
Explores the history, social context, and issues in multicultural education (formal PK-12) in the U.S. Students gain an appreciation of the challenges of equalizing opportunity of educational achievement, an understanding that is essential for 21st century educational leadership.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60011 SEMINAR IN EDUCATIONAL FOUNDATIONS: PRINCIPLES AND PRACTICES 3 Credit Hours
Through this course, students will learn about the field of social foundations of education and about the program. Students will be introduced to university and college resources that will help them find success in the program. They will also begin using perspectives from the field of social foundations of education to identify and explore problems of practice in their communities and their educational and cultural organizations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60030 SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY 3 Credit Hours
(Slashed with CULT 80030) The course will explore contemporary social contexts of education through the lenses of major sociological perspectives, including seminal theoretical works and emerging contemporary scholarship. Students will become familiar with the uses of classic and current sociological theories in order to understand contemporary educational issues.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60040 APPROACHES TO COMMUNITY ENGAGED INQUIRY 3 Credit Hours
(Slashed with CULT 80040) This course will focus on methods, tools and practices to engage in collaborative research/inquiry with communities, including non-profits, schools, families and/or practice settings (i.e., research with communities rather than about communities). Discussions and assignments will prompt students to identify research questions and appropriate methods to answer the questions. Students will also address issues of ethics, relationship-building and trust.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60050 HUMANITIES-ORIENTED RESEARCH IN EDUCATION 3 Credit Hours
(Slashed with CULT 80050) Course is designed to give students an understanding of humanities-oriented approaches to research in education. This includes disciplinary approaches to the study of education (philosophy, history, literary theory) as well as humanities oriented theoretical work in the social sciences. Students will develop facility with key concepts as well as approaches to method and research design within these approaches.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60199 THESIS I 2-6 Credit Hours
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met. Graduate standing.
Prerequisite: CULT 60199.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 65530 FOUNDATIONS OF EDUCATION AND HUMAN SERVICES 3 Credit Hours
Inquiry into the assumptions and implications of educational policies and practices in education and human service settings through the application of historical, philosophical and sociological perspectives.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 67015 DISABILITY, SOCIETY AND CULTURE 3 Credit Hours
(Slashed with CULT 77015) Provides students with the learning outcomes related to the cultural, political and social perspectives of disability. It will prepare students to have an in-depth global understanding of the nature, meaning and consequences of disability as it relates to social and environmental justice and barriers they experience. Perspectives will be examined through several theoretical lenses for greater understanding of the breadth of marginalization experienced by persons with disabilities. The course will culminate in identifying steps to address barriers in multiple contexts, decrease stigmas and promote greater societal inclusion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69510 CLASSICS IN PHILOSOPHY OF EDUCATION 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with CULT 79510) Philosophical exploration of the relationship between education and society and the dynamics of education through close reading and discussion of a selection of influential philosophical texts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69521 MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY 3 Credit Hours
Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69522 ETHICS IN PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with CULT 89522) An examination of ethics in schooling and other educational settings through foundational study and issue analysis; strong case study and professional application emphasis.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69530 MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION 3 Credit Hours
(Slashed with CULT 79530) An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69560 CONTEMPORARY PHILOSOPHY OF EDUCATION 3 Credit Hours
(Repeatable for credit) (Slashed with CULT 79560) Explores a range of contemporary philosophical perspectives on the moral and political dimensions of education. Students will be introduced to the philosophical frameworks through which these questions are discussed within the field of philosophy of education and they will have opportunity to engage these debates in the course of carefully structured writing assignments.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69564 HISTORY OF AMERICAN EDUCATION 3 Credit Hours
(Cross-listed with CULT 79564) European origins and American innovations in colonial education, rise of common school, completion of education ladder. Emphasis is on present status and recent developments.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69567 HISTORY OF HIGHER EDUCATION 3 Credit Hours
(Slashed with CULT 79567) (Cross-listed with HIED 66600 and HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American Higher Education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69569 INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES 3 Credit Hours
(Slashed with CULT 79569) An introductory seminar to explore current foundational issues and challenges in education worldwide (nonformal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69570 MULTICULTURAL EDUCATION: THEORY AND POLICY 3 Credit Hours
(Slashed with CULT 79570) Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69571 GLOBALIZATION AND EDUCATION 3 Credit Hours
(Slashed with CULT 79571) A multi-disciplinary exploration of the impact of globalization/localization on the delivery and uses of education and the dynamics of power and resistance in globalized education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69575 ANTHROPOLOGY AND EDUCATION 3 Credit Hours
(Slashed with CULT 79575) Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographies, students explore the myriad ways in which "culture" has been theoretically conceptualized as well as the implications of those conceptualizations for educational inquiry and practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69582 SOCIAL THEORIES IN EDUCATION 3 Credit Hours
(Slashed with CULT 89582) This course examines both classic and contemporary social theories in education. Students will become familiar with different social theories, specifically focusing on strengths and limitations of various theoretical approaches. Students will also analyze the role social theories have had upon educational research, and examine different conceptual issues within various social theoretical traditions.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69591 SEMINAR IN CULTURAL FOUNDATIONS 1-5 Credit Hours
(Repeatable for credit) (Slashed with CULT 89591) Variable topic seminar for advanced study of specialized topics and areas; in cultural foundations; emphasis on theory and research findings as related to educational practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

CULT 69592 ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS 2-6 Credit Hours
(Repeatable for credit) (Slashed with CULT 89592) Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 69595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 1-3 Credit Hours
(Repeatable for credit) (Slashed with CULT 89595) Specific topic course offering in response to emerging student or program needs in cultural foundations of education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CULT 69596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours
(Repeatable for credit) (Slashed with CULT 89596) Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 69598 RESEARCH IN CULTURAL FOUNDATIONS 1-6 Credit Hours
(Repeatable for credit) (Slashed with CULT 89598) Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 69691 VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION 3 Credit Hours
(Repeatable for credit) (Slashed with CULT 89691) This course explores a great idea in education from multiple disciplinary perspectives (philosophical, sociological, historical) and looks at the ways in which the idea in question has shaped or could transform educational practice at multiple levels.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69999 CAPSTONE 3 Credit Hours
In this course, students complete a culminating project for their M.Ed. degree. Each student's project will address a problem of practice within a cultural or educational organization that they have investigated in partnership with stakeholders.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

CULT 70093 VARIABLE TOPIC WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours
(Repeatable for credit) (Slashed with CULT 40093 and CULT 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. May be repeated once for total maximum credit of six hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

CULT 76001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION 3 Credit Hours
(Slashed with CULT 46001 and CULT 56001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal consideration to making adaptations and accommodations. Students complete a service-learning component that focuses on inclusion of people with disabilities in community life.
Prerequisite: CULT 77015; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 77015 DISABILITY, SOCIETY AND CULTURE 3 Credit Hours
(Slashed with CULT 67015)To provide students with the learning outcomes related to the cultural, political, and social perspectives of disability. It will prepare students to have an in-depth global understanding of the nature, meaning and consequences of disability as it relates to social and environmental justice and barriers they experience. Perspectives will be examined through several theoretical lenses for greater understanding of the breadth of marginalization experienced by persons with disabilities. The course will culminate in identifying steps to address barriers in multiple contexts, decrease stigmas and promote greater societal inclusion.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79510 CLASSICS IN PHILOSOPHY OF EDUCATION 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with CULT 69510) Philosophical exploration of the relationship between education and society and the dynamics of education through close reading and discussion of a selection of influential philosophical texts.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79530 MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION 3 Credit Hours
(Slashed with CULT 69530) An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79560 CONTEMPORARY PHILOSOPHY OF EDUCATION 3 Credit Hours
(Repeatable for credit) (Slashed with CULT 69560) Explores a range of contemporary philosophical perspectives on the moral and political dimensions of education. Students will be introduced to the philosophical frameworks through which these questions are discussed within the field of philosophy of education and they will have opportunity to engage these debates in the course of carefully structured writing assignments.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79564 HISTORY OF AMERICAN EDUCATION 3 Credit Hours
(Slashed with CULT 69564) European origins and American innovations in colonial education, rise of common school, completion of education ladder. Emphasis is on present status and recent developments.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79567 HISTORY OF HIGHER EDUCATION 3 Credit Hours
(Slashed with CULT 69567) (Cross-listed with HIED 66600 and HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American Higher Education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79569 INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES 3 Credit Hours
(Slashed with CULT 69569) An introductory seminar to explore current foundational issues and challenges in education worldwide (nonformal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability. Gaining a broad understanding of the place of education in a rapidly changing world is essential for 21st century educational leadership and the formation of constructive policies for the future of both developed and developing countries.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79570 MULTICULTURAL EDUCATION: THEORY AND POLICY 3 Credit Hours
(Slashed with CULT 69570) Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79571 GLOBALIZATION AND EDUCATION 3 Credit Hours
(Slashed with CULT 69571) A multi-disciplinary exploration of the impact of globalization/localization on the delivery and uses of education and the dynamics of power and resistance in globalized education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79575 ANTHROPOLOGY AND EDUCATION 3 Credit Hours
(Slashed with CULT 69575) Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographies, students explore the myriad ways in which "culture" had been theoretically conceptualized, as well as the implications of those conceptualizations for educational inquiry and practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 80030 SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY 3 Credit Hours
(Slashed with CULT 80030) The course will explore contemporary social contexts of education through the lenses of major sociological perspectives, including seminal theoretical works and emerging contemporary scholarship. Students will become familiar with the uses of classic and current sociological theories in order to understand contemporary educational issues.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 80040 APPROACHES TO COMMUNITY ENGAGED INQUIRY 3 Credit Hours
(Slashed with CULT 60040) This course will focus on methods, tools and practices to engage in collaborative research/inquiry with communities, including non-profits, schools, families and/or practice settings (i.e., research with communities rather than about communities). Discussions and assignments will prompt students to identify research questions and appropriate methods to answer the questions. Students will also address issues of ethics, relationship-building and trust.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 80050 HUMANITIES-ORIENTED RESEARCH IN EDUCATION 3 Credit Hours
(Slashed with CULT 60050) Course is designed to give students an understanding of humanities-oriented approaches to research in education. This includes disciplinary approaches to the study of education (philosophy, history, literary theory) as well as humanities oriented theoretical work in the social sciences. Students will develop facility with key concepts as well as approaches to method and research design within these approaches.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CULT 80091 SEMINAR: GREAT ISSUES IN EDUCATION 1-3 Credit Hours
(Repeatable for credit) Interdisciplinary review of current great issues in education that are catalogs for presentation after discussion with membership of the course.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

CULT 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: CULT 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 85535 INTERPROFESSIONAL STUDIES 3 Credit Hours
Comprehensive analysis of issues affecting professional practice in education and human service resource settings. Examination of questions related to interprofessional collaboration on policy, research and practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89521 MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY 3 Credit Hours
Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89522 ETHICS IN PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with CULT 69522) An examination of ethics in schooling and other educational settings through foundational study and issue analysis; strong case study and professional application emphasis.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89571 COMPARATIVE AND INTERNATIONAL EDUCATION 3 Credit Hours
Comparative analysis of contemporary educational policies and structures in large-and small scale societies throughout the world.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89581 PROSEMINAR IN CULTURAL FOUNDATIONS 3 Credit Hours
Doctoral seminar to familiarize Ph.D. students with cultural and social foundations of education as a field of study so that they may locate their inquiry within the relevant knowledge base and academic disciplines that comprise the cultural foundations of education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89582 SOCIAL THEORIES IN EDUCATION 3 Credit Hours
(Slashed with CULT 69582) This course examines both classic and contemporary social theories in education. Students will become familiar with different social theories, specifically focusing on strengths and limitations of various theoretical approaches. Students will also analyze the role social theories have had upon educational research, and examine different conceptual issues within various social theoretical traditions.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89591 SEMINAR IN CULTURAL FOUNDATIONS 1-5 Credit Hours
(Repeatable for credit) (Slashed with CULT 69591) Variable topic seminar for advanced study of specialized topics and areas in cultural foundations; emphasis on theory and research findings as related to educational practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

CULT 89592 ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS 2-6 Credit Hours
(Repeatable for credit) (Slashed with CULT 69592) Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 89595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 1-3 Credit Hours
(Repeatable for credit) (Slashed with CULT 69595) Specific topic course offering in response to emerging student or program needs in cultural foundations of education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CULT 89596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours
(Repeatable for credit) (Slashed with CULT 69596) Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 89598 RESEARCH IN CULTURAL FOUNDATIONS 1-6 Credit Hours
(Repeatable for credit) (Slashed with CULT 69598) Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 89691 VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION 3 Credit Hours
(Repeatable for credit) (Slashed with CULT 69691) This course explores a great idea in education from multiple disciplinary perspectives (philosophical, sociological, historical) and looks at the ways in which the idea in question has shaped or could transform educational practice at multiple levels.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Curriculum and Instruction (CI)

CI 40093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 50093 and CI 70093)(Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 47095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Repeatable for credit) Topic varies for each offering.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-IP

CI 47096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Repeatable for credit) Student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Kent State faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 47192 STUDENT TEACHING IN CURRICULUM AND INSTRUCTION (ELR) 1-5 Credit Hours
(Repeatable for credit) Student teaching topics vary for each offering.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD 3 Credit Hours
(Slashed with CI 57330) Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments and teaching students who struggle as readers and writers.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 57501) Addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards.
Prerequisite: MATH 14001 or MATH 14002 with a minimum C grade; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47502 SCIENCE TEACHING IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 57502) Addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. Students examine how to best align science practice to state and national standards.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47503 TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 57503) Addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47504 TEACHING READING AND WRITING IN MIDDLE GRADES 3 Credit Hours
(Slashed with CI 57504) Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades 4-9, based on the national content and process standards.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47505 INTEGRATED SOCIAL STUDIES AND SCIENCE 3 Credit Hours
(Slashed with CI 57505) Addresses principles of teaching and learning as applied to teaching social studies and science in elementary and middle grades. Students examine how to best align social studies and science practice with state and national standards.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 50093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 40093 and CI 70093)(Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

CI 50095 SPECIAL TOPICS: SEMINAR/WORKSHOP IN CURRICULUM AND INSTRUCTION 1 Credit Hour
(Repeatable for credit) Topics varies for each offering. Seminar workshop for International Baccalaureate program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 55015 PSYCHOLOGY OF COACHING 3 Credit Hours
(Slashed with PESP 45015) Factors affecting athletic performance emphasizing skill, motivation, personality and practice conditions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 55020 CONTEMPORARY ATHLETIC COACHING 3 Credit Hours
(Slashed with PESP 45020) A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD 3 Credit Hours
(Slashed with CI 47330) Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments, and teaching students who struggle as readers and writers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 47501) Addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57502 SCIENCE TEACHING IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 47502) Addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. Students examine how to best align science practice to state and national standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57503 TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 47503) Addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57504 TEACHING READING AND WRITING IN MIDDLE GRADES 3 Credit Hours
(Slashed with CI 47504) Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades 4-9, based on the national content and process standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57505 INTEGRATED SOCIAL STUDIES AND SCIENCE 3 Credit Hours
(Slashed with CI 47505) Addresses principles of teaching and learning as applied to teaching social studies and science in elementary and middle grades. Students examine how to best align social studies and science practice with state and national standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 60169 UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES 3 Credit Hours
(Slashed with CI 80169) This course is designed to help the general practitioner understand and know foundational concepts about multi-lingual students, immigrants, English Language Learners and their families.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 60171 TEACHING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS 3 Credit Hours
(Slashed with CI 80171) General educators will explore the application of teaching methods and a variety of curriculum approaches for immigrant and bi-literate children, and apply more fully their work with families and communities.
Prerequisite: CI 60169; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CI 60199; and Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 61124 EDUCATING THE GOOD CITIZEN 3 Credit Hours
(Slashed with CI 71124) Course explores the competing conceptions of citizenship education through an examination and critique of the diverse perspectives on the purposes and possibilities of citizenship education—including the contributions and influence of multicultural, international and theoretical perspectives on the meaning of educating citizens in a democracy—situating work, thinking and practice in the literature. As part of the process of reading, discussing and deliberating together, students articulate a rationale for citizenship education and develop ways to incorporate their vision for citizenship education into their work as teacher educators, practicing social studies teachers and/or community members.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 61125 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours
(Slashed with CI 71125) Provides an overview of historical trends and contemporary issues in social studies education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61126 RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING 3 Credit Hours
(Slashed with CI 71126) Students examine, discuss and study research in the teaching and learning of social studies, as well as develop their own study of social studies teaching and learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61127 TECHNOLOGY AND SOCIAL STUDIES 3 Credit Hours
(Slashed with CI 71127) Course provides experiences with and study of various uses of technology in social studies teaching and learning. Students examine implications and effects of technology on student learning, teaching and society as a whole.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61130 MULTICULTURAL EDUCATION: STRATEGIES 3 Credit Hours
(Slashed with CI 71130) Course provides the strategies for teaching children to function effectively in a pluralistic society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61133 ISSUES AND TRENDS IN ELEMENTARY SCIENCE 3 Credit Hours
(Slashed with CI 71133) New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61134 RESEARCH TRENDS IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 71134) Course in issues relating to research methods pertinent to science education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61140 CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 71140) Provides a general introduction to the impacts of multiculturalism and the social studies of science on science education. Implications for science educational curriculum theory, classroom practice and research are explored. Teaching topics examined include race and gender in science education, culture of science and science in a global context.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61141 NATURE OF SCIENCE IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 71141) Course in issues relating to the nature of science as it impacts science education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 62000 PRINCIPLES OF TEACHING WITH DIFFERENTIATION 3 Credit Hours
Principles of teaching adolescents, including designing curriculum, planning instruction, differentiation, assessment, fundamentals of evaluation and reflective practice. Learning experiences focus on preparing teachers for secondary school teaching in diverse settings. Teaching as a profession is explored, including examination of the Ohio licensure code of professional conduct and the Ohio Standards for the Teaching profession. Additionally, the course emphasizes culturally relevant, responsive and sustaining pedagogies. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62001 ASSESSMENT PROCEDURES AND PRAXIS 3 Credit Hours
Students gain an understanding of the complexities of designing, collecting, analyzing and evaluating student performance data. Both formative and summative assessment practices are examined. Additionally, students determine best practices in inference-making based on data and consider pedagogical and evaluative choices that rely on the quality of data that they collect, both from their own design and assessment data from vendors. Students consider how qualitative data about individual learners can be collected and analyzed to strengthen the validity and reliability of the decisions made about learning outcomes. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: CI 62000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62002 CULTURALLY RESPONSIVE CLASSROOM MANAGEMENT PRACTICES 3 Credit Hours
Course explores principles of positive behavior supports and interventions; procedures to promote and practice positive learning interactions; and development of routines that practice social-emotional skill development, including resolution of conflict using restorative practice methods. Additionally, students examine the physical- and psychological-learning environment as a factor in culturally responsive teaching. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62003 LITERACIES IN THE CONTENT AREAS 3 Credit Hours
Student acquire professional knowledge of the nature of literacy as it relates to specific content areas. Students understand the critical role that "literacy - including the interpretation and production of texts and representations - plays as vital to participation and learning in different academic disciplines" (International Literacy Association, 2017). Students develop, implement and reflect on a variety of curricular engagements, instructional strategies and assessment procedures for meeting the literacy needs of diverse students. Additionally, students learn how to plan inquiry-based teaching and learning that employs and extends students' literacy development. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62101 CURRICULUM STUDIES OF SECONDARY ENGLISH LANGUAGE ARTS 3 Credit Hours
Course explores pedagogies of reading and composing with a variety of print and non-print texts. Considers the impact of media upon adolescent culture. Also explores teaching canonical literature and literary theories. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62102 CURRICULUM STUDIES OF SECONDARY MATHEMATICS 3 Credit Hours
Course examines the secondary school mathematics curriculum, textbooks and national standards. Analyzes, implements and evaluates methodology and materials of effective teaching of secondary mathematics. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62103 CURRICULUM STUDIES OF SECONDARY SCIENCE 3 Credit Hours
This course is designed to deepen secondary science teaching through the development of content knowledge, pedagogical knowledge and methodologies appropriate for science learning in secondary school. Students engage in pedagogical analyses and curriculum development related to nature of science; science literacy; conceptual change and student misconceptions; issues-based instruction; problem-based learning; and teaching diverse-learners science concepts. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62104 CURRICULUM STUDIES OF SECONDARY SOCIAL STUDIES 3 Credit Hours
This course is designed to prepare prospective teachers to be purposeful, deliberative decision-makers and reflective practitioners who prepare citizens who contribute to the deepening of democracy and promote the common good. Areas of planning, curriculum, instruction and assessment are examined from a social studies perspective. The goal is to support purposeful social studies teaching and learning that engages students in the learning experiences designed to honor their real-world experiences and prepare them to be agents of change in their school and community. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62121 FOUNDATIONS OF LITERACY AND PHONICS FOR SECONDARY TEACHERS 3 Credit Hours
Course provides professional training in the teaching of the foundations of literacy: word/recognition/decoding, vocabulary, reading fluency and comprehension. Consideration of how struggling adolescent readers development may be assessed followed by how to provide interventions to strengthen literacy skills and strategies. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 63193 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT 1-3 Credit Hours
(Repeatable for credit) Workshop in exercise, leisure and sport. Topics vary. Maximum 4 credit hours applied to the degree.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CI 65025 CONTEMPORARY ISSUES IN SPORT PEDAGOGY - AN INTERNATIONAL PERSPECTIVE 3 Credit Hours
(Slashed with CI 85025) An international perspective on the investigation and study of current problems, issues and trends in sport pedagogy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 65037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours
(Slashed with CI 85037) Course prepares physical education teachers to provide safe, appropriate and individualized accommodations to students with disabilities. All information presented is structured around research-based and cross-culturally appropriate practices in adapted physical education that have been implemented in physical education programs globally.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 65044 PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT 3 Credit Hours
(Slashed with CI 85044) An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 65055 CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY 3 Credit Hours
(Slashed with CI 85055) The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 65592 PRACTICUM IN ADAPTED PHYSICAL EDUCATION 3 Credit Hours
(Repeatable for credit) Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment and individualized task analysis.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

CI 65692 INTERNSHIP IN ATHLETIC COACHING 2-4 Credit Hours
(Repeatable for a maximum of 4 credits) Supervised experience in organized sport focused upon the duties of a coach; can involve one or more level (youth, school, college, professional) and sport. A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society. 45 contact hours per credit. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching-internship will take place.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 67001 FUNDAMENTALS OF CURRICULUM 3 Credit Hours
(Slashed with CI 77001) Orientation to the curriculum field. Theoretical examination of foundations, elements, design and development of school, college and non-school curricula.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67002 CURRICULUM LEADERSHIP 3 Credit Hours
(Slashed with CI 77002) Course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal.
Prerequisite: CI 67001; and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67003 TEACHER EDUCATION 3 Credit Hours
(Slashed with CI 77003) Course provides a broad overview of teacher education, including curriculum, organization, governance and policy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67004 PROFESSIONAL DEVELOPMENT IN TEACHING 3 Credit Hours
(Slashed with CI 77004) Course provides a broad overview and conceptual framework for professional development; its historical, cultural, psychological and social contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING 3 Credit Hours
(Slashed with CI 77005) Course addresses teaching and learning in the intercultural K-16 context. Increasing intercultural interaction in schools and communities across the nation and around the world are prompting educational changes in terms of what is being taught and how it is being taught. Educators at all levels are increasingly being called upon to enhance their own intercultural competence and to consider how best to translate this to students in their charge.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67007 CRITICAL REFLECTION IN CURRICULUM AND INSTRUCTION 2 Credit Hours
Capstone course for a master's degree in curriculum and instruction. Students critique their content area studies with reference to the standard of curriculum-based pedagogy. Three concepts inform this critique: continuing professional development, multicultural education, curriculum leadership for reform and renewal.
Prerequisite: CI 67001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CI 67010 CURRICULUM EVALUATION 3 Credit Hours
(Slashed with CI 77010) Students learn to plan for and use a variety of techniques to gather information in systematic ways, across different phases of curriculum planning, development, implementation and evaluation to enhance decision-making processes. Students develop evaluation questions around a curriculum or program of their choice and then design a detailed evaluation plan.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67091 SEMINAR IN CURRICULUM AND INSTRUCTION 1-4 Credit Hours
(Slashed with CI 87091)(Repeatable for credit) A wide range of topics for advanced graduate inquiry. Normally, course provides a balance of theoretical study and creative application.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

CI 67092 ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION 1-3 Credit Hours
(Repeatable for credit) Supervised practicum in curriculum design, development, implementation and-or leadership. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

CI 67095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 77095)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CI 67096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 67098 RESEARCH IN CURRICULUM AND INSTRUCTION 1-15 Credit Hours
(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 67105 IMPROVING CLASSROOM INSTRUCTION 3 Credit Hours
(Slashed with CI 77105) Emphasizes motivation, varied materials and methods, individual needs and sources of teacher help. Class members define goals and means.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67107 CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES 3 Credit Hours
(Slashed with CI 77107) Course enhances students' knowledge, skills and dispositions about curriculum history and organization of middle schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. In addition, students are able to extend their knowledge, skills, techniques and professional dispositions as related to middle school students' experiences, as well as to differentiate curriculum and assessment for diverse learners.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67108 TEACHING AND LEARNING IN THE MIDDLE GRADES 3 Credit Hours
(Slashed with CI 77108) Course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planning, teaching strategies, assessment, classroom management and effective classroom instructions. In a concurrent clinical field experience, teacher candidates apply teaching methods in intermediate-middle school classrooms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67224 TEACHING MATHEMATICS WITH TECHNOLOGY 3 Credit Hours
(Slashed with CI 77224) Students develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Students develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67225 RESEARCH IN MATHEMATICS EDUCATION 3 Credit Hours
(Slashed with CI 77225) Current research theory, methodology and results in mathematics education are investigated. Implications for instructional practice and curriculum design are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67226 IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD 3 Credit Hours
(Slashed with CI 77226) Instructional psychology and materials, including technology, for the effective teaching of mathematics in grades 3-8, with a theoretical emphasis on cognitive development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67240 INTRODUCTION TO ENVIRONMENTAL EDUCATION 3 Credit Hours
(Slashed with CI 77240) Survey course emphasizes current debates in environmental issues, exploring the interconnectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67292 PRACTICUM IN MATHEMATICAL ASSESSMENT 2 Credit Hours
(Repeatable for credit) Practicum experience in designing and administering both formal and informal assessments.
Prerequisite: Two courses from the following: ADED 52267, CI 67224, CI 67226 and/or ECED 50147; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Standard Letter

CI 67310 THEORY AND PRACTICE IN THE TEACHING OF READING 3 Credit Hours
(Slashed with CI 77310) Nature and development of reading, approaches to instruction, relation to learning and development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67312 TEACHING WRITING AS A PROCESS 3 Credit Hours
(Slashed with CI 77312) Course emphasizes a process approach to writing instruction in grades K-12. Examines the steps and studies of composing, evaluation and components of a school-wide program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67314 SURVEY OF YOUNG ADULT LITERATURE 3 Credit Hours
(Slashed with CI 77314) Presents a survey of selected types of literature appropriate for students in middle school, junior high and high school. Emphasis on evaluating, selecting and teaching.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67319 DIAGNOSIS AND REMEDIATION IN READING 3 Credit Hours
(Slashed with CI 77319) Theory and application of diagnostic principles and remedial reading approaches with school-age children. Cultural, linguistic, cognitive and effective factors in diagnosing and remediating reading problems.
Prerequisite: CI 67310; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67320 TEACHER AS LITERACY RESEARCHER 3 Credit Hours
Capstone experience in master's program in literacy in which students pursue an individualized literacy research program.
Prerequisite: CI 67351 or RMS 65510 or RMS 65511; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67330 READING IN CONTENT AREAS 3 Credit Hours
(Slashed with CI 77330) Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through post-secondary years.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67339 WRITING ASSESSMENT AND RESPONSE 3 Credit Hours
(Slashed with CI 77339) Exploration of issues in writing assessment, theoretical base for effective formative response to student writing and design, and implementation of writing assessment measures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67351 PERSPECTIVES ON LITERACY RESEARCH 3 Credit Hours
(Slashed with CI 77351) Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy.
Prerequisite: Reading Specialization major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67352 LITERACY COACHING 3 Credit Hours
(Slashed with CI 77352) Focus on principles and strategies related to literacy coaching, within classrooms, schools and districts.
Prerequisite: CI 67310 and CI 67319 and CI 67330 and CI 67692 and MCED 50005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67353 MULTICULTURAL VOICES IN TEACHING CHILDREN'S AND YOUNG ADULT LITERATURE 3 Credit Hours
(Slashed with CI 77353) Exploring diverse voices in children's and young adult literature in K-12 literacy classrooms to support culturally responsive teaching and learning and broaden student understandings of diversity.
Prerequisite: Reading Specialization major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67392 ADVANCED PRACTICUM AND INTERNSHIP IN READING 1-10 Credit Hours
(Repeatable for credit) Supervised practicum requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Standard Letter

CI 67395 SPECIAL TOPICS IN READING 1-5 Credit Hours
(Slashed with CI 77395)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in reading.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CI 67396 INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS 1-5 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 67517 NEW LITERACIES IN PRACTICE 3 Credit Hours
(Slashed with CI 87517) Developing technologies are changing the very definition of literacy. Designed to provide an overview of current (and past) theory and practices related to the growing line of inquiry known as new literacies. Participants of the class follow their own paths of inquiry related to the question: How is the definition of literacy changing? Participants engage in discussions of theoretical positions related to this question (from perspectives as new literacies, multi-literacies and arts-based knowing to name a few) as well as encounter the basics of creating a blog or wiki and editing video. Appropriate for any educator who is interested in examining how new literacies are transforming the classrooms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67592 PRACTICUM IN MATHEMATICS EDUCATION INTERVENTION 3 Credit Hours
(Repeatable for credit) Experience in providing leadership in designing intervention programs for schools, and designing curriculum and instruction for individual learners that experience difficulties in learning mathematics.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CI 67692 CLINICAL PRACTICUM IN CORRECTIVE READING 3 Credit Hours
Application of previous courses includes supervised diagnostic/ prescriptive reading work with school-age pupils and diagnostic/remedial reporting.
Prerequisite: CI 67319; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CI 67791 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 70093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 40093 and CI 50093) (Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

CI 71124 EDUCATING THE GOOD CITIZEN 3 Credit Hours
(Slashed with CI 61124) Course explores the competing conceptions of citizenship education through an examination and critique of the diverse perspectives on the purposes and possibilities of citizenship education–including the contributions and influence of multicultural, international and theoretical perspectives on the meaning of educating citizens in a democracy–situating work, thinking and practice in the literature. As part of the process of reading, discussing and deliberating together, students articulate a rationale for citizenship education and develop ways to incorporate their vision for citizenship education into their work as teacher educators, practicing social studies teachers and/or community members.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 71125 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours
(Slashed with CI 61125) Provides an overview of historical trends and contemporary issues in social studies education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71126 RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING 3 Credit Hours
(Slashed with CI 61126) Students examine, discuss and study research in the teaching and learning of social studies, as well as develop their own study of social studies teaching and learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71127 TECHNOLOGY AND SOCIAL STUDIES 3 Credit Hours
(Slashed with CI 61127) Course provides experiences with and study of various uses of technology in social studies teaching and learning. Students examine implications and effects of technology on student learning, teaching and society as a whole.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71130 MULTICULTURAL EDUCATION: STRATEGIES 3 Credit Hours
(Slashed with CI 61130) Course provides the strategies for teaching children to function effectively in a pluralistic society.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71133 ISSUES AND TRENDS IN ELEMENTARY SCIENCE 3 Credit Hours
(Slashed with CI 61133) New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71134 RESEARCH TRENDS IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 61134) Course in issues relating to research methods pertinent to science education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71140 CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 61140) Provides a general introduction to the impacts of multiculturalism and the social studies of science on science education. Implications for science educational curriculum theory, classroom practice and research are explored. Teaching topics examined include race and gender in science education, culture of science and science in a global context..
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71141 NATURE OF SCIENCE IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 61141) Course in issues relating to the nature of science as it impacts science education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 75592 PRACTICUM IN ADAPTED PHYSICAL EDUCATION 3 Credit Hours
(Repeatable for credit) Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment and individualized task analysis.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

CI 77001 FUNDAMENTALS OF CURRICULUM 3 Credit Hours
(Slashed with CI 67001) Orientation to the curriculum field. Theoretical examination of foundations, elements, design and development of school, college and non-school curricula.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77002 CURRICULUM LEADERSHIP 3 Credit Hours
Course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal. It is recommended that students complete CI 77001 or a compatible professional experience with fundamentals of curriculum work is before taking this course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77003 TEACHER EDUCATION 3 Credit Hours
(Slashed with CI 67003) Course provides a broad overview of teacher education, including curriculum, organization, governance and policy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77004 PROFESSIONAL DEVELOPMENT IN TEACHING 3 Credit Hours
(Slashed with CI 67004) Course provides a broad overview and conceptual framework for professional development; its historical, cultural, psychological and social contexts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING 3 Credit Hours
(Slashed with CI 67005) Course addresses teaching and learning in the intercultural K-16 context. Increasing intercultural interaction in schools and communities across the nation and around the world are prompting educational changes in terms of what is being taught and how it is being taught. Educators at all levels are increasingly being called upon to enhance their own intercultural competence and to consider how best to translate this to students in their charge.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77010 CURRICULUM EVALUATION 3 Credit Hours
(Slashed with CI 67010) Students learn to plan for and use a variety of techniques to gather information in systematic ways, across different phases of curriculum planning, development, implementation and evaluation to enhance decision-making processes. Students develop evaluation questions around a curriculum or program of their choice and then design a detailed evaluation plan.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77092 ADVANCED PRACTICUM IN CURRICULUM AND INSTRUCTION 1-3 Credit Hours
(Repeatable for credit) Supervised practicum in curriculum design, development, implementation and-or leadership. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

CI 77095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 67095)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CI 77096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 77105 IMPROVING CLASSROOM INSTRUCTION 3 Credit Hours
(Slashed with CI 67105) Emphasizes motivation, varied materials and methods individual needs and sources of teacher help. Class members define goals and means.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77107 CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES 3 Credit Hours
(Slashed with CI 67107) Course enhances students' knowledge, skills and dispositions about curriculum history and organization of middle schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. In addition, students are able to extend their knowledge, skills, techniques and professional dispositions as related to middle school students' experiences, as well as to differentiate curriculum and assessment for diverse learners.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77108 TEACHING AND LEARNING IN THE MIDDLE GRADES 3 Credit Hours
(Slashed with CI 67108) Course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planing, teaching strategies, assessment, classroom management and effective classroom instructions. In a concurrent clinical field experience, teacher candidates apply teaching methods in intermediate-middle school classrooms.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77224 TEACHING MATHEMATICS WITH TECHNOLOGY 3 Credit Hours
(Slashed with CI 67224) Students develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Students develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77225 RESEARCH IN MATHEMATICS EDUCATION 3 Credit Hours
(Slashed with CI 67225) Current research theory, methodology and results in mathematics education are investigated. Implications for instructional practice and curriculum design are examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77226 IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD 3 Credit Hours
(Slashed with CI 67226) Instructional psychology and materials, including technology, for the effective teaching of mathematics in grades 3-8, with a theoretical emphasis on cognitive development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77240 INTRODUCTION TO ENVIRONMENTAL EDUCATION 3 Credit Hours
(Slashed with CI 67240) Survey course emphasizing current debates in environmental issues, exploring the interconnectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77292 PRACTICUM IN MATHEMATICAL ASSESSMENT 2 Credit Hours
(Repeatable for credit) Practicum experience in designing and administering both formal and informal assessments.
Prerequisite: Two courses from the following: ADED 52267, CI 77224, CI 77226 and/or ECED 50147; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Standard Letter

CI 77310 THEORY AND PRACTICE IN THE TEACHING OF READING 3 Credit Hours
(Slashed with CI 67310) Nature and development of reading, approaches to instruction, relation to learning and development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77312 TEACHING WRITING AS A PROCESS 3 Credit Hours
(Slashed with CI 67312) Course emphasizes a process approach to writing instruction in grades K-12. Examines the steps and studies of composing, evaluation and components of a school-wide program.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77314 SURVEY OF YOUNG ADULT LITERATURE 3 Credit Hours
(Slashed with CI 67314) Presents a survey of selected types of literature appropriate for students in middle school, junior high and high school. Emphasis on evaluating, selecting and teaching.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77319 DIAGNOSIS AND REMEDIATION IN READING 3 Credit Hours
(Slashed with CI 67319) Theory and application of diagnostic principles and remedial reading approaches with school-age children. Cultural linguistic cognitive and affective factors in diagnosing and remediating reading problems.
Prerequisite: CI 77310; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77330 READING IN CONTENT AREAS 3 Credit Hours
(Slashed with CI 67330) Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through post-secondary years.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77339 WRITING ASSESSMENT AND RESPONSE 3 Credit Hours
(Slashed with CI 67339) Exploration of issues in writing assessment, theoretical base for effective formative response to student writing, and design and implementation of writing assessment measures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77351 PERSPECTIVES ON LITERACY RESEARCH 3 Credit Hours
(Slashed with CI 67351) Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy.
Prerequisite: Curriculum and Instruction major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77352 LITERACY COACHING 3 Credit Hours
(Slashed with CI 67352) Focus on principles and strategies related to literacy coaching, within classrooms, schools and districts.
Prerequisite: CI 77310 and CI 77319 and CI 77330 and CI 77692 and MCED 50005; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77353 MULTICULTURAL VOICES IN TEACHING CHILDREN'S AND YOUNG ADULT LITERATURE 3 Credit Hours
(Slashed with CI 67353) Exploring diverse voices in children's and young adult literature in K-12 literacy classrooms to support culturally responsive teaching and learning and broaden student understandings of diversity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77392 ADVANCED PRACTICUM AND INTERNSHIP IN READING 1-10 Credit Hours
(Repeatable for credit) Supervised program requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Standard Letter

CI 77395 SPECIAL TOPICS IN READING 1-5 Credit Hours
(Slashed with CI 67395)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in reading.
Prerequisite: Doctoral standing and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CI 77396 INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS 1-5 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 77592 PRACTICUM IN MATHEMATICS EDUCATION INTERVENTION 3 Credit Hours
(Repeatable for credit) Experience in providing leadership in designing intervention programs for schools, and designing curriculum and instruction for individual learners that experience difficulties in learning mathematics.
Prerequisite: ADED 52267 and CI 77224 and CI 77226 and ECED 50147; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CI 77692 CLINICAL PRACTICUM IN CORRECTIVE READING 3 Credit Hours
Application of previous courses includes supervised diagnostic/prescriptive reading work with school-age pupils and diagnostic/remedial reporting.
Prerequisite: CI 77319; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CI 77791 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 80001 PROSEMINAR IN CURRICULUM AND INSTRUCTION I 3 Credit Hours
The first course in this seminar sequence provides an essential foundation for first-year PhD students, guiding them through the structure, expectations, and resources of the doctoral program. Students will engage with faculty members, gain insights into diverse research areas, and explore opportunities for collaboration within and beyond the program. Through these interactions, students will develop a clearer understanding of their research pathways and the community they are joining. In the second half of the semester, the course shifts focus to introduce foundational scholarly reading and writing skills, equipping students with strategies for analyzing academic texts and managing research literature.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 80090 RESIDENCY II 3 Credit Hours
Advanced doctoral seminar. Structured opportunity for students to synthesize research from the field, explore research options for their dissertation study, review literature for their research studies and discuss the development of their research.
Prerequisite: CI 80089; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

CI 80169 UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES 3 Credit Hours
(Slashed with CI 60169) This course is designed to help the general practitioner understand and know foundational concepts about multi-lingual students, immigrants, English Language Learners and their families.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 80171 TEACHING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS 3 Credit Hours
(Slashed with CI 60171) General educators will explore the application of teaching methods and a variety of curriculum approaches for immigrant and bi-literate children, and apply more fully their work with families and communities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: CI 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 85025 CONTEMPORARY ISSUES IN SPORT PEDAGOGY - AN INTERNATIONAL PERSPECTIVE 3 Credit Hours
(Slashed with CI 65025) An international perspective on the investigation and study of current problems, issues and trends in sport pedagogy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 85037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours
(Slashed with CI 65037) Course prepares physical education teachers to provide safe, appropriate and individualized accommodations to students with disabilities. All information presented is structured around research-based and cross-culturally appropriate practices in adapted physical education that have been implemented in physical education programs globally.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 85044 PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT 3 Credit Hours
(Slashed with CI 65044) An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 85055 CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY 3 Credit Hours
(Slashed with CI 65055) The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87000 THEORY AND RESEARCH IN TEACHING 3 Credit Hours
Focuses on critical study of contrasting approaches to the study of teaching processes. Surveys issues to give students a more critical perspective and to provoke thought about the relationship among theory research and practice.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87001 THEORY AND RESEARCH IN CURRICULUM 3 Credit Hours
Focuses on historic and contemporary examples of curriculum theory and their application in curriculum design, development and evaluation. Examines modes of inquiry used by curriculum researchers and contemporary curriculum issues.
Prerequisite: CI 77001; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87002 FORMS OF INQUIRY IN CURRICULUM AND INSTRUCTION 3 Credit Hours
Introduction to the history, context, philosophy and ethics of inquiry in curriculum and instruction. Emphasis on acquainting students with faculty lines of inquiry and research foci while preparing them for critical consumption of and significant contribution to inquiry in curriculum and instruction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 87091 SEMINAR IN CURRICULUM AND INSTRUCTION 1-4 Credit Hours
(Slashed with CI 87091)(Repeatable for credit) A wide range of topics for advanced graduate inquiry. Normally, course provides a balance of theoretical study and creative application.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

CI 87098 RESEARCH IN CURRICULUM AND INSTRUCTION 1-15 Credit Hours
(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 87340 RESEARCH IN READING 3 Credit Hours
An introduction to a perspective on psychological processes underlying levels of reading from pre-reading to mature reading with implications for instruction.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87342 SEMINAR IN READING AND LANGUAGE 3 Credit Hours
Exploration of some of the issues, methods and findings on the relationship of reading and language. Examination of selected issues such as dialect bilingualism readability language based-strategies for reading instruction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87343 RESEARCH IN TEACHING OF WRITING 3 Credit Hours
Issues and methodologies in research in the teaching of writing. Students review the literature and conduct research in a significant area of writing instruction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87391 SEMINAR IN READING 1-4 Credit Hours
(Repeatable for credit) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 87398 RESEARCH IN READING AND LANGUAGE ARTS 1-15 Credit Hours
(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

CI 87517 NEW LITERACIES IN PRACTICE 3 Credit Hours
(Slashed with CI 67517) Developing technologies are changing the very definition of literacy. Designed to provide an overview of current (and past) theory and practices related to the growing line of inquiry known as new literacies. Participants of the class follow their own paths of inquiry related to the question: How is the definition of literacy changing? Participants engage in discussions of theoretical positions related to this question (from perspectives as new literacies, multi-literacies and arts-based knowing to name a few) as well as encounter the basics of creating a blog or wiki and editing video. Appropriate for any educator who is interested in examining how new literacies are transforming the classrooms.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87791 DOCTORAL SEMINAR IN MATHEMATICS EDUCATION 1-3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Variable content seminar covering mathematics education. Students must seek faculty advisor recommendation prior to registration.
Prerequisite: Curriculum and Instruction major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Dance (DAN)

DAN 17001 INTRODUCTION TO MODERN 1 Credit Hour
(Repeatable for credit) Introduction to the foundations of modern dance, which includes correct alignment; use of rotation; exploration of floorwork; and development of flexibility, coordination and strength. Use of terminology and movement developmentally appropriate for the beginner. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17002 MODERN 1 1-3 Credit Hours
(Repeatable for credit) Development of the basics of modern dance technique foundations and improvisation with emphasis on the movement and performing qualities of modern dance.
Prerequisite: DAN 17001.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 17004 INTRODUCTION TO JAZZ 1 Credit Hour
(Repeatable for credit) Introduction to the practice of basic jazz techniques. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17005 JAZZ 1 2 Credit Hours
(Repeatable for credit) Continuation of beginner and advanced beginner jazz dance technique foundations with emphasis on more challenging dance combinations.
Prerequisite: DAN 17004.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 17007 TAP 1 1 Credit Hour
(Repeatable for credit) Basic tap steps and combinations with varying sound intensities and rhythms. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17008 TAP 2 1 Credit Hour
(Repeatable for credit) Continuation of tap dance technique foundations with emphasis on more advanced dance combinations.
Prerequisite: DAN 17007.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17009 TAP 3 1 Credit Hour
(Repeatable for a maximum of 8 credit hours) Advanced tap dance techniques with emphasis on clarity, speed and performance skills.
Prerequisite: DAN 17008.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

DAN 17010 INTRODUCTION TO BALLET 1 Credit Hour
(Repeatable for credit) Introduction to the foundations of ballet, which includes correct alignment, safe external rotation, development of flexibility, coordination and strength, through the use of terminology and movement developmentally appropriate for the beginner. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17011 BALLET 1 1-3 Credit Hours
(Repeatable for credit) Continued study and practice of the foundations of ballet, which include correct alignment, safe external rotation, development of flexibility, coordination, placement, vocabulary and strength through movement for the use of terminology and movement developmentally appropriate for the advanced beginner.
Prerequisite: DAN 17010.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 17012 BALLET 3 1 Credit Hour
(Repeatable for credit) This course presents high intermediate ballet techniques for the serious non-major dance student. Students will apply the principles of body alignment to an ever expanding movement vocabulary. Intricate combinations in adagio, petite and grand allegro and turns will be offered. Focus will be on the strength, flexibility and endurance required to master movements at this more advanced level.
Prerequisite: DAN 17011.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17013 AFRICAN DANCE 1 1 Credit Hour
(Repeatable for credit) Designed to acquaint students with basic elements of African dance. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17016 SWING DANCE 1 1 Credit Hour
(Repeatable for credit) Practice of basic swing dance movements with emphasis on social partnering skills. Open to all students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

DAN 17019 HIP HOP 1 1 Credit Hour
(Repeatable for credit) Introduction to Hip Hop dance including warm-up techniques, movement across the floor and dance combinations. Open to all university students. No previous experience is necessary.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17020 HIP HOP 2 1 Credit Hour
(Repeatable for credit) Hip Hop II is for students with previous experience in hip hop and will explore in greater depth fundamentals, history, technique and personal style.
Prerequisite: DAN 17019.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17049 FUNDAMENTALS OF DANCE AND MOVEMENT 2 Credit Hours
(Repeatable for credit) Introduction to an intensive exploration of dance and movement techniques for majors and non-majors with special emphasis on alignment, body awareness, and movement vocabulary.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

DAN 17055 MEN'S BALLET 1 Credit Hour
(Repeatable for credit) Men's Ballet allows male- identifying students to receive training to enhance their ballet skills. Goals include improving overall placement and ballet technique while focusing on style and movements particular to the male danseur.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17080 MUSICAL THEATRE RUDIMENTS OF JAZZ AND TAP 1 Credit Hour
(Repeatable for credit) This course lays the foundation of beginning musical theatre jazz and tap. The beginning student learns proper vocabulary and alignment for both mediums of dance.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17101 MODERN 1A 1 Credit Hour
(Repeatable for credit) The practice of basic modern dance technique, vocabulary, and movement for the beginner. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17102 MODERN 2A 1 Credit Hour
(Repeatable for credit) Further practice of modern dance vocabulary and movement. This course is geared toward the dance majors or minor seeking to raise their level of ability, knowledge, and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17104 JAZZ 1A 1 Credit Hour
(Repeatable for credit) Introduction to jazz dance vocabulary and movement. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17105 JAZZ 2A 1 Credit Hour
(Repeatable for credit) Further studies in jazz dance vocabulary and movement. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their chosen field of study and professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17110 BALLET 1A 1 Credit Hour
(Repeatable for credit) Introduction to the foundations of ballet placement, vocabulary and movement for the beginner. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17111 BALLET 2A 1 Credit Hour
(Repeatable for credit) Further practice with ballet placement, vocabulary, and movement. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17151 MODERN 3B 3 Credit Hours
(Repeatable for credit) Continued exploration of basic modern dance technique and improvisation begun in DAN 27051. Continued study of dance innovators and their historical significance.
Prerequisite: DAN 27051; and Dance major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 17154 BALLET 3B 3 Credit Hours
(Repeatable for credit) A continuation from Ballet 3A, students learn and perfect Beginning/Intermediate -Intermediate Ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 27050 BALLET 2 1-3 Credit Hours
(Repeatable for credit) Course focuses on ballet placement, vocabulary and movement for the intermediate dancer. Students wishing to advance to a higher level are encouraged to repeat the course.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 27051 MODERN 2 1-3 Credit Hours
(Repeatable for credit) Course focuses on low-intermediate modern dance fundamentals, vocabulary and movement for the low-intermediate dancer.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 27070 JAZZ 2 2 Credit Hours
(Repeatable for credit) Development of low-intermediate jazz dance skills.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 27074 DANCE COMPOSITION I 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Movement exploration and improvisation including developing the body as an instrument of expression.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

DAN 27076 DANCE AS AN ART FORM (DIVG) (KFA) 3 Credit Hours
Survey of the various types, styles and functions of dance with emphasis on understanding dance as an art form and an expression of culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

DAN 27080 MUSICAL THEATRE JAZZ AND TAP I 2 Credit Hours
This course serves the advanced beginner to intermediate level musical theatre dance student. Students will build on the foundation of Rudiments of Jazz and Tap. They will learn more difficult concepts and steps and work to apply those concepts and steps in their dancing.
Prerequisite: DAN 17080; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 27150 KINESIOLOGY FOR DANCERS 3 Credit Hours
This course presents the basic anatomy and kinesiology of the key body joints of the spine, shoulder, hip, knee, ankle and foot. The fundamental bone structure, muscles and ligaments of these joints are discussed as they relate to movement capacity, mechanics and injury risk. This basic knowledge of these joints is combined with movement analysis to help students better understand alignment and selected dance vocabulary.
Prerequisite: NUTR 23511; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 27171 MODERN 4B 3 Credit Hours
(Repeatable for credit) Continuation of intermediate level dance styles with emphasis on complex movement phrases.
Prerequisite: DAN 37051; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 27173 BALLET 4B 3 Credit Hours
(Repeatable for credit) Students learn and perfect intermediate to advanced-intermediate ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 28010 DANCE ACCOMPANIMENT LABORATORY I 2 Credit Hours
(Course is repeatable for a maximum of 4 credit hours) Students will be introduced to the techniques and strategies of modern dance and ballet technique class accompaniment. Emphasis is placed on supervised student accompaniment and acquiring familiarity with dance class protocols, procedures, and the accompanist-instructor relationship. Course meets concurrently with one of the professional-level modern dance or ballet technique classes offered by the Dance Division.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

DAN 37010 DANCE PEDAGOGY 3 Credit Hours
This course brings together the theory and practice of dance pedagogy as applied in various settings including preschools; elementary, middle and high schools; private studios; universities; and professional settings. Students learn to develop lesson, unit and yearly learning and assessment plans. Specific developmental attributes and age-appropriate approaches as well as best business practices for teachers and studio owners are also addressed.
Prerequisite: Dance or Education major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 37020 TEACHING DANCE AND MOVEMENT FOR NONTRADITIONAL POPULATIONS 3 Credit Hours
This course focuses on the theories, content and pedagogical methods for teaching dance and movement for nontraditional populations. Nontraditional populations include individuals with physical, sensory and/or developmental/intellectual disabilities; persons living with chronic illness; and senior adults. Further, the course addresses best practices for integrated classes that are inclusive of individuals with and without disabilities. Finally, the course addresses related topics including aspects of civil rights, disability culture and aesthetics and professional applications beyond instruction.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 37035 DANCE COMPOSITION II 2 Credit Hours
Basic principles of dance composition with attention to design, thematic material, structure, form and small groups.
Prerequisite: DAN 27074; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

DAN 37051 MODERN 3 1-3 Credit Hours
(Repeatable for credit) Course focuses on modern dance principles and techniques, vocabulary and movement for the intermediate dancer. Students wishing to advance to a higher level are encouraged to repeat the course.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 37069 BALLET 3 1-3 Credit Hours
(Repeatable for credit) Course focuses on ballet placement, vocabulary and movement for the intermediate-advanced dancer. Students wishing to advance to a higher level are encouraged to repeat the course.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 37070 DANCE COMPOSITION III 2 Credit Hours
(Repeatable for a maximum of 8 credit hours) Development of individual movement style through improvisational studies and movement manipulation exercises of structure and form resulting in a substantial solo modern dance work.
Prerequisite: DAN 37035; and special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 37072 DANCE AND TECHNOLOGY 2 Credit Hours
This course introduces students to new technologies as resources for creative expression, performance and documentation of dance. Students will learn a brief history of screen dance, techniques for archiving dance, shooting and editing video with dance as the subject and approaches to interactive performance. Students will gain a basic understanding of how new media interacts with current practice in dance creation, production, education and research.
Prerequisite: Dance major or minor; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture
Grade Mode: Standard Letter

DAN 37080 MUSICAL THEATRE JAZZ AND TAP II 2 Credit Hours
This class is a continuation of the building of jazz and tap skills, as the steps increase in difficulty. Course will incorporate sequencing of transition steps which smoothly connect one set of steps to another.
Prerequisite: DAN 27080; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 37081 MUSICAL THEATRE JAZZ AND TAP III 2 Credit Hours
Continuation of Jazz and Tap techniques building on skills suitable for and required in professional audition circumstances. Course will assist advanced student to fine tune jazz and tap skills for auditions.
Prerequisite: DAN 37080; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 37092 KENT DANCE ENSEMBLE (ELR) 1 Credit Hour
(Repeatable for credit) Participation in rehearsal, preparation and performance of public dance concerts in an established dance ensemble.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

DAN 37100 POINTE 1 1 Credit Hour
(Repeatable for credit) Allows intermediate to advanced ballet dancers with some previous experience dancing on pointe to continue their pointe studies. The class explores ballet vocabulary and repertory at the barre, center, and travelling across the space, specifically in pointe shoes. Dancers must demonstrate sufficient strength, alignment, flexibility and prior ballet training required to safely dance on pointe prior to receiving approval for participation in a university pointe class.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 37148 JAZZ 3 2 Credit Hours
(Repeatable for credit) Development of intermediate to advanced-intermediate jazz dance skills.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 37150 POINTE 2 1 Credit Hour
(Repeatable for credit) Allows advanced ballet dancers with previous experience dancing on pointe to continue studies to include classical variations. The class explores ballet vocabulary and repertory at the barre, center and traveling across space, specifically in pointe shoes. Dancers are expected to have achieved the strength, alignment, flexibility and prior ballet training in order for a faculty member to approve participation in a university pointe class. Dancers taking Pointe 2 are expected to have reached an advanced level of ballet technique.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 37168 MODERN 5B 3 Credit Hours
(Repeatable for credit) Continuation of advanced modern dance technique.
Prerequisite: DAN 47051; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 37169 BALLET 5B 3 Credit Hours
(Repeatable for credit) A continuation from Ballet 5A, students learn advanced ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 37170 DANCE COMPOSITION IV 1 Credit Hour
Exploration of advanced composition skills in preparation for the B.F.A. senior choreography project and future choreographic endeavors.
Prerequisite: DAN 37070; and special approval.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

DAN 37192 DANCE PRACTICUM - PERFORMANCE (ELR) 1 Credit Hour
(Repeatable for credit) This course provides students practical experience related to the creation of a dance performance. Students complete work as assigned by a faculty member, contributing as directed, cast or assigned. The faculty mentor provides instruction, specifies expectations and assesses the student's contribution to the related performance.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

DAN 37292 DANCE PRACTICUM - TEACHING (ELR) 1 Credit Hour
(Repeatable for credit) This course provides students practical experience related to teaching dance. Students complete work as assigned under the tutelage of a dance faculty member. While teaching theory is addressed, this course provides mentored practical experience observing, demonstrating and student teaching other dance students as assigned. Additional homework related to teacher preparation and planning completes student coursework.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

DAN 37310 MUSIC FOR DANCERS 3 Credit Hours
Students will build theoretical, analytical and performance skills in music specific to the needs of dancers, dance teachers and choreographers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 37392 DANCE PRACTICUM - CHOREOGRAPHY (ELR) 1 Credit Hour
(Repeatable for credit) This course provides students practical experience creating dance under the mentorship of a faculty advisor for a specific performance, as assigned. Students receive specific instructions and feedback as they are guided to complete a work of choreography that is then presented for an audience. Faculty mentors for this course have extensive teaching and choreography experience.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

DAN 38001 APPLIED SKILLS FOR DANCE ACCOMPANIMENT 2 Credit Hours
(Course is repeatable for a maximum of 8 credit hours) Private applied music instruction in performance skills necessary to accompany a modern dance or ballet class. Emphasis is placed on hand drum and frame drum technique, keyboard repertoire, and keyboard improvisation skills.
Prerequisite: DAN 28010.
Schedule Type: Private Lesson
Contact Hours: 1.5 other
Grade Mode: Standard Letter

DAN 47050 BALLET 4 1-3 Credit Hours
(Repeatable for credit) Course focuses on ballet alignment, physicality, vocabulary and movement for the advanced-intermediate dancer.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 47051 MODERN 4 1-3 Credit Hours
(Repeatable for credit) Course focuses on advanced modern dance techniques, vocabulary and movement for the advanced dancer.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 47054 MODERN 6A 3 Credit Hours
(Repeatable for credit) Advanced technique integrating previously learned modern dance techniques and developing advanced movement phrasing.
Prerequisite: DAN 37168 and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 47060 PROFESSIONAL ASPECTS IN DANCE 2 Credit Hours
Development of pragmatic skills for entrance into professional dance careers. Emphasis on resume writing, preparation for auditions and economic survival.
Prerequisite: DAN 37148; and special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 47063 DANCE HISTORY I 3 Credit Hours
History of dance from antiquity to 1900.
Prerequisite: Dance major; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

DAN 47069 BALLET 6A 3 Credit Hours
(Repeatable for credit) Pre-professional Ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 47070 JAZZ 4 2 Credit Hours
(Repeatable for credit) Jazz style for students with advanced dance technique.
Prerequisite: DAN 37148.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 47080 MUSICAL THEATRE DANCE STYLES I 2 Credit Hours
Advanced Jazz and Tap class for Musical Theatre students to develop the stylization skills of musical theatre dance and performance. Students will work on stylization of movement by learning three different production numbers. One of a vernacular style, one classic style, and one involving partnering.
Prerequisite: DAN 37081; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 47081 MUSICAL THEATRE DANCE STYLES II 2 Credit Hours
Students will work to prepare a professional dance reel (a video record of their skills and accomplishments). The student's skills will include various media (jazz, tap, ballet, gymnastics, partnering, etc.) and styles (Charleston, Swing, Waltz, dances of the 50s, 60s, 70s, etc.). Students will be ready to submit dance reels, which they will prepare in the course of the semester. Provisions will be made for those students who do not desire or require a dance reel.
Prerequisite: DAN 47080; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 47095 SPECIAL TOPICS IN DANCE 1-3 Credit Hours
(Repeatable for a total of 24 hours) offered when resources permit a topic different from existing courses. Topic to be announced when scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

DAN 47154 MODERN 6B 3 Credit Hours
(Repeatable for credit) Continuation of advanced technique integrating previously learned modern dance techniques and developing advanced movement phrasing with special emphasis on performing quality and movement range.
Prerequisite: DAN 47054; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 47156 DANCE PRODUCTION 3 Credit Hours
Study of elements involved in planning and implementing a concert. Experiential work in technical and management components.
Prerequisite: Dance major; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 47163 DANCE HISTORY II (WIC) 3 Credit Hours
History of the development of concert and theatrical dance forms from 1900 to present day.
Prerequisite: DAN 47063; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

DAN 47169 BALLET 6B 3 Credit Hours
(Repeatable for credit) A continuation from Ballet 6A, students learn pre-professional Ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 47170 JAZZ STYLES IV 2 Credit Hours
(Repeatable for credit) Continuation of DAN 47070.
Prerequisite: DAN 47070; and special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 47192 INTERNSHIP IN DANCE (ELR) 1 Credit Hour
(Repeatable for credit)Supervised dance apprenticeship in an approved educational setting.
Prerequisite: Dance major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

DAN 47196 INDIVIDUAL INVESTIGATION IN DANCE 1-3 Credit Hours
(Repeatable for credit) Individual projects for dance majors.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

DAN 47199 BACHELOR OF ARTS CAPSTONE (ELR) 1-3 Credit Hours
(Repeatable for credit) The capstone project represents a culminating event for the Dance Studies student. Capstone projects can be taken in the junior or senior year and are identified in consultation with a faculty advisor. Honors students may combine the capstone project with an Honors thesis.
Prerequisite: Junior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

DAN 47299 BACHELOR OF FINE ARTS CAPSTONE (ELR) 1-3 Credit Hours
(Repeatable for credit) The B.F.A. Capstone Project consists of choreography and/or performance with full production values in an approved setting, along with the written and/or digital record of the production and creative process. It should be of significant scope and substance that will demonstrate excellence in the conscious artistry acquired through formal training. The project is generally accomplished within the last semester of the student's program. Students must present choreography in a Student Dance Festival prior to the presentation of their Senior Projects Concert (BFA Senior Dance Concert), i.e., during sophomore or junior year.
Prerequisite: DAN 37170; and sophomore standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

Data Science (DATA)

DATA 69099 CAPSTONE PROJECT 3,6 Credit Hours
(Repeatable for credit) The course is an integrative experience that brings together all components of Master's nonthesis graduate program in an applied, hands-on real-world setting. The course is 3 credit hours when taken once in conjunction with DATA 69192. However, DATA 69192 can be substituted by additional 3 credit hours of DATA 69099 making capstone project 6 credit hours (taken twice).
Prerequisite: Graduate standing and special approval.
Schedule Type: Project or Capstone
Contact Hours: 0 lecture, 0 lab, 3-6 other
Grade Mode: Standard Letter-IP

DATA 69192 GRADUATE INTERNSHIP 1-3 Credit Hours
(Repeatable for credit) Supervised experience in the Master program in Data Science. Since this work will be outside the department, a report and a final presentation will be required.
Prerequisite: Graduate Standing and special approval.
Schedule Type: Practical Experience
Contact Hours: 0 lecture, 0 lab, 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

DATA 69199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

DATA 69299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: DATA 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Design Innovation (DI)

DI 10010 SURVEY OF DESIGN INNOVATION NODES 3 Credit Hours
Develop awareness and actively utilize the wide array of shared-resource laboratories and environments across Kent State University's eight campus system that are connected as part of the Design Innovation (DI) Ecosystem. Explore the context of maker-communities, emerging technologies and social innovation resources while working in collaborative cross-disciplinary teams to tackle projects that intentionally connect the capabilities of multiple DI Nodes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DI 20020 BE SMARTER THAN YOUR SMARTPHONE 3 Credit Hours
This course uses the development of the smart phone to illustrate the multi-disciplinary nature of design and innovation. It provides an understanding of the technologies that make the smartphone possible. Specifically, the course covers the role of research and design in product development, the changed in patterns and nature of our communications through smartphones, and the implications for businesses, markets and society. The aim of this course is to introduce the multidisciplinary nature of innovation using the smartphone as an example. It presents the complexities, challenges, and opportunities that the smartphone has created.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DI 20100 INTRODUCTION TO DESIGN INNOVATION 3 Credit Hours
This course blends analytical skills, intuition and creative thinking to develop practical solutions to real world problems. Students will gain a high-level understanding of the design process through team-based projects tackling challenges. Design thinking, methods and strategies offer novel ways to discover market opportunities, experiment to validate concepts and mitigate risk, and deliver value to all. This will be a reflective lecture and small project-based course that addresses the programmatic, technical, business, social and human factors of design in a way that leads to innovation(s) in the development of integrated solutions. Learn how to engage with end users, effectively frame problems, identify potential solutions, build prototypes to test assumptions and learn what works (and doesn't). Then dive into a range of ways large and small to bring design innovation into your daily life.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

DI 30099 CHALLENGE-BASED INNOVATION (ELR) 3 Credit Hours
(Repeatable for credit) Challenge-Based Innovation (CBI) is a project and problem-based learning course, where multidisciplinary student teams and their instructors collaborate with faculty researchers, community and industry partners to discover novel solutions for the future of humankind. The projects are an elaborate mixture, proposed by cross-disciplinary faculty teams and derived from using research to tackle messy or complex problems to meet societal, human-driven needs. The multidisciplinary student teams act as catalysts in creating novel solutions to pressing problems.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab, Project or Capstone
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

DI 49095 SPECIAL TOPICS IN DESIGN INNOVATION STUDIO 1-6 Credit Hours
(Repeatable for credit) Analysis and cross-disciplinary problem-solving of significant and current issues in design innovation not covered in existing design innovation courses. This studio course is offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2-6 other
Grade Mode: Standard Letter

DI 49099 DESIGN INNOVATION WORKSHOP (ELR) 1-4 Credit Hours
(Repeatable for credit) This course supports brief, intensive and interactive activities that address a narrowly defined range of problems in which the content is practical and concentrates on the acquisition of specific information and skills related to practices in design innovation. The variable credit format allows for intensive challenges that might occur in short periods, and that it might be focused on a single problem.
Prerequisite: None.
Schedule Type: Project or Capstone, Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

DI 49995 SPECIAL TOPICS IN DESIGN INNOVATION 1-3 Credit Hours
(Repeatable for credit) Analysis and cross-disciplinary problem-solving of significant and current issues in design innovation not covered in existing design innovation courses. This course is offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

DI 49999 DESIGN INNOVATION GRAND CHALLENGES STUDIO PROJECT (ELR) 3 Credit Hours
(Repeatable for credit) A cross disciplinary project-based capstone course that collaboratively focuses on a single grand challenge. Challenges range from those identified by GrandChallenges.org, "solving global health and development problems for those most in need" to one of the "Grand Challenges for Engineering", to one from the list regularly updated by the National Science Foundation, to a pressing challenge identified by the faculty. Taught by a multidisciplinary team of primary instructors with input from industry leaders with complementary expertise, the collaborative effort of students, faculty members, industry partners and-or community leaders, focuses on developing robust multi-perspective, actionable solutions considering multiple criteria including but not limited to technical, socio-cultural and economic dimensions. Outcomes range from early designs, to physical prototypes or policy solutions with an understanding of how to take them to a next phase. Travel component may be included.
Prerequisite: None.
Schedule Type: Project or Capstone
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Early Childhood Education (ECED)

ECED 10120 INTRODUCTION TO EARLY CHILDHOOD SERVICES 1 Credit Hour
Orientation to the field of early childhood education: historical and present day programs and services for young children 0-12. This course provides an overview of early childhood programs and related services for children and their families birth through age 12. The course is intended for early childhood majors as well as those who may be interested in related fields or are undecided.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

ECED 20101 UNDERSTANDING YOUNG CHILDREN'S DEVELOPMENT 3 Credit Hours
Growth and development of young children from birth to age 8 as it occurs along both typical and atypical pathways. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 10120; and special approval.
Pre/corequisite: Minimum C grade in SPED 23000; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

ECED 20102 SOCIAL STUDIES AND THE ARTS IN PRESCHOOL 3 Credit Hours
Young children's development in the expressive arts and social studies; implications for development of the environment and integrated curriculum and teaching methods for preschool children. There are field-based assignments in this course.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 20103 PRESCHOOL TEACHING AND LEARNING 3 Credit Hours
(Equivalent to EYEC 22000) Integrated field-based seminar that gives students a foundation for the ways children learn during the preschool years. This course focuses on the importance of play, guidance of young children, designing quality environments, and authentic documentation and assessment. There are field-based assignments in this course.
Prerequisite: Admission to advanced standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 20105 FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS 3 Credit Hours
(Equivalent to EYEC 21005) Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in preschool classrooms. There are field-based assignments in this course.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

ECED 20163 UNDERSTANDING YOUNG CHILDREN: TYPICAL AND ATYPICAL PATHWAYS 3 Credit Hours
Growth and development of young children from birth to age eight as it occurs along both typical and atypical pathways. Pre/Corequisite: SPED 23000; and admission to advanced study.
Prerequisite: ECED 10120; and special approval.
Corequisite: ECED 30134 and 30164 and 40145.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

ECED 20192 CLINICAL EXPERIENCE IN PRESCHOOL (ELR) 2 Credit Hours
(Equivalent to EYEC 22192) Internship in preschool settings. This is a supervised internship working alongside a preschool teacher in a school/childcare setting. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 14 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 30123 LANGUAGE AND LITERACY FOR THE PRESCHOOL CHILD 3 Credit Hours
(Equivalent to EYEC 22130) An examination of the process of language and literacy development in preschool children. The course focuses on how preschool teachers integrate knowledge of development with early school and family literacy learning.
Prerequisite: Admission to advanced study.
Corequisite: ECED 30142 and ECED 30147 and ECED 40165.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30134 INTEGRATED EXPRESSIVE ARTS AND SOCIAL STUDIES IN PRESCHOOL 3 Credit Hours
Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children.
Prerequisite: Admission to advanced study.
Corequisite: ECED 20163 and ECED 30164 and ECED 40145 (ECED Block I).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30142 PARTNERSHIPS AND GUIDANCE FOR PRESCHOOL CHILDREN 3 Credit Hours
(Equivalent to EYEC 21005) Appropriate guidance strategies set the foundation for positive experiences our youngest children in school; patterns learned early often set a foundation for primary school entry. This course addresses the concerns of guidance family partnerships and inclusive schooling with preschool children and their educators. It takes a proactive stance, helping teachers develop a constructive guidance approach.
Prerequisite: Admission to advanced study.
Corequisite: ECED 30123 and ECED 30147 and ECED 40165.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30144 INTEGRATED CURRICULUM FOR SOCIAL STUDIES 3 Credit Hours
Objectives, resources, curriculum development, methods of teaching social studies and expressive arts at kindergarten and primary levels; emphasis on developing integrated social studies curriculum; infusing multiple forms of expressive arts into integrated curriculum and assessment; and engaging professional collaboration with teachers in the field.
Prerequisite: ECED 30134; and admission to advanced study.
Corequisite: ECED 40142 and ECED 40105 and ECED 40107 and ECED 40123.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30147 EARLY EXPERIENCES IN MATHEMATICS AND SCIENCE 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics and science in preschool settings with a theoretical emphasis on cognitive development.
Prerequisite: MATH 14001 and 14002 with a minimum of a C grade; and admission to advanced study.
Corequisite: ECED 30123 and ECED 30142 and ECED 40165.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30164 PRESCHOOL EDUCATION 3 Credit Hours
Integrated curriculum utilizing principles of developmentally appropriate practice in settings for children under five. Field experience two mornings a week. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Admission to advanced standing.
Corequisite: ECED 20163 and ECED 30134 and ECED 40145 (ECED Block I).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30201 TEACHING EARLY READERS 3 Credit Hours
(Equivalent to EYEC 22130) An examination of the process of languages and literacies development. This course focuses on teaching literacy to preschool and primary age students
Prerequisite: Minimum C grade in the following courses: ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block 2); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30202 MATHEMATICS AND SCIENCE IN THE EARLY YEARS 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics and science in preschool and early primary settings with a theoretical emphasis on cognitive development. Student engagement through authentic, inquiry-based, integrated experiences are explored.
Prerequisite: Minimum C grade in the following courses: ECED 20101, ECED 20102, ECED 20103 and ECED 20105 (Block I); and a satisfactory grade in ECED 20192; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30205 CULTURALLY AND LINGUISTICALLY SUSTAINING PEDAGOGY 3 Credit Hours
(Equivalent to EYEC 22140) This course extends students' knowledge of the application of culturally and linguistically sustaining curriculum for students in preschool and primary years classrooms. This course has a field component attached to it. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Minimum C grade in the following courses: ECED 20101, ECED 20102, ECED 20103, ECED 20105 (Block I); and a satisfactory grade in ECED 20192; admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30292 CLINICAL EXPERIENCE PRIMARY II (ELR) 1 Credit Hour
A structured tutoring experience with K-5 students in collaboration with local schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Minimum C grade in ECED 20101, ECED 20102, ECED 20103 and ECED 20105 (Block I); and a satisfactory grade in ECED 20192; and admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 30392 CLINICAL EXPERIENCE PRIMARY III (ELR) 1 Credit Hour
A structured field experience with K-5 students in collaboration with local schools. Students are assigned a mentor teacher/classroom and participate in all classroom activities at the field site weekly. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Minimum C grade in ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and a satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 40092 INTEGRATED FIELD EXPERIENCES (ELR) 3 Credit Hours
(Repeatable for credit) Participation in experiences offering opportunity to plan and teach reading, language arts, integrated content units and observe students in early childhood classrooms. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Admission to advanced study.
Corequisite: ECED 40114 and ECED 40126 and ECED 40127 and ECED 40147.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 40093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 50093 and ECED 70093) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent early childhood faculty members and may include experts from outside agencies and other institutions.
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 40105 APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN 3 Credit Hours
(Slashed with ECED 50105) An examination of phonics in early reading and writing development, effective strategies for teaching and assessing phonics appropriate for kindergarten and primary grade children.
Prerequisite: ECED 30123; and admission to advanced study.
Corequisite: ECED 30144 ECED 40107 and ECED 40123 and ECED 40142 (Block III).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40107 TEACHING MATHEMATICS: EARLY YEARS I 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-1 with a theoretical emphasis on cognitive development.
Prerequisite: ECED 30147 and MATH 14001 and 14002; and admission to advanced study.
Corequisite: ECED 30144 and ECED 40105 and ECED 40123 and ECED 40142.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40114 TEACHING SCIENCE IN THE EARLY YEARS 3 Credit Hours
(Slashed with ECED 50114) This course investigates engaging young children in inquiry-based processes of science. Emphasis is given to creating developmentally appropriate experiences in accordance to NAEYC guidelines. National and state science standards as well as the college and graduate school of education conceptual framework. Attention is focused on the use of science materials safety planning assessment and incorporating science across the curriculum.
Prerequisite: ECED 30147; and admission to advanced study.
Corequisite: ECED 40126 and ECED 40127 and ECED 40092 and ECED 40147 (Block IV).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS 3 Credit Hours
(Slashed with ECED 50123) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.
Prerequisite: Admission to advanced study.
Corequisite: ECED 30144 and ECED 40105 and ECED 40107 and ECED 40142.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40125 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
Interdisciplinary inquiry into teaching as a professional practice in early childhood education. Completion of K-STEP unit assessment.
Prerequisite: A minimum C grade in the following courses: ECED 40401, ECED 40402, ECED 40403, ECED 40404 and ECED 44444 (Block IV); and a satisfactory grade in ECED 40492; and admission to advanced study.
Corequisite: ECED 40292.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40126 DEVELOPMENTAL READING AND WRITING: EARLY YEARS 3 Credit Hours
(Slashed with ECED 50126) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.
Prerequisite: ECED 40105; and admission to advanced study.
Corequisite: ECED 40092 and ECED 40114 and ECED 40127 and ECED 40147.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40127 DEVELOPING A BALANCED LITERACY PROGRAM (WIC) 3 Credit Hours
This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction.
Prerequisite: ECED 40105; and admission to advanced study.
Corequisite: ECED 40114 and ECED 40126 and ECED 40092 and ECED 40147.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ECED 40142 HOME-SCHOOL-COMMUNITY-PARTNERSHIPS IN DIVERSE CONTEXTS (ELR) 3 Credit Hours
(Slashed with ECED 50142) Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the primary grades.
Prerequisite: Admission to advanced study.
Corequisite: ECED 30144 and ECED 40105 and 40107 and 40123.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, TAG Education

ECED 40145 MUSIC MOVEMENT IN PRE-PRIMARY EDUCATION 3 Credit Hours
(Slashed with ECED 50145) Music and movement for pre-primary children. Course intended for majors in early childhood education or other persons desiring additional work with pre-primary children.
Prerequisite: Admission to advanced study.
Corequisite: ECED 20163 and ECED 30134 and ECED 30164 (ECED Block I).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40147 TEACHING MATHEMATICS:EARLY YEARS II 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-3 with a theoretical emphasis on cognitive development.
Prerequisite: MATH 14001 and 14002 with a minimum C grade; and admission to advanced study.
Corequisite: ECED 40114 and ECED 40126 and ECED 40127 and ECED 40092 (Block IV).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40151 GUIDANCE OF YOUNG CHILDREN 3 Credit Hours
Principles and practices of appropriate guidance for young children, intervention strategies, resources and materials for guidance.
Prerequisite: Admission to advanced study.
Corequisite: ECED 40105 and 40107 and 40142 and CULT 29535.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40165 INTEGRATED APPLICATION OF PRESCHOOL CURRICULUM 3 Credit Hours
(Equivalent to EYEC 22140) Internship in preschool. Advanced integrated preschool curriculum utilizing principles of developmentally appropriate practice focusing on infant toddler and preschool age children. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: ECED 30164.
Corequisite: ECED 30123 and ECED 30142 and ECED 30147.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40196 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) Open to seniors in ECED. Intensive individual study on an early childhood topic selected by student and adviser.
Prerequisite: Admission to advanced study; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 40203 CRITICAL INQUIRY: THE INTERNATIONAL BACCALAUREATE FRAMEWORK 3 Credit Hours
(Slashed with ECED 50203) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.
Prerequisite: Minimum C grade in the following courses ECED 20101, ECED 20102, ECED 20103, ECED 20105 (Block I); and satisfactory grade in ECED 20192; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40292 INTERNSHIP IN ELEMENTARY SCHOOLS (ELR) 4-9 Credit Hours
(Repeatable for credit) Internship in grades K-5, full day for 15 weeks. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: ECED 40492; and admission to advanced study.
Corequisite: ECED 40125.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ECED 40301 TEACHING SOCIAL STUDIES IN THE ELEMENTARY YEARS 3 Credit Hours
Objectives, resources, curriculum development, and methods of teaching social studies K-fifth grade with an emphasis on developing integrated social studies curriculum and engaging professional collaboration with teachers in the field. Emphasis on non-dominant narratives will be considered. At least one field experience assignment will be integrated in this course.
Prerequisite: Minimum C grade in the following courses: ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40302 TEACHING PHONICS AND WORD STUDY 3 Credit Hours
(Slashed with ECED 50302) An examination of phonics in reading and writing development; effective strategies for teaching and assessing phonics appropriate for K-5 students.
Prerequisite: Minimum C grade in the following courses ECED 20101, ECED 20102, ECED 20103 and ECED 20105 (Block I); and a satisfactory grade in ECED 20192; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40303 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development; application of curriculum planning, teaching strategies, and task analysis. There are field-based assignments in this course.
Prerequisite: Minimum C grade in the following courses: ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40304 TEACHING SCIENCE IN THE ELEMENTARY YEARS 3 Credit Hours
(Slashed with ECED 50304) This course investigates engaging students in inquiry-based science practices and big science ideas. Emphasis is given to creating developmentally appropriate experiences.
Prerequisite: Minimum C grade in the following courses: ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40305 GUIDANCE AND ASSESSMENT: SUPPORTING ALL CHILDREN 3 Credit Hours
This course addresses the complexities of addressing individual student needs within the larger classroom setting. Strategies specific to guidance and assessment are examined to meet social/emotional and cognitive development needs and set the foundation for positive experiences in school. This course highlights a proactive stance, helping teachers develop a constructive guidance approach and meaningful assessment practices. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40401 TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS 3 Credit Hours
This course focuses on the following aspects for the elementary grades: science and social studies content and practices; planning and teaching of science and social studies; and critical literacy and non-dominant narratives. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 30201, ECED 40301, ECED 40303, ECED 40304 and ECED 40305 (Block III); and satisfactory grade in ECED 30392; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40402 TEACHING READERS IN THE ELEMENTARY YEARS 3 Credit Hours
(Slashed with ECED 50402) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.
Prerequisite: ECED 30201 and ECED 40301 and ECED 40303 and ECED 40304 and ECED 40305 (Block III); and satisfactory grade in ECED 30392; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40403 TEACHING WRITERS IN THE ELEMENTARY YEARS (WIC) 3 Credit Hours
This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction. There are field-based assignments in this course.
Prerequisite: ECED 30201 and ECED 40302 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ECED 40404 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 30201, ECED 40301, ECED 40303, ECED 40304 and ECED 40305 (Block III); and satisfactory grade in ECED 30392; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40492 CLINICAL EXPERIENCE PRIMARY IV (ELR) 1 Credit Hour
A structured field experience with K-5 students in collaboration with local schools. Students are assigned a mentor teacher/classroom and participate in all classroom activities at the field site weekly. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Minimum C grade in ECED 30201, ECED 40301, ECED 40303, ECED 40304 and ECED 40305 (Block III); and admission to advanced study.
Corequisite: ECED 44444.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 44444 DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL 3 Credit Hours
Growth and development of children in grades four and five; implications for the application to the intermediate classroom; developmentally-appropriate practices including differentiation; examination of classroom systems and whole-child learning including impacts of trauma and stress. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 30201, ECED 40301, ECED 40303, ECED 40304 and ECED 40305 (Block III); and satisfactory grade in ECED 30392; and admission to advanced study.
Corequisite: ECED 40492.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 40093 and ECED 70093) Variable topic workshop in early childhood education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 50105 APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN 3 Credit Hours
An examination of phonics in early reading and writing development, effective strategies for teaching and assessing phonics appropriate for kindergarten and primary grade children.
Prerequisite: ECED 60167; and Early Childhood Education major; and graduate standing.
Corequisite: ECED 50147, ECED 50114 and ECED 50126.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50114 TEACHING SCIENCE IN THE EARLY YEARS 3 Credit Hours
(Slashed with ECED 40114) This course investigates engaging young children in inquiry-based processes of science. Emphasis is given to creating developmentally appropriate experiences in accordance to NAEYC guidelines. National and state science standards as well as the college and graduate school of education conceptual framework. Attention is focused on the use of science materials safety planning assessment and incorporating science across the curriculum.
Prerequisite: Graduate standing in the Master of Arts in Teaching program.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS 3 Credit Hours
(Slashed with ECED 40123) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.
Prerequisite: ECED 60113 and 60152; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50125 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ECED 40125) Interdisciplinary inquiry into teaching as a professional practice in early childhood education. Completion of a unit wide assessment determined by EHHS teacher education. Corequisites: ECED 67292
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50126 DEVELOPMENTAL READING AND WRITING: THE EARLY YEARS 3 Credit Hours
(Slashed with ECED 40126) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50142 HOME, SCHOOL AND COMMUNITY RELATIONS 3 Credit Hours
(Slashed with ECED 40142) Approaches to parent and community involvement in the education and welfare of children. Understanding of role of community agencies and organizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50145 MUSIC AND MOVEMENT IN PRE-PRIMARY EDUCATION 3 Credit Hours
(Slashed with ECED 40145) Music and movement for pre-primary children. Course intended for majors in early childhood education or other persons desiring additional work with pre-primary children.
Prerequisite: Graduate standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50147 TEACHING MATHEMATICS:EARLY YEARS 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in prekindergarten through grade three with a theoretical emphasis on cognitive development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50203 CRITICAL INQUIRY: THE INTERNATIONAL BACCALAUREATE FRAMEWORK 3 Credit Hours
(Slashed with ECED 40203) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50301 TEACHING SOCIAL STUDIES IN K-5 CLASSROOMS 3 Credit Hours
Social Studies objectives, resources, curriculum development, and methods of teaching K-5 with an emphasis on developing integrated social studies curriculum and engaging professional collaborations with teachers in the field is emphasized. Narratives of diversity and difference with an emphasis upon social justice pedagogies are discussed and described. At least one field based experience assignment will be integrated into teaching and learning in this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50302 TEACHING PHONICS AND WORD STUDY 3 Credit Hours
(Slashed with ECED 40302) An examination of phonics in reading and writing development, effective strategies for teaching and assessing phonics appropriate for K-5 students.
Prerequisite: Early Childhood Education major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50303 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50304 TEACHING SCIENCE IN THE ELEMENTARY YEARS 3 Credit Hours
(Slashed with ECED 40304) This course investigates engaging students in inquiry-based science practices and big science ideas. Emphasis is given to creating developmentally appropriate experiences.
Prerequisite: Majors enrolled in a Master of Arts in Teaching degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50402 TEACHING READERS IN THE ELEMENTARY YEARS 3 Credit Hours
(Slashed with ECED 40402) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.
Prerequisite: ECED 50302 and ECED 60201 with a minimum C grade; and Early Childhood Education within the Master of Arts in Teaching degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50403 TEACHING WRITERS IN THE ELEMENTARY YEARS 3 Credit Hours
This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction.
Prerequisite: ECED 50302 and ECED 60201; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50404 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development. There are field based assignments in this course.
Prerequisite: ECED 50303 and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 54444 DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL 3 Credit Hours
Growth and development of children in grades four and five; implications for the application to the intermediate classroom; developmentally-appropriate practices including differentiation; examination of classroom systems and whole-child learning including impacts of trauma and stress.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60101 CONSTRUCTIVIST TEACHING IN TRADITIONAL AND NON-TRADITIONAL EARLY CHILDHOOD SETTINGS 3 Credit Hours
Theorists and researchers with a constructivist orientation will be examined in relationship to teacher beliefs and diverse settings. The course will focus on constructivist practices emphasizing child sensitive curriculum within traditional (classrooms and schools) and non-traditional settings (museums, forests, etc.).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60102 DEVELOPING A BALANCED LITERACY PROGRAM 3 Credit Hours
An examination of own teaching practice focusing on assessment strategies to inform decision making for individual children and evaluation strategies to fine tune a balanced literacy program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60103 SOCIAL STUDIES AND THE ARTS IN PRESCHOOL 3 Credit Hours
Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60110 TEACHING HUMANITIES: EARLY YEARS 3 Credit Hours
Looking at Humanities through the lens of a young child’s experience in learning with a focus on visual thinking and expression, music and movement.
Prerequisite: Admission to advanced study; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60112 HUMANITIES FOR CHILDREN 2 Credit Hours
(Slashed with ECED 70112) Relevance of humanities as applied to education of young children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECED 60113 PRESCHOOL EDUCATION 3 Credit Hours
(Slashed with ECED 70113) In-depth study of curriculum development in preschool programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60115 SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION 3 Credit Hours
(Cross-listed with MCED 60115) This course introduces early and middle childhood educators to STEM (Science, Technology, Engineering, Mathematics) for students in K-6 classroooms. This includes a foundation and overview of the what, how, and why STEM is included in K-6 classrooms. As a foundations course, students will gain exposure to integrating the STEM disciplines, assessment of mathematics and science in STEM, and aspects of developmentally appropriate STEM for early and middle childhood settings.
Prerequisite: Graduate standing.
Pre/corequisite: ECED 50304.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60116 SCIENCE TECHNOLOGY ENGINEERING AND MATH INQUIRY FOR EARLY CHILDHOOD EDUCATION 3 Credit Hours
This course builds on STEM Foundations for Early Childhood Education. Interdisciplinary teaching of STEM for young children is the main focus, with attention to specific pedagogical applications. Thus, inquiry as a pedagogic approach to STEM application is a central, concurrent feature of this course.
Prerequisite: ECED 60115; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60145 TEACHING SOCIAL STUDIES: EARLY YEARS 3 Credit Hours
Involves the systematic study of the theories, methods, and materials necessary to successfully teach social studies to diverse populations of pre-Kindergarten and elementary school students growing up in a global society. The course will consider aspects of the history of social studies and theory and research in social education as a background for understanding methods and materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60151 SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 70151) Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship making, guidance strategies and interventions, building and facilitating classroom communities and promoting caring classrooms will be the focus of this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60152 APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN 3 Credit Hours
(Slashed with ECED 70152) Examination of theories pertaining to child development which have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60156 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Cross-listed with SPED 63956 and SPED 73956) Issues facing children within family/society; history of early childhood services; theoretical perspectives; implications of childhood disabilities; recommended assessment, intervention and evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM 3 Credit Hours
(Slashed with ECED 70158) Course examines postmodern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60159 FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours
(Cross-listed with SPED 63952) Examines issues facing families and professionals serving young children who are at risk, disabled and typically developing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60160 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours
(Cross-listed with SPED 63955) Overview of typical/atypical development pathways age three to grade three: theories of behavior, implications of atypical development on play/learning; development within ecological framework.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60163 CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 70163) The course is an examination of contemporary issues with young children, families, school communities, and diverse populations detailing the philosophical, social, and political ramifications of the study of children highlighting current research, practices and policies. This course will examine a body of literature, (recent seminal works of impact in early childhood), which encompass a few of the pervasive dilemmas and debates shaping the early childhood field in the U.S. today (with a global international backdrop). International perspectives on issues will be liberally juxtaposed in conjunction with U.S. issues, and overall this course will address how educators have and can structure their practice with various communities to support young children, families, and society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60167 LANGUAGE AND LITERACY:UNDERSTANDING DEVELOPMENT 3 Credit Hours
(Slashed with ECED 70167) The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multi-cultural language. Topics specifically related to classroom teaching include the assessment of language delays and disorders and strategies for connecting oral language to literacy in preschool.
Prerequisite: Graduate standing.
Corequisite: ECED 60152.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60170 WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
The seminar examines publication possibilities within early childhood education. A wide range of writing (e.g., journals, book reviews, training modules-manuals) will be reviewed for topics concerning young children (i.e., education, development, families, care, schools, health, and-or their teachers-providers.) This seminar will rely greatly on student participation for determining topics in support of individual interests, research, teaching practices at the university level, curriculum practices in the early childhood classrooms and settings, and more.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 60201 TEACHING EARLY READERS 3 Credit Hours
An examination of the process of languages and literacies development. This course focuses on teaching literacy to primary age students.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ECED 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 60392 CLINICAL EXPERIENCE PRIMARY III 1 Credit Hour
A structured field experience with K-5 students in collaboration with local schools. Students are assigned a mentor teacher/classroom and participate in all classroom activities at the field site weekly. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 60492 CLINICAL EXPERIENCE PRIMARY IV 1 Credit Hour
A structured field experience with K-5 students in collaboration with local schools. Students are assigned a mentor teacher/classroom and participate in all classroom activities at the field site weekly. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 63333 FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS 3 Credit Hours
Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the primary grades.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 67291 SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours
(Repeatable for credit) (Slashed with ECED 77291) Seminar in early childhood education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECED 67292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours
(Repeatable for credit) (Slashed with ECED 77292) Practicum/internship in early childhood education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 67295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 77295) Special topics in early childhood education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

ECED 67296 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) Individual investigation in early childhood education.
Prerequisite: Graduate standing; and permission.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 67298 RESEARCH IN EARLY CHILDHOOD EDUCATION 1-15 Credit Hours
(Repeatable for credit) Research in early childhood education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 67392 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours
(Repeatable for credit) Practicum/internship in early childhood education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place. The practicum is 50 clock hours per credit hour.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 70093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 40093 and ECED 50093)
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 70112 HUMANITIES FOR CHILDREN 2 Credit Hours
(Slashed with ECED 60112) Relevance of humanities as applied to education of young children.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECED 70113 PRESCHOOL EDUCATION 3 Credit Hours
(Slashed with ECED 60113) In-depth study of curriculum development in preschool programs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70151 SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 60151) Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship- making, guidance strategies and interventions, building and facilitating classroom communities and promoting caring classrooms will be the focus of this course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70152 APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN 3 Credit Hours
(Slashed with ECED 60152) Examination of theories pertaining to child development which have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM 3 Credit Hours
(Slashed with ECED 60158) Course examines postmodern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70163 CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 60163) The course is an examination of contemporary issues with young children, families, school communities, and diverse populations detailing the philosophical, social, and political ramifications of the study of children highlighting current research, practices and policies. This course will examine a body of literature (recent seminal works of impact in early childhood), which encompass a few of the pervasive dilemmas and debates shaping the early childhood field in the U.S. today (with a global international backdrop). International perspectives on issues will be liberally juxtaposed with U.S. issues, and overall this course will address how educators have and can structure their practice with various communities to support young children, families and society.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70167 LANGUAGE AND LITERACY:UNDERSTANDING DEVELOPMENT 3 Credit Hours
(Slashed with ECED 60167) The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multi-cultural language. Topics specifically related to classroom teaching include the assessment of language, delays and disorders and strategies for connecting oral language to literacy in preschool.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70170 WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 60170) The seminar examines publication possibilities within the field of early childhood education. A wide range of writing (e.g., journals, boos reviews, training modules-manuals) will be reviewed for topics concerning young children (i.e., education, development, families, care, schools, health, and-or their teachers providers.) This seminar will rely a great deal on student participation for determining topics in support of individual interests, research, teaching practices at the university level, curriculum practices in the early childhood classrooms and settings and more.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 77291 SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours
(Repeatable for credit) (Slashed with ECED 67291) Seminar in ECED.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECED 77292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours
(Repeatable for credit) (Slashed with ECED 67292) Practicum/ internship in ECED. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 77295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 67295) Special topics in ECED.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

ECED 80291 ADVANCED SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours
(Repeatable for credit) Advanced seminar in ECED.
Prerequisite: Doctoral standing; and permission.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECED 80295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) Special topics in ECED.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

ECED 80298 RESEARCH IN EARLY CHILDHOOD EDUCATION 1-15 Credit Hours
(Repeatable for credit)Research in ECED.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

Early Years Education and Care (EYEC)

EYEC 10121 EARLY YEARS FIELD PREPARATION AND TRAININGS 1 Credit Hour
This course will prepare students for entrance into the early childhood field by providing information and guidance as students complete a clearance packet which includes specific trainings, paperwork and preparation. This documentation and related trainings are required prior to beginning observations and field experiences undertaken at sites approved by the Ohio Department of Job and Family Services (ODJFS) and Ohio Department of Education (ODE). Clearance packets and yearly background checks are required for students to be able to participate in course-related field experiences, which occur each semester in the EYEC and the BSE program.
Pre/corequisite: ECED 10120.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

EYEC 10192 PRESCHOOL CLINICAL EXPERIENCE I (ELR) 1 Credit Hour
This course will be taken in conjunction with ECED 20101 and with EYEC 21010, which have field related observations and assignments. A minimum of 45 field hours is required. Students must also submit an approved clearance packet and the results of a current Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background check to authorized personnel at their field site before beginning their field experience.
Pre/corequisite: ECED 10120 and EYEC 10121.
Corequisite: ECED 20101 and EYEC 21010.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EYEC 20192 PRESCHOOL CLINICAL EXPERIENCE II (ELR) 1 Credit Hour
This course will require students to complete a minimum of 120 field hours in a preschool setting. This field course is to be taken in conjunction with the designated preschool block of course work prior to preschool student teaching (EYEC 22192). Related assignments from the concurrent preschool courses are completed at the assigned field site. Students must also submit an approved clearance packet and the results of a current Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background check to authorized personnel at their assigned school or agency before the first day of the semester. Students must successfully complete the field experience and pass all related preschool course work with a minimum grade of C in order to register for the final preschool student teaching, EYEC 22192.
Pre/corequisite: ECED 10120 and EYEC 10121 and EYEC 10192 and ECED 20101 and EYEC 21010.
Corequisite: EYEC 21005 and EYEC 22000 and EYEC 22130.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EYEC 21005 COLLABORATIVE PARTNERSHIPS IN THE EDUCATION AND GUIDANCE OF THE YOUNG CHILD 3 Credit Hours
(Equivalent to ECED 20105) This course focuses on the understanding that children are a part of a family, culture, and community. Content addresses family partnerships and inclusive schooling with young children and their educators. Students gain knowledge and skills to establish collaborative and productive relationships with families and the surrounding community. Students identify and discuss the multiple influences and diversity that impact the development, guidance, and education of the whole child: family structure, customs, identities, socio-cultural and linguistic backgrounds, and advocacy. There are field-based assignments in this course and 15 hours of field experience is required. Students are required to complete a Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their field site before beginning their field experience. Some preschool sites may also require a clearance packet which is completed in EYEC 10121.
Pre/corequisite: ECED 10120 and ECED 20101 and EYEC 10121 and EYEC 21010 and EYEC 10192.
Corequisite: EYEC 20192 and EYEC 22000 and EYEC 22130.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EYEC 21010 INFANT AND TODDLER CURRICULUM AND SERVICES 3 Credit Hours
This course focuses on Infant/toddler development as it relates to environments and curriculum, theoretical perspectives, family involvement, community involvement, community resources, collaboration, and advocacy. A minimum of 30 hours of field experience is required. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their field site before beginning their field experience.
Pre/corequisite: ECED 10120 and EYEC 10121 and ECED 20101.
Corequisite: EYEC 10192.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EYEC 21095 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Intensive study of significant current issues in the early childhood education field.
Prerequisite: Departmental permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EYEC 21096 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION TECHNOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Analysis and special research in the early childhood education field.
Prerequisite: Departmental special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

EYEC 22000 PRESCHOOL CURRICULUM 3 Credit Hours
(Equivalent to ECED 20103) Students will plan, implement and evaluate developmentally appropriate content and methodology for preschool age children. This course will provide students with a foundation for understanding the developmental processes occurring during the preschool years and an introduction to teaching and learning in preschool which includes the importance of play, guidance of young children, designing quality environments and authentic documentation and assessment. A minimum of 38 field hours will be required along with field-based assignments. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their field site before beginning their field experience. Some sites may also require a clearance packet with designated trainings.
Pre/corequisite: ECED 10120 and EYEC 10121 and ECED 20101 and EYEC 21010.
Corequisite: EYEC 21005 and EYEC 22130.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EYEC 22130 EMERGING LITERACIES 3 Credit Hours
(Equivalent to ECED 30201) This course engages students in an examination of the process of language and literacy development in preschool children. The course will focus on how early childhood teachers integrate knowledge of child development with early literacy learning in the home and school environments and valuing the cultural and linguistic diversity of each child. There are field based assignments in this course with a minimum of 22 required field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their field site before beginning their field experience. Some sites may also require a clearance packet of related information and additional trainings.
Pre/corequisite: ECED 10120 and EYEC 10121 and ECED 20101 and EYEC 21010.
Corequisite: EYEC 21005 and EYEC 22000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EYEC 22140 PRESCHOOL SEMINAR: SUPPORTING A CULTURALLY SUSTAINING PEDAGOGY (ELR) 2 Credit Hours
(Equivalent to ECED 30205 and ECED 40165) This course provides a reflective approach to make student teaching experience more valuable. Students develop and implement developmentally appropriate curriculum that supports the cultural and linguistic diversity of the children at their preschool site. The course content will serve to extend, deepen, and integrate the individual student's knowledge, attitudes, and skills related to the preschool competencies. There are field-based assignments in the course. This course is taken along with EYEC 22192 which requires a minimum of 180 field hours at an assigned preschool site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their field site before beginning their field experience. Some sites may also require a clearance packet of related information and trainings. Both the seminar and the field experience must be successfully completed in order to move ahead into the advanced studies portion of the BSE Early Childhood Education Program. The seminar is constructed around the following Teacher Education Competencies: Inquiry cycle – observation/documentation/assessment, knowledge of child growth and development – typical and atypical, ecological systems perspectives regarding family and family/professional collaboration, planning for student learning, curriculum, instruction - teaching in the classroom, professional accountability and responsibility - developing professional skills during student teaching and advocacy for the child.
Prerequisite: ECED 10120 and ECED 20101 and EYEC 10121 and EYEC 10192 and EYEC 21005 and EYEC 22130 and EYEC 20192.
Pre/corequisite: EYEC 22000 and EYEC 21010 and ECED 30202.
Corequisite: EYEC 22192; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EYEC 22192 PRESCHOOL STUDENT TEACHING (ELR) 2 Credit Hours
(Equivalent to ECED 20192) This course provides students the opportunity to apply the content and pedagogy they have learned during the Associate of Applied Science (AAS) program as it related to early childhood education. Students will spend a minimum of 180 hours at an approved preschool program under the supervision of a program faculty member or supervising teacher. Students must successfully complete their field experience and related course assignments in order to continue on to the advanced studies portion of the BSE/ECED program. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks are required with the results being submitted to authorized personnel at their field site before beginning their field experience in which student teaching will take place. Some preschool field sites may require additional trainings.
Prerequisite: Minimum C grade in ECED 10120 and ECED 20101 and EYEC 10121 and EYEC 20192 and EYEC 21005.
Pre/corequisite: ECED 30202 and EYEC 22000 and EYEC 22130 and EYEC 21010.
Corequisite: EYEC 22140; and special approval.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

Earth Science (ESCI)

ESCI 11040 HOW THE EARTH WORKS (KBS) 3 Credit Hours
Explores processes that shape Earth's landscapes (e.g., volcanism, flooding, landslides, sea-level rise, mountain building) and that are of vital interest to humans (e.g., earthquakes, groundwater, energy and mineral resources, climate change).
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

ESCI 11041 HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) 1 Credit Hour
Students study earth materials (e.g., mineral crystals, common and unusual rock specimens) and Google Earth images. Students conduct experiments demonstrating processes at earth's surface such as groundwater pollution, flooding and earthquakes.
Pre/corequisite: ESCI 11040.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences, TAG Natural Science Lab

ESCI 11042 EARTH AND LIFE THROUGH TIME (KBS) 3 Credit Hours
Explores major events in the history of Earth, including mass extinctions, Snowball Earth hypothesis, birth and death of oceans, growth of continents, explosion of life, dinosaurs and the inter-relatedness of earth and life processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

ESCI 11043 EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB) 1 Credit Hour
Students conduct lab experiments involving fossils, rocks and sedimentary features, a river process simulator and the concept of deep time.
Pre/corequisite: ESCI 11042.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences, TAG Natural Science Lab

ESCI 21062 ENVIRONMENTAL EARTH SCIENCE (KBS) 3 Credit Hours
Application of Earth science to environmental problems, including natural resource extraction, water supply, pollution, waste disposal, landslides, floods and land use planning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

ESCI 21080 ALL ABOUT THE OCEANS (KBS) 3 Credit Hours
Explores the many fascinating (and some still little known) features and processes of the Earth's oceans, including mid-ocean ridges, hydrothermal vents, tsunamis, tides, rogue waves, marine life and the role of the ocean in climate change.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

ESCI 22000 DEGREE AND CAREER PATHS IN EARTH SCIENCES (ELR) 1 Credit Hour
Provides students with an overview of career paths and opportunities in the Geology and Earth Science majors. Components of the course include a journal club; informational presentations by geoscientists in industry, government and academia; and skills training needed for the majors. Required overnight field trip.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ESCI 23063 EARTH MATERIALS I 4 Credit Hours
Occurrence, associations, characteristics, crystallography and crystal chemistry of common minerals. Laboratory identification emphasizing physical properties. Required field trip.
Prerequisite: ESCI 11041 or ESCI 11043.
Pre/corequisite: CHEM 10060.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Science

ESCI 31070 EARTH MATERIALS II (WIC) 4 Credit Hours
Occurrence and origin of igneous, sedimentary and metamorphic rocks. Laboratory identification, description and classification of hand specimens. Required field trip.
Prerequisite: ESCI 23063.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ESCI 31080 STRUCTURAL GEOLOGY 4 Credit Hours
Mechanical principles of rock deformation. Structures in sedimentary igneous and metamorphic rocks. Required field trip.
Prerequisite: ESCI 11041 or ESCI 11043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 32066 GEOMORPHOLOGY 4 Credit Hours
Earth's surface features as functions of geological structures, processes and time. Landform analysis using topographic maps and some stereographic aerial photos. Trigonometry recommended.
Prerequisite: ESCI 11041 or ESCI 11043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 33025 WATER AND THE ENVIRONMENT 3 Credit Hours
How water moves on the surface and in the subsurface, with an emphasis on societal issues such as pollution, the conservation and management of water resources, and the impacts of environmental change.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 34061 PRINCIPLES OF PALEONTOLOGY 4 Credit Hours
Concepts applied to study of commonly preserved invertebrate organisms; identification of common North American fossils. Required field trip.
Prerequisite: BSCI 10002 or BSCI 10110 or ESCI 11043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 40095 SELECTED TOPICS IN EARTH SCIENCES 1-3 Credit Hours
(Slashed with ESCI 50095) (Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ESCI 40096 INDIVIDUAL INVESTIGATION IN EARTH SCIENCES 1-3 Credit Hours
(Repeatable for credit) Directed field, laboratory and/or library research. Written report required. Maximum 3 credit hours applied toward bachelor's degree.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ESCI 40380 BIOGEOCHEMISTRY 3 Credit Hours
(Cross-listed with BSCI 40380)(Slashed with BSCI 50380, BSCI 70380 and ESCI 50380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Minimum C grade in the following courses: (BSCI 10110 and BSCI 10120) or (ESCI 11041 or ESCI 11043); and CHEM 10060 and CHEM 10062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41025 GENERAL GEOPHYSICS 3 Credit Hours
(Slashed with ESCI 51025) Course explores how di#erent geophysical signals are generated by, or propagate through, the Earth, and how geophysical data is collected, processed and interpreted in order to answer questions about the Earth's interior. Techniques covered include seismic reflection, seismic refraction, gravity and magnetism. Strong emphasis on worked examples and case studies.
Prerequisite: ESCI 31080 and MATH 12002; and PHY 13001 or PHY 23101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41073 GEOLOGY OF OHIO 3 Credit Hours
(Slashed with ESCI 51073) Minerals, rocks, fossils, structural geology, physiography, environmental geology and geologic resources. Required field trips. Does not count toward the Geology major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41077 GEOLOGY OF THE NATIONAL PARKS 3 Credit Hours
(Slashed with ESCI 51077) Introduction to the geology of selected major national parks, emphasizing basic geological principles and the processes that have produced the spectacular scenery, rocks and fossils in each park. Does not count toward the Geology major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41079 ALL ABOUT DINOSAURS 3 Credit Hours
Dinosaurs (and some relatives) and their world, emphasizing how to interpret evidence concerning their history, biology and evolutionary relationships. Does not count toward the Geology major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41080 TECTONICS AND OROGENY 3 Credit Hours
(Slashed with ESCI 51080) This course examines the forces that drive plate motions and mountain building, techniques for reconstructing those motions over a range of timescales, and how the lithosphere deforms and drives rock creation and destruction at plate boundaries, particularly in the Western United States and the Appalachians. Required field trip to the Appalachians.
Prerequisite: ESCI 31080.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41085 MASS EXTINCTIONS: CAUSES AND CONSEQUENCES 3 Credit Hours
Investigation of the causes and consequences of extinction in marine and terrestrial ecosystems using paleontological, geochemical, sedimentological and stratigraphical information; emphasizing an Earth System Science approach to the Big Five mass extinctions as well as the possible sixth extinction occurring now.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41092 SUMMER FIELD CAMP (ELR) 6 Credit Hours
(Repeatable for credit) (Slashed with ESCI 51092) Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in the Black Hills of South Dakota.
Prerequisite: ESCI 31070 and ESCI 31080.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ESCI 42030 REMOTE SENSING 3 Credit Hours
(Cross-listed with GEOG 49230, GEOG 59230, GEOG 79230) (Slashed with ESCI 52030, ESCI 72030) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 42035 DATA ANALYSIS IN THE EARTH SCIENCES 3 Credit Hours
(Slashed with ESCI 52035) Application of scientific methods to geologic data in the field and laboratory, including methods for collection, analysis, modelling and presentation of data, within the framework of formulation and testing of scientific hypotheses. Provides the background necessary for upper-division earth science courses.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 42036 PHYSICAL HYDROGEOLOGY LABORATORY 1 Credit Hour
(Slashed with ESCI 52036) Laboratory course offering fundamental training for professional hydrogeologists in field, laboratory and analytical techniques. Required weekend field trip.
Prerequisite: Junior standing.
Corequisite: ESCI 42066.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ESCI 42060 EARTH OBSERVING 3 Credit Hours
(Slashed with ESCI 52060 and ESCI 72060) Students are introduced to visible, thermal and LiDAR remote sensing methods. Visible and near infrared multispectral and hyperspectral data sets are used for a wide variety of research including land use change, water quality research and agricultural remote and proximal sensing. Thermal remote sensing can be used to characterize surface temperature changes, earth materials and thermal stresses on plants. LiDAR provides the ability to measure variations in surface topography and can "see" through clouds and jungle canopy and even penetrate aquatic environments to measure algal biomass and suspended sediment. Remote sensing is the use of instrumentation to obtain spectral and spatial information about an object or surface without direct contact. All matter interacts with electromagnetic energy through thermal emittance, absorption, transmittance, reflectance and/or scattering. Different materials have distinct electromagnetic signatures depending on their composition, structure and the nature of the energy with which the material is interacting. This course focuses primarily on multispectral and hyperspectral visible remote sensing, but the field of remote sensing makes use of information throughout the electromagnetic spectrum to sense the environment around us. Note that most of the data sets that are examined and analyzed in this course are multispectral Landsat images. Students are encouraged to explore various topics or geographic regions for their class project. It is recommended that students take an introductory GIS class prior to enrollment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 42065 WATERSHED HYDROLOGY 3 Credit Hours
(Slashed with ESCI 52065) Watershed hydrology is the study of water movement, storage and transformation across landscapes. Course covers such basic questions like: "Where does water go when it rains?" and "What pathways does water take to the stream channel?". Students examine the processes of precipitation, evapotranspiration, infiltration, streamflow generation and streamflow. They learn about how they are measured, how to analyze the data and how these hydrologic processes are regulated by landscape characteristics, human activities and climate dynamics.
Prerequisite: MATH 11022 and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 42066 PHYSICAL HYDROGEOLOGY 3 Credit Hours
(Slashed with ESCI 52066) Principles of water flow in hydrologic cycle, soil and aquifer hydraulic properties, groundwater flow, surface water–groundwater interactions and geochemical evolution of groundwater. Application of principles for evaluation of water resources; emphasizing utilization, conservation and management of groundwater resources in a changing environment.
Prerequisite: MATH 12002 or any higher level MATH course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 42068 CONTAMINANT HYDROLOGY AND HYDROGEOLOGY 3 Credit Hours
(Slashed with ESCI 52068) An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems.
Prerequisite: MATH 12002 or any higher level MATH course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43001 WICKED PROBLEMS: TACKLING GLOBAL ISSUES IN THE 21ST CENTURY 3 Credit Hours
(Cross-listed with GEOG 43070 and POL 43001) This course provides an overview and analysis of the United Nations Sustainable Development Goals (SDG), as well as strategies that can be used for tackling them. The SDGs address the most serious problems faced by humankind today. These include poverty, hunger, inequality, climate change, economic development and environmental sustainability. A key characteristic of the SDGs is that they are known as "wicked problems." Wicked problems are complex issues that resist conventional approaches to problem solving, and for which existing solutions often create unintended consequences that only make the original problem worse. Emphasis is placed on problems of collective action, evidence-based public policies and interdisciplinary approaches to addressing global issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43040 PRINCIPLES OF GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 53040) Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the Earth and laws governing these distributions.
Prerequisite: CHEM 10060 and CHEM 10061 and ESCI 31070 and MATH 12002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 53042 and ESCI 73042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.
Prerequisite: CHEM 10060 and CHEM 10061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43043 ENVIRONMENTAL MINERALOGY 3 Credit Hours
(Slashed with ESCI 53043) Explores reactions between minerals and aqueous solutions, focusing on their role in chemical weathering, contaminant mobility, microbe-mineral interactions and an understanding of mineral-water interface processes and mechanisms at the molecular level. Through a series of case studies, the course explores the societal impacts of environmental contaminants and the potential role of remediation.
Prerequisite: ESCI 23063.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43044 ENVIRONMENTAL ISOTOPES 3 Credit Hours
(Slashed with ESCI 53044 and ESCI 73044) Stable isotope geochemistry can be used as a tool to explore a wide array of processes across the Earth and environmental sciences. Course begins by focusing on traditional applications of oxygen, hydrogen, carbon and sulfur stable isotopes to understand the water and carbon cycles. Subsequently, students are introduced to emerging stable isotope techniques and non-traditional stable isotope systems. Lectures are supplemented with exercises that incorporate real data and discussions based on the recent scientific literature.
Prerequisite: CHEM 10060 and CHEM 10061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43500 ENVIRONMENTAL SOIL SCIENCE 3 Credit Hours
(Slashed with ESCI 53500) Soil is a critical natural resource that sustains human life. In this course, students explore the geochemical composition of soils and the physical, biological and chemical processes involved in rock weathering, soil formation and the environmental transport of nutrients and toxic elements.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 44025 GEOLOGIC HAZARDS AND DISASTERS 3 Credit Hours
(Slashed with ESCI 54025) Explores the geological processes that drive a broad range of different natural hazards (including earthquakes, volcanoes, landslides and floods), and how they interact with human behavior to produce geologic risks and disasters. Through discussion of historical and topical events, students focus on the dual challenges of combining uncertain and incomplete information from various geological and historical sources into realistic assessments of future risks; and the communication of accurate, relevant, actionable information about these risks to the public and authorities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 44040 EARTH'S ENERGY TRANSITION 3 Credit Hours
(Slashed with ESCI 54040 and ESCI 74040) Society is faced with a growing climate crisis but has most of the tools and technological knowhow needed to address the problems. This class explores mitigation and adaptation approaches necessary for a successful energy transformation by assessing Earth energy sources from a systems perspective.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ESCI 44070 SEDIMENTOLOGY AND STRATIGRAPHY 4 Credit Hours
(Slashed with ESCI 54070) Course explores the processes that control the production, transport, deposition and alteration of sediments. Students learn how to reconstruct past environments, ranging from mountain streams to the deep ocean, based on the physical and geochemical characteristics of sedimentary rocks. Techniques to document and interpret spatial patterns in sediment deposition are covered and tied into various modern-day challenges, such as climate and sea level change. Lectures are integrated with in-class activities, examples from cutting-edge research, laboratory exercises and a field trip.
Pre/corequisite: ESCI 31070.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 44072 MARINE PROCESSES 3 Credit Hours
(Slashed with ESCI 54072) This course is an exploration of the mechanisms (geological, physical, chemical and biological) through which the ocean operates, and how it influences climate on seasonal, inter-annual, glacial-interglacial and over deep time. Emphasis is placed on understanding the relative importance of these processes and how they have varied through time, and the potential outcomes of human-induced changes to these processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 44074 PALEOCEANOGRAPHY 3 Credit Hours
(Slashed with ESCI 54074) A broad spectrum of geological approaches, including paleontology, geochemistry and stratigraphy, are employed to interpret the history of the Earth's oceans.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 50095 SELECTED TOPICS IN EARTH SCIENCES 1-3 Credit Hours
(Slashed with ESCI 40095)(Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ESCI 50380 BIOGEOCHEMISTRY 3 Credit Hours
(Cross-listed with BSCI 50380)(Slashed with BSCI 40380, BSCI 70380 and ESCI 40380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51025 GENERAL GEOPHYSICS 3 Credit Hours
(Slashed with ESCI 41025) This course will explore how di#erent geophysical signals are generated by, or propagate through, the Earth, and how geophysical data is collected, processed and interpreted in order to answer questions about the Earth's interior. Techniques covered include seismic reflection, seismic refraction, gravity, and magnetism. There will be a strong emphasis on worked examples and case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51073 GEOLOGY OF OHIO 3 Credit Hours
(Slashed with ESCI 41073) Minerals, rocks, fossils, structural geology, physiography, environmental geology and geologic resources. Required field trips. Does not count toward the Geology major.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51077 GEOLOGY OF THE NATIONAL PARKS 3 Credit Hours
(Slashed with ESCI 41077) Introduction to the geology of selected major national parks, emphasizing basic geological principles and the processes that have produced the spectacular scenery, rocks and fossils in each park. Does not count toward the Geology major.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51080 TECTONICS AND OROGENY 3 Credit Hours
(Slashed with ESCI 41080) This course examines the forces that drive plate motions and mountain building, techniques for reconstructing those motions over a range of timescales, and how the lithosphere deforms and drives rock creation and destruction at plate boundaries, particularly in the Western United States and the Appalachians. Required field trip to the Appalachians.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51092 SUMMER FIELD CAMP 6 Credit Hours
(Repeatable for credit) (Slashed with ESCI 41092) Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in the Black Hills of South Dakota.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

ESCI 52030 REMOTE SENSING 3 Credit Hours
(Cross-listed with GEOG 59230) (Slashed with ESCI 42030, ESCI 72030, GEOG 49230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 52035 DATA ANALYSIS IN THE EARTH SCIENCES 3 Credit Hours
(Slashed with ESCI 42035) Application of scientific methods to geologic data in the field and laboratory, including methods for collection, analysis, modelling and presentation of data, within the framework of formulation and testing of scientific hypotheses. Provides the background necessary for upper-division earth science courses.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 52036 PHYSICAL HYDROGEOLOGY LABORATORY 1 Credit Hour
(Slashed with ESCI 42036) Laboratory course offering fundamental training for professional hydrogeologists. Required weekend field trip.
Prerequisite: Graduate standing.
Corequisite: ESCI 52066.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ESCI 52060 EARTH OBSERVING 3 Credit Hours
(Slashed with ESCI 42060 and ESCI 72060) Students are introduced to visible, thermal and LiDAR remote sensing methods. Visible and near infrared multispectral and hyperspectral data sets are used for a wide variety of research including land use change, water quality research and agricultural remote and proximal sensing. Thermal remote sensing can be used to characterize surface temperature changes, earth materials and thermal stresses on plants. LiDAR provides the ability to measure variations in surface topography and can "see" through clouds and jungle canopy and even penetrate aquatic environments to measure algal biomass and suspended sediment. Remote sensing is the use of instrumentation to obtain spectral and spatial information about an object or surface without direct contact. All matter interacts with electromagnetic energy through thermal emittance, absorption, transmittance, reflectance and/or scattering. Different materials have distinct electromagnetic signatures depending on their composition, structure and the nature of the energy with which the material is interacting. This course focuses primarily on multispectral and hyperspectral visible remote sensing, but the field of remote sensing makes use of information throughout the electromagnetic spectrum to sense the environment around us. Note that most of the data sets that are examined and analyzed in this course are multispectral Landsat images. Students are encouraged to explore various topics or geographic regions for their class project. It is recommended that students take an introductory GIS class prior to enrollment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 52065 WATERSHED HYDROLOGY 3 Credit Hours
(Slashed with ESCI 42065) Watershed hydrology is the study of water movement, storage and transformation across landscapes. This course will answer basic questions like: "Where does water go when it rains?" and "What pathways does water take to the stream channel?". Students will examine the processes of precipitation, evapotranspiration, infiltration, streamflow generation, and streamflow. They will learn about how they are measured, how to analyze the data, and how these hydrologic processes are regulated by landscape characteristics, human activities and climate dynamics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 52066 PHYSICAL HYDROGEOLOGY 3 Credit Hours
(Slashed with ESCI 42066) Principles of water flow in hydrologic cycle, soil and aquifer hydraulic properties, groundwater flow, surface water–groundwater interactions and geochemical evolution of groundwater. Application of principles for evaluation of water resources; emphasizing utilization, conservation and management of groundwater resources in a changing environment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 52068 CONTAMINANT HYDROLOGY AND HYDROGEOLOGY 3 Credit Hours
(Slashed with ESCI 42068) An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53040 PRINCIPLES OF GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 43040) Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the Earth and laws governing these distributions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 43042 and ESCI 73042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53043 ENVIRONMENTAL MINERALOGY 3 Credit Hours
(Slashed with ESCI 43043) Explores reactions between minerals and aqueous solutions, focusing on their role in chemical weathering, contaminant mobility, microbe-mineral interactions and an understanding of mineral-water interface processes and mechanisms at the molecular level. Through a series of case studies, the course explores the societal impacts of environmental contaminants and the potential role of remediation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53044 ENVIRONMENTAL ISOTOPES 3 Credit Hours
(Slashed with ESCI 43044 and ESCI 73044) Stable isotope geochemistry can be used as a tool to explore a wide array of processes across the Earth and Environmental Sciences. This course will begin by focusing on traditional applications of oxygen, hydrogen, carbon, and sulfur stable isotopes to understand the water and carbon cycles. Subsequently, students will be introduced to emerging stable isotope techniques and non-traditional stable isotope systems. Lectures will be supplemented with exercises that incorporate real data and discussions based on the recent scientific literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53500 ENVIRONMENTAL SOIL SCIENCE 3 Credit Hours
(Slashed with ESCI 43500) Soil is a critical natural resource that sustains human life. In this course, students explore the geochemical composition of soils and the physical, biological and chemical processes involved in rock weathering, soil formation and the environmental transport of nutrients and toxic elements.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 54025 GEOLOGIC HAZARDS AND DISASTERS 3 Credit Hours
(Slashed with ESCI 44025) Explores the geologic processes that drive a broad range of different natural hazards (including earthquakes, volcanoes, landslides and floods), and how they interact with human behavior to produce geological risks and disasters. Through discussion of historical and topical events, students focus on the dual challenges of combining uncertain and incomplete information from various geological and historical sources into realistic assessments of future risks; and the communication of accurate, relevant, actionable information about these risks to the public and authorities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 54040 EARTH'S ENERGY TRANSITION 3 Credit Hours
(Slashed with ESCI 44040 and ESCI 74040) Society is faced with a growing climate crisis but has most of the tools and technological knowhow needed to address the problems. This class explores mitigation and adaptation approaches necessary for a successful energy transformation by assessing Earth energy sources from a systems perspective.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ESCI 54070 SEDIMENTOLOGY AND STRATIGRAPHY 4 Credit Hours
(Slashed with ESCI 44070) This course explores the processes that control the production, transport, deposition, and alteration of sediments. Students will learn how to reconstruct past environments ranging from mountain streams to the deep ocean based on the physical and geochemical characteristics of sedimentary rocks. Techniques to document and interpret spatial patterns in sediment deposition will be covered and tied into various modern day challenges, such as climate and sea level change. Lectures are integrated with in-class activities, examples from cutting-edge research, laboratory exercises and a fieldtrip.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab, 1 other
Grade Mode: Standard Letter

ESCI 54072 MARINE PROCESSES 3 Credit Hours
(Slashed with ESCI 44072) This course is an exploration of the mechanisms (geological, physical, chemical and biological) through which the ocean operates, and how it influences climate on seasonal, inter-annual, glacial-interglacial and over deep time. Emphasis is placed on understanding the relative importance of these processes and how they have varied through time, and the potential outcomes of human-induced changes to these processes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 54074 PALEOCEANOGRAPHY 3 Credit Hours
(Slashed with ESCI 44074) A broad spectrum of geological approaches, including paleontology, geochemistry and stratigraphy, are employed to interpret the history of the Earth's oceans.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 60084 GEOLOGY GRADUATE STUDENT ORIENTATION 1 Credit Hour
(Slashed with ESCI 70084) Introduction to departmental resources, procedures and expectations, as well as approaches to successfully conduct research at a graduate level. Training and experience in presentation of data and college teaching of applied geology, as well as a discussion forum on professional ethics and responsibilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

ESCI 60085 DATA ANALYSIS AND PRESENTATION 1 Credit Hour
This course focuses on the skills and issues surrounding data production and analysis in the earth sciences. It provides students the opportunity to familiarize themselves with strategies for managing and presenting data that they generate as part of their graduate studies. The course requires a commitment to regular readings and discussions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ESCI 60086 FIELD METHODS IN THE EARTH SCIENCES 1 Credit Hour
This course focuses on the skills necessary for sample and data collection in the field. Additionally, it provides strategies for successfully leading safe, inclusive field work both within academia and other career sectors. The course requires a commitment to weekly readings and discussions.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

ESCI 60087 WRITING IN THE EARTH SCIENCES 1 Credit Hour
(Slashed with ESCI 70087) Focuses on the strategies for achieving regular and productive academic writing and the craft of writing for the scientific literature. The course is designed for students who have a major writing project that will take most or all of the semester, such as a dissertation, thesis or dissertation proposal. The course requires commitment to weekly writing progress and provides weekly opportunities for peer review and peer support.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ESCI 60091 SEMINAR 1-2 Credit Hours
(Repeatable for credit)(Slashed with ESCI 70091) Topics in geology and earth science; varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-2 other
Grade Mode: Standard Letter

ESCI 60095 SELECTED TOPICS IN EARTH SCIENCES 1-3 Credit Hours
(Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ESCI 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's level students. Credits earned may be applied toward degree if department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ESCI 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 60391 GEOCHEMINAR 1 Credit Hour
(Repeatable for credit) In this course, students gain understanding of advanced techniques in geochemistry by presenting information from primary literature and discussing data processing and analysis of their research.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

ESCI 70084 GEOLOGY GRADUATE STUDENT ORIENTATION 1 Credit Hour
(Slashed with ESCI 60084) Introduction to departmental resources, procedures and expectations, as well as approaches to successfully conduct research at a graduate level. Training and experience in presentation of data and college teaching of applied geology, as well as discussion forum on professional ethics and responsibilities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

ESCI 70087 WRITING IN THE EARTH SCIENCES 1 Credit Hour
(Slashed with ESCI 60087) Focuses on the strategies for achieving regular and productive academic writing and the craft of writing for the scientific literature. The course is designed for students who have a major writing project that will take most or all of the semester, such as a dissertation, thesis or dissertation proposal. The course requires commitment to weekly writing progress and provides weekly opportunities for peer review and peer support.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ESCI 70091 SEMINAR 1-2 Credit Hours
(Repeatable for credit)(Slashed with ESCI 60091) Topics in geology and earth science; varies per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-2 other
Grade Mode: Standard Letter

ESCI 72030 REMOTE SENSING 3 Credit Hours
(Cross-listed with GEOG 79230) (Slashed with ESCI 42030, ESCI 52030, GEOG 49230, GEOG 59230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 72060 EARTH OBSERVING 3 Credit Hours
(Slashed with ESCI 42060 and ESCI 52060) Students are introduced to visible, thermal and LiDAR remote sensing methods. Visible and near infrared multispectral and hyperspectral data sets are used for a wide variety of research including land use change, water quality research and agricultural remote and proximal sensing. Thermal remote sensing can be used to characterize surface temperature changes, earth materials and thermal stresses on plants. LiDAR provides the ability to measure variations in surface topography and can “see” through clouds and jungle canopy and even penetrate aquatic environments to measure algal biomass and suspended sediment. Remote sensing is the use of instrumentation to obtain spectral and spatial information about an object or surface without direct contact. All matter interacts with electromagnetic energy through thermal emittance, absorption, transmittance, reflectance and/or scattering. Different materials have distinct electromagnetic signatures depending on their composition, structure and the nature of the energy with which the material is interacting. This course focuses primarily on multispectral and hyperspectral visible remote sensing, but the field of remote sensing makes use of information throughout the electromagnetic spectrum to sense the environment around us. Note that most of the data sets that are examined and analyzed in this course are multispectral Landsat images. Students are encouraged to explore various topics or geographic regions for their class project. It is recommended that students take an introductory GIS class prior to enrollment.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 73042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 43042 and ESCI 53042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 73044 ENVIRONMENTAL ISOTOPES 3 Credit Hours
(Slashed with ESCI 43044 and ESCI 53044) Stable isotope geochemistry can be used as a tool to explore a wide array of processes across the Earth and Environmental Sciences. This course will begin by focusing on traditional applications of oxygen, hydrogen, carbon, and sulfur stable isotopes to understand the water and carbon cycles. Subsequently, students will be introduced to emerging stable isotope techniques and non-traditional stable isotope systems. Lectures will be supplemented with exercises that incorporate real data and discussions based on the recent scientific literature.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 74040 EARTH'S ENERGY TRANSITION 3 Credit Hours
(Slashed with ESCI 44040 and ESCI 54040) Society is faced with a growing climate crisis but has most of the tools and technological knowhow needed to address the problems. This class explores mitigation and adaptation approaches necessary for a successful energy transformation by assessing Earth energy sources from a systems perspective.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ESCI 80095 ADVANCED TOPICS IN EARTH SCIENCES 1-3 Credit Hours
(Repeatable for credit) Advanced topics presented by visiting professors or one-time offerings presented by regular faculty.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ESCI 80098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree with departmental approval.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Admission to candidacy for doctoral degree; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration is required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met.
Prerequisite: ESCI 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Economics (ECON)

ECON 12060 PERSONAL FINANCE 3 Credit Hours
Examines economic issues and problems of everyday life. Goal is to enable individuals to analyze their personal finances in order to learn how to get the most out of their income, increase income through a better understanding of possible investments, and protect what they have through selecting appropriate insurance. Topics covered include budgeting and financial planning, federal income taxes, insurance, borrowing, and investment principles and strategies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Personal Finance

ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS) 3 Credit Hours
Course discusses decision-making by buyers, sellers, and governments and how their interaction affects market determination of prices. Students compare outcomes and firm decisions in different market structures. Students develop tools to examine social problems such as poverty, crime, pollution and international relations, as well as make better decisions in their own lives.
Prerequisite: Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade or any higher level MATH course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS) 3 Credit Hours
Principles and policies affecting aggregate production, consumption, investment and government expenditures. Includes role of money, the banking system, inflation, unemployment and economic growth.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

ECON 32025 MONEY, CREDIT AND BANKING 3 Credit Hours
Organization of our money, credit and banking system principles and problems of monetary policy.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32040 INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS 3 Credit Hours
The study of individual choices under conditions of relative scarcity, and their consequences for prices and the allocation of resources in the economic system. Develops the analytical and theoretical tools pertinent in determining how scarce resources are allocated among competing wants and demonstrates how these tools are used in real world applications.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32041 INTERMEDIATE MACROECONOMIC THEORY AND POLICY 3 Credit Hours
This course analyzes key drivers of an economy's GDP, consumption, investment and interest rates. The class will examine economic growth and how it can be impacted by public policy. Students will understand the uses and limitations of a macroeconomic model and will be exposed to the two main schools of thought in macroeconomics. National and international data will be used to better understand these concepts.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32050 APPLIED ECONOMETRICS I (ELR) 3 Credit Hours
The course provides an introduction to the use of statistical analysis in economics. The initial part of the course reviews relevant concepts from probability and statistics. The second course segment focuses on linear regression analysis and the properties of regression estimators. The final course segment discusses extensions of the linear model, and considers problems that may arise in application including omitted variables, nonlinearity, measurement error, sample selection, heteroscedasticity and causality. The SAS statistical software package is used throughout the course for data analysis. Over the second half of the course, students complete an empirical project which requires students to connect the course concepts to the analysis of an economic policy question in a real world data set.
Prerequisite: MATH 11012 or MATH 12002; and ECON 22060; and BA 24056 or MATH 10041 or MATH 20011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ECON 32051 APPLIED ECONOMETRICS II 3 Credit Hours
The course provides a continuation of Applied Econometrics I, extending the basic linear regression models to more advanced models using cross-sectional, panel or time series data. The initial part of the course focuses on models for discrete and limited dependent variables. The second course segment addresses estimation methods for panel data. The final course segment provides an overview of time series estimation with an emphasis on forecasting in economic data.
Prerequisite: ECON 32050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32082 INTRODUCTION TO MANAGERIAL ECONOMICS 3 Credit Hours
Combines economic theory and quantitative analysis to develop resource-allocation decision-making skills which enable managers to evaluate problems, identify possible solutions and finally implement and monitor the best alternative to accomplish their stated objectives. Covers such topics as supply and demand, consumer theory, production, costs, contracts, game theory, principal-agent problems, and the basic economic models of perfect competition, oligopoly,monopolistic, competition and monopoly. Cannot be taken by economics majors. Not open to students who have completed ECON 32040.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32083 THE ECONOMICS OF POVERTY (DIVD) 3 Credit Hours
Nature and causes of poverty in United States. Analysis of impact of poverty upon economy and study of measures both real and potential for alleviating it.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ECON 32084 ECONOMICS OF THE ENVIRONMENT 3 Credit Hours
Examines economic theory of environmental and resource economics in a fashion that is understandable by students with varied backgrounds in economics. Emphasis on microeconomic theory and its application to environmental issues. Topics covered include "market failure" and its impact on the environment; cost benefit analysis; and input-output analysis. Designed for those interested in the environment or who may be planning careers in environmental or natural sciences.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42050 DATA ACQUISITION, PREPARATION AND VISUALIZATION 3 Credit Hours
(Slashed with ECON 52050) Accessing and collecting data from existing sources (databases and raw data), transformation of raw data into formats that can be used for final analysis, techniques for presentation and visualization of data, predictive analytics using machine learning and cross validation. Students will perform some work in SAS but will also be introduced to the R statistical language.
Prerequisite: BA 24056 or MATH 10041 or MATH 20011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42065 PROBLEMS OF MONETARY AND FISCAL POLICY 3 Credit Hours
(Slashed with ECON 52065) Analysis of objectives, techniques and economic effects of monetary and fiscal policies.
Prerequisite: ECON 32041.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42066 ECONOMICS OF ENTREPRENEURSHIP 3 Credit Hours
(Slashed with ECON 52066) This course presents a wide-ranging overview of the place of economics in entrepreneurship, with a special focus on how economic research is conducted to study the determinants of entrepreneurship.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42068 INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY 3 Credit Hours
(Slashed with ECON 52068) Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy.
Prerequisite: ECON 32040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42070 GAME THEORY 3 Credit Hours
Introduction to game theory and its application to economics. Analysis of strategic behavior by economic agents using equilibrium concepts from non-cooperative game theory.
Prerequisite: ECON 22060 and ECON 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42072 LABOR ECONOMICS: WORK AND PAY 3 Credit Hours
(Slashed with ECON 52072) The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and growing wage inequality.
Prerequisite: ECON 32040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42075 INTERNATIONAL ECONOMIC RELATIONS 3 Credit Hours
(Slashed with ECON 52075) Principles, problems and policies of international economic relations with extensive references to the United States, Western Europe, Latin America and former communist countries. Covers international aspects of interdependency, cooperation and multinational institutions.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42076 ECONOMIC DEVELOPMENT 3 Credit Hours
(Slashed with ECON 52076) Analysis of nature of significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42079 EUROPEAN ECONOMIC ISSUES 3 Credit Hours
(Slashed with ECON 52079) This course examines current economic issues in the European Union, including the monetary union and Euro, unemployment, immigration, health care, social security, poverty and inequality, and plans for expansion. The historical development and structure of the EU will also be covered and the role of cultural influences will be explored. In some semesters the course includes a required trip to visit European institutions over the Spring Break, at an additional fee.
Prerequisite: ECON 22060 and ECON 22061; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42080 REGIONAL ECONOMICS 3 Credit Hours
(Slashed with ECON 52080) Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42081 URBAN ECONOMICS: CITIES AND HOUSING 3 Credit Hours
(Slashed with ECON 52081) This course is an introduction to the field of urban economics. Urban economics is the study of the location decisions of households and firms. We will explore why cities exist, why firms cluster together, why people live in cities, and other issues such as education, discrimination in housing, the housing crisis and crime. A heavy emphasis in this class will be placed on the study of housing markets, policy and neighborhood choice.
Prerequisite: ECON 22060 and ECON 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42085 PUBLIC ECONOMICS: GOVERNMENT AND POLICY 3 Credit Hours
(Slashed with ECON 52085) Examination of the role of government in the economy, including market failures, the efficiency and equity of taxation, government involvement in health care, education, and income distribution, and current government policy issues.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42086 ECONOMICS OF HEALTH CARE 3 Credit Hours
(Slashed with ECON 52086) This is a one-semester course on a topic of major policy interest, particularly given the current health care reform debate. It is impossible to turn on the news today and not hear a story about the health care industry. Health care accounts for almost 20 percent of all that is produced in the United States. In addition, it has been a major political issue in recent years. The overall objective of the course is to use concepts and tools of economics to understand and evaluate what has and is happening in the health care profession and current policies under consideration.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42189 INTERNATIONAL ECONOMIC EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Slashed with ECON 52189) Firsthand exposure to international economics. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: Economics major or minor; and junior standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ECON 42191 SENIOR SEMINAR IN ECONOMICS (WIC) 3 Credit Hours
This is the culminating requirement for students majoring in Economics. The purpose of the seminar is to critically apply economic principles to a variety of topics in a very interactive setting. Writing and revising will be an important component of the course.
Prerequisite: Minimum C- grade in ECON 32040, ECON 32041 and ECON 32050.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ECON 42291 VARIABLE CONTENT SEMINAR IN ECONOMICS 1-4 Credit Hours
(Repeatable for a maximum of 12 hours) (Slashed with ECON 52291) Various special seminars will be announced in the schedule of classes under this course number.
Prerequisite: Permission.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECON 42292 INTERNSHIP IN ECONOMICS (ELR) 3 Credit Hours
(Repeatable for credit) Supervised practical experience in economics. May count toward the economics major electives or as a business elective.
Prerequisite: At least two of the following courses: ECON 32040, ECON 32041 or ECON 32050; a minimum 2.250 overall GPA; and economics major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ECON 42293 VARIABLE TOPIC WORKSHOP IN ECONOMICS 1-6 Credit Hours
(Repeated registration permitted when topic varies; repeatable for a total of 18 hours) various special workshops will be announced in the schedule of classes under this course number.
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ECON 42295 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) (Slashed with ECON 52295) Various special topics will be announced in the schedule of classes under this course number.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42296 INDIVIDUAL INVESTIGATION IN ECONOMICS 1-3 Credit Hours
(Repeatable for credit)Independent study done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.
Prerequisite: Senior Economics major; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ECON 42298 RESEARCH IN ECONOMICS (ELR) 1-6 Credit Hours
(Repeatable for credit)Research project done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.
Prerequisite: Senior Economics major; and special approval.
Schedule Type: Research
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ECON 42299 SENIOR PROJECT (ELR) 1-3 Credit Hours
(Repeatable for credit) Thesis or independent study project done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.
Prerequisite: Senior economics major; and special approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ECON 52050 DATA ACQUISITION, PREPARATION AND VISUALIZATION 3 Credit Hours
(Slashed with ECON 42050) Accessing and collecting data from existing sources (databases and raw data), transformation of raw data into formats that can be used for final analysis, techniques for presentation and visualization of data, predictive analytics using machine learning and cross validation. Students will perform some work in SAS but will also be introduced to the R statistical language.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52065 PROBLEMS OF MONETARY AND FISCAL POLICY 3 Credit Hours
(Slashed with ECON 42065) Study of monetary and fiscal policy frameworks and the problems in conducting monetary and fiscal policies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52066 ECONOMICS OF ENTREPRENEURSHIP 3 Credit Hours
(Slashed with ECON 42066) This course presents a wide-ranging overview of the place of economics in entrepreneurship, with a special focus on how economic research is conduced to study the determinants of entrepreneurship.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52068 INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY 3 Credit Hours
(Slashed with ECON 42068) Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52072 LABOR ECONOMICS: WORK AND PAY 3 Credit Hours
(Slashed with ECON 42072) The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and growing wage inequality. For students that did not attend Kent State University for their undergraduate degree, please contact the department for approval.
Prerequisite: ECON 32040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52075 INTERNATIONAL ECONOMIC RELATIONS 3 Credit Hours
(Slashed with ECON 42075) Principles, problems and policies of international economic relations with extensive references to the United States, Western Europe, Latin America and former communist countries. Covers international aspects of interdependency, cooperation and multinational institutions.
Prerequisite: ECON 22060 and 22061; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52076 ECONOMIC DEVELOPMENT 3 Credit Hours
(Slashed with ECON 42076) Analysis of nature and significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52079 EUROPEAN ECONOMIC ISSUES 3 Credit Hours
(Slashed with ECON 42079) This course examines current economic issues in the European Issues, including the monetary union and Euro, unemployment, immigration, health care, social security, poverty and inequality, and plans for expansion. The historical development and structure of the EU are also covered and the role of cultural influences are explored. In some semesters the course includes a required trip to visit European institutions over the Spring Break, at an additional fee.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52080 REGIONAL ECONOMICS 3 Credit Hours
(Slashed with ECON 42080) Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52081 URBAN ECONOMICS: CITIES AND HOUSING 3 Credit Hours
(Slashed with ECON 42081) This course is an introduction to the field of urban economics. Urban economics is the study of the location decisions of households and firms. We will explore why cities exist, why firms cluster together, why people live in cities, and other issues such as education, discrimination in housing, the housing crisis, and crime. A heavy emphasis in this class will be placed on the study of housing markets, policy, and neighborhood choice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52085 PUBLIC ECONOMICS: GOVERNMENT AND POLICY 3 Credit Hours
(Slashed with ECON 42085) Examination of public expenditure and taxation policies including the theory of public goods, collective decision making, cost-benefit analysis, equity and efficiency aspects of taxation and current government policy issues.
Prerequisite: ECON 22060; and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52086 ECONOMICS OF HEALTH CARE 3 Credit Hours
(Slashed with ECON 42086) This is a one-semester course on a topic of major policy interest, particularly given the current health care reform debate. It is impossible to turn on the news today and not hear a story about the health care industry. Health care accounts for almost 20 percent of all that is produced in the United States. In addition, it has been a major political issue in recent years. The overall objective of the course is to use concepts and tools of economics to understand and evaluate what has and is happening in the health care profession and current policies under consideration.
Prerequisite: ECON 22060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52189 INTERNATIONAL ECONOMICS EXPERIENCE 3 Credit Hours
(Slashed with ECON 42189) Firsthand exposure to international economics. Includes pre-trip orientation sessions, visits to international business and organizations, and opportunities for cultural activities.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

ECON 52291 VARIABLE CONTENT SEMINAR IN ECONOMICS 1-4 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Slashed with ECON 42291) Various special seminars will be announced in the schedule of classes under this course number.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECON 52293 VARIABLE TOPIC WORKSHOP IN ECONOMICS 1-6 Credit Hours
(Repeatable for a maximum of 18 credit hours) Various special workshops will be announced in the schedule of classes under this course number.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ECON 52295 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) (Slashed with ECON 42295) Various special topics will be announced in the schedule of classes under this course number.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECON 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ECON 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECON 62010 SURVEY OF ECONOMICS 3 Credit Hours
Survey of basic economic concepts and methods of analysis of both micro- and macroeconomics. Emphasis is placed on the use and relevance of economic concepts and tools in business decision-making.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62015 ECONOMICS OF INFORMATION 3 Credit Hours
Introduction to microeconomic theory and decision-making and its applications to the information economy. Overview of the economics of information. Consumer behavior and production theory; the demand for information; information as a factor of production; information costs and pricing. Case studies in the information industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62021 MACROECONOMIC ENVIRONMENT OF BUSINESS 2 Credit Hours
(Slashed with ECON 72021) Analysis of forces determining economic growth, employment, inflation and global economic environment with emphasis on understanding the business cycle and government stabilization policies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECON 62022 MANAGERIAL ECONOMICS 2 Credit Hours
(Slashed with ECON 72022) Uses economic theory and quantitative methodologies to develop decision-making skills which enable managers of local, national and multinational companies to evaluate problems and allocate resources efficiently.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECON 62050 MICROECONOMIC THEORY I 3 Credit Hours
(Slashed with ECON 72050) Formal analysis of foundational models in microeconomics, including consumer and producer theory, an introduction to non-cooperative game theory, market equilibrium under various market structures and a discussion of market failures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62051 MACROECONOMIC THEORY I 3 Credit Hours
(Slashed with ECON 72051) Formal analysis of models in macroeconomics, including models of economic growth, business cycles, consumption, investment, and unemployment, with applications to the analysis of monetary and fiscal policies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62052 DATA ACQUISITION AND PREPARATION FOR ACADEMIC RESEARCH 3 Credit Hours
(Slashed with ECON 72052) Students will learn to access and collect data from existing sources (databases and raw data), prepare the data for further analysis, tabulate/visualize the summary statistics, and perform basic analysis using several different statistical software. The course is designed primarily to aid students with their academic research projects. Students will primarily learn Stata and SAS for data preparation and analysis and Python for scraping texts from various web sources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62054 ECONOMETRICS I 3 Credit Hours
(Slashed with ECON 72054) Introduction to problems and methods of the empirical estimation of economic relationships.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62055 ECONOMETRICS II 3 Credit Hours
(Slashed with ECON 72055) Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation.
Prerequisite: ECON 62054; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62056 TIME SERIES ANALYSIS 3 Credit Hours
(Slashed with ECON 72056) Covers various univariate and multivariate time series models, including autoregressive moving average (ARMA), general autoregressive conditional heteroskedasticity (GARCH), value at risk (VaR), vector autoregressive (VAR) and vector error correction model (VECM), etc. Students will gain hands-on experience with all models learned in the course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62061 MONETARY THEORY AND POLICY 3 Credit Hours
(Slashed with ECON 72061) A study of the nature and definition of money, its relationship to prices, output, employment, and interest rates and problems related to the conduct of monetary policy.
Prerequisite: ECON 62021; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62072 ECONOMICS OF LABOR MARKETS 3 Credit Hours
The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and wage inequality.
Prerequisite: ECON 32040 or ECON 62022; and ECON 62054; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62075 INTERNATIONAL TRADE 3 Credit Hours
(Slashed with ECON 72075) Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade and the effect of international trade on domestic policy.
Prerequisite: ECON 62021 and ECON 62022; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62076 INTERNATIONAL FINANCE 3 Credit Hours
(Slashed with ECON 72076) Formal analysis of models of international monetary relations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas and international capital flows.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62092 INTERNSHIP IN ECONOMICS 3 Credit Hours
(Repeatable for credit) Supervised practical experience in economics. Students must have a minimum 3.000 GPA in the economics major within the MAE degree and completed 4 courses from the MAE.
Prerequisite: Admitted to the Master of Arts in Economics program; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

ECON 62095 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours
(Repeatable 3 times for credit) Various special topics will be announced in the Schedule of Classes under this course number.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62096 INDEPENDENT STUDY 1-3 Credit Hours
(Repeatable for credit)Independent study on a particular project or sequence of subjects. Maximum of 6 semester hours of work may be earned in independent study although no more than 3 hours in any one semester.
Prerequisite: Graduation standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ECON 62098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research for master's students. May apply toward degree requirements if approved in advance by department.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

ECON 62180 REGIONAL ECONOMICS 3 Credit Hours
Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62199 THESIS I 2-6 Credit Hours
Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.
Prerequisite: Graduate standing and special approval of adviser.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECON 62299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ECON 62199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECON 64004 QUANTITATIVE METHODS IN BUSINESS ADMINISTRATION I 3 Credit Hours
(Slashed with ECON 74004) Covers the mathematical tools that are of central importance in economics in the context of economic examples. Topics include functions, matrix algebra, differential calculus, optimization, integration and dynamic analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72021 MACROECONOMIC ENVIRONMENT OF BUSINESS 2 Credit Hours
(Slashed with ECON 62021) Analysis of forces determining economic growth, employment, inflation and global economic environment with emphasis on understanding the business cycle and government stabilization policies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECON 72022 MANAGERIAL ECONOMICS 2 Credit Hours
(Slashed with ECON 62022) Uses economic theory and quantitative methodologies to develop decision-making skills which enable managers to evaluate problems and allocate resources efficiently.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECON 72050 MICROECONOMIC THEORY I 3 Credit Hours
(Slashed with ECON 62050) Formal analysis of foundational models in microeconomics, including consumer and producer theory, an introduction to non-cooperative game theory, market equilibrium under various market structures and a discussion of market failures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72051 MACROECONOMIC THEORY I 3 Credit Hours
(Slashed with ECON 62051) Formal analysis of models in macroeconomics, including models of economic growth, business cycles, consumption, investment, and unemployment, with applications to the analysis of monetary and fiscal policies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72052 DATA ACQUISITION AND PREPARATION FOR ACADEMIC RESEARCH 3 Credit Hours
(Slashed with ECON 62052) In this course, students will learn to access and collect data from existing sources (databases and raw data), prepare the data for further analysis, tabulate/visualize the summary statistics, and perform basic analysis using several different statistical software. The course is designed primarily to aid students with their academic research projects. Students will primarily learn Stata and SAS for data preparation and analysis and Python for scraping texts from various web sources.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72054 ECONOMETRICS I 3 Credit Hours
(Slashed with ECON 62054) Introduction to problems and methods of the empirical estimation of economic relationships.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72055 ECONOMETRICS II 3 Credit Hours
(Slashed with ECON 62055) Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation.
Prerequisite: ECON 62054; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72056 TIME SERIES ANALYSIS 3 Credit Hours
(Slashed with ECON 62056) Covers various univariate and multivariate time series models, including autoregressive moving average (ARMA), general autoregressive conditional heteroskedasticity (GARCH), value at risk (VaR), vector autoregressive(VAR) and vector error correction model (VECM), etc. Students will gain hands-on experience with all models learned in the course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72061 MONETARY THEORY AND POLICY 3 Credit Hours
(Slashed with ECON 62061) Study of money in promoting exchange, its relationship to prices, output, employment, interest rates and banking and issues related to the conduct of monetary policy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72075 INTERNATIONAL TRADE 3 Credit Hours
(Slashed with ECON 62075) Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade and the effect of international trade on domestic policy.
Prerequisite: ECON 62021 and ECON 62022; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72076 INTERNATIONAL FINANCE 3 Credit Hours
(Slashed with ECON 62076) Formal analysis of models of international monetary relations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas, and international capital flows.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72180 REGIONAL ECONOMICS 3 Credit Hours
Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 74004 QUANTITATIVE METHODS IN BUSINESS ADMINISTRATION I 3 Credit Hours
(Slashed with ECON 64004) Covers the mathematical tools that are of central importance in economics in the context of economic examples. Topics include functions, matrix algebra, differential calculus, optimization, integration and dynamic analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 82024 SEMINAR IN APPLIED ECONOMIC ANALYSIS 3 Credit Hours
Discussion and analysis of selected current economic problems confronting the economy and the business sector. Emphasis will be on applied analysis.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 82072 ECONOMICS OF LABOR MARKETS 3 Credit Hours
The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and wage inequality.
Prerequisite: ECON 32040 or ECON 62022; and ECON 62054; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Education, Health and Human Services (EHHS)

EHHS 10095 SPECIAL TOPICS IN EDUCATION, HEALTH AND HUMAN SERVICES 1-4 Credit Hours
(Repeatable for credit) Selected topics intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of faculty within the College of Education, Health and Human Services.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

EHHS 10729 ACHIEVING ACADEMIC SUCCESS 1 Credit Hour
The purpose of this course is to help students who are on academic probation to develop and apply critical thinking skills, and continue to clarify their purpose, meaning, and direction. The goal of this course is to help students improve their academic standing as quickly as possible.
Prerequisite: Any major in the College of Education, Health and Human Services (EHHS).
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

EHHS 12017 EXPLORING PROFESSIONAL LITERACY PRACTICES 3 Credit Hours
Students will explore and develop the literacy practices necessary for success in college and careers in education, health and human services.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHHS 20092 PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES (ELR) 1-12 Credit Hours
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-36 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EHHS 40092 PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES (ELR) 1-6 Credit Hours
Supervised work experiences that are integrated with academic instruction and related to student's occupational goal.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EHHS 49592 STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION (ELR) 10 Credit Hours
Full-time student teaching, which includes a balanced experience in elementary and secondary health and physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: School Health Education or Physical Education and Sport Performance majors; and admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 45 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EHHS 50092 PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES 1-6 Credit Hours
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EHHS 50093 VARIABLE TOPIC WORKSHOP IN EDUCATION, HEALTH AND HUMAN SERVICES 1-3 Credit Hours
(Repeatable for credit) Variable topics; designed to respond to specialized needs of various groups within the context of trends issues and problems in the area education, health and human services.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

EHHS 75001 SYSTEMS THINKING IN PERSONAL AND PROFESSIONAL LEADERSHIP 3 Credit Hours
The development of personal and professional leadership characteristics and traits through a self-examination and in-depth examination of the literature. Students will develop an understanding of the role leadership plays in complex systems through the application of systems thinking concepts. The course will focus on the importance of personal and professional leadership in systems thinking and organizational change.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHHS 75501 THEORY AND PRACTICE OF LEADERSHIP 3 Credit Hours
Theoretical perspectives on leadership as a foundation for effective practice in a range of educational settings. Contemporary, evidence-based research will support the integration and synthesis of leadership theory in practice. Leadership theory, myths, traits, models, strategies and assessment tools for leadership will be infused for a historical and comprehensive approach to leadership as an essential construct in education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHHS 75502 ETHICAL LEADERSHIP IN EDUCATION 3 Credit Hours
Education is constantly undergoing change and ethical leadership in uncertain times is paramount. This course will discuss ethical elements of educational leadership in all settings in a case approach to connect ethical leadership theory to educational practice. It will blend ethical theory, leadership theory and case-analysis in a critical thinking based framework to position educational leaders to grapple with the complexities of contemporary ethical issues. Political, cultural, societal, organizational, and other forces on education will be evaluated through an ethical lens.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHHS 75515 CONTEMPORARY ISSUES IN EDUCATIONAL LEADERSHIP DEVELOPMENT 3 Credit Hours
This course will address contemporary issues in educational leadership development through the critical analysis and application of relevant literature to everyday challenges faced in educational organizations. Due to the dynamic nature of the content, key issues are likely to change, but will focus on, but not be limited to, culture and diversity issues, activism and advocacy, strategic planning, systemic and global impacts, assessment, technology, and leadership behaviors. Contemporary, peer-reviewed literature will guide the student through reflective, analytical considerations for successfully addressing these challenges in educational leadership.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHHS 75516 GROUP DYNAMICS IN EDUCATIONAL LEADERSHIP 3 Credit Hours
This course will connect educational leadership group dynamics theory to practice. Providing a foundation through contemporary literature, educational leadership will be contextualized in the study, formation, facilitation and dynamics of group behavior. Educational leadership group dynamics will be situated in the complex and changing educational cultures of learning organizations.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHHS 75517 DEMOCRACY AND LEADERSHIP: PHILOSOPHIES AND PRACTICES FOR DEMOCRATIC EDUCATION. 3 Credit Hours
This course examines leadership philosophies and practices that support and promote various methodological approaches to democratic education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHHS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EHHS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: EHHS 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EHHS 81099 CAPSTONE I 1-9 Credit Hours
(Repeatable for credit) The capstone will operate as a "dissertation in practice," focusing on a problem of practice and using either action research or improvement science as a methodology. Students' research will be aligned with the needs of their organizations, useful to their organizations and intended to effect positive change in their organizations. The research will culminate in a scholarly, comprehensive paper or project that integrates knowledge attained through coursework and research. Registration of course is required in at least two semesters, first of which will be the semester in which capstone work is began, and continuing until completion of 18 credit hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EHHS 82099 CAPSTONE II 1-9 Credit Hours
(Repeatable for credit) Continuation of EHHS 81099. Continuous registration required for students who have completed 18 credit hours of EHHS 81099 and until all degree requirements are met.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Educational Leadership K-12 (EDLE)

EDLE 40093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with EDLE 50093 and EDLE 70093)
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

EDLE 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with EDLE 40093 and EDLE 70093) Variable title workshop in educational administration.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

EDLE 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: EDLE 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 66492 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 3-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EDLE 76492) A field-based internship utilizing an inquiry-based learning model, requiring projects as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 66515 FACILITIES PLANNING AND ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 76515) Overview of facilities planning and administration, including architectural/ construction management, the educational program, restoration and maintenance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66517 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION 3 Credit Hours
(Slashed with EDLE 76517) Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state and national level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66518 SCHOOL AND SPECIAL EDUCATION LAW 3 Credit Hours
(Slashed with EDLE 76518) Constitutional, statutory, and case law involving schools, special and regular education students, administrators, parents and others are studied.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66520 SCHOOL LAW FOR TEACHERS AND PRINCIPALS 3 Credit Hours
(Slashed with EDLE 76520) Selected principles of constitutional, statutory case and common law affecting the administration of schools generally and Ohio schools specifically.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66522 PUBLIC SCHOOL FINANCE AND ECONOMICS 3 Credit Hours
(Slashed with EDLE 76522) Analysis of national, state and local problems of collection custody and expenditure of public school funds.
Prerequisite: EDLE 66526; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66525 THE EDUCATIONAL PRINCIPALSHIP 3 Credit Hours
(Slashed with EDLE 76525) Organizing and administering elementary, middle level and secondary schools.
Prerequisite: EDLE 66526 or EDLE 76526; 16 hrs of EDLE; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66526 FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 76526) Examines theory and practice essential for administration. Skills and understanding are developed in theory goal setting staff development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66527 SCHOOL FINANCE FOR BUILDING ADMINISTRATORS 3 Credit Hours
(Slashed with EDLE 76527) Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process and fund raising and school groups.
Prerequisite: Major in Educational Leadership K-12, Higher Education Administration and Student Affairs or Higher Education Administration; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66529 LEADING FOR SOCIAL JUSTICE 3 Credit Hours
(Slashed with EDLE 76529) Centers on investigating a broad research agenda on leading for social justice within educational leadership. Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century schools. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary schools.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

EDLE 66531 INSTRUCTIONAL LEADERSHIP 3 Credit Hours
(Slashed with EDLE 76531) Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

EDLE 66533 CENTRAL OFFICE ADMINISTRATION: CURRICULUM AND PUPIL SERVICES 3 Credit Hours
(Slashed with EDLE 76533) Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 66534 THE SUPERINTENDENCY 3 Credit Hours
(Slashed with EDLE 76534) Focuses on major responsibilities of board of education and superintendent.
Prerequisite: EDLE 66526 or EDLE 76526; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66536 THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT 3 Credit Hours
(Slashed with EDLE 76536) Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district school classroom curriculum.
Prerequisite: Major in Educational Leadership K-12, Higher Education Administration and Student Affairs or Higher Education Administration; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66538 ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORMS 3 Credit Hours
(Slashed with EDLE 76538) Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micropolitics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 66540 WOMEN IN LEADERSHIP 3 Credit Hours
(Slashed with EDLE 76540) An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66542 PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION 3 Credit Hours
(Slashed with EDLE 76542) Principles and techniques needed by administrative specialists and supervisors (curriculum, pupil services, special education) are given. Research findings include changing human relations, change leadership, legal implications, group process, communication, coordination, management, observations, and conferencing skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66543 SCHOOL ADMINISTRATION IN URBAN SETTINGS 3 Credit Hours
(Slashed with EDLE 76543) This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city schools. Issues of focus include transportation, staffing, extracurricular support for students and more.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66544 COMMUNITY RELATIONS AND COMMUNICATION SKILLS 3 Credit Hours
(Slashed with EDLE 76544) Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 66591 SEMINAR IN EDUCATIONAL ADMINISTRATION 1-4 Credit Hours
(Repeatable for credit) Seminar in educational administration.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

EDLE 66595 SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with EDLE 76595) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EDLE 66596 INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION 2-4 Credit Hours
(Repeatable for credit) (Slashed with EDLE 76596) Projects as assigned.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 66598 RESEARCH IN EDUCATIONAL ADMINISTRATION 2-8 Credit Hours
(Repeatable for credit) Projects as assigned.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 66602 TECHNOLOGY LEADERSHIP IN EDUCATION 3 Credit Hours
(Slashed with EDLE 76602) Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tools for teaching, learning, assessment, management, planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.25 lecture, .75 other
Grade Mode: Standard Letter

EDLE 66747 PERSONNEL 3 Credit Hours
(Slashed with EDLE 76747) Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities and development of evaluation techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66750 COACHING AND MENTORING FOR TEACHER LEADERS 3 Credit Hours
Focuses on developing the knowledge, skills, and dispositions necessary for teacher leaders to provide high levels of effective coaching and mentoring for improving teaching practices and learning for all students. Specific approaches related to mentoring, coaching and per assistance will be examined and practiced.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66751 INSTRUCTIONAL LEADERSHIP FOR TEACHER LEADERS 3 Credit Hours
This course provides the tools that teacher leaders need to engage in the development, production, monitoring and evaluation of instructional methods and strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 70093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with EDLE 40093 and EDLE 50093) Variable title workshop in EDAD.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

EDLE 76492 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 3-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EDLE 76492) A field-based internship utilizing an inquiry-based learning model, requiring projects as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 76515 FACILITIES PLANNING AND ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 66515) Overview of facilities planning and administration, including architectural/ construction management, the educational program, restoration and maintenance.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76517 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION 3 Credit Hours
(Slashed with EDLE 66517) Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state, and national level.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76518 SCHOOL AND SPECIAL EDUCATION LAW 3 Credit Hours
(Slashed with EDLE 66518) Constitutional, statutory, and case law involving schools, special and regular education students, administrators, parents and others are studied.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76520 SCHOOL LAW FOR TEACHERS AND PRINCIPALS 3 Credit Hours
(Slashed with EDLE 66520) Selected principles of constitutional, statutory, case and common law affecting the administration of schools generally and Ohio schools specifically.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76522 PUBLIC SCHOOL FINANCE AND ECONOMICS 3 Credit Hours
(Slashed with EDLE 66522) Analysis of national, state and local problems of collection custody and expenditure of public school funds.
Prerequisite: EDLE 76526; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76525 THE EDUCATIONAL PRINCIPALSHIP 3 Credit Hours
(Slashed with EDLE 66525) Organizing and administering elementary, middle level and secondary schools.
Prerequisite: EDLE 66526 or EDLE 76526; 16 credit hours of EDLE; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76526 FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 66526) Examines theory and practice essential for administration. Skills and understanding are developed in theory goal setting staff development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76527 SCHOOL FINANCE FOR BUILDING ADMINISTRATORS 3 Credit Hours
(Slashed with EDLE 66527) Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process, and fund raising and school groups.
Prerequisite: Major in Educational Leadership K-12 or Higher Education Administration; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76529 LEADING FOR SOCIAL JUSTICE 3 Credit Hours
(Slashed with EDLE 66529) Centers on investigating a broad research agenda on leading for social justice within educational leadership. Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century schools. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary schools.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

EDLE 76531 INSTRUCTIONAL LEADERSHIP 3 Credit Hours
(Slashed with EDLE 66531) Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

EDLE 76533 CENTRAL OFFICE ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 66533) Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 76534 THE SUPERINTENDENCY 3 Credit Hours
(Slashed with EDLE 66534) Focuses on major responsibilities of board of education and superintendent.
Prerequisite: EDLE 66526 or EDLE 76526; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76536 THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT 3 Credit Hours
(Slashed with EDLE 66536) Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district/school/classroom curriculum.
Prerequisite: Major in Educational Leadership K-12; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76538 ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORM 3 Credit Hours
(Slashed with EDLE 66538) Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micropolitics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 76540 WOMEN IN LEADERSHIP 3 Credit Hours
(Slashed with EDLE 66540) An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76542 PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION 3 Credit Hours
(Slashed with EDLE 66542) Principles and techniques needed by administrative specialists and supervisors (curriculum, pupil services, special education) are given. Research findings include changing human relations, change leadership, legal implications, group process, communication, coordination, management, observations, and conferencing skills.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76543 SCHOOL ADMINISTRATION IN URBAN SETTINGS 3 Credit Hours
(Slashed with EDLE 66543) This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city schools. Issues of focus include transportation, staffing, extracurricular support for students and more.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76544 COMMUNITY RELATIONS AND COMMUNICATION SKILLS 3 Credit Hours
(Slashed with EDLE 66544) Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 76595 SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with EDLE 66595) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EDLE 76596 INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION 2-4 Credit Hours
(Repeatable for credit) (Slashed with EDLE 66596) Projects as assigned.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 76602 TECHNOLOGY LEADERSHIP IN EDUCATION 3 Credit Hours
(Slashed with EDLE 66602) Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tools for teaching, learning, assessment, management, planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.25 lecture, .75 other
Grade Mode: Standard Letter

EDLE 76747 PERSONNEL 3 Credit Hours
(Slashed with EDLE 66747) Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities and development of evaluation techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 80080 DISSERTATION PREPARATION SEMINAR 3 Credit Hours
Gain an in-depth understanding of the dissertation-writing process. Complete a dissertation proposal.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: EDLE 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 86591 SEMINAR IN EDUCATIONAL ADMINISTRATION 1-4 Credit Hours
(Repeatable for credit) Seminar in EDAD.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

EDLE 86598 RESEARCH IN EDUCATIONAL ADMINISTRATION 2-8 Credit Hours
(Repeatable for credit) Projects as assigned.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 2-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Educational Psychology (EPSY)

EPSY 29525 EDUCATIONAL PSYCHOLOGY 3 Credit Hours
Examines major theories of human development and learning, motivation, instructional strategies, assessment; similarities and differences in learners. The role of factors in the students' learning and development is considered. Participation in the educational psychology research participant pool or an alternative research assignment is required.
Prerequisite: CULT 29535.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

EPSY 49525 RELATIONAL LEARNING IN EDUCATION 3 Credit Hours
(Repeatable for credit) Seminar focuses on national and international relational learning approaches to education. Current literature on relational learning is critiques. Professional identity is supported through engages learning opportunities in per mentoring experiences and faculty-let research. Course may be repeated for maximum 9 credit hours.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

EPSY 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EPSY 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

EPSY 63531 CURRICULUM DEVELOPMENT FOR GIFTED LEARNERS 3 Credit Hours
Focus on design/development of curriculum for gifted learners; adapt/modify existing curricula; design curricular materials through predetermined process assessment of suitability of materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 63532 GIFTED PROGRAM DESIGN, ASSESSMENT AND ADMINISTRATION 3 Credit Hours
Fundamentals of designing gifted programs are reviewed. Topics include student identification, assessment, advocacy, program evaluation, compliance with state standards, and teacher preparation.
Prerequisite: EPSY 63540 and EPSY 63545; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 63535 SOCIAL AND EMOTIONAL ASPECTS OF THE GIFTED AND SPECIAL SUBPOPULATIONS 3 Credit Hours
The affective needs and characteristics of gifted learners and special subpopulations are examined with consideration of the implications for instruction and socio-emotional supports.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 63540 NATURE AND NEEDS OF GIFTED 3 Credit Hours
Personal characteristics, abilities and potentialities of gifted through review of related research. Evaluation of research findings and implications for psycho-educational development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 63545 INSTRUCTIONAL PROCESSES FOR GIFTED CHILDREN 3 Credit Hours
Education and guidance of gifted students, K-12. Classroom strategies for instruction and accommodation including selection of appropriate instructional strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 64892 ADVANCED PRACTICUM: GIFTED AND TALENTED EDUCATION 3 Credit Hours
This course is designed to provide an opportunity to practice skills and demonstrate appropriate dispositions for meeting the needs of students who are gifted and talented.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

EPSY 65520 CHILD AND ADOLESCENT DEVELOPMENT 3 Credit Hours
(Slashed with EPSY 75520) Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 65523 LIFE SPAN DEVELOPMENT 3 Credit Hours
(Slashed with EPSY 75523) Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 65524 LEARNING THEORIES 3 Credit Hours
(Slashed with EPSY 75524) Theories of learning with special emphasis on application to professional practice. A critical examination of research on human learning processes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 65529 EDUCATIONAL MOTIVATION 3 Credit Hours
Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 68901 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credit Hours
(Slashed with EPSY 78901) Overview of human development, particularly adolescence, and implications for educational policy and programming, generally and specifically for secondary schools.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 68905 EDUCATIONAL PSYCHOLOGY 3 Credit Hours
(Slashed with EPSY 78905) Analysis and critique of major learning theories, state-of-the-art development in theory, research and application to educational practice in selected disciplines.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 69091 SEMINAR IN LEARNING AND DEVELOPMENT 1-5 Credit Hours
(Repeatable for credit)Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

EPSY 69092 ADVANCED PRACTICUM AND INTERNSHIP 1-6 Credit Hours
Supervised program in field setting involving application of theories, principles, and methodology in learning and development; planned with and supervised by graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.333-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPSY 69095 SPECIAL TOPICS IN LEARNING AND DEVELOPMENT 1-3 Credit Hours
(Repeatable for credit)Specific topic course offering in response to emerging student or program needs in learning and development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EPSY 69096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT 1-3 Credit Hours
(Repeatable for credit)Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPSY 69098 RESEARCH IN LEARNING AND DEVELOPMENT 1-15 Credit Hours
(Repeatable for credit)Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPSY 70093 VARIABLE TOPIC WORKSHOP IN EDUCATIONAL PSYCHOLOGY 1-4 Credit Hours
(Repeatable once for a maximum of 6 credit hours) (Cross-listed with EPSY 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

EPSY 75520 CHILD AND ADOLESCENT DEVELOPMENT 3 Credit Hours
(Slashed with EPSY 65520) Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 75523 LIFE SPAN DEVELOPMENT 3 Credit Hours
(Slashed with EPSY 65523) Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 75524 LEARNING THEORIES 3 Credit Hours
(Slashed with EPSY 65524) Theories of learning with special emphasis on application to professional practice. A critical examination of research on human learning processes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 75529 EDUCATIONAL MOTIVATION 3 Credit Hours
Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 78901 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credit Hours
(Slashed with EPSY 68901) Overview of human development and its implications for educational policy and programming for schools.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 78905 EDUCATIONAL PSYCHOLOGY 3 Credit Hours
(Slashed with EPSY 68905) Analysis and critique of major learning theories, state-of-the-art development in theory, research and application to educational practice in selected disciplines.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

EPSY 87450 PSYCHOLOGICAL PRINCIPLES OF EDUCATION 3 Credit Hours
Provides an exploration of educational psychology as the study of learning and teaching, in particular the mental representations and processes involved in the acquisition, storage, retrieval and use of knowledge in educational settings. Discusses how research and theory in educational psychology can be applied to real world classroom problems. Students are also required to develop a research project, which utilizes technology to test psychological theories about learning and instruction.
Prerequisite: Doctoral standing.
Corequisite: ETEC 87450.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 89091 SEMINAR IN LEARNING AND DEVELOPMENT 1-5 Credit Hours
(Repeatable for credit) Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

EPSY 89092 ADVANCED PRACTICUM AND INTERNSHIP 1-6 Credit Hours
Supervised program in field setting involving application of theories, principles, and methodology in learning and development; planned with and supervised by graduate faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3.333-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPSY 89095 SPECIAL TOPICS IN LEARNING AND DEVELOPMENT 1-3 Credit Hours
(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in learning and development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

Educational Technology (ETEC)

ETEC 39525 EDUCATIONAL TECHNOLOGY 3 Credit Hours
Develops knowledge and skills in designing, implementing, and assessing learning experiences, using various digital tools and resources to support teaching, learning and research.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 40093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with ETEC 50093) Variable topic workshop designed to respond to emerging or specialized needs in educational technology.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

ETEC 47400 TRENDS IN EDUCATIONAL TECHNOLOGY 3 Credit Hours
(Slashed with ETEC 57400) This course explores current trends in educational technology and its transformative impact on teaching, learning, and human performance improvement. Students will examine how digital and networked technologies can enhance instructional practices and foster meaningful learning experiences. Through readings, critical analyses of emerging learning tools and interactive projects, students will gain practical experience with current educational technologies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 47403 INSTRUCTIONAL DESIGN 3 Credit Hours
(Slashed with ETEC 57403) Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 47427 TECHNOLOGY AND LEARNING 3 Credit Hours
(Slashed with ETEC 57427) This course provides an overview of major theoretical perspectives and frameworks that have influenced the research and practice of learning and teaching with technology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 47495 SPECIAL TOPICS: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Specialized offering in response to emerging or selected program needs in educational technology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ETEC 47496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with ETEC 40093) Variable topic workshop designed to respond to emerging or specialized needs in educational technology.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

ETEC 57400 TRENDS IN EDUCATIONAL TECHNOLOGY 3 Credit Hours
(Slashed with ETEC 47400) This course explores current trends in educational technology and its transformative impact on teaching, learning and human performance improvement. Students will examine how digital and networked technologies can enhance instructional practices and foster meaningful learning experiences. Through readings, critical analyses of emerging learning tools and interactive projects, students will gain practical experience with current educational technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 57403 INSTRUCTIONAL DESIGN 3 Credit Hours
(Slashed with ETEC 47403) Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 57427 TECHNOLOGY AND LEARNING 3 Credit Hours
(Slashed with ETEC 47427) This course provides an overview of major theoretical perspectives and frameworks that have influenced the research and practice of learning and teaching with technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Students electing to complete a thesis to fulfill the requirements for the Master of Education degree must register for at least one semester of Thesis I.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 60299 THESIS II 2 Credit Hours
(Repeatable for credit) When 6 credits of Thesis I have been complete, students electing to complete a thesis to fulfill the requirements for the Master of Education degree must continue to register each semester for Thesis II until all degree requirements have been completed.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 67402 MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS 3 Credit Hours
(Slashed with ETEC 77402) Provides skills in planning, organizing, administering and evaluating school-based technology and media centers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67410 SIMULATIONS AND GAMES IN EDUCATION 3 Credit Hours
(Slashed with ETEC 77410) Introduction to digital simulations and games as educational tools. Students develop proficiency in applying these tools to learning. Surveys research and design principles and introduces game editors for developing simulations and games.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67411 DESIGNING VISUALS FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 77411) Investigates research in perception and cognition and its influence on principles and best practices in educational visual design. Focuses on the design of educational visuals and media in print, video, and computer-based technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67420 RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY 3 Credit Hours
(Slashed with ETEC 77420) Educational Technology is a broad field that intersects many disciplines and provides numerous opportunities for individuals with varied interests. Having knowledge of the important issues in educational technology research enables students to evaluate both rigor and usefulness of empirical studies in the field of educational technology. This course is designed to explore significant issues in educational technology, including the latest research into how technology can most effectively facilitate learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67425 MANAGING TECHNOLOGICAL CHANGE 3 Credit Hours
(Slashed with ETEC 77425) This course examines how to implement technological change within organizations, with a particular focus on those involved in education, training and performance improvement. As new hardware and software technologies are continually developed and promoted as revolutionary tools for teaching and learning and as innovative instructional strategies emerge that effectively leverage these technologies, organizations face critical decisions. This course addresses key questions, including how to identify the technologies best suited for teaching and learning, how to pinpoint sources of resistance and obstacles to change, and how to design projects that ensure successful technological implementation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67426 MANAGING SCHOOL TECHNOLOGIES 3 Credit Hours
(Slashed with ETEC 77426) Specifically for students interested in working in school settings managing computer labs and school servers and networks. Covers managing aspects of computer hardware, software and updates, and networks.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67432 DESIGNING MULTIMEDIA FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 77432) Application of evidence-based instructional methods to the design, development, and evaluation of multimedia learning materials. Research-based guidelines for multimedia learning that influence learning outcomes. Uses various tools to design and develop multimedia projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67434 EMERGING TECHNOLOGIES FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 77434) Focuses on the theoretical foundations, design, and development of educational delivery systems employing leading-edge and emergent technologies. Includes presentations and activities that employ the technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67435 VIRTUAL AND AUGMENTED REALITY 3 Credit Hours
(Slashed with ETEC 77435) Virtual augmented reality can help provide engaging educational experiences. This course enables students to understand best practices and core guidelines in these technologies. Design principles and software for developing environments are included.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67442 DESIGNING ONLINE AND BLENDED COURSES 3 Credit Hours
(Slashed with ETEC 77442) This course focuses on applying instructional design principles to the development of an online/blended course. Students will follow a structured instructional design process to analyze, design, develop and evaluate an online/blended course relevant to their professional contexts. Students will also use a learning management system (e.g., Canvas, Blackboard, Google Classroom) for delivering their courses.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67444 TEACHING ONLINE AND BLENDED COURSES 3 Credit Hours
(Slashed with ETEC 77444) This course explores pedagogical approaches tailored for online and blended learning, including strategies for facilitating synchronous and asynchronous discussions, embedding assessments, enhancing interactivity, fostering student motivation, supporting peer assessment and feedback, encouraging collaboration and community building and integrating self-directed learning. Students will plan, create, implement and evaluate instructional and motivational activities for online and blended environments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67445 DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS 3 Credit Hours
(Slashed with ETEC 77445) Develop knowledge of the systematic approach to instructional design, the contexts of application of this approach, and the roles of professionals in this field in adapting and applying the process in a flexible and innovative manner, especially to large-scale projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67449 RESEARCH IN ONLINE AND BLENDED LEARNING 3 Credit Hours
(Slashed with ETEC 77449) Online and blended learning offers democratized education and endless opportunities in the fields of education and training because of its accessibility and flexibility. This course serves as an introduction to research and theory in online and blended learning. We will examine major concepts in online and blended learning, theoretical underpinnings of the field, historical foundations and trends, as well as important research paradigms in online and blended learning research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67491 SEMINAR: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with ETEC 77491) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ETEC 67492 PRACTICUM AND PORTFOLIO 3 Credit Hours
Apply knowledge and skills related to the design, development, implementation, management, and evaluation of educational technologies through practical field experience in a school setting or an environment where educational technology services and programs are being used. Create a standards-based online portfolio to demonstrate professional competence and growth.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 67495 SPECIAL TOPICS IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Specialized offering in response to emerging or selected program needs in educational technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ETEC 67496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ETEC 77496) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 67498 INDEPENDENT RESEARCH IN EDUCATIONAL TECHNOLOGY 1-5 Credit Hours
(Repeatable for credit) (Slashed with ETEC 77498) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 3-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 77402 MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS 3 Credit Hours
(Slashed with ETEC 67402) Provides skills in planning, organizing, administering and evaluating school-based technology and media centers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77410 SIMULATIONS AND GAMES IN EDUCATION 3 Credit Hours
Introduction to digital simulations and games as educational tools. Students develop proficiency in applying these tools to learning. Surveys research and design principles and introduces game editors for developing simulations and games.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77411 DESIGNING VISUALS FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 67411) Investigates research in perception and cognition and its influence on principles and best practices in educational visual design. Focuses on the design of educational visuals and media in print, video, and computer-based technology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77420 RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY 3 Credit Hours
(Slashed with ETEC 67420) Educational technology is a broad field that intersects many disciplines and provides numerous opportunities for individuals with varied interests. Having knowledge of the important issues in educational technology research enables students to evaluate both rigor and usefulness of empirical studies in the field of educational technology. This course is designed to explore significant issues in educational technology, including the latest research into how technology can most effectively facilitate learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77425 MANAGING TECHNOLOGICAL CHANGE 3 Credit Hours
(Slashed with ETEC 67425) This course examines how to implement technological change within organizations, with a particular focus on those involved in education, training and performance improvement. As new hardware and software technologies are continually developed and promoted as revolutionary tools for teaching and learning and as innovative instructional strategies emerge that effectively leverage these technologies, organizations face critical decisions. This course addresses key questions, including how to identify the technologies best suited for teaching and learning, how to pinpoint sources of resistance and obstacles to change, and how to design projects that ensure successful technological implementation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77426 MANAGING SCHOOL TECHNOLOGIES 3 Credit Hours
(Slashed with ETEC 67426) Specifically for students interested in working in school settings managing computer labs and school servers and networks. Covers managing aspects of computer hardware, software and updates, and networks.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77432 DESIGNING MULTIMEDIA FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 67432) Application of evidence-based instructional methods to the design, development, and evaluation of multimedia learning materials. Research-based guidelines for multimedia learning that influence learning outcomes. Uses various tools to design and develop multimedia projects.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77434 EMERGING TECHNOLOGIES FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 67434) Focuses on the theoretical foundations, design, and development of educational delivery systems employing leading-edge and emergent technologies. Includes presentations and activities that employ the technologies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77435 VIRTUAL AND AUGMENTED REALITY 3 Credit Hours
(Slashed with ETEC 67435) Virtual augmented reality can help provide engaging educational experiences. This course enables students to understand best practices and core guidelines in these technologies. Design principles and software for developing environments are included.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77442 DESIGNING ONLINE AND BLENDED COURSES 3 Credit Hours
(Slashed with ETEC 67442) This course focuses on applying instructional design principles to the development of an online/blended course. Students will follow a structured instructional design process to analyze, design, develop and evaluate an online/blended course relevant to their professional contexts. Students will also use a learning management system (e.g., Canvas, Blackboard, Google Classroom) for delivering their courses.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77444 TEACHING ONLINE AND BLENDED COURSES 3 Credit Hours
(Slashed with ETEC 67444) This course explores pedagogical approaches tailored for online and blended learning, including strategies for facilitating synchronous and asynchronous discussions, embedding assessments, enhancing interactivity, fostering student motivation, supporting peer assessment and feedback, encouraging collaboration and community building, and integrating self-directed learning. Students will plan, create, implement and evaluate instructional and motivational activities for online and blended environments.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77445 DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS 3 Credit Hours
(Slashed with ETEC 67445) Develop knowledge of the systematic approach to instructional design, the contexts of application of this approach, and the roles of professionals in this field in adapting and applying the process in a flexible and innovative manner, especially to large-scale projects.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77449 RESEARCH IN ONLINE AND BLENDED LEARNING 3 Credit Hours
(Slashed with ETEC 67449) Online and blended learning offers democratized education and endless opportunities in the fields of education and training because of its accessibility and flexibility. This course serves as an introduction to research and theory in online and blended learning. We will examine major concepts in online and blended learning, theoretical underpinnings of the field, historical foundations and trends, as well as important research paradigms in online and blended learning research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77491 SEMINAR: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with ETEC 67491) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ETEC 77492 ADVANCED PRACTICUM AND INTERNSHIP IN EDUCATIONAL TECHNOLOGY 1-10 Credit Hours
Supervised program requiring application of theory to practice in the use of instructional technology directed by a graduate faculty member and a practitioner in the field. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which internship will take place.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3-33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 77495 SPECIAL TOPICS IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Slashed with ETEC 67495) Specialized offering in response to emerging or selected program needs in educational technology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ETEC 77496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ETEC 67496) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 77498 INDEPENDENT RESEARCH IN EDUCATIONAL TECHNOLOGY 1-5 Credit Hours
(Repeatable for credit) (Slashed with ETEC 67498) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 87450 LEARNING WITH EDUCATIONAL TECHNOLOGIES 3 Credit Hours
Provides an overall introduction to research and practice in educational technology at the doctoral level. Includes examination of principles and examples of the effective application of technology to educational settings as well as approaches to research in the field.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Electrical Engineering and Related Technologies (EERT)

EERT 10192 OVERHEAD LINE TECHNOLOGY PRACTICUM I (ELR) 5 Credit Hours
Practical application of electrical overhead line worker job duties in a setting under direct supervision of First Energy Personnel. Prior to enrollment, students must be accepted into the First Energy Power Systems Institute (PSI).
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EERT 10292 OVERHEAD LINE TECHNOLOGY II PRACTICUM (ELR) 5 Credit Hours
Supervised practical application of electrical overhead line worker duties including the use of ladders, rescue operations, and transformers under the supervision of FirstEnergy personnel.
Prerequisite: EERT 10192; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EERT 11000 INTRODUCTION TO SEMICONDUCTOR AND CLEANROOM 4 Credit Hours
Course topics include cleanroom environment, chemical safety best practices, semiconductor wafer manufacturing, photolithography, etching, diffusion, thin film deposition and standard operating procedure.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Intro to Semicond Clnrm, TAG Intro to Semicond Clnrm

EERT 12000 ELECTRIC CIRCUITS I 4 Credit Hours
Direct current circuit analysis involving current and voltage, resistance, energy and power, Ohm's law, series and parallel networks. Mesh and nodal analysis, network theorems and DC instruments.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Electrical Engineer Technology, TAG Engineering Technology

EERT 12001 ELECTRIC CIRCUITS II 3 Credit Hours
Analysis of capacitive, inductance and magnetic circuits and transients in R-L-C combinations. AC network analysis: mesh and nodal, phasor algebra, power factor, resonance.
Prerequisite: EERT 12000.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

EERT 12005 ELECTRICAL/ELECTRONIC DRAWING 2 Credit Hours
Electrical Electronic drawing techniques using current computer-aided design software emphasizing schematic, block and wiring diagrams, document markups, circuit board printing, circuit or power layout is covered as needed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EERT 12010 INTRODUCTION TO ELECTRONICS 4 Credit Hours
Semiconductor theory. Properties and application of PN junctions and bipolar junction transistors, amplifiers, field effect transistors (FET) amplifiers, JFET and MOSFET biasing and their use in simple circuits.
Prerequisite: EERT 12000.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

EERT 20192 OVERHEAD LINE TECHNOLOGY III PRACTICUM (ELR) 5 Credit Hours
Supervised practical applications of electrical line worker job duties under the supervision of FirstEnergy personnel. Emphasis on URD equipment, grounding distribution circuits and working with energized three phase circuits.
Prerequisite: EERT 10292; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EERT 20292 OVERHEAD LINE TECHNOLOGY PRACTICUM IV (ELR) 5 Credit Hours
Supervised practical application of electrical overhead line worker job duties under the direct supervision of FirstEnergy personnel. Emphasis on line equipment, hot line tools, and transmission.
Prerequisite: EERT 20192; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EERT 21010 ENGINEERING AND PROFESSIONAL ETHICS 3 Credit Hours
Application of codes of ethics in the engineering and technology profession reflective of social and moral responsibilities to the public and accountability in engineering practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EERT 21096 INDIVIDUAL INVESTIGATION IN ELECTRICAL/ ENGINEERING TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Independent in depth research of an electrical electronic engineering technology topic supervised and coordinated by an engineering technology faculty member.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

EERT 22002 INDUSTRIAL CONTROLS 3 Credit Hours
Introduction to control of AC and DC machinery by electromechanical and solid state devices. Study of circuits, troubleshooting methods and logic systems.
Prerequisite: EERT 12010; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EERT 22004 DIGITAL SYSTEMS 4 Credit Hours
Modern integrated digital logic families. Analysis and design of digital circuits such as gates, multivibrators, comparators, counters, registers including interface, control memory and computer circuits. Programmable logic controllers and integrated circuit technologies.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Electrical Engineer Technology

EERT 22006 ELECTRICAL MACHINES 3 Credit Hours
Introduction to transformer action, losses and efficiency. Fundamentals of DC and AC motors and generators and three phase systems.
Prerequisite: EERT 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EERT 22008 FUNDAMENTALS OF ELECTRICAL MACHINES AND DRIVES 3 Credit Hours
Course introduces the fundamental concepts of electrical machines and drives, providing a solid foundation for students in electrical engineering. It covers the principles of operation, construction, and applications of common electrical machines such as DC machines, synchronous machines, and induction motors, along with the principles of motor control and drive systems.
Prerequisite: EERT 12001.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EERT 22011 ELECTRONIC SYSTEMS 2 Credit Hours
Continuation of EERT 12010. Frequency effects, Miller's Theorem, decibel notation and negative feedback, Oscillators, Op-amps, circuits and applications, Thyristors and electronically regulated power supplies.
Prerequisite: EERT 12010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

EERT 22014 MICROPROCESSORS AND ROBOTICS 3 Credit Hours
An introduction to microprocessor system fundamentals, number systems, binary codes, hexa- decimal codes, Programming fundamentals in C , C++ software, Microcontroller hardware architecture and instruction set, with applications to robot systems motor control, sensors.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

EERT 22016 PRODUCTIVITY SOFTWARE FOR INDUSTRY 1 Credit Hour
(Repeatable for a maximum of 3 credit hours) Introduces students to the use of computers for word processing, spreadsheets and database management applications. Students receive hands-on training on the use of the software applicable to engineering problems using hands-on formats.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lab
Grade Mode: Satisfactory/Unsatisfactory-IP

EERT 22018 PC/NETWORK ENGINEERING AND TROUBLESHOOTING 3 Credit Hours
Covers the service, maintenance, upgrade and optimization of personal computers. Specification, installation and maintenance of local area networks is covered. Students learn communication protocols and network architecture. Two lectures and two labs.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EERT 22095 SPECIAL TOPICS IN ELECTRICAL/ELECTRONIC AND RELATED ENGINEERING TECHNOLOGIES 1-3 Credit Hours
(Repeatable for credit) Special topics in electrical/electronic engineering technology.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EERT 32003 TECHNICAL COMPUTING 3 Credit Hours
A hands-on introduction to computation, through object-oriented programming and problem solving. Programming in the C++ language.
Prerequisite: MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EERT 32005 INSTRUMENTATION 3 Credit Hours
Introduction to modern industrial controls, interfacing devices, transducer systems, and process control methods.
Prerequisite: Junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 1 lab
Grade Mode: Standard Letter

Emerging Media and Technology (EMAT)

EMAT 10010 TECHNOLOGY, EXPERIENCE DESIGN AND SOCIETY 3 Credit Hours
Through this course, students explore the emerging media, technology and user experience design industries and develop their own emerging media project plan. Additionally, students learn about the impact of emerging media, technology and design on culture and society. Topics include an introduction to ethical design, emerging media and globalization and technology's relationship and identity formation and maintenance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 10310 MY STORY ON THE WEB 3 Credit Hours
This course focuses on inspiring digital content creation and the tools that make it all happen. Students learn and use digital software tools from the Adobe Creative Cloud that allow them to establish a web presence based on personal and entrepreneurial interests by the end of the semester. Students post their projects on a website they design using an online content management system. Skills used in this class prepare students for the professional world, including website design, content management, storytelling, multimedia and such ethical considerations as intellectual property.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 21000 INTRODUCTION TO WEB DESIGN 3 Credit Hours
Students will learn basic web design, using HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). Students are introduced to planning, designing and executing effective web pages, including developing web pages using web standards compliant HTML and CSS; leveraging CSS to style, enhance, organize and prioritize content; working with a wide range of content types and multimedia; and, producing small, functioning, multi-page websites.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 23410 COGNITION IN TECHNOLOGY 3 Credit Hours
Introduction to the basics in human cognition as they affect technology and as technology affects human cognition. Addresses designing technologies to fit and enhance cognition, augmenting cognition with technology, and cognitive tools, as well as the impact of technology on various cognitive processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 25310 CREATIVE CODING 3 Credit Hours
A hands-on introduction to computational thinking and object-oriented programming through the framework of creative coding. Students learn how to use variables, loops, functions and objects to make original works of creative code for screen-based media that move, interact and unfold over time. Emphasis in the course is placed on play and experimentation as critical facets of creative problem solving.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 29995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

EMAT 32210 DATA IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
Students work through all levels of data analysis, including accessing data; combining and cleaning datasets; describing data through report-writing and visualization; inferential statistics; and, finally, making data-based decisions and conveying those decisions to a lay audience. This course uses Python to process data and introduce students to report writing, sharing and documentation. Course's focus is to convey the strengths and limitations of both "big" and "small" data with an overarching goal of instilling ethical data practices for research and application.
Prerequisite: CS 13001 or CS 13012 or EMAT 25310 or IT 11002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 33310 HUMAN-COMPUTER INTERACTION 3 Credit Hours
A course intended to provide a broad foundation of HCI principles and perspectives relevant across multiple emerging media technologies. Focuses on both understanding HCI through the presentation of major concepts, issues and principles in HCI across the full spectrum of user-centered design processes (conceptualizing, research, prototyping, evaluation, etc.) and designing experiences, with a focus on the user, needs and task analysis and evaluation.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 39995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

EMAT 40095 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours
(Slashed with EMAT 50095) (Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EMAT 40999 INTERDISCIPLINARY PROJECTS (ELR) 3 Credit Hours
(Repeatable for credit) In this hands-on course, students work in collaborative, interdisciplinary teams to complete a technology-based project that provides an innovative solution to a real-world problem. Whenever possible, connections will be made to project-based courses in emerging media and technology and beyond.
Prerequisite: Junior standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EMAT 41000 RESPONSIVE WEB DESIGN 3 Credit Hours
(Slashed with EMAT 51000) Students learn the fundamental principles for developing standards-based web sites from a mobile-first and content-first perspective. Explore each aspect of an agile-inspired process, during which students will learn each step of what it takes to build a website and ensure its functionality for its users in terms of both usability and performance.
Prerequisite: EMAT 21000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 41510 PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC) 3 Credit Hours
(Slashed with EMAT 51510) Introduces students to the basic elements of project management as it relates to software development and the corporate environment. Although not formally endorsed by The Project Management Institute, the course aligns with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.
Prerequisite: CIS 24065 or CS 10062 or CS 13001 or CS 13012 or EMAT 25310 or ENGR 26220 or VCD 21000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

EMAT 41610 DIGITAL SYSTEMS SECURITY 3 Credit Hours
(Slashed with EMAT 51610) Provides students with an understanding of the techniques, approaches, strategies, and computer security tactics that are used to ensure computer-related assets are protected from potential cyber compromise and are integrated with the business function. This course does not focus on the technical aspects of security (e.g., details of the operating system, data structures, or networks) but instead focuses more on computer security in a business context.
Prerequisite: EMAT 25310 or CS 13001 or CS 13012 or CIS 24065; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 42210 WEB APPLICATION DEVELOPMENT 3 Credit Hours
(Slashed with EMAT 52210) In this hands-on, project-based course, students are introduced to leading industry tools and frameworks being used to create commercial web applications today, including CSS frameworks, front-end frameworks and command line tools. Lectures, coding demonstrations and weekly assignments culminate in a collaborative final project in which students are asked to conceptualize, design and implement a web application in a collaborative, team setting.
Prerequisite: EMAT 25310 and EMAT 41000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 49991 SEMINAR IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
(Slashed with EMAT 59991) (Repeatable for credit) Society is driven, in part, by digital technology. The skills and techniques used in these fast-paced digital systems requires nimble and up-to-date skill sets. This course covers a rotating list of timely topics, including but not limited to mobile applications, content management systems, data visualizations and cutting-edge development frameworks. The student experience varies based on the topics from the rotation.
Prerequisite: CS 13001 or CS 13012 or EMAT 25310 or IT 11002.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 49992 INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY (ELR) 1-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) A credit-bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper, or experience report.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EMAT 49996 INDIVIDUAL INVESTIGATION IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

EMAT 50095 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGIES 1-3 Credit Hours
(Slashed with EMAT 40095) (Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EMAT 51000 RESPONSIVE WEB DESIGN 3 Credit Hours
(Slashed with EMAT 41000) Students learn the fundamental principles for developing standards-based web sites from a mobile-first and content-first perspective. Explore each aspect of an agile-inspired process, during which students will learn each step of what it takes to build a website and ensure its functionality for its users in terms of both usability and performance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 51510 PROJECT MANAGEMENT AND TEAM DYNAMICS 3 Credit Hours
(Slashed with EMAT 41510) Introduces students to the basic elements of project management as it relates to software development and the corporate environment. Although not formally endorsed by The Project Management Institute, the course aligns with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 51610 DIGITAL SYSTEMS SECURITY 3 Credit Hours
(Slashed with EMAT 41610) Provides students with an advanced understanding of the techniques, approaches, strategies, and computer security tactics that are used to ensure computer-related assets are protected from potential cyber compromise and are integrated with the business function. This course does not focus on the technical aspects of security (e.g., details of the operating system, data structures, or networks) but instead focuses more on computer security in a business context.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 52210 WEB APPLICATION DEVELOPMENT 3 Credit Hours
(Slashed with EMAT 42210) In this hands-on, project-based course, students are introduced to leading industry tools and frameworks being used to create commercial web applications today, including CSS frameworks, front-end frameworks and command line tools. Lectures, coding demonstrations and weekly assignments culminate in a collaborative final project in which students are asked to conceptualize, design and implement a web application in a collaborative, team setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 59991 SEMINAR IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
(Slashed with EMAT 49991) (Repeatable for credit) Society is driven, in part, by digital technology. The skills and techniques used in these fast-paced digital systems requires nimble and up-to-date skill sets. This course covers a rotating list of timely topics, including but not limited to mobile applications, content management systems, data visualizations and cutting-edge development frameworks. The student experience varies based on the topics from the rotation.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

EMAT 60010 FOUNDATIONS OF EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
Course provides an overview of foundational theories applied in the interdisciplinary emerging media and technology industries through case studies and interdisciplinary discussions. Covers issues related to technology and society; developing interdisciplinary thinking skills; examining the industry structure; and developing data-based writing, reporting and presentation skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 60310 CREATIVE CODING FUNDAMENTALS 3 Credit Hours
(Slashed with EMAT 80310) Course provides students hands-on experience, from applying foundational concepts in computational thinking and object-oriented programming to creating screen-based applications that move, interact and unfold over time. Specific topics covered include variables, loops, functions, classes and API's (Application Programming Interfaces). Particular emphasis is placed on play and experimentation as critical facets of creative problem solving and on computation as both an interdisciplinary and cross-disciplinary practice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 60999 PROJECTS IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
(Repeatable for credit) Provides an integrative experience, bringing together components of the required coursework in the major and concentration. Students perform individual work on a project, research paper, or practicum under the supervision of faculty from programs affiliated with the School of Emerging Media and Technology.
Prerequisite: Minimum overall GPA of 3.00; and graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

EMAT 61010 ENTERPRISE ARCHITECTURE 3 Credit Hours
Explores the alignment of IT and IS investment decisions with business goals. Enterprise architecture is increasingly used in industry as a result of the continued emergence of new technologies and ongoing pressures to reengineer business processes to achieve improved efficiency and greater customer focus. Enterprise architecture identifies the main components of an organization and the ways in which these components work together. The components include performance and strategy, people, business capabilities, applications, technology, knowledge and information, as well as financial and other resources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 61310 ENTERPRISE ARCHITECTURE: ENTERPRISE ARCHITECTURE CENTER OF EXCELLENCE METHODOLOGY 2 Credit Hours
Provides an introduction to the Enterprise Architecture Center of Excellence (EACOE) methodology for enterprise architecture and practical experience using that methodology. Students learn to model a business' current or desired future state using architectural models of goals, processes, materials, roles, locations and events. Implementation models are then developed to show relationships between architectural models, and the models are analyzed to identify move-ahead initiatives that include projects, gaps, overlaps and opportunities. These initiatives are prioritized to move the business to a desired future state. At the conclusion of the course, students have the option of submitting their course enterprise architecture artifacts to EACOE for certification. Pre/
Prerequisite: Graduate standing.
Corequisite: EMAT 61010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EMAT 61510 PROJECT MANAGEMENT LEADERSHIP 3 Credit Hours
This course introduces advanced project management and project management leadership as it relates to software development and the corporate environment. The course focuses on the project management principles of effective planning, communication and motivation throughout the project lifecycle, and one key project management deliverable such as the project management plan. Although not formally endorsed by The Project Management Institute (www.PMI.org), the course will align with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.
Prerequisite: EMAT 51510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 62010 BUSINESS ARCHITECTURE 3 Credit Hours
Exploration of the concept of business architecture as the critical component of enterprise architecture. Students learn how to develop an enterprise business architecture, to apply business architecture principles, methods and artifacts to support business IT alignment and to support change management needed to implement roadmaps and initiatives based on the business architecture. Students learn how different enterprise architecture frameworks approach the business layer.
Prerequisite: EMAT 61010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 62110 INTERACTIVE DATA 3 Credit Hours
(Slashed with EMAT 82110) Course applies students' prior experience in computational thinking and object-oriented programming to analytic, creative and interactive data experiences built in Python. Students address real-world data sets with computational, predictive and visual methods to draw insights and make decisions. Students move beyond deploying "solutions" to engaging and communicating data to constituents, user and decision makers alike. Concurrently, students discuss critical questions of modern data access, power, bias and privacy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 62210 WEB DEVELOPMENT 3 Credit Hours
Beginning with basic coverage of HTML, CSS, PHP, this course continues to explore those topics along with MySQL, jQuery, JavaScript and others. The course will also explore other topics relevant to web development in digital sciences, including security principles, hierarchy and visual design, responsive design, accessibility issues, interaction design, social media, and legal issues.
Prerequisite: CS 61002 or CS 61003 or ENGR 56330; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 64010 DATA ARCHITECTURE 3 Credit Hours
Exploration of data modeling at the conceptual and logical level of abstraction within the context of enterprise architecture. Students learn to identify business needs in terms of data to gain a holistic view of organizational data. Students use Master Data Management (MDM) and approaches to define various data sources.
Prerequisite: EMAT 61010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 64210 DATA SCIENCE 3 Credit Hours
Overview of the concept of data mining, machine learning, big data, and data analytics, including the business challenges of working with data to solve real-world business problems. Students become familiar with the Cross Industry Standard Process for Data Mining (CRISP-DM). Fundamental concepts include Business Problem Understanding, Data Understanding, Data Preparation, Modeling, Evaluation, and Deployment. Data analytics in industry verticals are discussed, including science, intelligence and law enforcement, health, retail and financial services.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 65010 APPLICATION AND TECHNOLOGY ARCHITECTURE 3 Credit Hours
Introduction to the concept of application and technology architectures in the context of enterprise architecture. Students learn how to define application and technology architecture principles and standards to support business performance, and to evaluate existing architectures in relation to performance goals. Students learn to work with application and technology artifacts and matrices, prepare a technology dictionary and develop an application architecture blueprint.
Prerequisite: EMAT 61010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 69199 THESIS I 2-6 Credit Hours
(Repeatable for a maximum of 6 credits hours) Thesis students must register for a total of 6 hours and may take 2 to 6 hours per semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EMAT 69299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: EMAT 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EMAT 69992 INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) A credit bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper or experience report.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EMAT 69995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in digital sciences not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

EMAT 69996 INDIVIDUAL INVESTIGATION IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments, and evaluation methods may vary.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

EMAT 80310 CREATIVE CODING FUNDAMENTALS 3 Credit Hours
(Slashed with EMAT 60310) Course provides students hands-on experience, from applying foundational concepts in computational thinking and object-oriented programming to creating screen-based applications that move, interact and unfold over time. Specific topics covered include variables, loops, functions, classes and API's (Application Programming Interfaces). Particular emphasis is placed on play and experimentation as critical facets of creative problem solving, and on computation as both an interdisciplinary and cross-disciplinary practice.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 82110 INTERACTIVE DATA 3 Credit Hours
(Slashed with EMAT 62110) Course applies students' prior experience in computational thinking and object-oriented programming to analytic, creative and interactive data experiences built in Python. Students address real-world data sets with computational, predictive and visual methods to draw insights and make decisions. Students move beyond deploying "solutions" to engaging and communicating data to constituents, user and decision makers alike. Concurrently, students discuss critical questions of modern data access, power, bias and privacy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Engineering (ENGR)

ENGR 10005 INTRODUCTION TO CYBERSECURITY 3 Credit Hours
This course introduces students to the fundamentals of computer technology and cybersecurity. Students develop an understanding of computer hardware and software, cybercrime, security principles, technologies and procedures used to defend networks. This course also explores cyber trends, threats and personal privacy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 11001 INTRODUCTION TO ENGINEERING 2 Credit Hours
An introductory course in engineering covering topics including introductory topics in what it means to be an engineer. Additional topics include introductions to engineering standards, statistics, technical writing and communication, significant figures and engineering problem solving. Students also learn about working in teams and managing a project and utilize the concepts learned in a semester long team design project.
Prerequisite: Minimum C- grade in the following courses: MATH 10675 or MATH 10775 or MATH 11010; or a pre/co-requisite of MATH 11022 or MATH 12002 or MATH 12011; or minimum 67 ALEKS math score.
Corequisite: ENGR 11002.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 11002 INTRODUCTION TO ENGINEERING LABORATORY 1 Credit Hour
An introductory course in engineering covering topics including introductory topics in what it means to be an engineer. Additional topics include introductions to engineering standards, statistics, technical writing and communication, significant figures and engineering problem solving. Students also learn about working in teams and managing a project and utilize the concepts learned in a semester long team design project.
Prerequisite: Minimum C- grade in the following courses: MATH 10675 or MATH 10775 or MATH 11010; or a pre/co-requisite of MATH 11022 or MATH 12002 or MATH 12011; or minimum 67 ALEKS math score.
Corequisite: ENGR 11001.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 13586 COMPUTER AIDED DESIGN I 2 Credit Hours
Introduction to 3D computer-aided design (CAD). Students create 3D models and assemblies using a feature-based parametric solid modeling CAD package. Students learn concepts of engineering graphics as well as learn to generate, edit and dimension drawing views. Students are required to bring their own portable computer.
Prerequisite: None.
Corequisite: ENGR 13587.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 13587 COMPUTER AIDED DESIGN I LABORATORY 1 Credit Hour
Introduction to 3D computer-aided design (CAD). Students create 3D models and assemblies using a feature-based parametric solid modeling CAD package. Students learn concepts of engineering graphics as well as learn to generate, edit and dimension drawing views. Students are required to bring their own portable computer.
Prerequisite: None.
Corequisite: ENGR 13586.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 15300 ENGINEERING COMPUTING AND PROBLEM SOLVING 2 Credit Hours
Introduction to basic concepts in engineering analysis using the Matlab® computing language, the industry standard “first language” for engineers. Introduction to algorithm coding and development, debugging, analysis and interpretation. Students are required to bring their own portable computer and purchase the software for the course.
Prerequisite: Minimum C- grade in the following courses: MATH 10675 or MATH 10775 or MATH 11010; or a pre/co-requisite of MATH 11022 or MATH 12002 or MATH 12011; or minimum 67 ALEKS math score.
Corequisite: ENGR 15301.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 15301 ENGINEERING COMPUTING AND PROBLEM SOLVING LABORATORY 1 Credit Hour
Laboratory session introducing basic concepts in engineering analysis using the Matlab® computing language, the industry standard “first language” for engineers. Introduction to algorithm coding and development, debugging, analysis and interpretation.
Corequisite: ENGR 15300.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 15302 MATLAB SKILLS FOR ENGINEERS 1 Credit Hour
MATLAB® is a computing language used by engineers for analysis, problem-solving, and simulation. This course is intended for students that have prior programming experience but would like to extend that knowledge to MATLAB. The course will focus on the differences between MATLAB and other languages and how to utilize its capabilities in engineering. No credit earned toward a degree for this course if student already earned credit for ENGR 15300 and ENGR 15301.
Prerequisite: Minimum C- grade in the following courses: CS 13001 or CS 13012 or (ENGR 26220 and ENGR 26222); and MATH 12002 or MATH 12012 with a minimum C grade.
Pre/corequisite: ENGR 11001 and ENGR 11002.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 20000 PROFESSIONAL DEVELOPMENT IN ENGINEERING 1 Credit Hour
Providing several direct opportunities for interviewing and networking with engineering industry professionals, the main goal of this course is to prepare students for internship and career opportunities. Students will also have opportunities to develop necessary financial literacy skills to succeed in post-graduate careers while detailing and implementing short, middle and long-term life goals as part of the life-long learning process.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 20002 MATERIALS AND PROCESSES 3 Credit Hours
Study and practice addressing the nature of basic manufacturing materials and the processes by which they are converted into manufactured products. Includes laboratory experience.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 4 lab
Grade Mode: Standard Letter

ENGR 21020 SURVEY OF ELECTRICITY AND ELECTRONICS 3 Credit Hours
Survey of DC and AC circuits, semiconductors and electronic devices, including microprocessors and embedded systems.
Prerequisite: MATH 11022 or a pre/corequisite of MATH 12002 or MATH 12011; and PHY 13001 or PHY 23101.
Pre/corequisite: PHY 13002 or PHY 23102.
Corequisite: ENGR 21022.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 21022 SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY 1 Credit Hour
Laboratory experiments related to ENGR 21020.
Corequisite: ENGR 21020.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 23010 COMPUTER HARDWARE 3 Credit Hours
Introduction to the hardware, architecture and operation of the personal computer and associated devices. Topics include personal computer architecture and operation fundamentals; basic hardware; data buses and ports; hardware component packaging; auxiliary hardware components; computer assembly; basic hardware installation and configuration; and basic troubleshooting. This course is aligned with A+ content. CompTIA A+ is the preferred qualifying credential for technical support and IT operational roles.
Prerequisite: ENGR 10005.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 23585 COMPUTER AIDED DESIGN II 3 Credit Hours
Advanced applications of 3D, feature based, parametric, solid modeling software including finite element analysis, simulation, parameters, motion and mechanisms and other advanced tools in the design of parts and assemblies.
Prerequisite: ENGR 13586 and ENGR 13587.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

ENGR 25200 STATICS 3 Credit Hours
Forces and moments; equilibrium in two and three dimensions; multi-force members; equilibrium, centroids and friction.
Prerequisite: MATH 12002 with a minimum C grade; and minimum 2.250 overall GPA.
Pre/corequisite: ENGR 11001 and ENGR 11002 and PHY 23101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 25400 DYNAMICS 3 Credit Hours
Kinematics and kinetics of rigid bodies in planar motion, including force and acceleration, work and energy and impulse and momentum. Introduction to the kinematics and kinetics of rigid bodies in three-dimensional motion.
Prerequisite: MATH 22005 or MATH 32051; and ENGR 25200 and PHY 23101 with a minimum C grade.
Pre/corequisite: ENGR 11001 and ENGR 11002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 25500 AERODYNAMICS FOR ENGINEERS I 3 Credit Hours
Basic fluid dynamics concepts, conservation laws, potential, airfoil and wing analysis. Boundary layers on plates and airfoils. Pressure gradients. Introduction to turbulent and vortex-dominated flows.
Prerequisite: ENGR 25200; and MATH 22005 or MATH 32051 .
Pre/corequisite: ENGR 11001 and ENGR 11002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 26220 PROGRAMMING FOR ENGINEERS 2 Credit Hours
Introduction to engineering problem solving and use of programming language to solve those problems. Students are expected to develop basic mathematical modeling and engineering problem solving skills using mathematical tools and programming languages. Developing modeling and logical thinking are core objectives of this course. This course provides students with the required programming skills to work with embedded systems. Students are required to bring their own College of Aeronautics and Engineering (CAE) approved laptop. Specifications can be found on the CAE website.
Prerequisite: Sophomore standing.
Corequisite: ENGR 26222.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 26222 PROGRAMMING FOR ENGINEERS LABORATORY 1 Credit Hour
Lab to accompany ENGR 26220. Introduction to engineering problem solving and use of programming language to solve those problems. Students are expected to develop basic mathematical modeling and engineering problem solving skills using mathematical tools and programming languages. Developing modeling and logical thinking are core objectives of this course. This course provides students with the required programming skills to work with embedded systems. Students are required to bring their own College of Aeronautics and Engineering (CAE) approved laptop. Specifications can be found on the CAE website.
Prerequisite: Sophomore standing.
Corequisite: ENGR 26220.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 26305 NETWORKING I 2 Credit Hours
A hands-on, applied engineering-focused course emphasizing the operation, maintenance and performance aspects of personal computer networking hardware. Topics include networking hardware operation, characteristics, configuration and troubleshooting fundamentals. Course also includes network standards, protocols, configuration, topologies and administrative fundamentals as related to networking hardware systems.
Prerequisite: None.
Corequisite: ENGR 26306.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 26306 NETWORKING I LABORATORY 1 Credit Hour
A hands-on, applied engineering-focused course emphasizing the operation, maintenance and performance aspects of personal computer networking hardware. Topics include networking hardware operation, characteristics, configuration and troubleshooting fundamentals. Course also includes network standards, protocols, configuration, topologies and administrative fundamentals as related to networking hardware systems.
Prerequisite: None.
Corequisite: ENGR 26305.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 27100 FUNDAMENTALS OF OPERATING SYSTEMS FOR ENGINEERING 3 Credit Hours
The course will prepare students to engineer, install, monitor and manage systems using open-source operating systems. The students will learn operating system fundamentals for engineering applications, including cybersecurity engineering applications. Students will also learn how to configure local storage, create and configure systems, deploy and maintain systems, manage users and groups, and manage security. Different types of open source operating systems that are relevant for engineering systems will be introduced to students, in conjunction with key tools used in cybersecurity engineering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 27210 INTRODUCTION TO SUSTAINABILITY 3 Credit Hours
Introduces students to the concepts of sustainability and its three pillars, namely, economic growth, environmental protection and social equality. Students taking the course understand the language and concepts of sustainability and acquire the knowledge to further study sustainability.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 28105 FUNDAMENTALS OF NETWORKED INFRASTRUCTURE 2 Credit Hours
Computer networking foundations and associated cybersecurity posture development for infrastructure that provides network connectivity to engineering systems, such as production plants, manufacturing, utilities, machine shops and similar industries where industrial control systems are utilizing networks to exchange digital information.
Prerequisite: Sophomore standing.
Pre/corequisite: ENGR 10005.
Corequisite: ENGR 28106.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 28106 FUNDAMENTALS OF NETWORKED INFRASTRUCTURE LABORATORY 1 Credit Hour
Computer networking foundations and associated cybersecurity posture development for infrastructure that provides network connectivity to engineering systems, such as production plants, manufacturing, utilities, machine shops and similar industries where industrial control systems are utilizing networks to exchange digital information.
Prerequisite: Sophomore standing.
Corequisite: ENGR 28105.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 30001 APPLIED THERMODYNAMICS 3 Credit Hours
Study of basic thermodynamic laws and how they apply to engineering applications. Topics include energy, entropy, enthalpy, heat engines and refrigerators. Introductory fluid mechanics, including Bernoulli's equation. Introductory heat transfer including conduction, convection and radiation.
Prerequisite: PHY 13001 or PHY 23101; and minimum C grade in the following courses: MATH 11022 or MATH 11012 or MATH 12002 or MATH 12011 or MATH 12012.
Pre/corequisite: ENGR 11001 and ENGR 11002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 31000 CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC) 3 Credit Hours
This course provides a comprehensive exploration of how technology profoundly shapes and is shaped by society. It delves into the intricate relationship between technology and society, offering students a nuanced perspective on the cultural dynamics of technological change within an engineering context. Students explore how technology significantly influences, reflects and coevolves with society by analyzing a wide range of topics from genetic engineering and economic systems to communication infrastructure and governance, all within the framework of engineering practices and principles.
Prerequisite: ENG 21011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Writing Intensive Course

ENGR 31016 MANUFACTURING TECHNOLOGY 3 Credit Hours
This course is designed to provide experience in, and an understanding of, the interrelationships of the major aspects of a manufacturing enterprise. The content of the course is oriented around the laboratory activities necessary to organize and operate an enterprise that will apply mass production techniques necessary to produce a product or service. During the course, the student will apply the concepts from lecture in the selection, designing, financing, production, marketing and distributing of a product or service.
Prerequisite: ENGR 20002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 31020 AUTOMATED MANUFACTURING 3 Credit Hours
Theory and operation of computer controlled machine tools, robots and processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 31065 CAST METALS 3 Credit Hours
Principles and processes of metal casting with a focus on current industrial practices. Includes laboratory experience with nonferrous metals and industrial tours.
Prerequisite: ENGR 20002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

ENGR 33031 PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours
An introduction to programmable logic controllers (PLCS) covering hardware, ladder logic programming, networking and communications. Programming timers, counters and sequencers and an introduction to human machine interfaces (HMIS).
Prerequisite: (EERT 12000 and EERT 12001) or ENGR 21020 or ENGR 35500.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: ITAG Engineering Technology, TAG Engineering Technology

ENGR 33032 PROGRAMMABLE LOGIC CONTROLLERS II 3 Credit Hours
Advanced principles and applications of programmable logic controllers with a focus on using sequential function charts to control complex industrial processes. Includes real time control issues, PLC networking, programming languages other than ladder logic, standards, motion control, supervisory control and data acquisition, process control, alarm management, power failure strategies and safety.
Prerequisite: ENGR 33031.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 33033 HYDRAULICS/PNEUMATICS 3 Credit Hours
Fluid properties, hydraulic design, viscosity, hydraulic components, pumps, systems and circuits, maintenance and safety, pneumatics, air systems control and design.
Prerequisite: PHY 13001 or PHY 23101.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 33041 CONTROL SYSTEMS 3 Credit Hours
Design and analysis of feedback control systems. Course includes introduction to feedback control systems, open loop and closed loop control, Laplace transforms, control system models, static and dynamic response, stability and performance of control systems, root locus technique, frequency response analysis (Bode plot) and design of controller for feedback control systems.
Prerequisite: (EERT 12000 and EERT 12001) or ENGR 21020 or ENGR 35500; and MATH 12002 or MATH 12012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 33111 STATICS AND STRENGTH OF MATERIALS 3 Credit Hours
An algebra-based analytical study of equilibrium of extended two-dimensional bodies; the concepts of elastic and thermal properties of materials; centroid and moment of inertia; and the relationship between the external forces applied to extended objects (generally beams and columns) and the resulting bending and shear stresses, the resulting strains and deformation of the object.
Prerequisite: PHY 13001 or PHY 23101.
Pre/corequisite: ENGR 11001 and ENGR 11002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 33222 DIGITAL DESIGN FOR COMPUTER ENGINEERING 3 Credit Hours
Introduction to digital design. The operation and use of digital devices and components as used in microprocessors and digital computers. Topics include binary arithmetic operations, Boolean algebra, logic gates, combinational and sequential logic, buffers, registers, memory devices. Students are exposed to applied problem solving via basic programing with microcontrollers and microprocessors.
Prerequisite: (EERT 12000 and EERT 12001) or ENGR 21020 or ENGR 35500.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 33223 ELECTRONIC COMMUNICATION 3 Credit Hours
Principles of digital and analog telecommunications and data signals. Topics include electromagnetic signal time and frequency characteristics, signal propagation, signal modulation, transmission lines, wireless signals, antennas, digital signal characteristics and protocols, signal multiplexing, microwave devices and applications.
Prerequisite: (EERT 12000 and EERT 12001) or (ENGR 21020 and ENGR 21022) or (ENGR 35500 and ENGR 35501).
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 33320 APPLIED EMBEDDED SYSTEMS I 3 Credit Hours
Course teaches students to utilize embedded systems for engineering problem solving. Students are exposed to the history of the microcontroller that is at the heart of modern embedded systems. Students learn about the different classes of embedded systems and form a foundation from which they can begin to develop solutions to simple, but real-world, problems using simple embedded microcontrollers, electronic devices and sensors. Basic coding principles are explained from an engineering problem solving perspective.
Prerequisite: CS 13001 or CS 13012 or (ENGR 26220 and ENGR 26222); and (EERT 12000 and EERT 12001) or (ENGR 21020 and ENGR 21022) or (ENGR 35500 and ENGR 35501).
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 33334 INDUSTRIAL ROBOTICS 1 Credit Hour
Classification, characteristics and functions of industrial robots. Covers basic safety precautions for working with robots. Laboratory time is spent programming FANUC industrial robots and utilizing FANUC robot teach pendants. Students have the opportunity to obtain a FANUC Robotics Handling Tool Operation and Programming certificate of completion.
Prerequisite: PHY 13002.
Corequisite: ENGR 33335.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 33335 INDUSTRIAL ROBOTICS LABORATORY 1 Credit Hour
Classification, characteristics and functions of industrial robots. Covers basic safety precautions for working with robots. Laboratory time is spent programming FANUC industrial robots and utilizing FANUC robot teach pendants. Students have the opportunity to obtain a FANUC Robotics Handling Tool Operation and Programming certificate of completion. This is the laboratory portion of the course.
Prerequisite: PHY 13002.
Corequisite: ENGR 33334.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 33364 METALLURGY AND MATERIALS SCIENCE 3 Credit Hours
Scientific study of modern manufacturing materials (metals, plastics and ceramics) with an emphasis on metals, laboratory test methods and data used to determine their manufacturing specifications and properties.
Prerequisite: ENGR 20002; and PHY 13001 or PHY 23101 with a minimum C grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 33440 ELECTRONIC DEVICES 3 Credit Hours
Introduction to electronic non-linear devices including diodes, transistors, optoelectronic devices and operational amplifiers. Use and application of these devices in different types of application like rectifiers, amplifiers and linear integrated circuits.
Prerequisite: (EERT 12000 and EERT 12001) or (ENGR 21020 and ENGR 21022) or (ENGR 35500 and ENGR 35501).
Corequisite: ENGR 33442.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 33442 ELECTRONIC DEVICES LABORATORY 1 Credit Hour
Course is lab component for ENGR 33440. Lab materials mirror concepts learned in lecture, including the introduction to electronic non-linear devices (e.g., diodes, transistors, optoelectronic devices, operational amplifiers). Use and application of these devices in different types of application like rectifiers, amplifiers and linear integrated circuits.
Prerequisite: (EERT 12000 and EERT 12001) or (ENGR 21020 and ENGR 21022) or (ENGR 35500 and ENGR 35501).
Corequisite: ENGR 33440.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 33700 QUALITY TECHNIQUES 3 Credit Hours
Introduction to quality management and the tools and techniques including the basic tools identified by ASQ (American Society for Quality) as well as an introduction to Lean and Six Sigma. Information presented helps prepare the student to qualify for the Quality Process Analyst Certification.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 33870 FACILITY DESIGN AND MATERIAL HANDLING 3 Credit Hours
This course provides students with a fundamental understanding of how layout affects the flow through a system. Both qualitative and quantitative tools are presented for complete approach to facility design and material handling. This course focuses on the design and layout of facilities and provides a detailed exploration of the principles and practices involved in planning various types of facilities, including manufacturing plants, warehouses and service centers. The course covers a range of topics, including facility layout and design, location planning, material handling, workplace design and sustainability.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 35200 THERMAL FLUID ENGINEERING 3 Credit Hours
First and Second Law of Thermodynamics for closed and open systems. Fundamentals of fluid mechanics and heat transfer.
Prerequisite: MATH 22005 or MATH 32051; and PHY 23101.
Corequisite: ENGR 35201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 35201 THERMAL FLUID ENGINEERING LABORATORY 1 Credit Hour
Laboratory demonstrations and experiments for various heat transfer and fluid dynamics concepts.
Prerequisite: None.
Corequisite: ENGR 35200.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 35300 AIRCRAFT PERFORMANCE AND STABILITY I 3 Credit Hours
First of a two-course sequence in aircraft performance and flight mechanics. Performance analysis of fixed-wing performance. Development of the aircraft equations of motion. Static stability analysis. Introduction to rotary-wing performance.
Prerequisite: ENGR 15300 and ENGR 15301; and MATH 32044 or MATH 32052; and ENGR 25400 and ENGR 25500 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 35500 SIGNALS AND CIRCUITS 3 Credit Hours
An introduction to electric circuit elements and electronic devices and a study of circuits containing such devices. Both analog and digital systems are considered.
Prerequisite: MATH 12002.
Pre/corequisite: PHY 23102.
Corequisite: ENGR 35501.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 35501 SIGNALS AND CIRCUITS LABORATORY 1 Credit Hour
Laboratory demonstrations and experiments for electrical circuits, data acquisition, and signal measurements.
Corequisite: ENGR 35500.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 35550 LAW AND ETHICS FOR ENGINEERS 2 Credit Hours
This course examines legal and ethical issues in engineering design. Special focus is given to negligence law, strict product liability law, design and manufacturing defects, patent, copyright and trademark law. Employment law and whistleblower protection are discussed in the context of the engineer. Special focus is given through the examination of case studies including, but not limited to, the Space Shuttle Challenger disaster, the Space Shuttle Columbia disaster and the Boeing 737 Max crashes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 35600 AERODYNAMICS FOR ENGINEERS II 3 Credit Hours
Compressible flow relationships; compressibility effects on airfoil and wing aerodynamics; shock waves; boundary layer effects on aircraft performance.
Prerequisite: ENGR 25500; and MATH 32044 or MATH 32052.
Pre/corequisite: ENGR 35200.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 35765 QUALITY AND RELIABILITY ENGINEERING 3 Credit Hours
Introduction to reliability and quality engineering with an emphasis on manufacturing and techniques for improving quality and reliability. Includes reliability, reliability prediction, quality techniques, modeling statistical process control, control charts, sampling, experimental design, and designing and manufacturing for quality and reliability.
Prerequisite: MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 36305 NETWORKING II 2 Credit Hours
Continuation of ENGR 26305 and ENGR 26306. In-depth coverage of personal computer-based enterprise networking systems hardware with a focus on network hardware and software configuration, fault analysis, diagnostics and troubleshooting. Topics include router and switch operation, programming, configuration and troubleshooting, along with overall enterprise network maintenance, troubleshooting and repair. Course also includes WAN and VLAN fundamentals, intermediate TCP/IP and network administration and maintenance as related to fielding and maintaining networking hardware components and systems.
Prerequisite: ENGR 26305 and ENGR 26306.
Corequisite: ENGR 36306.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 36306 NETWORKING II LABORATORY 1 Credit Hour
Continuation of ENGR 26305 and ENGR 26306. In-depth coverage of personal computer-based enterprise networking systems hardware with a focus on network hardware and software configuration, fault analysis, diagnostics and troubleshooting. Topics include router and switch operation, programming, configuration and troubleshooting, along with overall enterprise network maintenance, troubleshooting and repair. Course also includes WAN and VLAN fundamentals, intermediate TCP/IP and network administration and maintenance as related to fielding and maintaining networking hardware components and systems.
Prerequisite: ENGR 26305 and ENGR 26306.
Corequisite: ENGR 36305.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 36337 INFORMATION TECHNOLOGY SECURITY 3 Credit Hours
This course provides the foundation for understanding the key issues associated with protecting information assets. It covers the essential principles for information security and risk management; making it an important stepping stone of an IT security career. The course is supported with case based industry problems and their solutions through simulation based labs. Additionally, this course prepares students for CompTIA's Security+ SY0-501 certification exam.
Prerequisite: ENGR 10005; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 36620 PROJECT MANAGEMENT IN ENGINEERING 3 Credit Hours
The planning, organizing, directing and controlling of company technology resources for project-based management functions. Includes project coordination requirements, management and planning methods and the use of various management and planning tools.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 37777 CYBERSECURITY OPERATIONS 2 Credit Hours
The course also aligns to the Cisco Certified CyberOps Associate certification and covers how to monitor, detect, and respond to cybersecurity threats, as outlined in the National Institute of Standards and Technology (NIST) Cybersecurity Framework. You will learn security concepts, security monitoring, host-based analysis, network intrusion analysis, and security policies procedures. This course also aligns with the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework to support consistent communication language for cybersecurity education, training, and workforce development.
Prerequisite: ENGR 26305 and ENGR 26306.
Corequisite: ENGR 37778.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 37778 CYBERSECURITY OPERATIONS LABORATORY 1 Credit Hour
Laboratory activities related to course ENGR 37777.
Prerequisite: ENGR 26305 and ENGR 26306.
Corequisite: ENGR 37777.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 38105 IOT SECURITY IN ENGINEERING SYSTEMS 2 Credit Hours
Internet of things and other endpoints that connect over a networked infrastructure for industrial/engineering process control and automation system data exchange functions may utilize proprietary and/or standard protocols. The main activities include gaining knowledge and understanding of networked industrial systems, protocol attack surface analysis, troubleshooting, security posture of systems and analysis of data flow toward risk assessment.
Prerequisite: ENGR 28105 and ENGR 28106; and junior standing.
Corequisite: ENGR 38106.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 38106 IOT SECURITY IN ENGINEERING SYSTEMS LABORATORY 1 Credit Hour
Internet of things and other endpoints that connect over a networked infrastructure for industrial/engineering process control and automation system data exchange functions may utilize proprietary and/or standard protocols. The main activities include gaining knowledge and understanding of networked industrial systems, protocol attack surface analysis, troubleshooting, security posture of systems and analysis of data flow toward risk assessment.
Prerequisite: ENGR 28105 and ENGR 28106; and junior standing.
Corequisite: ENGR 38105.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 38205 NETWORK INSTRUMENTATION AND FORENSIC ANALYSIS 2 Credit Hours
Essential network instrumentation principles that provide an industrial network the requisite monitoring capabilities to realize a holistic cybersecurity posture and maintenance thereof for given business policy statements. Foundations of forensic and root-cause analysis and fundamental tenets of network instrumentation are covered. The course includes a project about a realistic scenario where the activities revolve around network analysis and design with cybersecurity policy enforcement and maintenance under business changes.
Prerequisite: ENGR 28105 and ENGR 28106; and junior standing.
Corequisite: ENGR 38206.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 38206 NETWORK INSTRUMENTATION AND FORENSIC ANALYSIS LABORATORY 1 Credit Hour
Essential network instrumentation principles that provide an industrial network the requisite monitoring capabilities to realize a holistic cybersecurity posture and maintenance thereof for given business policy statements. Foundations of forensic and root-cause analysis and fundamental tenets of network instrumentation are covered. The course includes a project about a realistic scenario where the activities revolve around network analysis and design with cybersecurity policy enforcement and maintenance under business changes.
Prerequisite: ENGR 28105 and ENGR 28106; and junior standing.
Corequisite: ENGR 38205.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 40003 LEAN SIX SIGMA 3 Credit Hours
Students will gain a comprehensive understanding of the tools and methodologies necessary to optimize processes, minimize waste and enhance overall quality. This class begins by exploring the concept of a Lean history and Lean Enterprise, where the focus is on value creation and waste reduction across all operations. This course helps students to categorize activities into value-added, non-value-added, or necessary non-value-added and how to address the eight types of waste. The course also examines the five core principles of Lean: Value, Value Stream, Flow, Pull, and Perfection, and examine how these principles can be applied to real-world scenarios. Introduces key tools such as Value Stream Mapping, Kaizen, 5S, Kanban and Root Cause Analysis to help identify opportunities for continuous improvement.
Prerequisite: ENGR 11001 and ENGR 11002; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 41065 SOLID MODELING AND SOLIDIFICATION SIMULATION 3 Credit Hours
Introduction to casting simulation software with an emphasis on projects related to design and filling of casting molds.
Prerequisite: ENGR 13586 and ENGR 13587 and ENGR 31065.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 42111 STRENGTH OF MATERIALS FOR ENGINEERS 3 Credit Hours
(Slashed with ENGR 52111 and ENGR 72111) The mathematical study of how materials respond to external forces. Stress, strain, torsion; deformation of thin-walled pressure vessels, beams and columns; and an introduction to energy methods.
Prerequisite: ENGR 25200; and MATH 32044 or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 42363 MATERIALS SELECTION IN DESIGN AND APPLICATIONS 3 Credit Hours
Description and analysis of procedures for selecting appropriate materials for a particular mechanical design. The affect of processing on material properties, introduction to materials science for users of materials. Extensive case studies of materials selection and materials and sustainability.
Prerequisite: ENGR 20002; and ENGR 33111 or ENGR 42111.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 42410 ENGINEERING OPTIMIZATION 3 Credit Hours
(Slashed with ENGR 52410 and ENGR 72410) This course will cover the theoretical foundations and present methods associated with the engineering optimization field, including: problem statement formulation; sensitivity methods; decomposition methods; Multidisciplinary Design Optimization (MDO) formulations; unconstrained and constrained 1-D and n-D search methods; and an introduction to heuristic search methods. Engineering optimization in the context of design of complex engineering systems will be discussed as well, with an emphasis on emerging techniques in the field.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 42610 INDUSTRIAL ROBOTICS AND VISION SYSTEMS 1 Credit Hour
Students learn how to program a FANUC industrial robot using the teach pendant. They also learn how to set up and use an industrial robot vision system. Students who successfully complete this course and the corequisite lecture will receive both FANUC Robotics Handling Tool Operation and Programming and FANUC V-iRVison Operation and Programming - 2D Certificates of Completion.
Prerequisite: PHY 13002 or PHY 23102; and senior standing.
Corequisite: ENGR 42611.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 42611 INDUSTRIAL ROBOTICS AND VISION SYSTEMS LABORATORY 2 Credit Hours
Students learn how to program a FANUC industrial robot using the teach pendant. They also learn how to set up and use an industrial robot vision system. Students who successfully complete this course and the corequisite lecture will receive both FANUC Robotics Handling Tool Operation and Programming and FANUC V-iRVison Operation and Programming - 2D Certificates of Completion.
Prerequisite: PHY 13002 or PHY 23102; and senior standing.
Corequisite: ENGR 42610.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

ENGR 42620 INDUSTRIAL AUTOMATION AND CONTROL 1 Credit Hour
Course covers programmable logic controllers, variable frequency drive motor control, human machine interfaces and industrial networking.
Prerequisite: ENGR 21020 (and ENGR 21022) or ENGR 35500 (and ENGR 35501).
Corequisite: ENGR 42621.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 42621 INDUSTRIAL AUTOMATION AND CONTROL LABORATORY 2 Credit Hours
Laboratory utilizing programmable logic controllers, variable frequency drive motor control, human machine interfaces and industrial networking.
Prerequisite: ENGR 21020 (and ENGR 21022) or ENGR 35500 (and ENGR 35501).
Corequisite: ENGR 42620.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

ENGR 42710 ADDITIVE MANUFACTURING AND 3D PRINTING 2 Credit Hours
(Slashed with ENGR 52710 and ENGR 72710) This course is designed to provide engineering students with knowledge about all available Rapid Prototyping and Rapid Tooling Techniques. Topics covered will include fundamentals of rapid prototyping and additive manufacturing, reverse engineering, CAD modeling, and current 3D printing technologies. Additional concepts important to product development in aviation industry and medical applications will be addressed and exercise during term projects. This class helps in preparing student to pass the SME- AM certification exam.
Prerequisite: (ENGR 13586 and ENGR 13587) or MERT 12001; and junior standing.
Corequisite: ENGR 42711.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 42711 ADDITIVE MANUFACTURING AND 3D PRINTING LABORATORY 1 Credit Hour
(Slashed with ENGR 52711 and ENGR 72711) This course is the laboratory component for the corequisite course. The course is designed to provide engineering students with knowledge about all available Rapid Prototyping and Rapid Tooling Techniques. Topics covered will include fundamentals of rapid prototyping and additive manufacturing, reverse engineering, CAD modeling, and current 3D printing technologies. Additional concepts important to product development in aviation industry and medical applications will be addressed and exercise during term projects. This class helps in preparing student to pass the SME- AM certification exam
Corequisite: ENGR 42710.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 43026 MICROPROCESSOR SYSTEMS 4 Credit Hours
(Slashed with ENGR 53026) Introduction to the architecture, operation and applications of an advanced microprocessor, focusing on assembly language programming and interfacing of standard programmable peripherals.
Prerequisite: ENGR 33222 and ENGR 46330.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 43030 MECHATRONICS 3 Credit Hours
(Slashed with ENGR 53030 and ENGR 73030) Application of automation concepts in motion control, electrical circuits, fundamental mechanics, control systems and programming, including modeling, interfacing and signal conditioning.
Prerequisite: ENGR 26220 and ENGR 26222; and PHY 13002 or PHY 23102.
Pre/corequisite: ENGR 33031 and ENGR 33041.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 43050 INVENTIVE PROBLEM SOLVING 3 Credit Hours
Theory of Inventive Problem Solving, TRIZ, is a collection of powerful problem-solving tools for a broad range of inventive problems. Capstone web-based course for students finishing their bachelor's degree. Assists students in utilizing material learned in earlier courses to solve many real world problems in multiple disciplines.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 43080 INDUSTRIAL AND ENVIRONMENTAL SAFETY 3 Credit Hours
Examines the occupational safety and health act and fundamentals of industrial safety programs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 43099 MECHATRONICS CAPSTONE (ELR) (WIC) 3 Credit Hours
Students work as members of integrated product teams to design and implement one or more mechatronics projects incorporating appropriate engineering standards and multiple design constraints. Final design report to include complete documentation of the design process, how constraints were met and all appropriate documentation of the final design (e.g. block and schematic diagrams, CAD models/drawings, a bill of materials, appropriate engineering calculations, discussion of the use of engineering standards).
Prerequisite: ENGR 43030; and a minimum 2.000 overall GPA.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENGR 43220 ELECTRICAL MACHINERY 3 Credit Hours
Principles of operation and application of motors, generators, transformers and other magnetic devices; electrical power generation, distribution and use.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 43550 COMPUTER-AIDED MANUFACTURING 3 Credit Hours
(Slashed with ENGR 53550) The application of computers to the preparation of machine tool control programs.
Prerequisite: (ENGR 13586 and ENGR 13587) or MERT 12001; and ENGR 20002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 43580 COMPUTER-AIDED MACHINE DESIGN 3 Credit Hours
Application of the principles of mechanics and strength of materials, with computer assistance to the design and selection of machine components under both static and dynamic loads.
Prerequisite: ENGR 13586 and ENGR 13587; and ENGR 33111 or ENGR 42111 or MERT 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 43899 ENGINEERING TECHNOLOGY CAPSTONE (ELR) (WIC) 3 Credit Hours
As the capstone course in Industrial Engineering Technology and Mechanical Engineering Technology, students develop and participate in all aspects of a project involving the solution of a problem through application of technology.
Prerequisite: ENGR 21020; and ENGR 21022; and ENGR 33111; and ENGR 43550 or ENGR 43580; and a minimum 2.000 overall GPA; and senior standing.
Schedule Type: Project or Capstone, Seminar
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENGR 45099 CAPSTONE: FOUNDRY TOOLING AND PATTERN MAKING (ELR) 3 Credit Hours
A project based lecture-lab focused on production of foundry tooling, testing and quality approval.
Prerequisite: ENGR 41065 and ENGR 43550.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab, Project or Capstone
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENGR 45121 AEROSPACE PROPULSION FOR ENGINEERING 3 Credit Hours
An in-depth study of gas turbine engines, rockets and hypersonic propulsion systems used in aerospace applications. Includes propulsion system design and operation, and the analysis of performance characteristics.
Prerequisite: ENGR 30001 or ENGR 35200; and MATH 22005 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 45151 APPLIED FLIGHT DYNAMICS II 3 Credit Hours
Aerodynamics, flight dynamics, and flight performance of high performance aircraft. Course includes supersonic aerodynamics, flight stability and handling, and an in-depth investigation and analysis of flight performance parameters including lift, drag, load factor, climb performance, and turn performance.
Prerequisite: AERN 45150.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

ENGR 45600 AIRCRAFT PERFORMANCE AND STABILITY II 3 Credit Hours
Second of a two-course sequence in aircraft performance and flight mechanics. Aircraft design introduction, linearized equations of motion, aircraft dynamics modes, approximations and control, aircraft root locus analysis, aircraft handling qualities.
Prerequisite: ENGR 35300; and ENGR 33041 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 45799 AIRCRAFT DESIGN I (ELR) 3 Credit Hours
(Slashed with ENGR 55799) First of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to aircraft, rotorcraft and spacecraft. Primary focus on introduction to design, decision making in design and preliminary sizing of an aerospace vehicle to meet customer requirements. Final technical report and presentation. Students must be within three semesters of graduating from their program and satisfy their program's major and overall GPA to register for the course.
Prerequisite: Special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENGR 45899 AIRCRAFT DESIGN II (ELR) (WIC) 3 Credit Hours
(Slashed with ENGR 55899) Second of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to aircraft, rotorcraft, and spacecraft. Primary focus on sub-system design (i.e., propulsion, structure, controls, etc.), and overall vehicle integration of these subsystems. Cost analysis and safety analysis. Final technical report and or model prototype.
Prerequisite: ENGR 45799.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENGR 45901 INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS 3 Credit Hours
(Slashed with ENGR 55901 and ENGR 75901) The objective of this course is to teach in a unified manner the fundamentals of the finite element method for the analysis of engineering problems arising in solids and structures. The course emphasizes the solution of real-life problems using the finite element method, and students get exposure to commercial finite element software (ANSYS or ABAQUS) and learn to critically evaluate finite element models. Examples are provided for solid, fluid and heat transfer applications. Finally, developing an understanding of the computational aspects of the finite element method and its application in realistic aerospace applications are the core goals of this course.
Prerequisite: ENGR 13586 and ENGR 13587; and MATH 32044 or MATH 32052; and senior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 46099 COMPUTER ENGINEERING TECHNOLOGY CAPSTONE (ELR) 3 Credit Hours
This course provides students with an integrative experience, applying aspects of the student's required coursework in computer engineering technology. Students gain experience in developing requirements in engineering specifications for a practical problem in networking and/or telecom-related projects. This course addresses emerging issues, capabilities and challenges in the current field of study. Students must be within two semesters of graduating from their program and satisfy their program's major and overall GPA to register for the course.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab, Project or Capstone
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENGR 46305 NETWORK SECURITY 2 Credit Hours
Introduction to network security with emphasis in identifying, analyzing and preventing various threats and attack patterns on computer networks. Students gain practical knowledge on network security protocols, firewalls, VPN, intrusion detection and prevention systems.
Prerequisite: ENGR 26305 and ENGR 26306.
Corequisite: ENGR 46306.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 46306 NETWORK SECURITY LABORATORY 1 Credit Hour
Introduction to network security with emphasis in identifying, analyzing and preventing various threats and attack patterns on computer networks. Students gain practical knowledge on network security protocols, firewalls, VPN, intrusion detection and prevention systems.
Prerequisite: ENGR 26305 and ENGR 26306.
Corequisite: ENGR 46305.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 46312 WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS 3 Credit Hours
(Slashed with ENGR 56312) Course builds upon existing wired networking skills and extends students' knowledge into the world of wireless networking. Students learn digital wireless fundamentals, wireless standards, how to implement a wireless network in an enterprise environment and how to troubleshoot wireless issues. Curriculum follows and prepares students for industry certification in wireless networking.
Prerequisite: ENGR 26305 and ENGR 26306.
Pre/corequisite: ENGR 36305 and ENGR 36306.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 46316 SERVER ADMINISTRATION AND CONFIGURATION I 3 Credit Hours
This course emphasizes on configuring and administering server operating systems to solve engineering problems. Students are expected to learn MS server management, Active Directory, OUs and server roles by utilizing variety of on-based and cloud based solutions.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 46317 SERVER ADMINISTRATION AND CONFIGURATION II 2 Credit Hours
Server Administration and Configuration II Lecture provides an in-depth coverage of the 70-741 certification exam objectives and focuses on the skills you need to configure networking with Windows Server 2016 and AZURE. After you finish this course, you'll have an in-depth knowledge of Windows Server 2016 networking services, including TCP/IP, DNS, DHCP, IPAM, remote access and advanced networking solutions.
Prerequisite: ENGR 46316.
Corequisite: ENGR 46318.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 46318 SERVER ADMINISTRATION AND CONFIG II - LABORATORY 1 Credit Hour
Server Administration and Configuration II Lab provides the hands-on component of ENGR 46317. It provides an in-depth coverage of the 70-741 certification exam objectives and focuses on the skills you need to configure networking with Windows Server 2016 and AZURE. After finishing this course, you'll have an in-depth knowledge of Windows Server 2016 networking services, including TCP/IP, DNS, DHCP, IPAM, remote access and advanced networking solutions.
Prerequisite: ENGR 46316.
Corequisite: ENGR 46317.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 46330 VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY 3 Credit Hours
(Slashed with ENGR 56330) Course includes programming in a high-level object-oriented, event- driven visual programming language, Visual Basic 2010 Express, conditional statements, iterative statements, arrays, object oriented programming, classes, objects, methods, inheritance, exception handling, graphical user interfaces with Windows Forms.
Prerequisite: ENGR 10005.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

ENGR 46351 NETWORK MANAGEMENT AND DESIGN 2 Credit Hours
Course covers the technical aspects of centrally managed and distributed wide area networks, with an emphasis on the techniques used to maintain and improve the performance of telecommunications and data networks. Students use software packages to monitor the real-time performance of a network and to diagnose various networking hardware and software problems. Topics include the five stacks of network management (fault management, configuration management, performance management, security management and accounting management). Examples of current specific network management products are reviewed.
Prerequisite: ENGR 36305 and ENGR 36306.
Corequisite: ENGR 46352.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 46352 NETWORK MANAGEMENT AND DESIGN LABORATORY 1 Credit Hour
Course covers the technical aspects of centrally managed and distributed wide area networks, with an emphasis on the techniques used to maintain and improve the performance of telecommunications and data networks. Students use software packages to monitor the real-time performance of a network and to diagnose various networking hardware and software problems. Topics include the five stacks of network management (fault management, configuration management, performance management, security management and accounting management). Examples of current specific network management products are reviewed.
Prerequisite: ENGR 36305 and ENGR 36306.
Corequisite: ENGR 46351.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 47200 SYSTEMS ENGINEERING 3 Credit Hours
(Slashed with ENGR 57200) Systems engineering as a method to solve problems. Introduction to the fundamental systems engineering principles, processes, and methodologies used to analyze, design, develop, and deploy complex, sustainable systems. Focuses on systems engineering as a logical, disciplined, systematic, and coherent approach to the design and development of a system, across the full life cycle of the system. Special emphasis is made on the concepts, methods, and activities used to analyze systems, to define and allocate requirements, to transform requirements into a system design, and to verify and validate the system.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 47210 SUSTAINABLE ENERGY I 3 Credit Hours
(Slashed with ENGR 57210) A comprehensive overview of energy sources and energy systems, with an emphasis on renewable energy and the implementation and sustainability of various forms of energy. Examines the characteristics of conventional non-renewable energy systems, along with alternate, renewable energy sources and systems. Includes fundamental energy concepts and the conversion, delivery, distribution, and storage of energy. Explores the technological application of various sources of energy and compares their benefits and limitations. Also presents an overview of present U.S. and global energy needs and demands, and the sustainable energy technologies that may be used to meet future energy demands.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 47211 SUSTAINABLE ENERGY II 3 Credit Hours
(Slashed with ENGR 57211) An in-depth study of the analysis, selection and implementation of various energy and power sources, with an emphasis on the use of renewable, sustainable energy systems. Focuses on determining energy needs, and on assessing and comparing energy systems with respect to efficiency, technical feasibility, available resources, cost and sustainability characteristics. Includes economics of energy systems, methods for determining costs, and cost-benefit analysis of various energy and power systems. Also includes the social, economic and environmental impact associated with the development, implementation and use of various forms of energy.
Prerequisite: ENGR 47210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 48001 ORBITAL MECHANICS 3 Credit Hours
(Slashed with ENGR 58001 and ENGR 78001) The course is an introduction to orbital and trajectory design. Topics include Newton's law of gravity; two-body motion; relative equations of motion; conic sections; orbits in three dimensions; orbital maneuvers; and interplanetary transfers.
Prerequisite: ENGR 25400; and MATH 32044 or MATH 32052; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 48002 SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL 3 Credit Hours
(Slashed with ENGR 58002 and ENGR 78002) Spacecraft rigid body dynamics in terms of direction cosine matrix, Euler angles, principal rotation vector and quaternions. Attitude determination using TRIAD, quaternion and matrix solutions to Wahba's problem and an introduction to recursive estimation and Kalman Filter. Nonlinear stability and control technique (i.e., Lyapunov Theory) is introduced and applied to the attitude stabilization and control problem.
Prerequisite: ENGR 25400 and MATH 32052; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 48003 SPACECRAFT DESIGN 3 Credit Hours
(Slashed with ENGR 58003 and ENGR 78003) Spacecraft mission design course with a focus on hands-on design experience. The first portion of the course is lecture-based. Topics include launch systems, space environment, spacecraft orbits and ground tracks, spacecraft design and sizing, budget designs, subsystem design and evaluation, cost and risk. The second portion is dedicated to student teamwork on the spacecraft design.
Prerequisite: (PHY 13001 and PHY 13021) or PHY 23101; and CHEM 10050 or CHEM 10058 or CHEM 10060 or CHEM 10970; and MATH 12002 or MATH 12012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 48010 MACHINE VISION 3 Credit Hours
(Slashed with ENGR 58010 and ENGR 78010) Course explores concepts and techniques for image/video processing and machine vision. Topics covered include image formation, image filtering, edge detection and segmentation, object recognition, object detection and tracking, 3D vision, etc.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 48099 ENGINEERING CAPSTONE I (ELR) 3 Credit Hours
First of a two-course capstone sequence for engineering and engineering technology students. Students work as members of an integrated product team under a faculty advisor to develop a conceptual design/prototype of a complex system that accomplishes a set of functional requirements. These projects can take the form of state, regional or national design competitions; governmental-sponsored projects; or industry-sponsored projects. Students must be within three semesters of graduating from their program and satisfy their program's GPA to register for the course.
Prerequisite: Special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENGR 48191 ADVANCED CYBERSECURITY SEMINAR 3 Credit Hours
State of the art advanced applications and topics about cybersecurity engineering are covered. The content of the course changes from semester to semester based on the faculty member's domain expertise in the cybersecurity engineering area.
Prerequisite: ENGR 38205 and ENGR 38206; and senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENGR 48199 ENGINEERING CAPSTONE II (ELR) (WIC) 3 Credit Hours
Second of a two-course capstone sequence for engineering and engineering technology students. Students work as members of an integrated product team under a faculty advisor to develop a conceptual design/prototype of a complex system that accomplishes a set of functional requirements. These projects can take the form of state, regional, or national design competitions, governmental-sponsored projects, or industry-sponsored projects.
Prerequisite: ENGR 48099.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENGR 48200 WIRELESS MESH NETWORK SECURITY 3 Credit Hours
Principles of wireless mesh networks in engineering systems with emphasis on their protocol vulnerabilities and common attack surface analysis. Foundational knowledge and hands-on labs to analyze, troubleshoot and develop risk assessment in wireless networks in industrial applications.
Prerequisite: ENGR 28105 and ENGR 28106; and senior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 52111 STRENGTH OF MATERIALS FOR ENGINEERS 3 Credit Hours
(Slashed with ENGR 42111 and ENGR 72111) The mathematical study of how materials respond to external forces. Stress, strain, torsion; deformation of thin-walled pressure vessels, beams and columns; and an introduction to energy methods.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 52363 MATERIALS SELECTION IN DESIGN AND APPLICATIONS 3 Credit Hours
(Slashed with ENGR 42363 and ENGR 72363) Description and analysis of procedures for selecting appropriate materials for a particular mechanical design. The affect of processing on material properties, introduction to materials science for users of materials. Extensive case studies of materials selection and materials and sustainability.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 52410 ENGINEERING OPTIMIZATION 3 Credit Hours
(Slashed with ENGR 42410 and ENGR 72410) This course will cover the theoretical foundations and present methods associated with the engineering optimization field, including: problem statement formulation; sensitivity methods; decomposition methods; Multidisciplinary Design Optimization (MDO) formulations; unconstrained and constrained 1-D and n-D search methods; and an introduction to heuristic search methods. Engineering optimization in the context of design of complex engineering systems will be discussed as well, with an emphasis on emerging techniques in the field.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 52710 ADDITIVE MANUFACTURING AND 3D PRINTING 2 Credit Hours
(Slashed with ENGR 42710 and ENGR 72710) This course is designed to provide engineering students with knowledge about all available Rapid Prototyping and Rapid Tooling Techniques. Topics covered will include fundamentals of rapid prototyping and additive manufacturing, reverse engineering, CAD modeling, and current 3D printing technologies. Additional concepts important to product development in aviation industry and medical applications will be addressed and exercise during term projects. This class helps in preparing student to pass the SME- AM certification exam
Prerequisite: Graduate standing.
Corequisite: ENGR 52711.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 52711 ADDITIVE MANUFACTURING AND 3D PRINTING LABORATORY 1 Credit Hour
(Slashed with ENGR 42711 and ENGR 72711) This is the laboratory component for the corequisite lecture. This course is designed to provide engineering students with knowledge about all available Rapid Prototyping and Rapid Tooling Techniques. Topics covered will include fundamentals of rapid prototyping and additive manufacturing, reverse engineering, CAD modeling, and current 3D printing technologies. Additional concepts important to product development in aviation industry and medical applications will be addressed and exercise during term projects. This lab helps in preparing student to pass the SME- AM certification exam.
Prerequisite: Graduate standing.
Corequisite: ENGR 52710.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 53030 MECHATRONICS 3 Credit Hours
(Slashed with ENGR 43030 and ENGR 73030) Application of automation concepts in motion control, electrical circuits, fundamental mechanics, control systems and programming, including modeling, interfacing and signal conditioning.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 53550 COMPUTER-AIDED MANUFACTURING 3 Credit Hours
(Slashed with ENGR 43550) The application of computers to the preparation of machine tool control programs.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 55799 AIRCRAFT DESIGN I 3 Credit Hours
(Slashed with ENGR 45799) First of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to aircraft, rotorcraft and spacecraft. Primary focus on introduction to design, decision making in design and preliminary sizing of an aerospace vehicle to meet customer requirements. Final technical report and presentation.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

ENGR 55899 AIRCRAFT DESIGN II 3 Credit Hours
(Slashed with ENGR 45899) Second of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to aircraft, rotorcraft and spacecraft. Primary focus on sub-system design (i.e., propulsion, structure, controls, etc.), and overall vehicle integration of these subsystems. Cost analysis and safety analysis. Final technical report and or model prototype.
Prerequisite: ENGR 55799; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

ENGR 55901 INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS 3 Credit Hours
(Slashed with ENGR 45901 and ENGR 75901) The objective of this course is to teach in a unified manner the fundamentals of the finite element method for the analysis of engineering problems arising in solids and structures. The course emphasizes the solution of real-life problems using the finite element method, and students get exposure to commercial finite element software (ANSYS or ABAQUS) and learn to critically evaluate finite element models. Examples are provided for solid, fluid and heat transfer applications. Finally, developing an understanding of the computational aspects of the finite element method and its application in realistic aerospace applications are the core goals of this course.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 56312 WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS 3 Credit Hours
(Slashed with ENGR 46312) Course builds upon existing wired networking skills and extends students' knowledge into the world of wireless networking. Students learn digital wireless fundamentals, wireless standards, how to implement a wireless network in an enterprise environment and how to troubleshoot wireless issues. Curriculum follows and prepares students for industry certification in wireless networking.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 56330 VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY 3 Credit Hours
(Slashed with ENGR 46330) Course includes programming in a high-level object-oriented, event- driven visual programming language, Visual Basic 2010 Express, conditional statements, iterative statements, arrays, object oriented programming, classes, objects, methods, inheritance, exception handling, graphical user interfaces with Windows Forms.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 57200 SYSTEMS ENGINEERING 3 Credit Hours
(Slashed with ENGR 47200) Systems engineering as a method to solve problems. Introduction to the fundamental systems engineering principles, processes, and methodologies used to analyze, design, develop, and deploy complex, sustainable systems. Focuses on systems engineering as a logical, disciplined, systematic, and coherent approach to the design and the development of a system, across the full life cycle of the system. Special emphasis is made on the concepts, methods and activities used to analyze systems, to define and allocate requirements, to transform requirements into a system design, and to verify and validate the system.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 57210 SUSTAINABLE ENERGY I 3 Credit Hours
(Slashed with ENGR 47210) A comprehensive overview of energy sources and energy systems, with an emphasis on renewable energy and the implementation and sustainability of various forms of energy. Examines the characteristics of conventional non-renewable energy systems, along with alternate, renewable energy sources and systems. Includes fundamental energy concepts and the conversion, delivery, distribution, and storage of energy. Explores the technological application of various sources of energy and compares their benefits and limitations. Also presents an overview of presents U.S. and global energy needs and demands, and the sustainable energy technologies that may be used to meet future energy demands.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 57211 SUSTAINABLE ENERGY II 3 Credit Hours
(Slashed with ENGR 47211) An in-depth study of the analysis, selection and implementation of various energy and power sources, with an emphasis on the use of renewable, sustainable energy systems. Focuses on determining energy needs, and on assessing and comparing energy systems with respect to efficiency, technical feasibility, available resources, cost and sustainability characteristics. Includes economics of energy systems, methods for determining costs, and cost-benefit analysis of various energy and power systems. Also includes the social, economic, and environmental impact associated with the development, implementation, and use of various forms of energy.
Prerequisite: ENGR 57210; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 58001 ORBITAL MECHANICS 3 Credit Hours
(Slashed with ENGR 48001 and ENGR 78001) The course is an introduction to orbital and trajectory design. Topics include Newton's law of gravity; two-body motion; relative equations of motion; conic sections; orbits in three dimensions; orbital maneuvers; and interplanetary transfers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 58002 SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL 3 Credit Hours
(Slashed with ENGR 48002 and ENGR 78002) Spacecraft rigid body dynamics in terms of direction cosine matrix, Euler angles, principal rotation vector and quaternions. Attitude determination using TRIAD, quaternion and matrix solutions to Wahba's problem and an introduction to recursive estimation and Kalman Filter. Nonlinear stability and control technique (i.e., Lyapunov Theory) is introduced and applied to the attitude stabilization and control problem.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 58003 SPACECRAFT DESIGN 3 Credit Hours
(Slashed with ENGR 48003 and ENGR 78003) Spacecraft mission design course with a focus on hands-on design experience. The first portion of the course is lecture-based. Topics include launch systems, space environment, spacecraft orbits and ground tracks, spacecraft design and sizing, budget designs, subsystem design and evaluation, cost and risk. The second portion is dedicated to student teamwork on the spacecraft design.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 58010 MACHINE VISION 3 Credit Hours
(Slashed with ENGR 48010 and ENGR 78010) Course explores concepts and techniques for image/video processing and machine vision. Topics covered include image formation, image filtering, edge detection and segmentation, object recognition, object detection and tracking, 3D vision, etc.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 60000 PROJECT MANAGEMENT IN A TECHNOLOGICAL ENVIRONMENT 3 Credit Hours
This course covers concepts and skills that are used by managers to propose, plan, budget, manage and lead project teams to successful completion of their projects, and the planning, organizing, directing and controlling of company technology resources for relatively short-term objectives. Students also learn to apply current projects. This course addresses the major questions and challenges that are encountered in the project management field, including the following: How should projects be prioritized? What factors contribute to project failure or success? How do project managers orchestrate the complex network of relationships involving vendors, subcontractors, project team members, senior management, functional managers and customers that affect project success?
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 60003 SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT 2 Credit Hours
Principles and concepts of six-sigma to improve organizational efficiency, effectiveness and productivity by improving quality, reducing waste, defects and failures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 60020 QUALITY STANDARDS 3 Credit Hours
This course introduces students to issues in quality standards, quality assurance and statistical inference in applied technology and process control. Topics include systems reliability, quality control, SPC, control charts, principles and methods of statistical analysis and prediction, and hypothesis testing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 60030 QUANTITATIVE METHODS I 2 Credit Hours
Descriptive and inferential statistics used in technology and engineering. Emphasis is on the methods of analysis and the interpretation of data associated with research and development in technological and engineering environments. Course topics include representation of data, descriptive statistics, probability, and probability distributions. No previous familiarity with probability or statistics is assumed. The ability to utilize basic algebra is required.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 60040 QUANTITATIVE METHODS II 2 Credit Hours
Descriptive and inferential statistics used in technology and engineering. Emphasis is on the methods of analysis and the interpretation of data associated with research and development in technological and engineering environments. Course topics include inferential statistics, statistical design, and the analysis of experiments. The ability to utilize basic algebra is required.
Prerequisite: Graduate standing.
Pre/corequisite: ENGR 60030.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 60078 RESEARCH METHODS IN TECHNOLOGY 2 Credit Hours
Research techniques for the technologist. Methods for designing, conducting, analyzing and interpreting results of technological research. Course allows students to become informed consumers of all forms of research used in different fields. Students identify various research approaches and the strengths and limitations associated with different approaches. Focus is on the context of educational research; philosophy underlying research; the scientific method; the relationship of theory to research; research strategies; experimental design; non-experimental design; sampling; hypotheses; and other pertinent aspects of research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 60092 INDUSTRIAL PRACTICE 1-4 Credit Hours
(Repeatable for credit) Practical experience in industry of a cooperative work-study nature.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-12 other
Grade Mode: Standard Letter

ENGR 61091 GRADUATE SEMINAR 1 Credit Hour
(Repeatable for credit) Discussions of selected technical topics related to engineering research.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

ENGR 61095 SPECIAL TOPICS IN ENGINEERING 1-3 Credit Hours
(Repeatable for credit) (Slashed with ENGR 81095) Study of significant and current issues in various engineering topics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ENGR 61096 INDIVIDUAL INVESTIGATION IN ENGINEERING 1-3 Credit Hours
(Repeatable for credit) (Slashed with ENGR 81096) Individual investigation for a topic in the field of engineering.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ENGR 61099 ENGINEERING TECHNOLOGY CAPSTONE 2-6 Credit Hours
(Repeatable for credit) Students complete either a comprehensive project at a workplace through employment or internship or a comprehensive research paper from an investigation. Student's goal is to demonstrate competence in their graduate area of study. Possibilities include empirical research, case studies, theoretical or applied projects or projects identified for a specific client. Students are evaluated on the use of knowledge and skills gained from other courses taken in the program.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2-6 other
Grade Mode: Standard Letter

ENGR 62610 INDUSTRIAL ROBOTICS AND VISION SYSTEMS 1 Credit Hour
(Slashed with ENGR 72610) Students learn how to program a FANUC industrial robot using the teach pendant. They also learn how to set up and use an industrial robot vision system. Students who successfully complete this course and the corequisite lab will receive both FANUC Robotics Handling Tool Operation and Programming and FANUC V-iRVison Operation and Programming - 2D certificates of completion.
Prerequisite: Graduate standing.
Corequisite: ENGR 62611.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 62611 INDUSTRIAL ROBOTICS AND VISION SYSTEMS LABORATORY 2 Credit Hours
(Slashed with ENGR 72611) Students learn how to program a FANUC industrial robot using the teach pendant. They also learn how to set up and use an industrial robot vision system. Students who successfully complete this course and the corequisite lecture will receive both FANUC Robotics Handling Tool Operation and Programming and FANUC V-iRVison Operation and Programming - 2D certificates of completion.
Prerequisite: Graduate standing.
Corequisite: ENGR 62610.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

ENGR 62620 INDUSTRIAL AUTOMATION AND CONTROL 1 Credit Hour
(Slashed with ENGR 72620) Course covers programmable logic controllers, variable frequency drive motor control, human machine interfaces and industrial networking.
Prerequisite: Graduate standing.
Corequisite: ENGR 62621.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 62621 INDUSTRIAL AUTOMATION AND CONTROL LABORATORY 2 Credit Hours
(Slashed with ENGR 72621) Laboratory utilizing programmable logic controllers, variable frequency drive motor control, human machine interfaces and industrial networking.
Prerequisite: Graduate standing.
Corequisite: ENGR 62620.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

ENGR 63010 INFORMATION TECHNOLOGY FUNDAMENTALS 3 Credit Hours
Introduction to the hardware, architecture and operation of the personal computer and associated devices. Topics include personal computer architecture and operation fundamentals, basic hardware, data busses and ports, hardware component packaging, auxiliary hardware components, and computer assembly, basic hardware installation, configuration and troubleshooting.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 63031 PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours
Programmable logic controllers (PLCS) covering hardware, ladder logic programming, networking and communications. Programming timers, counters and sequencers and an introduction to human machine interfaces (HMIS). An understanding of basic electricity and computer technology is required.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 63041 MOTORS AND CONTROLLERS 3 Credit Hours
Theory and application of AC and DC motors, motor control, and machine operations in mechatronic systems. Includes introduction to basic control system terms and devices, input and output transducers, signal conditioning, open loop and closed loop control, stability and performance.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 63050 TRIZ: THEORY OF INVENTIVE PROBLEM-SOLVING 3 Credit Hours
TRIZ is a collection of powerful problem-solving tools for a broad range of inventive problems. The theory originated in Russia by the study of more than two million patents. Students utilize material learned in earlier courses to solve real world problems in multiple disciplines.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 63070 COMPUTER HARDWARE DESIGN AND INTEGRATION 3 Credit Hours
In-depth study of personal computer (PC) and computer networking hardware. Topics include PC design, basic and auxiliary PC hardware components, PC assembly, PC upgrade and optimization, and PC repair, diagnosis and troubleshooting. Additional topics include computer networking hardware, network architecture, network communication protocols, and network installation, configuration and maintenance. Includes laboratory.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 63100 COMPUTER-AIDED DESIGN 3 Credit Hours
Study of modern industrial practice using computers in advanced graphics, design and analysis including geometric dimensioning and tolerancing, parametric design, solid modeling and finite element analysis. Two hours lecture and two hours lab.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

ENGR 64010 CONNECTIVITY AND INTEROPERABILITY IN INDUSTRY 3 Credit Hours
This course focuses on integrating and administering multiple systems in an industrial environment.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 64312 ADVANCED WIRELESS TELECOMMUNICATION SYSTEM AND NETWORK TECHNOLOGIES 3 Credit Hours
Describes technologies associated with wireless and telecommunications systems. Topics covered include public switch telephone network infrastructures, intelligent networks, wireless technologies in manufacturing enterprises, 3GPP standards, ITU standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Varied topics according to student interest and faculty approval. The work is designed to conduct research on a topic, and it will result in a paper or other appropriate product.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory

ENGR 65199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory

ENGR 65270 HUMAN FACTORS ENGINEERING 3 Credit Hours
(Slashed with ENGR 75270) This course provides a survey of human factors and ergonomics principles that are relevant to the effective design and operation of human-machine systems. It will emphasize human factors fundamentals, work environment, human functions within human-machine systems, and human-systems design and integration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

ENGR 65400 ADVANCED DYNAMICS 3 Credit Hours
(Slashed with ENGR 75400) This course provides an in-depth exploration of advanced concepts in dynamics, with a focus on the motion of particles and rigid bodies in three-dimensional space. Students will develop a strong foundation in the mathematical formulations of dynamics including kinematics in various coordinate systems, coordinate transformations, work and energy, linear and angular momentum, impact dynamics, Lagrange equations, and gyroscopic motion. This course is designed for graduate students with a solid understanding of undergraduate dynamics and vector calculus and an ability to program in Python or MATLAB.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65401 VIBRATIONS 3 Credit Hours
(Slashed with ENGR 75401) This course delves into the theoretical and practical aspects of mechanical vibrations with applications to various engineering systems. Students will explore the modeling, analysis, and design of single-degree-of-freedom (SDOF) and multi-degree-of-freedom (MDOF) systems, as well as continuous systems and nonlinear vibrations. Topics include free and forced vibrations, damping, resonance, modal analysis, vibration control strategies, and analysis of vibration signals. This course requires prior knowledge of calculus, linear algebra, differential equations, and dynamics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65500 QUALITY SYSTEMS AND INDUSTRIAL PRODUCTIVITY 3 Credit Hours
Tools and techniques for increasing industrial productivity through total quality management. Productivity improvement techniques involving human, technology, material, product and processes, utilizing value engineering, analytical models and scientific management tools in high-technology environment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65501 ADVANCED FLUID MECHANICS 3 Credit Hours
(Slashed with ENGR 85501) Kinematics of fluid motion. Constitutive equations of isotropic viscous compressible fluids. Derivation of Navier-Stokes equations. Lessons from special exact solutions, self-similarity. Admissibility of idealizations and their applications: inviscid, adiabatic, irrotational, incompressible, boundary layer, quasi one-dimensional, linearized and creeping flows. This course covers the topics of vorticity theorems, unsteady Bernoulli equation, basic flow solutions and basic features of turbulent flows. This course requires an undergraduate level understanding of differential equations and fluid mechanics.
Prerequisite: Aerospace Engineering or Mechatronics Engineering major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65502 COMPUTATIONAL FLUID DYNAMICS 3 Credit Hours
(Slashed with ENGR 85502) Classification of partial differential equations. Finite difference methods. Numerical solution techniques including direct, iterative and multigrid methods for general elliptic and parabolic differential equations. Numerical algorithms for solution of the Navier-Stokes equations in the primitive variables and vorticity-stream function formulations. Grids and grid generation. Numerical modeling of turbulent flows. This course requires an understanding of differential equations, linear algebra and fluid mechanics/aerodynamics.
Prerequisite: Aerospace Engineering or Mechatronics Engineering major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65550 DESIGN AND ANALYSIS OF EXPERIMENTS IN TECHNOLOGY 3 Credit Hours
Introduces planning and conducting experiments, as well as analyzing the resulting data using statistical techniques to obtain valid and objective conclusions. Also focuses on experiments performed in areas such as product design, manufacturing process development and process improvement.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65700 APPLIED RELIABILITY ENGINEERING 3 Credit Hours
Introduction to reliability engineering for engineering-technology management professionals. Course includes design for reliability, failure mode and failure effect analysis, reliability testing and measurement, statistical and mathematical modeling, assessment and forecasting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65800 BURN-IN AND STRESS-TESTING FOR RELIABILITY 3 Credit Hours
Comprehensive course on reliability testing to analyze and establish reliability standards for components, products and systems. Specific emphasis on burn-in and stress testing procedures to perform effective reliability statistical calculations will be the major focus of the course.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 66380 ADVANCED NETWORKING 3 Credit Hours
Provides students with experience in advanced computer networking techniques, including network architectures, network security, network virtualization and storage area networks.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 67010 ETHICS, TECHNOLOGY AND THE ENVIRONMENT 3 Credit Hours
Explores the fundamental issues of the interconnections between human beings and the environment, with an emphasis on the ethics and the importance of the sustainability. Takes an in-depth look at basic environmental concepts, ethics and values, as they relate to a wide range of practical subject matters, including technology, from global and national perspectives. Provides an in-depth look at sustainable systems and the ethical issues associated with sustainability as it relates to technology by focusing on common and future impacts as they apply to ethics, values and justice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 67300 MEDICAL ROBOTICS 3 Credit Hours
(Slashed with ENGR 77300) Introduction to the current development of medical robot, study the design and control of medical robot. Main focus of course is surgical robots and walking assistant robots.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 67400 ROBOTICS: KINEMATICS AND DESIGN 3 Credit Hours
(Slashed with ENGR 77400) Course covers techniques to physically design, model, analyze and control a robotic system, especially robotic arms with serial structures. Provides students with a basic understanding of physics and mathematics of robotic kinematics and design. Students develop skills for force analysis, practice robotic programming and understand principles of robotic operation, sensing and path planning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68004 OPTIMAL CONTROL THEORY 3 Credit Hours
(Slashed with ENGR 88004) This course introduces students to the theory and numerical calculation of optimal space trajectories and related optimization problems in aerospace engineering. This course provides the essential technical components of space trajectory design and optimization. Students develop basic engineering skills in formulating and solving open-ended problems and writing a project report.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68005 LINEAR SYSTEM ANALYSIS AND CONTROL 3 Credit Hours
(Slashed with ENGR 78005) This course covers the analysis and synthesis of linear dynamical systems. Fundamental concepts including canonical representations, the state transition matrix and the properties of controllability and observability are discussed. The existence and synthesis of stabilizing feedback control laws using pole placement and linear-quadratic optimal control are discussed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68006 NONLINEAR SYSTEMS AND CONTROL 3 Credit Hours
(Slashed with ENGR 78006) Overview of stability concepts and examination of various methods for assessing stability such as linearization and Lyapunov methods. Introduction to various design methods based on linearization, sliding modes, adaptive control and feedback linearization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68007 DIGITAL CONTROL SYSTEMS 3 Credit Hours
(Slashed with ENGR 78007) This course covers design and analysis of sampled data and digital control systems. Fundamental concepts include introduction to digital control and discrete transform (z-transform), discrete and hybrid signal flow graphs (SFGs), solution of discrete-time state space models, time-response and characteristic equations, stability analysis for discrete time systems, root locus, Bode plot and Nyquist method for sampled data systems, pole placement and state estimation for discrete time systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68008 INTRODUCTION TO ROBUST CONTROL 3 Credit Hours
(Slashed with ENGR 78008) Course covers the fundamentals of robust control theory, with emphasis on stability and performance analysis in the time and frequency domains and design tools for robust performance and robust stability. Course examines how a controller can be designed taking into account uncertainties in the model of the plant. Some current research topics such as application of robust identification and control techniques to active vision systems also are addressed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68013 SPACECRAFT PROPULSION 3 Credit Hours
(Slashed with ENGR 88013) Students learn about the components and systems of rocket propulsion for launch, deep space transport and attitude control. We explore chemical and electric propulsion systems and address their benefits, drawbacks and recent advances. This course also briefly explores the commercial and environmental considerations of spaceflight systems and discusses aspects of novel and unconventional propulsion systems.
Prerequisite: Aerospace Engineering major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68101 AUTONOMOUS UNMANNED AERIAL SYSTEMS 3 Credit Hours
(Slashed with ENGR 78101) This course provides an advanced-level understanding of unmanned aerial vehicles in physical system design; payload; and stealth design, navigation and deployment regulations. This course introduces students to state-of-the-art artificial intelligence methods for UAS deployments in different urban, forest and water surface scenarios.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68102 INTELLIGENT SENSING AND PLANNING OF UNMANNED AERIAL SYSTEMS 3 Credit Hours
(Slashed with ENGR 78102) This course focuses on real world environment understanding for the UAV systems. This course introduces students to state-of-the-art artificial intelligence methods for planning UAV missions in the real world.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 71095 SPECIAL TOPICS IN ENGINEERING 1-3 Credit Hours
(Repeatable for credit) Study of significant and current issues in various engineering topics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ENGR 72111 STRENGTH OF MATERIALS FOR ENGINEERS 3 Credit Hours
(Slashed with ENGR 42111 and ENGR 52111) The mathematical study of how materials respond to external forces. Stress, strain, torsion; deformation of thin-walled pressure vessels, beams and columns; and an introduction to energy methods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 72363 MATERIALS SELECTION IN DESIGN AND APPLICATIONS 3 Credit Hours
(Slashed with ENGR 42363 and ENGR 52363) Description and analysis of procedures for selecting appropriate materials for a particular mechanical design. The affect of processing on material properties, introduction to materials science for users of materials. Extensive case studies of materials selection and materials and sustainability.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 72410 ENGINEERING OPTIMIZATION 3 Credit Hours
(Slashed with ENGR 42410 and ENGR 52410) This course will cover the theoretical foundations and present methods associated with the engineering optimization field, including: problem statement formulation; sensitivity methods; decomposition methods; Multidisciplinary Design Optimization (MDO) formulations; unconstrained and constrained 1-D and n-D search methods; and an introduction to heuristic search methods. Engineering optimization in the context of design of complex engineering systems will be discussed as well, with an emphasis on emerging techniques in the field.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 72610 INDUSTRIAL ROBOTICS AND VISION SYSTEMS 1 Credit Hour
(Slashed with ENGR 62610) Students learn how to program a FANUC industrial robot using the teach pendant. They also learn how to set up and use an industrial robot vision system. Students who successfully complete this course and the corequisite lab will receive both FANUC Robotics Handling Tool Operation and Programming and FANUC V-iRVison Operation and Programming - 2D certificates of completion.
Prerequisite: Doctoral standing.
Corequisite: ENGR 72611.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 72611 INDUSTRIAL ROBOTICS AND VISION SYSTEMS LABORATORY 2 Credit Hours
(Slashed with ENGR 62611) Students learn how to program a FANUC industrial robot using the teach pendant. They also learn how to set up and use an industrial robot vision system. Students who successfully complete this course and the corequisite lecture will receive both FANUC Robotics Handling Tool Operation and Programming and FANUC V-iRVison Operation and Programming - 2D certificates of completion.
Prerequisite: Doctoral standing.
Corequisite: ENGR 72610.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

ENGR 72620 INDUSTRIAL AUTOMATION AND CONTROL 1 Credit Hour
(Slashed with ENGR 62620) Course covers programmable logic controllers, variable frequency drive motor control, human machine interfaces and industrial networking.
Prerequisite: Doctoral standing.
Corequisite: ENGR 72621.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 72621 INDUSTRIAL AUTOMATION AND CONTROL LABORATORY 2 Credit Hours
(Slashed with ENGR 62621) Laboratory utilizing programmable logic controllers, variable frequency drive motor control, human machine interfaces and industrial networking.
Prerequisite: Doctoral standing.
Corequisite: ENGR 72620.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

ENGR 72710 ADDITIVE MANUFACTURING AND 3D PRINTING 2 Credit Hours
(Slashed with ENGR 42710 and ENGR 52710) This course is designed to provide engineering students with knowledge about all available Rapid Prototyping and Rapid Tooling Techniques. Topics covered will include fundamentals of rapid prototyping and additive manufacturing, reverse engineering, CAD modeling, and current 3D printing technologies. Additional concepts important to product development in aviation industry and medical applications will be addressed and exercise during term projects. This class helps in preparing student to pass the SME- AM certification exam.
Prerequisite: Doctoral standing.
Corequisite: ENGR 72711.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 72711 ADDITIVE MANUFACTURING AND 3D PRINTING LABORATORY 1 Credit Hour
(Slashed with ENGR 42711 and ENGR 52711) This is the laboratory component for the corequisite lecture. This course is designed to provide engineering students with knowledge about all available Rapid Prototyping and Rapid Tooling Techniques. Topics covered will include fundamentals of rapid prototyping and additive manufacturing, reverse engineering, CAD modeling, and current 3D printing technologies. Additional concepts important to product development in aviation industry and medical applications will be addressed and exercise during term projects. This lab helps in preparing student to pass the SME- AM certification exam.
Prerequisite: Doctoral standing.
Corequisite: ENGR 72710.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 73030 MECHATRONICS 3 Credit Hours
(Slashed with ENGR 43030 and ENGR 53030) Application of automation concepts in motion control, electrical circuits, fundamental mechanics, control systems and programming, including modeling, interfacing and signal conditioning.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 75270 HUMAN FACTORS ENGINEERING 3 Credit Hours
(Slashed with ENGR 65270) This course provides a survey of human factors and ergonomics principles that are relevant to the effective design and operation of human-machine systems. It will emphasize human factors fundamentals, work environment, human functions within human-machine systems, and human-systems design and integration.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 75400 ADVANCED DYNAMICS 3 Credit Hours
(Slashed with ENGR 65400) This course provides an in-depth exploration of advanced concepts in dynamics, with a focus on the motion of particles and rigid bodies in three-dimensional space. Students will develop a strong foundation in the mathematical formulations of dynamics including kinematics in various coordinate systems, coordinate transformations, work and energy, linear and angular momentum, impact dynamics, Lagrange equations, and gyroscopic motion. This course is designed for graduate students with a solid understanding of undergraduate dynamics and vector calculus and an ability to program in python or MATLAB.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 75401 VIBRATIONS 3 Credit Hours
(Slashed with ENGR 65401) This course delves into the theoretical and practical aspects of mechanical vibrations with applications to various engineering systems. Students will explore the modeling, analysis, and design of single-degree-of-freedom (SDOF) and multi-degree-of-freedom (MDOF) systems, as well as continuous systems and nonlinear vibrations. Topics include free and forced vibrations, damping, resonance, modal analysis, vibration control strategies, and analysis of vibration signals. This course requires prior knowledge of calculus, linear algebra, differential equations, and dynamics and an ability to program in python or MATLAB.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 75901 INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS 3 Credit Hours
(Slashed with ENGR 45901 and ENGR 55901) The objective of this course is to teach in a unified manner the fundamentals of the finite element method for the analysis of engineering problems arising in solids and structures. The course emphasizes the solution of real-life problems using the finite element method, and students get exposure to commercial finite element software (ANSYS or ABAQUS) and learn to critically evaluate finite element models. Examples are provided for solid, fluid and heat transfer applications. Finally, developing an understanding of the computational aspects of the finite element method and its application in realistic aerospace applications are the core goals of this course.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 77300 MEDICAL ROBOTICS 3 Credit Hours
(Slashed with ENGR 67300) Introduction to the current development of medical robot, study the design and control of medical robot. Main focus of course is surgical robots and walking assistant robots.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 77400 ROBOTICS: KINEMATICS AND DESIGN 3 Credit Hours
(Slashed with ENGR 67400) Course covers techniques to physically design, model, analyze and control a robotic system, especially robotic arms with serial structures. Provides students with a basic understanding of physics and mathematics of robotic kinematics and design. Students develop skills for force analysis, practice robotic programming and understand principles of robotic operation, sensing and path planning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78001 ORBITAL MECHANICS 3 Credit Hours
(Slashed with ENGR 48001 and ENGR 58001) The course is an introduction to orbital and trajectory design. Topics include Newton's law of gravity; two-body motion; relative equations of motion; conic sections; orbits in three dimensions; orbital maneuvers; and interplanetary transfers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78002 SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL 3 Credit Hours
(Slashed with ENGR 48002 and ENGR 58002) Spacecraft rigid body dynamics in terms of direction cosine matrix, Euler angles, principal rotation vector and quaternions. Attitude determination using TRIAD, quaternion and matrix solutions to Wahba's problem and an introduction to recursive estimation and Kalman Filter. Nonlinear stability and control technique (i.e., Lyapunov Theory) is introduced and applied to the attitude stabilization and control problem.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78003 SPACECRAFT DESIGN 3 Credit Hours
(Slashed with ENGR 48003 and ENGR 58003) Spacecraft mission design course with a focus on hands-on design experience. The first portion of the course is lecture-based. Topics include launch systems, space environment, spacecraft orbits and ground tracks, spacecraft design and sizing, budget designs, subsystem design and evaluation, cost and risk. The second portion is dedicated to student teamwork on the spacecraft design.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78005 LINEAR SYSTEM ANALYSIS AND CONTROL 3 Credit Hours
(Slashed with ENGR 68005) This course covers the analysis and synthesis of linear dynamical systems. Fundamental concepts including canonical representations, the state transition matrix and the properties of controllability and observability are discussed. The existence and synthesis of stabilizing feedback control laws using pole placement and linear-quadratic optimal control are discussed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78006 NONLINEAR SYSTEMS AND CONTROL 3 Credit Hours
(Slashed with ENGR 68006) Overview of stability concepts and examination of various methods for assessing stability such as linearization and Lyapunov methods. Introduction to various design methods based on linearization, sliding modes, adaptive control and feedback linearization.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78007 DIGITAL CONTROL SYSTEMS 3 Credit Hours
(Slashed with ENGR 68007) This course covers design and analysis of sampled data and digital control systems. Fundamental concepts include introduction to digital control and discrete transform (z-transform), discrete and hybrid signal flow graphs (SFGs), solution of discrete-time state space models, time-response and characteristic equations, stability analysis for discrete time systems, root locus, Bode plot and Nyquist method for sampled data systems, pole placement and state estimation for discrete time systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78008 INTRODUCTION TO ROBUST CONTROL 3 Credit Hours
(Slashed with ENGR 68008) Course covers the fundamentals of robust control theory, with emphasis on stability and performance analysis in the time and frequency domains and design tools for robust performance and robust stability. Course examines how a controller can be designed taking into account uncertainties in the model of the plant. Some current research topics such as application of robust identification and control techniques to active vision systems also are addressed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78010 MACHINE VISION 3 Credit Hours
(Slashed with ENGR 48010 and ENGR 58010) Course explores concepts and techniques for image/video processing and machine vision. Topics covered include image formation, image filtering, edge detection and segmentation, object recognition, object detection and tracking, 3D vision, etc.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78101 AUTONOMOUS UNMANNED AERIAL SYSTEMS 3 Credit Hours
(Slashed with ENGR 68101) This course provides an advanced-level understanding of unmanned aerial vehicles in physical system design; payload; and stealth design, navigation and deployment regulations. This course introduces students to state-of-the-art artificial intelligence methods for UAS deployments in different urban, forest and water surface scenarios.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78102 INTELLIGENT SENSING AND PLANNING OF UNMANNED AERIAL SYSTEMS 3 Credit Hours
(Slashed with ENGR 68102) This course focuses on real world environment understanding for the UAV systems. This course introduces students to state-of-the-art artificial intelligence methods for planning UAV missions in the real world.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 81091 GRADUATE SEMINAR 1 Credit Hour
(Repeatable for credit) Discussions of selected technical topics related to aerospace engineering.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

ENGR 81095 SPECIAL TOPICS IN ENGINEERING 1-3 Credit Hours
(Slashed with ENGR 61095)(Repeatable for credit) Study of significant and current issues in various engineering topics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ENGR 81096 INDIVIDUAL INVESTIGATION IN ENGINEERING 1-3 Credit Hours
(Slashed with ENGR 61096)(Repeatable for credit) Individual investigation for a topic in the field of engineering.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ENGR 85098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Varied topics according to student interest and faculty approval. The work is designed to conduct research on a topic, and it will result in a paper or other appropriate product.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory

ENGR 85199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory

ENGR 85299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory

ENGR 85501 ADVANCED FLUID MECHANICS 3 Credit Hours
(Slashed with ENGR 65501) Kinematics of fluid motion. Constitutive equations of isotropic viscous compressible fluids. Derivation of Navier-Stokes equations. Lessons from special exact solutions, self-similarity. Admissibility of idealizations and their applications: inviscid, adiabatic, irrotational, incompressible, boundary layer, quasi one-dimensional, linearized and creeping flows. This course covers the topics of vorticity theorems, unsteady Bernoulli equation, basic flow solutions and basic features of turbulent flows. This course requires an undergraduate level understanding of differential equations and fluid mechanics.
Prerequisite: Aerospace Engineering or Mechatronics Engineering major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 85502 COMPUTATIONAL FLUID DYNAMICS 3 Credit Hours
(Slashed with ENGR 65502) Classification of partial differential equations. Finite difference methods. Numerical solution techniques including direct, iterative and multigrid methods for general elliptic and parabolic differential equations. Numerical algorithms for solution of the Navier-Stokes equations in the primitive variables and vorticity-stream function formulations. Grids and grid generation. Numerical modeling of turbulent flows. This course requires an understanding of differential equations, linear algebra and fluid mechanics/aerodynamics.
Prerequisite: Aerospace Engineering or Mechatronics Engineering major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 88004 OPTIMAL CONTROL THEORY 3 Credit Hours
(Slashed with ENGR 68004) This course introduces students to the theory and numerical calculation of optimal space trajectories and related optimization problems in aerospace engineering. This course provides the essential technical components of space trajectory design and optimization. Students develop basic engineering skills in formulating and solving open-ended problems and writing a project report.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 88013 SPACECRAFT PROPULSION 3 Credit Hours
(Slashed with ENGR 68013) Students learn about the components and systems of rocket propulsion for launch, deep space transport and attitude control. We explore chemical and electric propulsion systems and address their benefits, drawbacks and recent advances. This course also briefly explores the commercial and environmental considerations of spaceflight systems and discusses aspects of novel and unconventional propulsion systems.
Prerequisite: Aerospace Engineering major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Engineering Technology (ENGT)

ENGT 23099 ENGINEERING TECHNOLOGY DESIGN PROJECT (ELR) 3 Credit Hours
A practical, hands-on experience that emphasizes the integration of analytical and design skills acquired in companion courses. Students work in teams under direct faculty supervision to pursue creative and challenging projects within the engineering discipline. Engineering communication (e.g., reports, oral presentations, portfolio development) are covered. The lecture sessions include discussions on professional and ethical responsibilities, including a respect for diversity.
Pre/corequisite: EERT 22014.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENGT 30000 ADVANCED MANUFACTURING 3 Credit Hours
This course will introduce students to the concepts of advanced manufacturing technologies, processes and equipment. Covered topics include automation and process control, flexible manufacturing systems, and manufacturing using additive processes such as 3D printing. Students will learn hands on programming and operation of relevant equipment during the laboratory sessions.
Prerequisite: Junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGT 31010 ENGINEERING AND PROFESSIONAL ETHICS 3 Credit Hours
Applications of codes of ethics in the engineering and technology professions reflective of social and moral responsibilities to the public, and accountability in engineering practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGT 32002 MATERIALS AND PROCESSES II 3 Credit Hours
Advanced study and practice in materials and processes. Emphasis will be upon developing skills and knowledge in producing a product and conducting problem solving activities.
Prerequisite: MERT 12005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGT 32006 ECONOMIC DECISION ANALYSIS FOR ENGINEERING TECHNOLOGY 3 Credit Hours
Economic decision making for engineering technology with applications emphasis, estimating economic elements, interest and economic equivalence, methods of comparing alternatives and evaluating replacement alternatives using Benefit/Cost Analysis, Present and Future Worth, Annual Worth, Internal Rate of Return etc. Practical applications of cost concepts and the application towards the different phases of manufacturing or project implementation.
Prerequisite: MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering

ENGT 32101 POLYMERS I 3 Credit Hours
Description of various polymers, thermoplastics and thermosets. Processes used to produce products. Outline of polymer chemistry including methods of testing and identification.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGT 33000 INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours
An introduction to Programmable Logic Controllers (PLC), focusing on understanding the principles of how PLCs work and providing practical information and skills about programming and troubleshooting a PLC system. Simulators relating to popular PLCs used in industry will be utilized for practicing programming and troubleshooting.
Prerequisite: EERT 12010 or EERT 22014 or EERT 32003.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGT 33010 COMPUTER HARDWARE FOR ANIMATION 3 Credit Hours
Students will gain a complete, step-by-step approach for learning the fundamentals of supporting and troubleshooting computer hardware. Throughout this course, students will learn the technical skills for PC configuration and troubleshooting. Finally, the students will be exposed to the concepts of Animation and Design through exploring Deep learning concepts, GPUs benchmark tests, peripherals and gaming platforms.
Prerequisite: Junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGT 33016 PC/NETWORK ENGINEERING AND TROUBLESHOOTING 3 Credit Hours
Covers the service, maintenance, upgrade and optimization of personal computers. Specification, installation and maintenance of local area networks are covered. Students learn communication protocols and network architecture.
Prerequisite: EERT 22014 or EERT 32003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ENGT 33092 ENGINEERING TECHNOLOGY INTERNSHIP AND PROFESSIONAL DEVELOPMENT (ELR) (WIC) 1-3 Credit Hours
(Repeatable for Credit) Supervised work-study experience in approved business or industrial environment relative to the student's major.
A 3 credit hour co-op experience must be for a period of at least 12 consecutive weeks at 40 hours per week, or 30 hours per week for 15 weeks, totaling not less than 450 hours. Most co-ops occur during the summer. Students can earn up to an additional 3 credit hours (one to three per co-op – 150 work hours per credit hour) over the course of their college career as long as each co-op has a different focus.
Prerequisite: Minimum 2.250 overall GPA; and sophomore standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 10-30 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENGT 33095 SPECIAL TOPICS IN ENGINEERING TECHNOLOGY 1-4 Credit Hours
Special topics of immediate interest in engineering technology.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ENGT 33225 INDUSTRIAL CONTROL SYSTEMS 3 Credit Hours
The application of electronics to the control of industrial machines and processes. Includes laboratory.
Prerequisite: EERT 12001 or PHY 12202 or PHY 13002 or PHY 13012.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGT 42003 LEAN AND SIX SIGMA FOR COMPETITIVE MANUFACTURING 3 Credit Hours
Designed to provide a better understanding of the components and underlying philosophy of Theory of Constraints, Lean, and Six Sigma and how the elements and philosophies work together to support competitive manufacturing systems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGT 42195 TRAINING TOPICS IN TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Specialized advanced instruction oriented primarily to the theoretical base and application of current technology developed by experts in the specific technology. This course requires substantial base knowledge.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ENGT 43092 ENGINEERING TECHNOLOGY PRACTICUM (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience in an engineering technology related field. Student may work 10 hours per week for 15 weeks, or 150 work hours total per 15-week semester to earn 1 credit.
Prerequisite: Junior standing; and department approval.
Schedule Type: Practical Experience
Contact Hours: 10-30 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ENGT 43096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Work study of an individual nature on a topic in a field of applied science and technology.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ENGT 43099 ENGINEERING TECHNOLOGY CAPSTONE (ELR) 3 Credit Hours
This course provides students with an integrative experience, where they can apply their knowledge and skills acquired through the coursework in Engineering Technology. Students will learn how to fit in their competencies in a real-world scenario and reach toward their educational and/or career goals. Emerging trends, challenges, and opportunities in the career fields pertinent to Engineering Technology will also be addressed. Students will maintain an electronic portfolio as part of their learning.
Prerequisite: Senior standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENGT 43363 MATERIALS SCIENCE AND TECHNOLOGY 3 Credit Hours
Study of nature and family of engineering materials. The focus is on understanding the relationships among structure, properties, processing and selection of materials in designing industrial parts and systems.
Prerequisite: Engineering Technology majors only; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGT 43700 COMPUTER-INTEGRATED MANUFACTURING 3 Credit Hours
Study of the computer-integrated manufacturing system as it relates to product design, estimating inventory, machining and assembly, quality control and distribution.
Prerequisite: Engineering Technology majors only; and junior or senior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

English (ENG)

ENG 01001 INTRODUCTION TO COLLEGE WRITING-STRETCH 3 Credit Hours
Introduces the instruction and experiences necessary for students to acquire college-level literacy, with an emphasis on reading and writing college level texts. Course does not count toward graduation.
Prerequisite: ACT English score of 0-17; or SAT Evidence Based Reading and Writing score of 200-470; or WritePlacer score of 0-3; or Accuplacer Reading Comprehension score of 200-249 and WritePlacer score of 4.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02008 ESL GRAMMAR AND WRITING BEGINNER 1 3 Credit Hours
Students learn and apply the rules of elementary grammar in their spoken and written English at a beginner level. Students learn to produce simple paragraphs with beginner-level control of grammar on familiar topics using the writing process. Course culminates with writing a paragraph on a familiar topic with organization, grammar, vocabulary, spelling, punctuation and capitalization appropriate for a beginner level. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02009 ESL GRAMMAR AND WRITING BEGINNER 2 3 Credit Hours
Students apply rules of elementary grammar in spoken and written English at exiting beginner level. Topics from ENG 02008 are expanded upon. Students improve their ability to write simple paragraphs on familiar topics. Course culminates with improved ability to write a five-sentence paragraph on familiar topic with level-appropriate organization, grammar, vocabulary, spelling, punctuation and capitalization. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02010 ESL GRAMMAR AND WRITING PRE-INTERMEDIATE 1 3 Credit Hours
Students learn and apply the rules of grammar in spoken and written English at an initial pre-intermediate level. Focus is on writing well-developed, level-appropriate paragraphs on familiar topics using the writing process. Course culminates in writing one double-spaced page of organized paragraphs on familiar topics at the initial pre-intermediate level. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02011 ESL GRAMMAR AND WRITING PRE-INTERMEDIATE 2 3 Credit Hours
Students learn and apply the rules of grammar in spoken and written English at an exiting pre-intermediate level. Skills from ENG 02010 are reviewed and expanded upon in this course. Course culminates in writing organized and well developed paragraphs on familiar topics. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02012 ESL WRITING AND GRAMMAR INTERMEDIATE 1 3 Credit Hours
Students develop writing skills and expand and apply their knowledge of grammar at an initial intermediate level. Focus is on developing and organizing ideas in writing for different purposes and audiences with control of vocabulary choice, grammar, sentence variety and punctuation. Course culminates in using writing process for at least two short compositions to compare and contrast ideas and express an opinion. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02013 ESL GRAMMAR AND WRITING INTERMEDIATE 2 3 Credit Hours
Students apply the rules of grammar in written English at an exiting intermediate level. Topics from previous levels are reviewed and expanded upon in this course. Focus is on writing for different purposes and audiences with greater control of vocabulary choice, grammar, sentence variety, organization and development. Course culminates in writing a short problem solution essay and reflection at the intermediate level. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02014 ESL ACADEMIC WRITING 1 3 Credit Hours
Students develop the writing skills needed for participation in academic coursework at an initial high-intermediate level. Focus is on writing essays that are well-developed, organized, grammatically accurate and cohesive and cite source material. Course culminates in writing reflection compositions and cause-and-effect essays at the initial high-intermediate level. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02108 ESL READING AND VOCABULARY BEGINNER 1 3 Credit Hours
Students develop reading proficiency at a beginner level, establishing a basic vocabulary for everyday living which they can recognize in written and spoken English. Focus is on noticing grammar, increasing vocabulary knowledge, recognizing organizational patterns and learning new information with beginner texts. Course introduces students to different reading strategies and encourages independent reading habits. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02109 ESL READING AND VOCABULARY BEGINNER 2 3 Credit Hours
Students develop reading proficiency at an exiting beginner level, establishing a basic vocabulary for everyday living which they can recognize in written and spoken English. Topics from ENG 02108 are reinforced and expanded. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02110 ESL READING AND VOCABULARY PRE-INTERMEDIATE 1 3 Credit Hours
Students develop skill understanding and producing spoken English at an initial pre-intermediate level. Focus is on listening comprehension skills for short texts on a wide range of familiar and simplified academic topics and the development of interpersonal communication skills and habits that encourage independent listening in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02111 ESL READING AND VOCABULARY PRE-INTERMEDIATE 2 3 Credit Hours
Students develop skill understanding and producing spoken English at an exiting pre-intermediate level. Focus is on improving listening comprehension skills for short texts on a wide range of familiar and simplified academic topics, refining interpersonal communication skills on everyday topics and encouraging independent listening in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02112 ESL READING AND VOCABULARY INTERMEDIATE 1 3 Credit Hours
Students develop reading proficiency at an initial intermediate level. Focus is on building vocabulary knowledge of abstract and academic topics, applying reading strategies, learning how to summarize level-appropriate readings and becoming independent readers in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02113 ESL READING AND VOCABULARY INTERMEDIATE 2 3 Credit Hours
Students develop reading proficiency at an exiting intermediate level. Topics from previous courses are reviewed and expanded upon in this course. Focus is on expanding vocabulary knowledge of abstract and academic topics, applying reading strategies, scaffolded text annotation and summary writing, responding critically to reading texts and independent reading in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02114 ESL ACADEMIC READING 1 3 Credit Hours
Students develop proficiency in critical reading skills for academic study at an initial high-intermediate level. Focus is on applying reading strategies to authentic reading texts, academic vocabulary development, paraphrasing, summarizing, participating in classroom discussion and independent reading in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02208 ESL LISTENING AND SPEAKING BEGINNER 1 3 Credit Hours
Students develop listening and speaking skills at a beginner level. Focus is on participating in verbal exchanges in English related to everyday life and starting to develop independent listening habits. Students begin to recognize and use simple present, simple past and future references in statements, questions and answers. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02209 ESL LISTENING AND SPEAKING BEGINNER 2 3 Credit Hours
Students develop listening and speaking skills at an exiting beginner level. Focus is on more skillful participation in verbal exchanges in English related to everyday life and developing independent listening habits. Students refine ability to recognize and use simple present, simple past and future references in statements, questions and answers. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02210 ESL LISTENING AND SPEAKING PRE-INTERMEDIATE 1 3 Credit Hours
Students develop skill understanding and producing spoken English at an initial pre-intermediate level. Students develop listening comprehension skills for short texts on a wide range of familiar and simplified academic topics. Students become increasingly competent at understanding fast spoken English on everyday topics. Students practice interpersonal communication skills, including short presentations about themselves, and are guided in habits that encourage independent listening in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02211 ESL LISTENING AND SPEAKING PRE-INTERMEDIATE 2 3 Credit Hours
Students develop skill understanding and producing spoken English at an exiting pre-intermediate level. Topics from ENG 02210 are reviewed for reinforcement. Focus is on comprehension skills for short texts on a wide range of familiar and some simplified academic topics, competence at understanding fast spoken English on everyday topics, interpersonal communication skills and independent listening in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02212 ESL LISTENING AND SPEAKING INTERMEDIATE 1 3 Credit Hours
Students develop skill understanding and producing spoken English at an initial intermediate level. Listening focus is on applying comprehension strategies, vocabulary development and note taking on short academic lectures and level-appropriate authentic listening materials. Speaking focus is on summarizing, classroom discussion and associated skills and short presentations. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02213 ESL LISTENING AND SPEAKING INTERMEDIATE 2 3 Credit Hours
Students develop skill understanding and producing spoken English at an exiting intermediate level. Topics from ENG 02212 are reviewed and expanded upon in this course. Listening focus is on applying strategies, vocabulary development, note taking, paraphrasing and summary writing. Speaking focus is on refining classroom discussion skills and making short presentations. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02214 ESL ACADEMIC LISTENING AND SPEAKING 1 3 Credit Hours
Students develop skill understanding and producing spoken English for academic study at an initial high-intermediate level. Listening focus is on academic vocabulary development, note taking strategies and summarizing authentic and academic listening texts. Speaking focus is on developing communicative competence in academic discussion. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02500 ESL PRONUNCIATION 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Study of English pronunciation with practice in segmental and suprasegmental features (sounds, sound combinations, syllables, stress, rhythm, and intonation). Students are placed in the appropriate course based on test score. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 1.4 lecture
Grade Mode: Standard Letter

ENG 11002 COLLEGE WRITING-STRETCH (KCMP) 3 Credit Hours
Continues the instruction and practice necessary to write for college, with emphasis on the reading, thinking, writing and technological skills necessary for writing college level texts.
Prerequisite: Minimum C grade in ENG 01001; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Composition, Transfer Module Composition

ENG 11011 COLLEGE WRITING (KCMP) 3 Credit Hours
The study and practice of academic writing, including an introduction to rhetorical principles, the writing process, critical reading, research and technology. Students who do not meet the prerequisites but have a minimum 2.8 high school GPA or a score of 165 on the GED Reasoning Through Language Arts should contact the department for approval to register.
Prerequisite: ACT English score of 18-25; or SAT Evidence Based Reading and Writing score of 480-590; or Accuplacer Reading Comprehension score of 250 or higher and WritePlacer score of 4; or WritePlacer score of 5 or higher.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Composition, Transfer Module Composition

ENG 12011 ESL ACADEMIC WRITING 2 3 Credit Hours
Students apply writing skills needed for participation in academic coursework at an exiting high-intermediate level. Topics from previous courses are reviewed and expanded upon. Focus is on writing cause-effect essays and summary responses that are well-developed, organized, grammatically accurate and cohesive and skillfully use source material.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12012 ESL WRITING FOR ACADEMIC DISCIPLINES 1 3 Credit Hours
Students develop writing skills needed for participation in academic coursework at the initial advanced level. Focus is on composing an annotated bibliography and guided research paper in each student's intended field of study, using library resources and skillfully working with source material. Students learn to independently outline, revise and edit their own work.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12013 ESL WRITING FOR ACADEMIC DISCIPLINES 2 3 Credit Hours
Students refine writing skills needed for participation in academic coursework at the initial advanced level. Focus is on composing critical responses to academic literature in each student's intended field of study, using library resources and skillfully working with source material. Students develop skills to independently outline, revise and edit their own work.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12014 ESL ACADEMIC READING 2 3 Credit Hours
Students develop proficiency in critical reading skills for academic study at an exiting high-intermediate level. Topics from previous courses are reviewed and expanded upon in this course. Focus is on critical evaluation of authentic reading texts, academic vocabulary development, paraphrasing, summarizing, participating in classroom discussion and independent reading in English.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12095 SPECIAL TOPICS IN ENGLISH AS SECOND LANGUAGE 1-3 Credit Hours
(Repeatable for credit) Overview of skills related to a special topic in second language learning.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ENG 12111 ESL ADVANCED ACADEMIC READING 1 3 Credit Hours
Students develop skills to understand and analyze reading texts at the advanced level. Focus is on noticing genre features of academic writing, applying reading strategies, increasing reading speed and independence and composing critical responses to reading texts in students' majors.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12112 ESL ADVANCED ACADEMIC READING 2 3 Credit Hours
Students further develop skills to understand and analyze reading texts at the advanced level. Focus is on noticing genre features of academic writing, applying reading strategies, increasing reading speed and independence and composing critical responses to reading texts in students' majors.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12211 ESL ACADEMIC LISTENING AND SPEAKING 2 3 Credit Hours
Students develop skill understanding and producing spoken English for academic study at an exiting high-intermediate level. Listening focus is on academic vocabulary development, note taking strategies and critically responding to academic listening texts. Speaking focus is on developing extending communicative competence in academic discussion. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12212 ESL ADVANCED ACADEMIC SPEAKING AND LISTENING 1 3 Credit Hours
Students develop skill understanding and producing spoken English for academic purposes at an initial advanced level. Focus is on note taking, summarizing, independent listening, communicating critical responses, presentation skills and skillfully participating in classroom discussion.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12213 ESL ADVANCED ACADEMIC SPEAKING AND LISTENING 2 3 Credit Hours
Students refine skills in understanding and producing spoken English for academic purposes at an advanced level. Focus is on note taking, summarizing, independent listening, communicating critical responses, presentation skills and skillfully participating in classroom discussion.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12507 ESL DEBATE 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Practice of skills for persuasive speaking, making effective arguments and active listening. Engagement in formal and informal debates and presentations. Must score minimum level 7 on proficiency test.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 1.4 lecture
Grade Mode: Standard Letter

ENG 12508 ESL PUBLIC SPEAKING 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Preparation for continued academic study and professional advancement, including effective techniques for speaking in public. Design and analysis of speeches and presentations. Must score minimum level 8 on proficiency test.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 1.4 lecture
Grade Mode: Standard Letter

ENG 12605 ESL AMERICAN CULTURE I 2 Credit Hours
Overview of basic American values and beliefs related to history, immigration, diversity, and geography. Must score minimum level 5 on proficiency test.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 2.33 lecture
Grade Mode: Standard Letter

ENG 12606 ESL AMERICAN CULTURE II 2 Credit Hours
Overview of basic American values and beliefs related to education, holidays, government and politics, the criminal justice system, America in the 21st century, etc. Must score minimum level 6 on proficiency test.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 2.33 lecture
Grade Mode: Standard Letter

ENG 12707 ESL BUSINESS ENGLISH I 2 Credit Hours
Overview of business communication, business writing strategies, and computer skills in the workplace. Must score minimum level 7 on proficiency test.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

ENG 12708 ESL BUSINESS ENGLISH II 2 Credit Hours
Development of oral and written business communication skills.
Prerequisite: ENG 12707 with a minimum C- grade; and special approval.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

ENG 12801 ESL ACADEMIC SUCCESS 1 Credit Hour
This class will provide transitional support for students preparing to enter an undergraduate or graduate course of study from the ESL Center. Students will focus on the social, cultural, and academic skills needed to be competent and successful in an American university setting including understanding university policies, academic expectations, and cultural norms.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENG 20002 INTRODUCTION TO TECHNICAL WRITING 3 Credit Hours
Introduction to communication practices within technical communities. Planning, drafting, revising and editing. Process descriptions, object descriptions, instructional texts, technical correspondence, problem reports, critical reflection.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or minimum C- grade in ENG 11002, ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 20021 INTRODUCTION TO CREATIVE WRITING 3 Credit Hours
Practice in various forms of creative writing with some emphasis on student interests and on sources of creativity.
Prerequisite: Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002, or ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 21001 INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD) 3 Credit Hours
Study of selected ethnic American writers; may include works by African, Asian, Hispanic, Jewish, Native Americans and other groups.
Prerequisite: Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002 or ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 21002 INTRODUCTION TO WOMEN'S LITERATURE (DIVD) 3 Credit Hours
Introduction to works by women writing in English, and to literary and gender issues they raise.
Prerequisite: Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002 or ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 21003 INTRODUCTION TO LGBT LITERATURE (DIVD) 3 Credit Hours
Introduction to lesbian, gay, bisexual and transgender literature in English and to issues of gender, sexuality and culture raised by this literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 21011 RESEARCH WRITING (KCMP) 3 Credit Hours
Continuation of college-level writing instruction with emphasis on research and inquiry, culminating in a lengthy written and/or multimodal project.
Prerequisite: Minimum C- grade in ENG 11002 or ENG 11011 or HONR 10197; or ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Composition, Transfer Module Composition

ENG 21054 INTRODUCTION TO SHAKESPEARE (KHUM) 3 Credit Hours
Study of representative plays and poems in the context of Shakespeare's age, his language and his cultural influence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Humanities, Transfer Module Humanities

ENG 22071 STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM) 3 Credit Hours
Great works of world literature read in English, from ancient world to 1700, covering a wide range of ethnic and national voices, genres and traditions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Humanities, Transfer Module Humanities

ENG 22072 STORIES TO SAVE THE WORLD: LITERATURE AND THE FUTURE OF HUMANITY (KHUM) 3 Credit Hours
Great works of world literature read in English, from 1700 to today, covering a wide range of ethnic and national voices, genres and traditions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

ENG 22073 MAJOR MODERN WRITERS: BRITISH AND UNITED STATES (KHUM) 3 Credit Hours
Introduction to British and U.S. writers of the 20th and 21st centuries; study of their works in their literary and cultural contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Humanities, Transfer Module Humanities

ENG 24001 INTRODUCTION TO LITERARY STUDY 3 Credit Hours
Introduction to techniques for reading and writing about literature, with emphasis on reading strategies for prose, poetry and drama. Literary terms, composition of interpretive essays, and literary research is also studied.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 24002 INTRODUCTION TO COMPOSITION THEORY 3 Credit Hours
Provides an introduction to composition theory, research in writing studies and pedagogical practices for academic writing. Students learn different methods of teaching writing by producing essays and projects within different genres and by applying different approaches to composition to their own work. Students examine writing, as well as research and teaching about writing, as socially, politically and historically situated activities.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 25001 LITERATURE IN ENGLISH I 3 Credit Hours
British literature written before 1800 studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 25002 LITERATURE IN ENGLISH II 3 Credit Hours
British literature written since 1800 studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 25004 LITERATURE IN THE UNITED STATES I 3 Credit Hours
U.S. literature from the colonial period until 1865 studies within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 25005 LITERATURE IN THE UNITED STATES II 3 Credit Hours
U.S. literature from 1865 to the present studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 26001 POPULAR FORMS OF LITERATURE 3 Credit Hours
Introduction to popular forms of literature such as the western, the detective story, science fiction, fantasy, the war story and others.
Prerequisite: Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002; or ENG 11011; or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 26095 SOPHOMORE SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) In-depth study of a particular writer, theme or literary movement, such as literature and film, gothic novels.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30050 WRITING AND RHETORIC IN A DIGITAL AGE 3 Credit Hours
Writing course with a focus on learning and using a variety of tools available within contemporary digital composing environments.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30051 WRITING, RHETORIC AND NEW MEDIA 3 Credit Hours
Rhetorical principles for multimodal writing to produce rhetorically effective professional, scholarly, personal, and civic texts that integrate some blend of written word, visuals, images, audio and video.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30053 WRITING FOR VIDEO GAMES 3 Credit Hours
Video Game Writing, a fast-paced and dynamic discipline, encompasses ever-evolving skills and techniques from many areas, including fiction writing, script crafting, game design, and storytelling. Particular attention will be given to writing skills connected with the development of characters, plots, and worlds. In addition, this course will focus on specific techniques drawn from these writing and design areas, highlighting materials from writers and designers involved in the industry.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

ENG 30062 PRINCIPLES OF TECHNICAL WRITING 3 Credit Hours
Introduces theoretical principles of technical communication. Extensive practice in the use, evaluation and production of complex technical documents including research reports/research proposals. Emphasis on oral, written and electronic communication.
Prerequisite: Minimum C- grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30063 PROFESSIONAL WRITING 3 Credit Hours
Practice norms and strategies of effective workplace communication.
Prerequisite: Minimum C- grade in ENG 21011 or HONR 10297; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

ENG 30064 ARGUMENTATIVE PROSE WRITING 3 Credit Hours
Practice in writing argumentative essays, with emphasis on discussion of student work.
Prerequisite: Minimum C- grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30065 EXPOSITORY PROSE WRITING 3 Credit Hours
Practice in prose composition with emphasis on exposition and discussion of student work.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30066 WRITING IN THE PUBLIC SPHERE (ELR) 3 Credit Hours
Writing course focusing on a multimodal service-learning project collaborating with peer and community partners in an online, hybrid or face-to-face delivery system.
Prerequisite: Minimum C- grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 30067 FICTION WRITING I 3 Credit Hours
Instruction and practice in writing fiction with specific models and discussions of student work on a weekly basis.
Prerequisite: ENG 20021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30068 FICTION WRITING II 3 Credit Hours
Continued instruction and practice in writing of fiction with specific models and discussion of student work on a weekly basis.
Prerequisite: ENG 30067.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30069 POETRY WRITING I 3 Credit Hours
Instruction in and practice of writing poetry with specific models and discussion of student work on a weekly basis.
Prerequisite: ENG 20021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30070 POETRY WRITING II 3 Credit Hours
Continued practice in writing of poetry with specific models and discussion of student work on a weekly basis.
Prerequisite: ENG 30069.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30071 CREATIVE NONFICTION 3 Credit Hours
Instruction and practice in writing creative nonfiction with specific models and discussions of student work on a weekly basis.
Prerequisite: Minimum C grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30074 GRAMMAR FOR EDITING 3 Credit Hours
Course focuses on editing practices that require knowledge of the rules of grammar, usage, and stylistic conventions in a variety of professional fields.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30075 STARTING A NOVEL 3 Credit Hours
Studies aspects of novel writing, building toward a final project in which students develop a chapter of their own novels.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30095 JUNIOR SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)An opportunity to focus on important issues in literature, writing, criticism or cultural studies.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31001 FUNDAMENTAL ENGLISH GRAMMAR 3 Credit Hours
Study of grammatical structures and matters of usage and style in edited U.S. English.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31002 HISTORY OF THE ENGLISH LANGUAGE 3 Credit Hours
Study of the development of the English language from the Indo-European period to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31003 LINGUISTICS 3 Credit Hours
Survey of language study including linguistic tools of analysis such as phonetics, morphology and syntax, and selected topics in applied linguistics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31004 LEXICOLOGY/LEXICOGRAPHY 3 Credit Hours
In-depth study of the lexicon in language use and the reasons for its expansion and continuous change. Study of tools in lexicography and analysis of the role of lexicography in language education.
Prerequisite: ENG 31003.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31005 CHILD SECOND LANGUAGE ACQUISITION 3 Credit Hours
Explores theory, research and teaching/learning applications of second language acquisition in children.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31006 WORLD ENGLISHES (DIVG) (WIC) 3 Credit Hours
Explores English varieties in the context of world languages, examining language politics with a focus on first/second language education and literacy in an electronic age.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Writing Intensive Course

ENG 31007 PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours
Theoretical bases, approaches, techniques of second language pedagogy at the elementary and secondary levels. Inquiry into English as a Second Language methods, materials and lesson planning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31008 GRAMMAR FOR TEACHING ENGLISH AS A SECOND/FOREIGN LANGUAGE 3 Credit Hours
Introduces students to grammars of spoken and written English and pedagogical grammar. Topics include parts of speech, tense and aspect, clause and phrase types, grammar in genre and pedagogical applications relevant to the English as a second/foreign language profession.
Prerequisite: ENG 31001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31009 ADULT SECOND LANGUAGE ACQUISITION 3 Credit Hours
Explores theory, research, teaching, and learning applications of second language acquisition in adult populations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31010 THE BILINGUAL MENTAL LEXICON 3 Credit Hours
Course investigates word memory, meaning and change within language acquisition and teaching. Questions addressed include what it means to 'know' a word, how much vocabulary is needed for different language proficiency levels, the implications of cognates and false cognates and how language change over time may affect vocabulary learning and use. Research tools of corpus linguistics are applied and practiced, including the use of academic and other word lists, concordances in lexical frequency and collocational analyses and data driven learning for second language discovery and acquisition.
Prerequisite: ENG 31003.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31012 GENDER AND LANGUAGE 3 Credit Hours
This course applies linguistic concepts to examine gendered language in written and oral discourse, focusing on the definition of gender and how we experience it in our lives.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31095 SPECIAL TOPICS IN LINGUISTICS 3 Credit Hours
(Repeatable for credit) Study of specific topics in linguistics such as sociolinguistics, phonetics and phonology or bi- and multi-lingualism.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 32001 CHILDREN'S LITERATURE 3 Credit Hours
Survey of children's literature from Mother Goose rhymes and picture books through modern realistic fiction.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 32002 LITERATURE FOR YOUNG ADULTS 3 Credit Hours
Study of literature appropriate to young adults.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33001 U.S. LITERATURE TO 1865 3 Credit Hours
U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the Colonial period through the Civil War.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33002 U.S. LITERATURE FROM 1865 TO 1945 3 Credit Hours
U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the close of the Civil War through World War II.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33003 U.S. LITERATURE FROM 1945 TO PRESENT 3 Credit Hours
U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the close of World War II to the present.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33005 NATIVE AMERICAN LITERATURE (DIVD) 3 Credit Hours
This course explores Native American literature from regions of the U.S., including Alaska and Hawaii. Students learn approaches to traditional and contemporary forms of storytelling and song/poetry as well as recent fiction and memoir. Course prepares students to enter dialogue about key elements of Indigenous perspectives as informed readers.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 33010 AFRICAN-AMERICAN LITERATURE TO 1900 3 Credit Hours
(Cross-listed with AFS 32001) Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Walker, Truth, Garnet, Douglass, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnutt and Dunbar.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33012 MODERN AFRICAN-AMERICAN LITERATURE 3 Credit Hours
(Cross-listed with AFS 32002) Study of African-American literature from the early twentieth century to the present. The authors include Toomer, Hughes, Larsen, Wright, Baldwin, Hansberry, Jones, Lorde, Walker, Morrison, Mosley, Youngblood and Carter.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33013 AFRICANA WOMEN'S LITERATURE (DIVG) 3 Credit Hours
(Cross-listed with AFS 37100) Introduces students to literary works by African and Caribbean women.
Prerequisite: ENG 11011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ENG 33014 AFRICAN-AMERICAN WOMEN'S LITERATURE 3 Credit Hours
(Cross-listed with AFS 37200) Introduces students to literary works by African-American women.
Prerequisite: ENG 11011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33015 AFRICAN LITERATURES (DIVG) 3 Credit Hours
(Cross-listed with AFS 32050) Examines works of major 20th-century African, African American and Caribbean writers and intellectuals. Authors include Niane, Achebe, Emecheta, Prince, Hurston, Hughes, Cesaire, Senghor, Soyinka and many others.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ENG 34001 MEDIEVAL LITERATURE 3 Credit Hours
Medieval literary themes, genres, and authors studied in their historical and cultural contexts. Selections from Anglo-Saxon and Middle English literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34002 BRITISH LITERATURE, 1500-1660 3 Credit Hours
British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Renaissance and Reformation literature through the English Civil War.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34003 BRITISH LITERATURE, 1660-1800 3 Credit Hours
British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Restoration, Augustan and early Romantic literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34004 BRITISH LITERATURE, 1800-1900 3 Credit Hours
British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Romantic and Victorian literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34005 BRITISH AND IRISH LITERATURE, 1900-PRESENT 3 Credit Hours
British and Irish literary themes, genres and authors studied in their historical and cultural contexts. Selections from modern and post modern literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34011 WORLD LITERATURE IN ENGLISH (DIVG) 3 Credit Hours
An examination of selected writings in English by postcolonial authors from Africa, Asia, the Caribbean and other parts of the world.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ENG 34021 WOMEN'S LITERATURE (DIVD) 3 Credit Hours
Critical and theoretical consideration of gender issues concerning British and U.S. women writers studied in their historical and cultural contexts.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 34031 SHORT STORY 3 Credit Hours
Critical analysis of short stories written by important world authors. Selections include stories originally written in English and stories translated into English.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34041 FAIRY TALES 3 Credit Hours
Study of classic fairy tales by Perrault, Grimms, Andersen and others as fundamental texts of Western culture worthy of literary criticism.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34055 SHAKESPEARE 3 Credit Hours
Study of plays representing Shakespeare's entire career, including Henry IV parts I and II, The Merchant of Venice, Measure for Measure, Hamlet, Othello and The Tempest.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34065 CHAUCER 3 Credit Hours
Close study of Chaucer's Canterbury Tales, with some attention to courtly poems and/or selected lyrics.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34070 KNIGHTS AND OUTLAWS IN LITERATURE AND CULTURE 3 Credit Hours
This course invites students to explore literary representations of iconic medieval figures while examining the historical and cultural contexts that produced them. The focus is on Arthurian literature along with the "Matter of the Greenwood" (medieval outlaw literature). Course lectures cover the origins of these figures and trace their representation from the Middle Ages to the present. Emphasis is placed on the changes the figures/stories have undergone and how this is reflective of different periods/cultures. Students critically engage the material and produce their own analysis of the literature set within a historical/cultural context.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34090 SHAKESPEARE IN PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for credit) Course is designed around a field trip to the American Shakespeare Center in Staunton, VA, during which students attend performances of plays and participate in workshops. Students also attend at least one performance of an early modern play staged in Northeast Ohio. Students formally study all the plays before attending performances of them.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture, Study Away
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 34095 SPECIAL TOPICS:MAJOR AUTHOR STUDIES 3 Credit Hours
(Repeatable for credit when topics varies) Intensive study of one or more authors from the English-speaking world.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 35105 LITERATURE, CULTURE AND ENVIRONMENT 3 Credit Hours
Studies literature and other cultural artifacts in the context of environment and nonhuman entities more generally, including plants, animals, landscapes, buildings, roads, and more. Investigates such issues as ecological crisis, climate change, species extinctions, the impacts of geography on culture, urban environments, space and place, nonhuman lives, wilderness, and more. Courses may focus on a single national literature, or on a particular time period, or they may be thematically, regionally, or otherwise organized.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 35201 THE BIBLE AS LITERATURE 3 Credit Hours
Study of Bible as a great book subject to literary criticism and as a main document of Western culture. Old and New Testaments read.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 35301 LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD) 3 Credit Hours
Study of theory, language and other aspects of lesbian, gay, bisexual and transgendered literature and culture.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 35401 SCIENCE FICTION 3 Credit Hours
Study of the origins, history, themes and major works of science fiction drawn from a variety of national literatures, as well as the adaptation of literary works into film, television, graphic novels, video games, and other forms.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 36005 FILM AND NARRATIVE 3 Credit Hours
Studies film as narrative, as story. Emphases will range from thematically oriented courses to courses organized by historical period, national context, or other criteria. Courses may investigate literary texts (such as novels or plays) made into films or the relationship between literature and film in other ways.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 37001 CLASSICAL RHETORIC 3 Credit Hours
Ancient approaches to rhetoric studied in their historical and cultural contexts. Selections from Greek and Roman thinkers such as the Sophists, Plato, Aristotle, Cicero and Quintilian.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 38001 CRITICAL THEORY AND READING 3 Credit Hours
Introduction to major interpretive paradigms in literary studies, from American New Criticism to the present, with emphasis on strategies for analyzing poetry, drama and narrative fiction.
Prerequisite: ENG 21011 or HONR 10297; and ENG 24001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 38002 RHETORIC AND WRITING STUDIES 3 Credit Hours
Introduction to theories and scholarship that have shaped the disciplinary study of rhetoric and writing, including key figures and concepts from classical and modern rhetoric that continue to influence contemporary writing scholarship and pedagogy.
Prerequisite: ENG 21011 or HONR 10297; and ENG 24001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 38895 SPECIAL TOPICS IN WRITING 3 Credit Hours
(Repeatable for credit) Topics vary with an emphasis on writing may. Topics include editing, publishing and grammar.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39095 SPECIAL TOPICS IN LITERARY HISTORY 3 Credit Hours
(Repeatable for credit) Topics vary in the study of selected literary histories such as the travel narrative, the fairy tale, the detective story and postcolonial literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39495 SPECIAL TOPICS IN LITERATURE 3 Credit Hours
(Repeatable for credit) Special topics include but are not limited to drama, poetry, fiction, ethnic literature, women's literature and comparative literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39595 SPECIAL TOPICS IN LITERARY CRITICISM 3 Credit Hours
(Repeatable for credit) Study of selected topics in literary criticism such as reader response criticism, psychoanalytic methodologies or Marxist approaches.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39895 SPECIAL TOPICS IN RHETORIC, COMPOSITION AND WRITING 3 Credit Hours
(Repeatable for credit) Study of selected topics in rhetoric, composition and writing such as historical and contemporary studies of political and professional discourse.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39995 SPECIAL TOPICS CULTURAL STUDIES 3 Credit Hours
(Repeatable for credit) Study of selected topics in cultural studies organized around a particular mode or methodology of cultural analysis.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 40072 HOW TO EDIT PROFESSIONALLY 3 Credit Hours
Provides students with an overview and practical experience of the editing and proofreading process for the professional publishing industry. Provides instruction, practice and feedback on editing documents academic and nonacademic, digital and print, often including fact-checking, proofreading, working with social media and more.
Prerequisite: ENG 21011 or HONR 10297; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 40073 HOW TO PUBLISH: BOOKS AND BEYOND 3 Credit Hours
Students learn how to undertake the publishing process for books, articles and more. Addresses how to conceive of publishable work, create the content, locate publishing venues, communicate with those venues, market products and other elements of publishing. Students have the opportunity to submit their work for actual publication as part of this course.
Prerequisite: ENG 21011 or HONR 10297; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 40089 INTERNATIONAL EXPERIENCE: THEMES IN STUDY ABROAD (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) This course invites students to explore English themes while traveling abroad. Students learn about the course material within a particular/relevant geographic/cultural setting. Course lectures and discussion prior to the class trip prepare students to situate the material within the geographic/cultural context, thus prompting students to be critically engaged during the travel dates. After the study abroad portion of the course, students are required to evaluate the course material/travel via a final project that draws connections between both.
Prerequisite: ENG 21011 or HONR 10297; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ENG 40099 WRITING PORTFOLIO (ELR) 2 Credit Hours
Directed practice in constructing a portfolio of original writing, which may be creative, expository, technical, or preprofessional in nature.
Prerequisite: Creative Writing minor or Professional and Technical Writing minor; and junior standing.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ENG 41001 SOCIOLINGUISTICS IN SCHOOLING (DIVD) (WIC) 3 Credit Hours
Examines the interactions between society and language. Explores pedagogical implications of language variation.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Writing Intensive Course

ENG 41003 LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT 3 Credit Hours
Advanced inquiry into English as a Second Language teaching methods, curriculum design, and materials selection, use and design. Assessment of learners in a student-centered ESL or language curriculum.
Prerequisite: ENG 31007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 41092 ESL PRACTICUM IN INTENSIVE ENGLISH PROGRAMS (ELR) 3 Credit Hours
(Repeatable for credit) Provides opportunities for students to observe, assist, and or teach English as a second language in the ESL Center, including 70 fieldwork hours. Participating ESL Center classes are held Monday through Friday.
Pre/corequisite: ENG 31007.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41093 VARIABLE TITLE WORKSHOP IN ENGLISH 1-6 Credit Hours
(Repeatable for credit) An opportunity to focus on concerns of the discipline and on new developments in writing, criticism, literature and career opportunities.
Prerequisite: Junior standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 41094 COLLEGE TEACHING ASSISTANT (ELR) 1-3 Credit Hours
(Repeatable for credit) An opportunity to assist in the development and delivery of a college course in English. Expectations may include group and class leadership, selection of materials, development of classroom inquiry techniques, and multimedia support.
Prerequisite: Senior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Open to advanced undergraduate students in English or TESL. Only 3 hours of individual investigation count toward the English major.
Prerequisite: Junior standing; and special approval of instructor and department.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ENG 41098 GUIDED RESEARCH IN ENGLISH (ELR) 1-3 Credit Hours
(Repeatable for credit) Independent student research with faculty guidance.
Prerequisite: Junior standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41192 ESL PRACTICUM IN A P-12 SETTING (ELR) 3 Credit Hours
(Repeatable for credit) Provides students seeking educational licensure opportunities to observe, assist, and or teach English as a second language in P-12 schools, including 70 field-clinical hours. Students must complete the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at the assigned school-agency before the first day of Practicum.
Prerequisite: ENG 31005.
Pre/corequisite: ENG 31007.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41194 TUTORING OF WRITING 3 Credit Hours
Provides training and professional development for writing center tutors. Course covers writing center theory and practice, the history writing centers, composition pedagogy, writing across the curriculum, tutoring ESL students, assessing writing center services, and the development of outreach programming.
Prerequisite: Minimum C grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 41198 RESEARCH ASSISTANT IN ENGLISH (ELR) 1-3 Credit Hours
(Repeatable for credit) An opportunity to assist a faculty member on faculty initiated research in criticism and literary analysis, rhetoric and composition, or applied language acquisition and teaching.
Prerequisite: Junior standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41292 TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM (ELR) 3,6 Credit Hours
(Repeatable for a maximum of 12 credits) Students observe, participate and teach in a number of school contexts in Florence, Italy, from primary to secondary, community and higher education. Course gives students authentic practice teaching English in the foreign language context.
Pre/corequisite: ENG 31007.
Schedule Type: Practical Experience
Contact Hours: 5-10 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41392 STUDENT TEACHING (ELR) 9 Credit Hours
Full-time student teaching over 13 weeks in English as a second language in grades P-12. Background check by the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) required to be presented to authorized personnel at the assigned school agency before the first day of student teaching. To be enrolled in the course, students must have official valid certification of child safety training, approved basic life support and ALICE training presented to the campus office of clinical experience.
Prerequisite: CULT 29535 and EPSY 29525 and ETEC 39525; and eligibility for student teaching; and special approval.
Corequisite: ENG 41525.
Schedule Type: Practical Experience
Contact Hours: 27.733 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ENG 41525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ENG 51525) Preparation for student teaching of English as a second language, grades K-12.
Prerequisite: CULT 29535 and EPSY 29525 and ETEC 39525.
Corequisite: ENG 41392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 42092 WRITING INTERNSHIP (ELR) 1-3 Credit Hours
(Repeatable for credit) Guided internship in professional writing, editing, or publishing. Possible placements include the KSU Press, Institute for Bibliography and Editing, and WICK Poetry Center.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ENG 42192 SERVICE LEARNING IN ENGLISH STUDIES (ELR) 3 Credit Hours
(Repeatable for credit) Provides guided opportunities for completing service-learning related to English Studies. Service placements meet a community need and provide practice in such areas as writing, editing, publishing, teaching, and tutoring.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 43092 TEACHING POETRY IN THE SCHOOLS (ELR) 3 Credit Hours
(Repeatable for credit) Exploration of various approaches to teaching poetry writing, poetry appreciation, and poetry performance in school contexts. Study of creative writing as a means of developing literacy and promoting human growth.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 49091 SENIOR SEMINAR (ELR) (WIC) 3 Credit Hours
(Repeatable for credit) Intensive study of in English studies. Students complete a long writing project during the semester.
Prerequisite: ENG 38001 or ENG 38002; and English major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENG 49095 SENIOR AND GRADUATE SPECIAL TOPICS 3 Credit Hours
(Slashed with ENG 59095)(Repeatable for credit) Intensive study of topics that vary each semester.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 51525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ENG 41525) Preparation for student teaching of English as a second language, grades K-12.
Prerequisite: Graduate standing.
Corequisite: ENG 53392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 53392 STUDENT TEACHING 6 Credit Hours
Full-time student teaching over 13 weeks in English as a second language in grades P-12. Background check by the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) required to be presented to authorized personnel at the assigned school agency before the first day of student teaching. To be enrolled in the course, students must have official valid certification of child safety training, approved basic life support and ALICE training presented to the campus office of clinical experience.
Prerequisite: Eligibility for student teaching; graduate standing; and special approval.
Corequisite: ENG 51525.
Schedule Type: Practical Experience
Contact Hours: 27.733 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 59095 SENIOR AND GRADUATE SPECIAL TOPICS 3 Credit Hours
(Slashed with ENG 49095)(Repeatable for credit) Intensive study of topics that vary each semester.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 61000 INTRODUCTION TO RESEARCH AND PEDAGOGY IN CRITICAL READING 3 Credit Hours
Introduction to contemporary methods of literary and cultural criticism and to the profession of teaching English in college.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 61094 INTRODUCTION TO RESEARCH IN THE TEACHING OF COLLEGE WRITING 3 Credit Hours
(Repeatable for credit)Using the Kent program as an example, the focus will be on teaching composition, literature and language along with the needed planning and evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 62291 SEMINAR:BRITISH LITERATURE 1800 TO PRESENT 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 72291) In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 63001 METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours
(Slashed with ENG 73001) The theory and methodology of teaching English as a second language.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63033 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Cross-listed with MCLS 60661) (Slashed with ENG 73033) This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63034 SOCIOLINGUISTICS 3 Credit Hours
(Cross-listed with MCLS 60625)(Slashed with ENG 73034) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63038 TEACHING LITERATURE AND CULTURE 3 Credit Hours
(Cross-listed with MCLS 60622) Students explore theories of literature and culture teaching as well as strategies for teaching literature and culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63039 SECOND LANGUAGE CURRICULUM AND ASSESSMENT 3 Credit Hours
(Cross-listed with MCLS 60663) Students study second language curriculum and assessment design and current issues, including oral proficiency testing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63040 LINGUISTICS FOR THE LANGUAGE PROFESSIONS 3 Credit Hours
(Cross-listed with MCLS 60601) Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63041 DESCRIPTIVE GRAMMAR OF ENGLISH 3 Credit Hours
This course provides a description of English syntax and morphology. Presentation of material will be through rules and exposure to grammatical forms in meaningful contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63043 SECOND LANGUAGE WRITING 3 Credit Hours
(Cross-listed with MCLS 60665) Theory and practice in teaching second language writing. Topics will include current and historic approaches to second language writing, approaches to tutoring international students in writing centers, teacher and peer response, error correction, and technology in second language writing instruction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63044 SECOND LANGUAGE READING 3 Credit Hours
(Cross-listed with MCLS 60664) Addresses a wide variety of topics related to second language reading, including theoretical perspectives, the process of learning to read, models of how reading happens, comprehension, fluency, discourse structures, strategy use, and vocabulary acquisition. Teaching issues related to second language reading will also be addressed directly, namely assessment and curriculum building.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63045 ENGLISH FOR SPECIFIC PURPOSES 3 Credit Hours
Examination of academic, workplace, and vocational language in the design of second language instructional materials and curriculum. Discourse domains from medical to agricultural to business are analyzed through applied linguistic tools. Curriculum and instructional materials are studied and designed.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 63046 SECOND LANGUAGE LISTENING AND SPEAKING 3 Credit Hours
Theory and practice in second language listening and speaking. Topics will include current approaches to second language speech perception and production, issues in teaching and assessing second language listening and speaking, and phonetic, phonological, and acoustic analyses for language teachers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63047 HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING 3 Credit Hours
(Cross-listed with MCLS 60624) Theory and practice in language education of heritage language speakers. Ethnic, minority, ancestral, and community languages and language practices will be explored with implications for second and additional language learning in English, foreign language, bilingual education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63048 SOCIOCULTURAL THEORY AND FOREIGN AND SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Cross-listed with MCLS 60623) The foundations of sociocultural theory and its applications to the second and foreign language classroom.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63049 SECOND LANGUAGE RESEARCH METHODS 3 Credit Hours
(Cross-listed with MCLS 63049) This course provides students with skills for reading, interpreting and conducting research studies investigating second/foreign language teaching, learning and/or use. Students learn about quantitative and qualitative research methods commonly used in second language research. Students also conduct a research project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63391 SEMINAR: LINGUISTICS 3 Credit Hours
(Repeatable for credit) (Cross-listed with ENG 73391) In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 64070 WRITING POETRY 3 Credit Hours
(Cross-listed with ENG 74070) Advanced workshop in creative writing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 64071 WRITING FICTION 3 Credit Hours
(Slashed with ENG 74071) Advanced workshop in the writing of fiction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65012 READING AND INTERPRETING RESEARCH ON WRITING 3 Credit Hours
(Slashed with ENG 75012) Course focuses on how to read critically and interpret published research by examining the principle means through which "knowledge" is constructed in writing research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65022 RHETORICAL THEORY:GREEK AND ROMAN 3 Credit Hours
(Slashed with ENG 75022) Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65023 RHETORICAL THEORY:18TH, 19TH AND 20TH CENTURIES 3 Credit Hours
(Slashed with ENG 75023) Course surveys 18th-, 19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65027 ROLE OF COMPOSITION 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 75027) Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 65035 LINGUISTICS FOR RHETORICIANS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 75035) Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 65051 LITERACY:FUNCTIONS, PRACTICES AND HISTORY 3 Credit Hours
(Slashed with ENG 75051) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project. Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ("adaptation," "power," "grace") those studies employ.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65052 WRITING ACTIVITY AS SOCIAL PRACTICE 3 Credit Hours
(Slashed with ENG 75052) Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65053 WRITING TECHNOLOGIES 3 Credit Hours
(Slashed with ENG 75053) Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66051 SHAKESPEARE 3 Credit Hours
(Slashed with ENG 76051) Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66101 LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR 3 Credit Hours
(Slashed with ENG 76101) Broad, synchronic study of U.S. literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66103 ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours
(Slashed with ENG 76103) An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66104 AFRICAN-AMERICAN LITERATURE 3 Credit Hours
(Slashed with ENG 76104) An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture identity or history.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66302 POST-COLONIAL LITERATURE IN ENGLISH 3 Credit Hours
(Slashed with ENG 76302) An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66401 LITERARY MOVEMENTS 3 Credit Hours
(Slashed with ENG 76401) An examination of one particular movement in literary history via its writers, artists benefactors, thinkers, political demagogues and critics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66501 NARRATIVE LITERATURE 3 Credit Hours
(Slashed with ENG 76501) Close readings of selected novels, short stories biographies autobiographies life writing journals and other forms of narrative and verse by British American and other writers in English from one or more periods in literary history.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66502 DRAMATIC LITERATURE 3 Credit Hours
(Slashed with ENG 76502) Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States from one or more periods in literary history.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66592 PRACTICUM IN TUTORING WRITING 1 Credit Hour
(Repeatable for credit)Practical training and experience in tutoring composition.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENG 66595 SPECIAL TOPICS:AUTHORS AND AUTHORSHIP 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76595) Research-based study of problems in the theory or practice of authorship. Typical courses include "The Creative Process," "Authors and Printers," "Faulkner in Hollywood".
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66705 NARRATIVE FUNCTIONS AND CONSEQUENCES 3 Credit Hours
(Slashed with ENG 76705) Identifies and studies the multifarious ways that narratives of all shapes and sizes permeate and structure one's perception, thinking, feeling, understanding, beliefs, values, ideals and actions in all areas of people's personal and collective lives.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66706 UNDERSTANDING RESEARCH METHODS AND DESIGN IN LITERATURE AND WRITING STUDIES 3 Credit Hours
(Slashed with ENG 76706) Analytical reading and interpretation of published research and criticism, its assumptions, trends and controversies; students identify and contextualize present opportunities for research in field.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66707 PRACTICING NARRATIVE RESEARCH METHODS AND DESIGN 3 Credit Hours
(Slashed with ENG 76707) Engages students in a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 66791 SEMINAR:BRITISH AND IRISH LITERATURE 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76791) In-depth treatment of various topics from Old English literature, Beowulf, Middle English literature and Chaucer.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 66891 SEMINAR:LITERATURE OF THE UNITED STATES 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76891) This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 66895 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76895) Study of selected special topics in literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66991 SEMINAR:GENRE 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76991) In-depth examination of one or more kinds of texts focusing on how forms are defined historically and analytically, with special attention to current approaches.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 67101 FEMINIST THEORY AND CRITICISM 3 Credit Hours
(Slashed with ENG 77101) Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 67104 SOCIAL AND CULTURAL THEORY AND CRITICISM 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 77104) Study of important issues and concepts in Marxist, new historicist, ethnic, post- colonialist and other modes of social/cultural theory and criticism.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 67591 SEMINAR: THEORY AND CRITICISM 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 77591) In-depth study of important topics in contemporary theory and criticism.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 67691 SEMINAR:SCHOLARLY EDITING 3 Credit Hours
(Repeatable for credit when topic varies) (Slashed with ENG 77691) In-depth treatment of various topics from modern scholarly editing.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 68093 VARIABLE TITLE WORKSHOP IN ENGLISH 2-6 Credit Hours
(Repeatable for credit) (Slashed with ENG 78093) Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 68096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with ENG 78096) Intensive study of selected writer or special topic.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ENG 68098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 68392 PRACTICUM IN TEACHING COLLEGE ENGLISH 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 78392) Practical training and experience in teaching beginning composition courses.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 68492 PRACTICUM IN TEACHING INTERNATIONAL STUDENTS 3 Credit Hours
(Repeatable for credit) Practical training and experience in teaching English to international students in a university intensive English program. Field placement in the ESL Center requires 70 field-clinical hours. Participating classes are Monday through Friday.
Prerequisite: Graduate standing.
Pre/corequisite: ENG 63001.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 6 other
Grade Mode: Standard Letter

ENG 68592 PRACTICUM IN TEACHING P-12 ENGLISH LANGUAGE LEARNERS 3 Credit Hours
(Repeatable for credit) Practical training and experience in teaching English to speakers of other languages in P-12 schools including 100 field-clinical hours in an assigned P-12 school.
Prerequisite: Graduate standing in MA TESL Education Concentration.
Pre/corequisite: ENG 63001.
Schedule Type: Field Experience
Contact Hours: 2 lecture, 100 other
Grade Mode: Standard Letter

ENG 69199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 semester hours, 2 to 6 in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ENG 69299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ENG 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ENG 72291 SEMINAR:BRITISH LITERATURE 1800 TO PRESENT 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 62291) In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 73001 METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours
(Slashed with ENG 63001) The theory and methodology of teaching English as a second language.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 73033 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Slashed with ENG 63033) (Cross-listed with MCLS 60661) This course surveys the major theoretical approaches to language acquisition concentrating on second language acquisition and the relationship between acquisition learning research and second language teaching approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 73034 SOCIOLINGUISTICS 3 Credit Hours
(Slashed with ENG 63034 and MCLS 60625) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 73391 SEMINAR:LINGUISTICS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 63391) In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 74070 WRITING POETRY 3 Credit Hours
(Slashed with ENG 64070) Advanced workshop in creative writing.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 74071 WRITING FICTION 3 Credit Hours
(Slashed with ENG 64071) Advanced workshop in the writing of fiction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75012 READING AND INTERPRETING RESEARCH ON WRITING 3 Credit Hours
(Slashed with ENG 65012) Course focuses on how to read critically and interpret published research by examining the principle means through which "knowledge" is constructed in writing research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75022 RHETORICAL THEORY:GREEK AND ROMAN 3 Credit Hours
(Slashed with ENG 65022) Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75023 RHETORICAL THEORY:18TH, 19TH AND 20TH CENTURIES 3 Credit Hours
(Slashed with ENG 65023) Course surveys 18th-,19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75027 ROLE OF COMPOSITION 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 65027) Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 75035 LINGUISTICS FOR RHETORICIANS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 65035) Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 75051 LITERACY:FUNCTIONS, PRACTICES AND HISTORY 3 Credit Hours
(Slashed with ENG 65051) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project. Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ("adaptation," "power," "grace") those studies employ. Prerequisite: Doctoral standing.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75052 WRITING ACTIVITY AS SOCIAL PRACTICE 3 Credit Hours
(Slashed with ENG 65052) Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75053 WRITING TECHNOLOGIES 3 Credit Hours
(Cross-listed with ENG 65053) Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76051 SHAKESPEARE 3 Credit Hours
(Slashed with ENG 66051) Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76101 LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR 3 Credit Hours
(Slashed with ENG 66101) Broad, synchronic study of U.S. literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76103 ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours
(Slashed with ENG 66103) An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76104 AFRICAN-AMERICAN LITERATURE 3 Credit Hours
(Slashed with ENG 66104) An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture, identity or history.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76302 POST-COLONIAL LITERATURE IN ENGLISH 3 Credit Hours
(Slashed with ENG 66302) An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76401 LITERARY MOVEMENTS 3 Credit Hours
(Slashed with ENG 66401) An examination of one particular movement in literary history via its writers, artists, benefactors, thinkers, political demagogues and critics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76501 NARRATIVE LITERATURE 3 Credit Hours
(Slashed with ENG 66501) Close readings of selected novels, short stories, biographies, autobiographies, life writing, journals, and other forms of narrative and verse by British, American and other writers in English, from one or more periods in literary history.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76502 DRAMATIC LITERATURE 3 Credit Hours
(Slashed with ENG 66502) Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States, from one or more periods in literary history.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76592 PRACTICUM IN TUTORING WRITING 1 Credit Hour
(Repeatable for credit)Practical training and experience in tutoring composition.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENG 76595 SPECIAL TOPICS:AUTHORS AND AUTHORSHIP 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66595) Research-based study of problems in the theory or practice of authorship. Typical courses include "the creative process ", "authors and printers ", "Faulkner in Hollywood".
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76705 NARRATIVE FUNCTIONS AND CONSEQUENCES 3 Credit Hours
(Slashed with ENG 66705) Identifies and studies the multifarious ways that narratives of all shapes and sizes permeate and structure one's perception, thinking, feeling, understanding, beliefs, values, ideals and actions in all areas of people's personal and collective lives.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76706 UNDERSTANDING RESEARCH METHODS AND DESIGN IN LITERATURE AND WRITING STUDIES 3 Credit Hours
(Slashed with ENG 66706) Analytical reading and interpretation of published research and criticism, its assumptions, trends and controversies; students identify and contextualize present opportunities for research in field.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76707 PRACTICING NARRATIVE RESEARCH METHODS AND DESIGN 3 Credit Hours
(Slashed with ENG 66707) Engages students in a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 76791 SEMINAR:BRITISH AND IRISH LITERATURE 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66791) In-depth treatment of various topics from old English literature, Beowulf, Middle English literature, and Chaucer.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 76891 SEMINAR:LITERATURE OF THE UNITED STATES 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66891) This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 76895 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66895) Study of selected special topics in literature.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76991 SEMINAR:GENRE 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66991) In-depth examination of one or more kinds of texts focusing on how forms are defined historically and analytically, with special attention to current approaches.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 77101 FEMINIST THEORY AND CRITICISM 3 Credit Hours
(Slashed with ENG 67101) Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 77104 SOCIAL AND CULTURAL THEORY AND CRITICISM 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 67104) Study of important issues and concepts in Marxist, new historicist, ethnic, post-colonialist and other modes of social cultural theory and criticism.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 77591 SEMINAR:THEORY AND CRITICISM 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 67591) In-depth study of important topics in contemporary theory and criticism.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 77691 SEMINAR:SCHOLARLY EDITING 3 Credit Hours
(Repeatable for credit when topic varies) (Slashed with ENG 67691) In-depth treatment of various topics from modern scholarly editing.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 78093 VARIABLE TITLE WORKSHOP IN ENGLISH 2-6 Credit Hours
(Repeatable for credit) (Cross-listed with ENG 68093) Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 78096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with ENG 68096) Intensive study of selected writer or special topic.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ENG 78392 PRACTICUM IN TEACHING COLLEGE ENGLISH 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 68392) Practical training and experience in teaching beginning composition courses.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 85024 DOMAIN RHETORICS AND THE CONSTRUCTION OF KNOWLEDGE 3 Credit Hours
(Repeatable twice for credit) Course examines disciplinarity and knowledge production as historically and socially situated practices and how they are realized through linguistic, rhetorical and material processes and systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85041 FIELD RESEARCH METHODS IN WRITING 3 Credit Hours
Course focuses on qualitative methods for conducting field research in writing within communities of practice and particular contexts and for analyzing and interpreting data.
Prerequisite: 9 credit hours from the following courses: ENG 75012, ENG 75022, ENG 75023, ENG 73034, ENG 75051, ENG 75052, ENG 75053; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85042 DISCOURSE ANALYSIS 3 Credit Hours
Explores various approaches to discourse analysis (e.g., critical discourse analysis, narrative theory, systemic functional linguistics) and teaches students how to use them to conduct linguistic analyses of discourse. We will examine discourse in terms of the key functions language serves as a form of social action: to represent the world, to invoke and create social relationships, interactions, and identities, and to organize utterances into meaningful discursive events and products.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85054 STUDIES IN LITERACY AND COMMUNITY 3 Credit Hours
Course expands on ENG 75052 by examining in more detail how literacy is embedded in the activities and practices of academic, civic and professional communities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85055 THE NATURE AND RELATIONSHIP OF ACADEMIC AND NONACADEMIC LITERACY 3 Credit Hours
Course explores the relationship between academic and non-academic literacy, focusing on relationships pertaining to the school-to-work transitions that students make.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85056 INTRODUCTION TO THE STUDY OF WRITING ASSESSMENT: RESEARCH, THEORY AND PRACTICE 3 Credit Hours
Provides students with an introduction to the theory, research, and practice of writing assessment outside the classroom, as it is informed through the study of the literatures of college writing assessment and educational measurement. In addition to acquiring a basic understanding of measurement principles like reliability and validity for assessing student writing, students can complete projects of their own design for their own institutions.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85057 RHETORICAL METHODS 3 Credit Hours
Focuses on methodological practices associated with rhetorical theory and considers the epistemological and ontological underpinnings of these theories' methodologies. Course investigates how these theories know and what they deem worth knowing. The course is designed around several significant approaches to analysis, both classical and contemporary. This orientation is intended to offer background and prompt students to apply those rhetorical methodologies in their own work.
Prerequisite: 6 credit hours from ENG 75012, ENG 75022, ENG 75023; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 88098 RESEARCH DOCTORAL 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students who have not yet passed candidacy examination. Credits earned may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval of the graduate chairman.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 89199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in two semesters is required first of which will be the semester in which dissertation work is begun and continuing until completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ENG 89299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: ENG 89199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Enology (ENOL)

ENOL 12000 SCIENCE OF WINE AND BEER PRODUCTION I 3 Credit Hours
Provides an in-depth study of the molecular and analytical principles of wine and beer production. It covers essential chemistry topics, including fermentation, flavor, aroma and color chemistry, while also teaching practical techniques for grape juice and wine analysis. Students engage in both theoretical learning and hands-on lab exercises, emphasizing chemical, physical, and biochemical methods, as well as real-world applications in winery environments.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, .6 lab
Grade Mode: Standard Letter-IP

ENOL 14600 INTRODUCTION TO ENOLOGY 3 Credit Hours
Targets people who became interested in home winemaking with possibilities to grow into the small business opportunity, as well as cellar employees interested in winemaking career. During this course, students build proper basic understanding of winemaking which alleviates common home winemaker's errors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

ENOL 14810 WINERY AND BREWERY SANITATION 3 Credit Hours
The basic science and technology of winery and brewery sanitation that includes an introduction to microbiology. Covers all methods used both in the winery and brewery for sanitation including premises, tanks, pumps, filters, oak barrels and sampling equipment, including but not limited to chemical agents, reagents and thermal treatments leading to sterile bottling. Environmental issues and compliance are also addressed.
Pre/corequisite: ENOL 14600 or VIN 11800.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

ENOL 16000 WINERY EQUIPMENT OPERATION 2 Credit Hours
Covers process technologies and process systems used in modern commercial wineries. Overview of winemaking systems, including work place safety, cleaning and sanitation procedures, winemaking equipment and materials, tanks, barrels and barrel alternatives, filtration systems and bottling equipment. Also touches upon on chillers and electrical needs.
Prerequisite: ENOL 14600.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

ENOL 21010 INTRODUCTION TO WINE AND BEER MICROORGANISMS 3 Credit Hours

Introduction to the basic principles of wine and beer microbiology and the variety of microorganisms frequently encountered in the wine making and brewing process. Yeasts, bacteria and molds play vital roles in the production of wine and beer, both beneficial and harmful. Students become familiar with the morphology, reproduction and sensory attributes of wine and beer microorganisms in order to understand their influence on winemaking and brewing and to be able to manage them effectively.

Prerequisite: ENOL 14600 or VIN 11800.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

ENOL 22000 SCIENCE OF WINE AND BEER PRODUCTION II 2 Credit Hours

Provides an in-depth study of the molecular and analytical principles of wine and beer production. It covers essential chemistry topics, including fermentation, flavor, aroma and color chemistry, while also teaching practical techniques for grape juice and wine analysis. Students engage in both theoretical learning and hands-on lab exercises, emphasizing chemical, physical and biochemical methods, as well as real-world applications in winery environments. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods.

Prerequisite: ENOL 14600 or VIN 11800; and ENOL 12000.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, .6 lab
Grade Mode: Standard Letter-IP

ENOL 22001 ADVANCED WINERY AND BREWERY MICROBIOLOGY AND SANITATION 4 Credit Hours

Introduction to the basic principles of wine and beer microbiology and the variety of microorganisms frequently encountered in the wine making and brewing process. Yeasts, bacteria and molds play vital roles in the production of wine and beer, both beneficial and harmful. Students become familiar with the morphology, reproduction and sensory attributes of wine and beer microorganisms in order to understand their influence on winemaking and brewing, cleaning and sanitation techniques, and to be able to manage them effectively. Environmental and safety considerations, regulatory compliance, as well as spoilage prevention strategies are emphasized.

Prerequisite: ENOL 14600 or VIN 11800; and ENOL 12000.
Pre/corequisite: ENOL 22000.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 lecture, 1.2 lab
Grade Mode: Standard Letter-IP

ENOL 22092 INTERMEDIATE ENOLOGY: HARVEST AND CRUSH WITH FIELDWORK (ELR) 4 Credit Hours

Focused on advanced science and technology concepts of winemaking as it relates to pre-harvest, fruit harvest, and procedures involved in juice and must preparation. Covers advanced principles of grape juice and wine analysis, harvest practices and the application of enological science in a real-world field setting. Builds on the fundamentals taught in Introduction to Enology, Science of Wine and Beer Making I and II and Advanced Winery and Brewery Microbiology and Sanitation.

Prerequisite: ENOL 12000 and ENOL 14600 and ENOL 22000.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ENOL 23092 INTERMEDIATE ENOLOGY: POSTHARVEST WITH FIELDWORK (ELR) 4 Credit Hours

Focused on advanced science and technology concepts of winemaking as it relates to post harvest procedures. Students will gain a deeper understanding of stabilization, clarification, fining, bottling and wine analysis while participating in fieldwork to apply these principles to real-world operations. Builds on the fundamentals taught in Introduction to Enology, Science of Wine and Beer Production 1 and II, Advance Winery and Brewery Microbiology and Sanitation and Intermediate Enology: Harvest and Crush with Field Work.

Prerequisite: ENOL 12000 and ENOL 14600 and ENOL 22000 and ENOL 22092.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ENOL 24600 INTERMEDIATE ENOLOGY - HARVEST AND CRUSH 2 Credit Hours

Focused on advanced science and technology concepts of winemaking as it relates to pre-harvest, fruit harvest, and procedures involved in juice and must preparation. Builds on the fundamentals taught in Introduction to Enology, Molecular Principles of Grape and Wine, and Wine Microbiology.

Prerequisite: ENOL 14600.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

ENOL 24700 INTERMEDIATE ENOLOGY - POSTHARVEST 2 Credit Hours

Focused on advanced science and technology concepts of winemaking as it relates to post harvest procedures involved in stabilization, clarification, fining, and bottling. Builds on the fundamentals taught in Introduction to Enology, Molecular Principles of Grape and Wine, Wine Microbiology, Wine and Must Analysis, and Intermediate Enology Harvest and Crush.

Prerequisite: ENOL 14600 and ENOL 24600.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

ENOL 25792 FALL WINE PRODUCTION FIELD WORK (ELR) 3 Credit Hours

Principles of grape juice and wine analysis and the reasons for use of each analysis. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods. Students participate in workshops and hands-on experiences at participating wineries.

Prerequisite: ENOL 14600; and ENOL 16000.
Corequisite: ENOL 24600.
Schedule Type: Field Experience, Lecture
Contact Hours: .5 lecture, 2.5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ENOL 25992 CELLAR OPERATIONS FIELD WORK (ELR) 2 Credit Hours
Provide students initiated in the field of enology with actual and practical exposure to the technology of wine making as is performed during the passive vineyard periods associated with winter and spring. Students are expected to improve their understanding of the methods and science involved by on-site participation in each of the various activities associated with finished wine production. Course serves as actual practical exposure and may qualify as experience for those seeking employment in commercial enology.
Prerequisite: ENOL 25792.
Schedule Type: Field Experience, Lecture
Contact Hours: .6 lecture, 4.25 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ENOL 26600 SENSORY EVALUATION 3 Credit Hours
Intended for those individuals who need to develop an understanding of the principles of sensory evaluation used in commercial wine making. It also benefits wine enthusiasts interested in reaching advanced levels of appreciation, as well wine producers, wine merchants and enologists, who by the nature of their profession need to discern flavors and establish tasting benchmarks. Students practice sensory analysis at home and in workshops to further their sensory evaluation skills and techniques.
Prerequisite: ENOL 14600.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

ENOL 26800 WINE AND MUST ANALYSIS 3 Credit Hours
Principles of grape juice and wine analysis and the reasons for use of each analysis. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods. Students participate in workshops and hands-on experiences at participating wineries.
Prerequisite: ENOL 14600.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

Entrepreneurship (ENTR)

ENTR 27056 INTRODUCTION TO ENTREPRENEURSHIP 3 Credit Hours
Course examines the entrepreneurial process from idea to launch. Topics of study include the entrepreneurial mindset, attributes of successful entrepreneurs, trendspotting, opportunity recognition, innovation, defining problems and solutions, venture screening, risk assessment, risk tolerance, identification of resources and business planning. Additional focuses include sustainability, how to differentiate products and services to the market and how to turn opportunities into viable businesses. The course is delivered using a multi-discipline approach.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Entrepreneurship

ENTR 27466 SPEAKER SERIES IN ENTREPRENEURSHIP 1 Credit Hour
This course explores entrepreneurship using the experiences of a broad range of entrepreneurs. During the semester, a series of videos created by the Department of Marketing and Entrepreneurship's instructors, present entrepreneurs sharing their paths in establishing successful enterprises, including obstacles they encountered and missteps they made along the way. In addition, students will view videos of researchers who have studied entrepreneurship that provide additional insight into the patterns, realities and misconceptions associated with entrepreneurship and entrepreneurs
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENTR 37040 ENTREPRENEURIAL TOOLS 3 Credit Hours
This course provides an overview of the analytical, decision-making, and communication skills students need to succeed in subsequent coursework and as an entrepreneur. Topics include financial analysis, strategic analysis, for-profit business decision-making and persuasive communications.
Prerequisite: ENTR 27056 with a minimum C grade; minimum 2.000 overall GPA; and Entrepreneurship major or minor or Arts Entrepreneurship minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37045 SALES IN THE ENTREPRENEURIAL VENTURE 3 Credit Hours
This course focuses on the fundamentals of human persuasion and sales as they apply to the early stages of a new venture or start-up. Students will be introduced to the skills practiced by accomplished salespeople. These skills, grounded in understanding purchase decisions, will allow students to navigate the different steps of a sale. The course also addresses persuasion in the context of raising capital, establishing partnerships and recruiting and motivating employees. The importance of ethics and creativity throughout the entrepreneurial selling process is addressed as well.
Prerequisite: ENTR 27056; and minimum 2.000 overall GPA; and Entrepreneurship major or minor or Arts Entrepreneurship Minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37065 ENTREPRENEURIAL FINANCE 3 Credit Hours
This course exposes students to the core financial concepts relevant to entrepreneurial situations. Emphasis is given to: 1) the entrepreneur's personal finances and how entrepreneurs get paid, 2) sources of start-up business funding and the consequences associated with each of those options, 3) proper business set up, with focus on establishment of appropriate of financial and cash controls, 4) financial statement and profitability analysis, and the creation of projected financial statements, 5) bootstrapping and working capital management, 6) business decision-making based on financial analysis, 7) how to value and sell a business, and 8) proper transitioning for the business and the entrepreneur after the economic success or sale of a business.
Prerequisite: ECON 22060 and ENTR 27056; minimum 2.000 overall GPA; and Entrepreneurship major or minor or Arts Entrepreneurship minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37070 SOCIAL ENTREPRENEURSHIP 3 Credit Hours
Social entrepreneurs create innovative solutions to solve challenging social and environmental issues affecting the world around them. In this course, students will learn how to lead and manage charities, non-government organizations, social oriented enterprises and not for profit organizations. Students will apply entrepreneurial business and innovative skills to effectively tackle global issues impacting society.
Prerequisite: ENTR 27056.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37075 ENTREPRENEURIAL MARKETING 3 Credit Hours
Application of marketing concepts to entrepreneurial situations. Emphasis is given to market segmentation and analysis, product and service positioning and market-oriented firm development.
Prerequisite: ENTR 27056; and minimum 2.000 overall GPA; and Entrepreneurship major or minor; or Arts Entrepreneurship minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37080 NEW VENTURE CREATION (WIC) 3 Credit Hours
During this writing and research-intensive course, students will create a feasibility analysis and business plan that will improve the likelihood of new venture success. Topics addressed include: how to define an offering, SWOT & competitive analysis, industry analysis, marketing strategy, operational planning (personnel, inventory, supply chain and location), sales forecasting, financial planning (e.g., proformas, insurance and taxes), strategies for effective partnering with vendors and the identification of key managerial and human resource challenges that a new venture will face. Students will create an action plan for the first 120 days of a business that can be executed in the Entrepreneurial Experience I and II capstone courses.
Prerequisite: ENTR 27056; and ENTR 37040 with a minimum C grade; and ENTR 37065 or FIN 36053; minimum minimum 2.000 overall GPA; and Entrepreneurship major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ENTR 37195 SPECIAL TOPICS IN ENTREPRENEURSHIP I 1-4 Credit Hours
(Repeatable for credit) Special topics course offered on an irregular basis. Topics differ and faculty are involved each time the course is offered. Specific topics may need to request special approval to register the course. Special approval may include items such as: minimum GPA, course prerequisites and instructor approval. The course schedule will contain the enrollment requirements for a specific special topics course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ENTR 45096 INDIVIDUAL INVESTIGATION IN ENTREPRENEURSHIP 1-3 Credit Hours
(Repeatable for credit) Independent investigation of appropriate problem undertaken by a senior entrepreneurship major.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ENTR 47047 STRATEGIC DILEMMAS IN ENTREPRENEURSHIP 3 Credit Hours
Every entrepreneurial challenge requires making a choice. Most of these choices have strategic consequences for the entrepreneur, their ventures, as well as for co-founders, employees, investors and potential acquirers. Students work in groups to tackle a challenge of their interest. They participate in the cycle of inspiration, ideation and experimentation and learn about common entrepreneurial dilemmas around when to start, with whom, what and how. The topics covered include timing of entrepreneurial entry, type of entry, family business dilemmas, division of roles in a new venture, equity split, hiring dilemmas, investor dilemmas and exit choices.
Prerequisite: ENTR 27056 with a minimum C grade; minimum 2.000 overall GPA; and Entrepreneurship major or minor; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 47048 ENTREPRENEURIAL EXPERIENCE I (ELR) 3 Credit Hours
First of a two-course sequence designed to immerse entrepreneurship majors into the dynamics of starting and running a business through the creation of their own venture. Students in this course will utilize a plan they developed in New Venture Creation, ENTR 37080, or create a new business plan. Activities may include identifying market needs, researching financial viability of the business venture to meet that need, marshaling the resources to launch a business and launching the business.
Prerequisite: Minimum C grade in ENTR 37080 and minimum 2.000 overall GPA; and Entrepreneurship major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENTR 47049 ENTREPRENEURIAL EXPERIENCE II 3 Credit Hours
Second of a two-course sequence designed to immerse entrepreneurship majors into the dynamics of starting and running a business through the creation of their own venture. Activities include growing the business started during Entrepreneurial Experience I, meeting all operational requirements of the business, evaluating the business, and determining whether to continue the business or shut it down upon completion of the course.
Prerequisite: ENTR 47048; and minimum 2.000 overall GPA; and Entrepreneurship major and minor.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

ENTR 47091 SEMINAR IN ENTREPRENEURSHIP 3 Credit Hours
(Repeatable for credit) Current topics in entrepreneurship. Entrepreneurship majors will not receive credit for this course. Not open to Entrepreneurship majors.
Prerequisite: ENTR 27056; and student in the College of Business Administration; and junior or senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENTR 47189 INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP (DIVG) (ELR) 3 Credit Hours
The student will gain firsthand exposure to international businesses and organizations generally relating to business, and specifically relating to entrepreneurship. The course includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: ENTR 27056; and Entrepreneurship major or minor; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ENTR 47195 SPECIAL TOPICS IN ENTREPRENEURSHIP II 1-4 Credit Hours
(Repeatable for credit)Special topics course offered on an irregular basis; different topics and faculty involved each time the course is offered. Specific topics may need to request special approval to register for the course. Special approval may include items such as: minimum GPA, course prerequisites and instructor approval. The course schedule will contain the enrollment requirements for a specific special topics course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ENTR 47289 INTERNATIONAL ENTREPRENEURSHIP: THE ITALIAN PERSPECTIVE (DIVG) (ELR) 3 Credit Hours
Course explores the "Creative Entrepreneurial Business Model," particularly relevant in Italy and Mediterranean cultures, in comparison to international models. Students have the unique opportunity to analyze various entrepreneurial business models through conceptual frameworks, cases, guest speakers and site visits, contrasting them with prevalent U.S. models. The class emphasizes active learning, combining lectures, discussions, exercises, case analyses, site visits and presentations to provide a comprehensive understanding of entrepreneurial concepts in the context of international business excellence. This course is only offered in the Florence program.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ENTR 47292 ENTREPRENEURIAL INTERNSHIP (ELR) 3 Credit Hours
Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.
Prerequisite: Minimum 2.000 overall GPA; and Entrepreneurship major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Environmental Health Sciences (EHS)

EHS 50060 PUBLIC HEALTH LABORATORY METHODS 3 Credit Hours
(Slashed with PH 40060) Course introduces the student to the fundamental theory and hands on use to track specimen collection and laboratory analysis. Environmental specimens are examined for their public health importance using classical and modern techniques. Students learn classical laboratory methods and their modern use in the laboratory environment. Examples include culture and microscopic identification of microorganisms, identification of disease vectors, detection of newborn disease and detection of terrorism agents.
Prerequisite: BSCI 30140 or CHEM 10062 or CHEM 10971 or PH 30006; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 1 lab
Grade Mode: Standard Letter

EHS 50102 SOLID AND HAZARDOUS WASTE MANAGEMENT 3 Credit Hours
(Slashed with PH 40102) Solid and hazardous waste programs and practices are explored. Pollution prevention, safety, sanitation practices, sustainability concepts, management and regulations pertinent to solid and hazardous waste such as RCRA are discussed and studied. Consumption, garbage handling, landfill design and disposal, sustainability concepts, reuse, recycling, composting and other waste strategies are presented. Hazardous waste and material issues throughout the environment, such as HW disposal, TSD facilities, underground storage tanks, Superfund, brownfields and related issues are introduced.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 50103 FOOD PROTECTION 3 Credit Hours
(Slashed with PH 40103) Topics surrounding foodborne disease prevention and food sanitation relative to quality control, food service and processing systems are introduced. Foodborne disease agents, microbiology, epidemiology and outbreak investigation techniques are explored. The regulatory process and agencies at the wholesale, retail and food service levels are introduced. Ohio food regulations are covered, including the Ohio Uniform Food Code. Basic preparation to conduct food serve inspections and foodborne disease investigations as part of agency regulatory programs and the opportunity to earn the National Restaurant Association ServSafe Manager certification are provided.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 50105 WATER AND WASTEWATER MANAGEMENT 3 Credit Hours
(Slashed with PH 40105) Explores issues surrounding water pollution and human health and the environmental treatment systems developed to provide safe water and sewage disposal. Private and public water and sewage systems are studied. Federal and state regulations, including the Safe Drinking Water Act and Clean Water Act, are reviewed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 50109 LABORATORY SAFETY AND HYGIENE 3 Credit Hours
(Cross-listed with PH 40109) Basic introduction to laboratory safety, chemical hygiene, and biosafety. Includes the research compliance programs of institutions (IBC, IACUC, IRB, RSC) and the OSHA Chemical Hygiene Standard requirements and program responsibilities. General lab safety concepts are reviewed, along with chemical handling and storage, fumehoods and ventilation, hazardous waste disposal, radiation safety, and lab design. Basic principles of biosafety are covered, BSL 1-4 levels, biosafety cabinets, select agents, bloodborne pathogens, NIH Guidelines, biosecurity and animal use.
Prerequisite: Graduate standing.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

EHS 50196 INDIVIDUAL INVESTIGATION IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours
(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to environmental health sciences.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

EHS 52100 CLIMATE CHANGE AND POPULATION HEALTH 3 Credit Hours
(Slashed with PH 42100) This course reviews evidence on the rigorous scientific consensus confirming global warming and the mechanisms underlying climate change, with a focus on adverse population health impacts. Increases in the frequency and intensity of extreme weather events including heatwaves, tropical cyclones and severe storms create hazardous conditions including flooding, drought, wildfires, increases in vector-borne diseases, food and nutrition shortages, human displacement and mental health issues. Populations at increased risk are identified along with a consideration of climate ethics, justice and public health approaches used to address the population health effects. Strategies for abatement through injury and disease prevention, climate risk communication and strategies for mitigation including green energy and energy conservation are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 53009 EMERGING ENVIRONMENTAL HEALTH ISSUES AND RESPONSE 3 Credit Hours
Provides an overview of emerging environmental health issues that will impact the public's health.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 53012 OCCUPATIONAL SAFETY AND HEALTH 3 Credit Hours
Survey of major concepts and issues relating health and safety in the workplace. Emphasis is on the application of public health principles and decision-making practices used by various worker populations for the prevention of injury and disease on the job. This course will cover protective equipment, hazardous conditions, environmental toxins, risk assessment, prevention science approaches and workplace health promotion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 53014 BUILT ENVIRONMENT AND PUBLIC HEALTH 3 Credit Hours
(Slashed with PH 43013) The impact of the built environment on human health is an issue of global importance. The focus of this course is on preventing disease and injury while improving the health of populations by looking “upstream” at the built environment or those settings designed, created and maintained by human efforts. Population health effects of community design are explored through scientific literature, and include transportation, land use, parks and green space in the context of physical activity, food environments, air and water quality, injury prevention, social capital and health equity. Students examine and use population health tools to assess the built environment and develop strategies for creating sustainable healthy places through multidisciplinary collaboration, research and policy that promotes the health of the public.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 60191 VARIABLE CONTENT SEMINAR IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Seminar on current and important topics in environmental health sciences. Subject matter varies depending on the topic.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

EHS 60192 PRACTICUM EXPERIENCE IN ENVIRONMENTAL HEALTH SCIENCES 3,6 Credit Hours
Observational and participation in public health activities of a public health agency, hospital or other approved organization. Students complete the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: Graduate standing and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EHS 60195 SPECIAL TOPICS IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in environmental health sciences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EHS 60292 APPLIED PRACTICE EXPERIENCE IN ENVIRONMENTAL HEALTH SCIENCES II 1 Credit Hour
(Repeatable for credit) Continuing enrollment for students participating in public health activities of a public health agency, hospital or other approved organization. Students complete the field experience with joint supervision from the university and an approved organization or agency.
Prerequisite: EHS 60192; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory

EHS 62018 ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH 3 Credit Hours
(Slashed with EHS 72018) Provides a comprehensive overview of core topics in environmental health as related to public health.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 63010 APPLIED RISK ASSESSMENT 3 Credit Hours
Introduces the student to environmental and occupational hazards, assessing the risks associated with hazard exposure. Standard principles of risk assessment are emphasized including methods of hazard identification and regulation, quantitative exposure measurement, dose and toxicity relationships and risk management. Analysis of public policy regulatory guidance and health advisory watchdog recommendations are evaluated.
Prerequisite: EPI 62017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 63011 APPLICATION OF RISK ANALYSIS IN ENVIRONMENTAL HEALTH 3 Credit Hours
Students are introduced to methods in risk analysis that are applied by U.S. federal, state, and local agencies in their assessment of chemical toxicants. Linkages between risk assessment, risk management, and risk communication will be studied as components of this process, along with issues and controversies in the analysis of environmental health risks.
Prerequisite: EPI 62017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 72018 ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH 3 Credit Hours
(Slashed with EHS 62018) Provides a comprehensive overview of core topics in environmental health as related to public health.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Environmental Studies (ENVS)

ENVS 22070 NATURE AND SOCIETY (KSS) 3 Credit Hours
Environmental studies takes an interdisciplinary approach to studying the environment, with insights from natural sciences, social sciences and the humanities. This course introduces the discipline and explores theoretical approaches to understanding how humans interact with and perceive their environment. It applies these approaches to some of the world's greatest environmental challenges: climate change, the loss of biodiversity, urban sustainability, food and resource insecurity, and the degradation of the physical environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Social Sciences, TAG Social and Behavioral Sciences

ENVS 30000 ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT 3 Credit Hours
(Cross-listed with PLST 30000) The Federal and State environmental regulations including the National Environmental Policy Act, the Clean Air Act, the Clean Water Act, Solid and Hazardous Waste regulations (RCRA) and the Superfund Legislation require the utilization of trained environmental professionals to conduct Environmental Site Assessments (ESAs). The focus of this course is to introduce students to the methods and approaches for conducting environmental research and study of industrial sites with respect to environmental policies and regulations. The enforcement of regulations utilize environmental professionals who serve in governmental agencies, work in private environmental companies that provide assessments and consultations for industries, and who are employed by industries that seek qualified employees to conduct assessments, and provide professional guidance for industrial regulatory compliance.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENVS 30105 CAREER PATHWAYS IN ENVIRONMENTAL STUDIES 1 Credit Hour
Orients students toward various career pathways in environmental studies.
Prerequisite: ENVS 22070; and Environmental Studies major; and junior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

ENVS 32091 ENVIRONMENTAL STUDIES AND SUSTAINABILITY 2 Credit Hours
Various aspects of environmental studies are explored. Topics vary.
Prerequisite: ENVS 22070; and Environmental Studies major; and junior standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

ENVS 42099 INTEGRATIVE SENIOR PROJECT (ELR) (WIC) 3 Credit Hours
This is the capstone course for the Environmental Studies major. All students in this course learn about methods of investigation and presentation in the area of environmental studies. The course culminates in a major research project developed and written by each student.
Prerequisite: ENVS 22070 and ENVS 32091; and Environmental Studies major.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENVS 46092 INTERNSHIP IN ENVIRONMENTAL STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) (Slashed with ENVS 56092) Work experience in local, regional and national agencies or companies designed to utilize and develop academic and professional skills.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENVS 49195 SPECIAL TOPICS IN ENVIRONMENTAL STUDIES 1-3 Credit Hours
(Slashed with ENVS 49195) Special topics in Environmental Studies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3-9 lecture
Grade Mode: Standard Letter

ENVS 56092 INTERNSHIP IN ENVIRONMENTAL STUDIES 3-6 Credit Hours
(Slashed with ENVS 46092)(Repeatable for credit) Work experience in local, regional and national agencies or companies designed to utilize and develop academic and professional skills.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Standard Letter

ENVS 59195 SPECIAL TOPICS IN ENVIRONMENTAL STUDIES 1-3 Credit Hours
(Slashed with ENVS 49195) Special topics in Environmental Studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3-9 lecture
Grade Mode: Standard Letter

Epidemiology (EPI)

EPI 50013 CLINICAL EPIDEMIOLOGY BASICS 3 Credit Hours
(Slashed with PH 40013) Course develops an understanding of clinical research, good clinical practices, research environments and methods used in clinical research. Students gain an understanding of the use of clinical investigation, from the product development stage to the application of investigations in contract research organization. Ethical implications and regulatory issues are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 50014 CLINICAL TRIALS MANAGEMENT 3 Credit Hours
(Slashed with PH 40014) Course examines the good clinical practices guidelines. Students learn how to conduct and manage clinical trials; understand clinical trials data; develop instruments and protocols; recognize quality control and data issues; know approaches to recruitment, retention and participant assessment; identify adverse events and measurement of response variables; and acquire skill in study close-out procedures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 50015 SCIENTIFIC WRITING FOR CLINICAL RESEARCH 3 Credit Hours
(Cross-listed with PH 40015) Course provides students the tools to develop proficiency in scientific reading, to conduct presentations and to demonstrate skill in scientific writing, with the goal of preparing clinical researchers to be able to communicate findings to the science community and the general population. Course includes an examination of the science literature in clinical trials research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 50017 PHARMACOEPIDEMIOLOGY 3 Credit Hours
(Cross-listed with PH 40017) Introduction to the field of pharmacoepidemiology, which uses epidemiology methods to understand medication use and distribution at the population level. Course examines risk-benefit and epidemiology approaches to examining medication use and therapeutic trials. Drug and device manufacturing to market are explored.
Prerequisite: BST 62019 and EPI 62017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 50018 REGULATORY AFFAIRS IN CLINICAL RESEARCH 3 Credit Hours
(Slashed with PH 40018) Course provides the tools for students to develop an understanding of the researcher and organization responsibility in research and development of clinical trials products. Students understand regulations from the government and industry, privacy concerns, liability and ethical issues related to clinical trials research. Examples from the field are explored in detail.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 50196 INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to epidemiology.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

EPI 52010 UNDERSTANDING THE COVID-19 PANDEMIC 3 Credit Hours
(Slashed with PH 42010) In this course, students examine the various aspects of the ongoing coronavirus pandemic. They learn foundational information in epidemiology, virology and immunology, and examine the emergence and spread of SARS-CoV-2. They learn about responses to the epidemic, including policies aimed at slowing spread, and examine aspects of diagnostics and vaccine development relevant to controlling the spread of the virus.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 53089 PLAGUES THAT SHAPED THE WORLD 3 Credit Hours
(Slashed with EPI 73089) (Cross-listed with PH 43089) Course examines the Bubonic plague, HIV/AIDS, Ebola and pandemic influenza outbreaks to introduce students to the fundamentals of public health, establishing epidemiological principles that explain how plagues erupt and propagate, decimate populations and alter cultures. Inherent in the course's discussion are the social determinants that fuel plague outbreaks and slow recovery. Examples of emerging infectious diseases and threats of bioterrorism are discussed as new plagues for which creative solutions are still required. Students take city excursions and a field trip to assess cultural changes resulting from historical plagues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 60191 VARIABLE CONTENT SEMINAR IN EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with EPI 80191) Seminar on current and important topics in epidemiology. Subject matter varies depending on the topic.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EPI 60192 APPLIED PRACTICE EXPERIENCE IN EPIDEMIOLOGY 3,6 Credit Hours
(Repeatable for credit) Observational and participation in public health activities of a public health agency, hospital or other approved organization. Students complete a field experience with joint supervision from the university and approved organization or agency.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 60195 SPECIAL TOPICS IN EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for a maximum 6 credit hours) (Slashed with EPI 80195) Special topics to sample new offerings on topics in epidemiology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EPI 60292 APPLIED PRACTICE EXPERIENCE IN EPIDEMIOLOGY II 1 Credit Hour
(Repeatable for credit) Continuing enrollment for students participating in public health activities of a public health agency, hospital or other approved organization. Students complete the field experience with joint supervision from the university and an approved organization or agency.
Prerequisite: EPI 60192; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 62017 FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY 3 Credit Hours
(Slashed with EPI 72017) Introduces principles, methods and application of epidemiology. Covers the history of epidemiology, concepts of disease causation and prevention, measures of disease frequency and excessive risk, epidemiologic study designs, causal inference, outbreak investigation and screening. Provides experience with calculation of rate standardization; measures of disease frequency, association and impact; and sensitivity and specificity of screening tests. Highlights applications of epidemiology to understanding of disease etiology, transmission, pathogenesis and prevention; evaluation and public policy development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 62028 METHODS OF EVIDENCE BASED PUBLIC HEALTH 3 Credit Hours
(Slashed with EPI 72028) Explores tools and techniques used to quantitatively determine the effectiveness of public health interventions in the social sciences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63014 EPIDEMIOLOGY OF CHRONIC DISEASES 3 Credit Hours
(Slashed with EPI 83014) With a life course approach to chronic disease epidemiology, this course focuses on cardiovascular, respiratory and cerebrovascular diseases and cancer. Health and disease are addressed from a multicausal perspective, which includes individual behaviors; psychosocial issues; and sociodemographic, biological and physiological factors. Time points for prevention and intervention are identified.
Prerequisite: EPI 62017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63015 EPIDEMIOLOGY OF INFECTIOUS DISEASES 3 Credit Hours
(Slashed with EPI 83015) Surveys the history, principles, methods and practice of infectious disease epidemiology by (1) defining and understanding infectious disease epidemiology surveys, (2) collecting and measuring surveillance data, (3) interpreting epidemiology data and (4) predicting evidence-based outcomes. Primarily a course in epidemiology, students learn some infectious disease microbiology as well.
Prerequisite: EPI 62017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63016 PRINCIPLES OF EPIDEMIOLOGIC RESEARCH 3 Credit Hours
(Slashed with EPI 83016) Course builds upon EPI 62017 to explore deeper the concepts and methods in epidemiologic research. Reviews the measures of disease frequency; association and impact; epidemiologic reasoning and causal inference; and methods and techniques for designing, implementing, analyzing and interpreting various epidemiologic study designs. Discusses advantages and limitations of various study designs. Explores threats to validity, precision and generalizability of epidemiologic studies.
Prerequisite: BST 62019 and EPI 62017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63019 EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours
(Slashed with EPI 83019) Principles of experimental designs as they apply to clinical research and clinical trials are presented at an intermediate level. Students understand randomized control trial designs and alternative designs. Study methodology, including randomization and blinding techniques, is covered. Topics include evidence-based medicine; risk prediction and risk scores; instruments and measurement; data issues; and recruitment, retention and adherence.
Prerequisite: EPI 63016; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63020 ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS 3 Credit Hours
(Slashed with EPI 83020) This advanced course focuses on why particular methods, study designs or approaches are used in particular investigative scenarios in clinical research. Students develop an advanced understanding and application of epidemiology methods in clinical research.
Prerequisite: EPI 63019; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63021 ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH 3 Credit Hours
(Slashed with EPI 83021) Introduces students to historical and contemporary ethical issues that arise during public health and clinical or biomedical research studies. Broadly covers human subjects research, the responsible conduct of research and the good clinical practice guidelines.
Prerequisite: EPI 62017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63034 LONGITUDINAL DATA ANALYSIS 3 Credit Hours
(Slashed with EPI 73034) Statistical techniques for analyzing longitudinal, or repeated measures, data. Focuses primarily on application of the various statistical models covered, with direct application illustrated using standard statistical software. Topics covered include univariate and multivariate analysis of variance for repeated measures, mixed-effects models (HLM or multilevel models), covariance pattern models, generalized estimating equations (GEE), mixed-effects logistic regression models and missing data in longitudinal studies.
Prerequisite: BST 62019 and BST 63014; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63192 RESEARCH PRACTICUM IN CLINICAL EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for credit) Research practicum allows students to gain hands-on experience conducting research in a clinical setting, such as a hospital or other approved organization. Students complete the experience under the supervision of a field preceptor and faculty member.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 63199 THESIS I 2-6 Credit Hours
Student must register for a total of 6 credit hours in the program. Student may register for 2 to 6 hours in a single semester
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 63299 THESIS II 2 Credit Hours
Thesis students must continue registration in Thesis II each semester until all degree requirements are met.
Prerequisite: EPI 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 72017 FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY 3 Credit Hours
(Slashed with EPI 62017) Introduces principles, methods and application of epidemiology. Covers the history of epidemiology, concepts of disease causation and prevention, measures of disease frequency and excessive risk, epidemiologic study designs, causal inference, outbreak investigation and screening. Provides experience with calculation of rate standardization; measures of disease frequency, association and impact; and sensitivity and specificity of screening tests. Highlights applications of epidemiology to understanding of disease etiology, transmission, pathogenesis and prevention; evaluation and public policy development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 72028 METHODS OF EVIDENCE BASED PUBLIC HEALTH 3 Credit Hours
(Slashed with EPI 62028) Explores tools and techniques used to quantitatively determine the effectiveness of public health interventions in the social sciences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73025 EMERGING ISSUES IN INFECTIOUS DISEASE EPIDEMIOLOGY 3 Credit Hours
Investigates global emerging and reemerging infectious diseases. Students evaluate root causes of infectious disease emergence and predict outcomes. Data from primary literature is used to predict alternate outcomes. Specific disease models are used to evaluate and compare prevention, treatment and eradication strategies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73026 DESIGN AND IMPLEMENTATION OF HEALTH SURVEYS 3 Credit Hours
Covers survey design, variable construction, survey administration and data collection methods, variable coding and manipulation and data analysis. Students understand sampling methods and sample size. Large health surveys are discussed. Students gain practical experience through design and implementation of a health survey, which can be used to facilitate dissertation research or a publication.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73027 BIOLOGICAL BASIS OF PUBLIC HEALTH 3 Credit Hours
Integrates the sciences of biology and molecular biology into the principles and practice of public health. Implicit in this course are learning objectives that establish the ecology of infectious disease, the impact of vaccines in disease prevention and the role of environmental toxins on human health and disease. Additionally, students propose policies, regulations and legislation designed to protect human health within the realm of personalized medicine.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73034 LONGITUDINAL DATA ANALYSIS 3 Credit Hours
(Slashed with EPI 63034) Statistical techniques for analyzing longitudinal, or repeated measures, data. Focuses primarily on application of the various statistical models covered, with direct application illustrated using standard statistical software. Topics covered include univariate and multivariate analysis of variance for repeated measures, mixed-effects models (HLM or multilevel models), covariance pattern models, generalized estimating equations (GEE), mixed-effects logistic regression models and missing data in longitudinal studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73089 PLAGUES THAT SHAPED THE WORLD 3 Credit Hours
(Slashed with EPI 53089)(Cross-listed with PH 43089) Course examines the Bubonic plague, HIV/AIDS, Ebola and pandemic influenza outbreaks to introduce students to the fundamentals of public health, establishing epidemiological principles that explain how plagues erupt and propagate, decimate populations and alter cultures. Inherent in the course's discussion are the social determinants that fuel plague outbreaks and slow recovery. Examples of emerging infectious diseases and threats of bioterrorism are discussed as new plagues for which creative solutions are still required. Students take city excursions and a field trip to assess cultural changes resulting from historical plagues.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

EPI 80191 VARIABLE CONTENT SEMINAR IN EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EPI 60191) Seminar on current and important topics in epidemiology. Subject matter varies depending on the topic.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EPI 80195 SPECIAL TOPICS IN EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EPI 60195) Special topics to sample new offerings on topics in epidemiology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EPI 80196 INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY 1-3 Credit Hours
Individual graduate investigation or research in areas related to epidemiology.
Prerequisite: Doctoral Standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

EPI 80198 DIRECTED RESEARCH IN EPIDEMIOLOGY 1-15 Credit Hours
(Repeatable for credit) Directed research or individual investigation in an area of interest and with the guidance of a Kent State faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation, Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Registration for two semesters is required. First semester dissertation work begins and continues until completion of EPI 80299 and 30 hours of total dissertation work.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Second course of dissertation sequence completing requirement of with 30 total hours of dissertation work.
Prerequisite: EPI 80199; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 83014 EPIDEMIOLOGY OF CHRONIC DISEASES 3 Credit Hours
(Slashed with EPI 63014) With a life course approach to chronic disease epidemiology, this course focuses on cardiovascular, respiratory and cerebrovascular diseases and cancer. Health and disease are addressed from a multicausal perspective, which includes individual behaviors; psychosocial issues; and sociodemographic, biological and physiological factors. Time points for prevention and intervention are identified.
Prerequisite: EPI 72017; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83015 EPIDEMIOLOGY OF INFECTIOUS DISEASES 3 Credit Hours
(Slashed with EPI 63015) Surveys the history, principles, methods and practice of infectious disease epidemiology by (1) defining and understanding infectious disease epidemiology surveys, (2) collecting and measuring surveillance data, (3) interpreting epidemiology data and (4) predicting evidence-based outcomes. Primarily a course in epidemiology, students learn some infectious disease microbiology as well.
Prerequisite: EPI 72017; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83016 PRINCIPLES OF EPIDEMIOLOGIC RESEARCH 3 Credit Hours
(Slashed with EPI 63016) Course builds upon EPI 62017 to explore deeper the concepts and methods in epidemiologic research. Reviews the measures of disease frequency; association and impact; epidemiologic reasoning and causal inference; and methods and techniques for designing, implementing, analyzing and interpreting various epidemiologic study designs. Discusses advantages and limitations of various study designs. Explores threats to validity, precision and generalizability of epidemiologic studies.
Prerequisite: BST 62019 and EPI 72017; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83017 EPIDEMIOLOGICAL ANALYSIS 3 Credit Hours
Provides practical instruction in the analysis and interpretation of data from various epidemiologic study designs, including cross-sectional, case-control and cohort studies. Reviews statistical concepts and epidemiologic studies designs; outlines a strategy for data analysis; and reviews relevant methodologic issues and applies stratified analysis methods and multivariable regression models to the studies. Develops an understanding of the underlying principles and assumptions, practical application and correct interpretation of the epidemiologic results. Provides hands-on experience on the application of epidemiologic analysis methods and presentation of the results.
Prerequisite: BST 83014 and EPI 63016; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83018 OBSERVATIONAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours
Course provides students the skills to design, conduct and perform clinical epidemiology studies using an observational design. Students understand major concepts of clinical research, develop clinical research questions, and solve clinical research problems. Topics include study design, risk, causation, exposures, bias, measurement and validity and disease prognosis.
Prerequisite: BST 62019 and EPI 72017; and doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83019 EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours
(Slashed with EPI 63019) Principles of experimental designs as they apply to clinical research and clinical trials are presented at an intermediate level. Students understand randomized control trial designs and alternative designs. Study methodology, including randomization and blinding techniques, is covered. Topics include evidence-based medicine; risk prediction and risk scores; instruments and measurement; data issues; and recruitment, retention and adherence.
Prerequisite: BST 62019 and EPI 72017; and doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83020 ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS 3 Credit Hours
(Slashed with EPI 63020) This advanced course focuses on why particular methods, study designs or approaches are used in particular investigative scenarios in clinical research. Students develop an advanced understanding and application of epidemiology methods in clinical research.
Prerequisite: EPI 83018 and EPI 83019; and doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83021 ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH 3 Credit Hours
(Slashed with EPI 63021) Introduces students to historical and contemporary ethical issues that arise during public health and clinical or biomedical research studies. Broadly covers human subjects research, the responsible conduct of research and the good clinical practice guidelines.
Prerequisite: EPI 72017; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

Exercise Physiology (EXPH)

EXPH 50612 EXERCISE LEADERSHIP FOR THE OLDER ADULT 3 Credit Hours
(Cross-listed with EXSC 40612) Designed to provide the students with a knowledge base in exercise leadership in the senior population and includes special populations. Students participate in the leading supervision and evaluation of the participant within the exercise program. They also assist in the collection of functional fitness data.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 53093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE AND EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with EXSC 43093) Workshop in exercise science or physiology, topics vary.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

EXPH 55040 ADVANCED STRENGTH AND CONDITIONING 3 Credit Hours
(Slashed with EXSC 45040) Advanced principles in strength and conditioning. Learn and understand the energy systems, anatomy, physiology and proper lifting technique of strength, speed, agility and conditioning exercises for practical application with athletes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 55065 EXERCISE TESTING 3 Credit Hours
(Cross-listed with EXSC 45065) Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 55070 ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST 3 Credit Hours
(Cross-listed with EXSC 45070) Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 55081 ADVANCED PHYSIOLOGY OF EXERCISE 3 Credit Hours
(Slashed with EXSC 45081) This course is designed to provide an augmented understanding of acute and chronic responses to exercise. Focus is placed on understanding the physiological responses at both the systems and the cellular levels. Emphasis is placed on muscle bioenergetics, environmental physiology, ergogenic aids, sex differences, extreme sports, children and adolescents in sport and exercise and a greater understanding of muscle and cardiorespiratory responses to exercise.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 60610 PHYSIOLOGY OF AGING: IMPLICATIONS FOR HUMAN BEHAVIOR 3 Credit Hours
(Cross-listed with EXPH 70610) Examine physiological changes which accompany advancing age. Special attention is paid to the effect of these changes on sensory motor and cognitive behavior.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 63050 RESEARCH PROCESS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours
(Slashed with EXPH 73050) The research process and statistical concepts applied to those in athletic training and exercise physiology.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 63051 QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours
(Slashed with EXPH 73051) Research design and statistical methods applied to exercise, physiology and athletic training.
Prerequisite: EXPH 63050; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 63091 RESEARCH SEMINAR 1 Credit Hour
(Repeatable for credit) (Slashed with EXPH 73091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

EXPH 63096 INDIVIDUAL INVESTIGATION IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 73096) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

EXPH 63098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

EXPH 63193 VARIABLE TITLE WORKSHOP IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for credit) Workshop in exercise physiology; topics vary. Maximum 4 hours applied to the degree.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

EXPH 63195 SPECIAL TOPICS IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with EXPH 73195) Selected and varied topics of relevance in exercise physiology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EXPH 63199 THESIS I 2-6 Credit Hours
(Repeatable for credit)Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 63299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: EXPH 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 65075 MUSCLE FUNCTION AND EXERCISE 3 Credit Hours
(Slashed with EXPH 75075) Characteristics of skeletal muscle related to contraction during exercise, strength, elasticity, fatigue, and training. Electromyograph analysis of muscle function emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 65076 ENVIRONMENTAL STRESS AND EXERCISE 3 Credit Hours
(Slashed with EXPH 75076) Effects of heat, cold, pressure, pollution and psychological stress upon physiological responses to exercise. Lecture and laboratory.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65080 PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT 3 Credit Hours
(Slashed with EXPH 75080) Application of physiological concepts to human performance. Includes role of testing, training strength and endurance, nutritional considerations, environmental influences and, adapted exercise programs.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65081 ENERGY METABOLISM AND BODY COMPOSITION 3 Credit Hours
(Slashed with EXPH 75081) Measurement of metabolic response to exercise. Topics include ergometry spirometry energy expenditure body composition and performance correlates of strength power and endurance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 65082 CARDIO-RESPIRATORY FUNCTION 3 Credit Hours
(Slashed with EXPH 75082) Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 65083 EXERCISE ENERGY METABOLISM 3 Credit Hours
(Slashed with EXPH 75083) Energy transformations during exercise. Emphasis on controlling mechanisms that regulate the anabolic and catabolic responses to both acute and chronic exercise.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65084 CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE 3 Credit Hours
(Slashed with EXPH 75084) Responses of the cardiovascular and respiratory systems to exercise. Use of noninvasive methods to measure cardio-respiratory function emphasized. Lecture and laboratory.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65086 NEUROBIOLOGY OF MOVEMENT AND EXERCISE 3 Credit Hours
(Slashed with EXPH 75086) Provide students with knowledge to understand the role of the muscular and nervous systems in human movement and exercise. Motor disorders and rehabilitation techniques will also be discussed. Lecture and laboratory.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65192 INTERNSHIP IN EXERCISE PHYSIOLOGY 1-9 Credit Hours
(Repeatable for a maximum of 9 credit hours) Field experience in exercise physiology programs and testing in Kent State University adult fitness program or cooperating agencies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 70610 PHYSIOLOGY OF AGING:IMPLICATIONS FOR HUMAN BEHAVIOR 3 Credit Hours
(Slashed with EXPH 60610) Examine physiological changes which accompany advancing age. Special attention is paid to the effect of these changes on sensory motor and cognitive behavior.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 73050 RESEARCH PROCESSES IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours
(Slashed with EXPH 63050) The research process and statistical concepts applied to athletic training and exercise physiology.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 73051 QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours
(Slashed with EXPH 63051) Research design and statistical methods applied to exercise physiology and athletic training.
Prerequisite: EXPH 73050; and doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 73091 RESEARCH SEMINAR 1 Credit Hour
(Repeatable for credit) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

EXPH 73096 INDIVIDUAL INVESTIGATION IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 63096) Independent student completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

EXPH 73195 SPECIAL TOPICS IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 63195) Selected and varied topics of relevance in exercise physiology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EXPH 75004 BIOMECHANICS 3 Credit Hours
(Cross-listed with ATTR 65004) Survey of biomechanics, with particular emphasis on skeletal muscle mechanics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 75075 MUSCLE FUNCTION AND EXERCISE 3 Credit Hours
(Slashed with EXPH 65075) Characteristics of skeletal muscle related to contraction during exercise, strength, elasticity, fatigue and training. Electromyograph analysis of muscle function emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 75076 ENVIRONMENTAL STRESS AND EXERCISE 3 Credit Hours
(Slashed with EXPH 65076) Effects of heat, cold, pressure, pollution and psychological stress upon physiological responses to exercise. Lecture and laboratory.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75080 PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT 3 Credit Hours
(Slashed with EXPH 65080) Application of physiological concepts to human performance. Includes role of testing, training, strength and endurance, nutritional considerations, environmental influences, and adapted exercise programs.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75081 ENERGY METABOLISM AND BODY COMPOSITION 3 Credit Hours
(Slashed with EXPH 65081) Measurement of metabolic response to exercise. Topics include ergometry, spirometry, energy expenditure, body composition and performance correlates of strength, power and endurance.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 75082 CARDIO-RESPIRATORY FUNCTION 3 Credit Hours
(Cross-listed with EXPH 65082) Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 75083 EXERCISE ENERGY METABOLISM 3 Credit Hours
(Slashed with EXPH 65083) Energy transformations during exercise. Emphasis on controlling mechanisms that regulate the anabolic and catabolic responses to both acute and chronic exercise.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75084 CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE 3 Credit Hours
(Slashed with EXPH 65084) Responses of the cardiovascular and respiratory systems to exercise. Use of noninvasive methods to measure cardio-respiratory function emphasized. Lecture and laboratory.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75086 NEUROBIOLOGY OF EXERCISE AND MOVEMENT 3 Credit Hours
(Slashed with EXPH 65086) Provides students with knowledge to understand the role of the muscular and nervous systems in human movement and exercise. Motor disorders and rehabilitation techniques will also be discussed. Lecture and laboratory.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75192 INTERNSHIP IN EXERCISE PHYSIOLOGY 1-9 Credit Hours
(Repeatable for a maximum of 9 credit hours) Field experience in exercise physiology programs and testing in Kent State University adult fitness program or cooperating agencies.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 83098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

EXPH 83199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 83299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: EXPH 83199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Exercise Science (EXSC)

EXSC 15003 CAREERS IN HEALTH AND MEDICAL SCIENCES 2 Credit Hours
(Cross-listed with ATTR 15003 and IHS 15003) An overview of the profession of Healthcare and Medical Professional associated including employment opportunities, academic preparation, and clinical preparation. This course will address the qualities and skills required for a comprehensive list of professional opportunities in the healthcare and medical fields with an emphasis on professionalism, cultural competencies, ethics and self care. Students will be required to work with faculty and health care and medical professionals to outline a personalized program to assist in their professional development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EXSC 23093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE 1-3 Credit Hours
(Repeatable for credit) Workshop to develop mastery and application of knowledge and skills that address issues in exercise science; topics vary. Satisfactory/unsatisfactory (S/U) graded.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

EXSC 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours
(Cross-listed with ATTR 25057) Comprehensive examination of anatomy and physiology related to the organization of the body and basic cell and tissue types. Specific structure and function of the muscular, skeletal, integumentary, and nervous systems are addressed.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

EXSC 25058 HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 4 Credit Hours
(Cross-listed with ATTR 25058) Comprehensive examination of anatomy and physiology related to the human body under rest and exercise conditions. Specific structure and function of the metabolic, endocrine, lymphatic, digestive, urinary and reproductive systems are addressed. Advanced coverage of neurological, cardiovascular and respiratory systems are also addressed.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

EXSC 34000 EXERCISE SCIENCE FOR ESPORTS 3 Credit Hours
This course examines topics within the field of exercise science and relates them to esports performance. Topics will include physical activity, sedentary behavior, mental and physical health and exercise physiology. By relating these topics to esports, students will gain an understanding of what may enhance and also diminish esport performance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXSC 35040 PRACTICAL AND APPLIED CONCEPTS OF STRENGTH AND CONDITIONING 3 Credit Hours
(Equivalent to ATTR 35040) This course will discuss the practical and applied concepts related to strength and conditioning. Specifically, the course will focus on how to improve muscle strength, power, speed, agility, endurance, stamina, stability and muscle hypertrophy. Emphasis will be placed on the ability to create and administer safe and effective periodized training programs while ensuring safe and effective techniques fundamental to improvements in athletic performance.
Prerequisite: ATTR 25057 (and ATTR 25058) or BSCI 10020 (and BSCI 11010) or BSCI 21010 or BSCI 21020 or EXSC 25057 (and EXSC 25058).
Corequisite: ATTR 35054 (or EXSC 35054) and ATTR 35080 (or EXSC 35080).
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 35054 BIOMECHANICS 3 Credit Hours
(Cross-listed with ATTR 35054) Anatomical and mechanical bases of human movement. Emphasis is placed on tools and techniques for motion analysis, mechanical concepts, forces and performance analysis. Lecture and laboratory.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 35068 STATISTICS FOR THE EXERCISE SCIENTIST 3 Credit Hours
Measurement and statistics applied to physical education and exercise/sport sciences; laboratory experiences in statistics test construction and administration and evaluation.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 35075 EXERCISE PROGRAMMING 3 Credit Hours
Problems and issues in developing exercise programs in institutional and commercial settings.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 35080 PHYSIOLOGY OF EXERCISE 4 Credit Hours
Response of the human to acute and chronic exercise with emphasis on the underlying physiological mechanisms.
Prerequisite: ATTR 25057 or BSCI 11010 or BSCI 21010 or EXSC 25057; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 40612 EXERCISE LEADERSHIP FOR THE OLDER ADULT 3 Credit Hours
(Cross-listed with EXPH 50612) Designed to provide students with a knowledge base in exercise leadership in the older adult population, including special populations. Students participate in the leading, supervision and evaluation of participants within the exercise program. The also assist in the collection of functional fitness data.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 43093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE AND EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with EXPH 53093) Workshop in exercise science or physiology, topics vary.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 lecture
Grade Mode: Satisfactory/Unsatisfactory

EXSC 43098 RESEARCH IN EXERCISE SCIENCE (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Research project completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EXSC 45022 EXERCISE LEADERSHIP 2 Credit Hours
Designed to provide the students with the knowledge base in exercise leadership. Topic areas and competencies using a variety of techniques in leading and demonstrating safe and effective methods of applying the fundamental principles of exercise science. The exercise leader will demonstrate all forms of group exercise, flexibility and balance training. The final exam is the American College of Sports Medicine Certified Exercise Physiologist certification (ACSM-EP). To take this certification requires that you be in the last semester of your senior year.
Prerequisite: ATTR 25057 or BSCI 11010 or BSCI 21010 or EXSC 25057; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058; and EXSC 35080; and senior standing.
Pre/corequisite: EXSC 45081.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EXSC 45023 PROFESSIONAL CERTIFICATE PREPARATION 2 Credit Hours
This course is designed to prepare students to take the the National Strength and Conditioning Association Certified Strength and Conditioning Specialist (NSCA CSCS). Material covered will include basic exercise science, training adaptations, and methods of resistance-exercise training.
Prerequisite: ATTR 25057 or BSCI 11010 or BSCI 21010 or EXSC 25057; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058; and EXSC 35080; and senior standing.
Pre/corequisite: ATTR 35040 and EXSC 45081.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EXSC 45040 ADVANCED STRENGTH AND CONDITIONING 3 Credit Hours
(Slashed with EXPH 55040) Advanced principles in strength and conditioning. Learn and understand the energy systems, anatomy, physiology and proper lifting technique of strength, speed, agility and conditioning exercises for practical application with athletes.
Prerequisite: ATTR 25057 or BSCI 11010 or BSCI 21010 or EXSC 25057; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058; and ATTR 21020; and EXSC 35040; and EXSC 35080.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXSC 45065 EXERCISE TESTING 3 Credit Hours
(Cross-listed with EXPH 55065) Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Exercise Science

EXSC 45070 ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST 3 Credit Hours
(Cross-listed with EXPH 55070) Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXSC 45081 ADVANCED PHYSIOLOGY OF EXERCISE (WIC) 3 Credit Hours
(Slashed with EXPH 45081) This course is designed to provide an augmented understanding of acute and chronic responses to exercise. Focus is placed on understanding the physiological responses at both the systems and the cellular levels. Emphasis is placed on muscle bioenergetics, environmental physiology, ergogenic aids, sex differences, extreme sports, children and adolescents in sport and exercise and a greater understanding of muscle and cardiorespiratory responses to exercise.
Prerequisite: ATTR 25057 (and ATTR 25058) or BSCI 11010 (and BSCI 11020) or BSCI 21010 or BSCI 21020 or EXSC 25057 (and EXSC 25058); and EXSC 35080.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

EXSC 45096 INDIVIDUAL INVESTIGATION IN EXERCISE SCIENCE (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EXSC 45480 INTERNSHIP SEMINAR IN EXERCISE SCIENCE 1 Credit Hour
Overview of the internship possibilities that are available for the exercise science major. The American College of Sports Medicine (ACSM) certification workshops and the scope of the practice for the exercises specialist is discussed in detail.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

EXSC 45481 SEMINAR IN EXERCISE PHYSIOLOGY 1 Credit Hour
Provides an overview of the research possibilities and the internship possibilities that are available for the exercise science major. The Institutional Review Board, research methodology and the risks and benefits of research in the area of exercise science are discussed in detail. Also covers The American College of Sports Medicine (ACSM) certification workshops and the scope of the practice for the exercises specialist.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

EXSC 45492 INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR) 1-9 Credit Hours
(Repeatable for a maximum of 9 credit hours) Supervised experience providing practical experience in administration and operation of programs in physical fitness, health enhancement and or cardiac rehabilitation. 45 clock hours per credit hour.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EXSC 46095 SPECIAL TOPICS IN EXERCISE SCIENCE 1-3 Credit Hours
(Repeatable for credit) Selected topics in exercise science dependent upon interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

Fashion Design and Merchandising (FDM)

FDM 10010 FASHION FUNDAMENTALS 3 Credit Hours
Introduction to the global fashion industry. Analysis of the business of fashion and how it is conceived, marketed, sold, and consumed. Overview of important resources, companies, career options and personnel who impact the industry.
Prerequisite: Fashion design, fashion merchandising or pre-fashion design and merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 10023 FASHION VISUALS 1 Credit Hour
The study of fashion information, research sources, color theory, two-and three-dimensional design and visual presentation formats as they apply to the fashion industry.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10024.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FDM 10024 FASHION VISUALS LABORATORY 2 Credit Hours
Laboratory applications in the study of fashion information, research sources, color theory, two-and three-dimensional design and visual presentation formats as they apply to the fashion industry.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10023.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 10033 FASHION FABRICS 1 Credit Hour
Study of fabrics, from fiber through finishing processes, with a concentration on differentiating between fibers, fabric construction methods, and other processes involved in production. Emphasis is on understanding fabric properties, including environmental impact, cost, care and how they relate to textile end-usage.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10034.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FDM 10034 FASHION FABRICS LABORATORY 2 Credit Hours
Study of fabrics, from fiber through finishing processes, with a concentration on differentiating between fibers, fabric construction methods, and other processes involved in production. Emphasis is on understanding fabric properties, including environmental impact, cost, care, and how they relate to textile end-usage. Lab-specific content and assignments reinforce Lecture content.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10033.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 10043 SUSTAINABLE FASHION THINKING 1 Credit Hour
An introductory exploration of the current fashion industry and the urgent need to create sustainable change. After a survey of fashion industry functions from concept to consumer, students identify current practices and areas of concern. Course focuses on understanding how and why those practices must change and examining burgeoning ideas, methods, practices and business structures shifting to a sustainable future.
Prerequisite: Fashion Design or Fashion Merchandising majors.
Corequisite: FDM 10044.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FDM 10044 SUSTAINABLE FASHION THINKING LABORATORY 2 Credit Hours
An introductory exploration of the current fashion industry and the urgent need to create sustainable change. After a survey of fashion industry functions from concept to consumer, students identify current practices and areas of concern. Lab focuses on practicing strategies, including critical thinking, human centered design, sustainable product service systems and corporate social responsibility to influence needed change within industry. Fashion design and fashion merchandising students work collaboratively in groups to explore solutions for a sustainable future in the fashion industry.
Prerequisite: Fashion Design or Fashion Merchandising majors.
Corequisite: FDM 10043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 10053 INTRODUCTION TO FASHION TECHNOLOGY 1 Credit Hour
Introduces students to the fundamental concepts, procedures, and techniques used in digital imaging software and information database software. A survey of current and emerging technologies used in fashion design, merchandising and production contexts is presented.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10054.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FDM 10054 INTRODUCTION TO FASHION TECHNOLOGY LABORATORY 2 Credit Hours
Laboratory applications of fundamental concepts, procedures, and techniques used in digital imaging software and information database software. A survey of current and emerging technologies used in fashion design, merchandising, and production contexts is presented and applied.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10053.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 15055 BASICS OF APPAREL CONSTRUCTION 3 Credit Hours
Introduction to patterns, sewing techniques and application processes using industrial sewing machines and other related equipment in basic garment construction.
Prerequisite: Fashion Design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20013 HISTORY OF FASHION 3 Credit Hours
The study of dress reveals fundamental aspects of the culture in which it is created. This course is an interdisciplinary study of the aesthetic, historical, political, economic and social roles that fashions of an era chronicle. The course includes chronological study and research of dress from the origin of clothing through the present, as studied and applied to contemporary fashion.
Prerequisite: Fashion Design major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 20030 FASHION APPAREL ANALYSIS 3 Credit Hours
Analysis and evaluation of fashion apparel; quality standards of ready-to-wear apparel and factors that influence the aesthetic and functional performance of the end product.
Prerequisite: FDM 10033 and FDM 10034; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 20050 FASHION TECHNOLOGY APPLICATIONS 3 Credit Hours
A continuation of content related to technology within the fashion industry. Pattern manipulation, basic technical packages, garment measuring specs, print design and computerized fashion illustration is addressed with the use of industry-specific and off-the-shelf software packages.
Prerequisite: FDM 10053 and FDM 10054; and fashion design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20121 FASHION DRAWING 3 Credit Hours
Study of communicating design ideas, rendered fabrics, consumer types, technical flats, and the depiction of garment construction through the use of digital toolsets and illustration technology. Emphasis will be placed on the depiction of a variety of body types, demographics (gender identity, differently-abled, race/ethnicity, age, culture), fabric types (weight, end use, pattern/print, color, etc.) on the figure.
Prerequisite: FDM 10023 and FDM 10024; and fashion design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20123 FASHION DESIGN CONCEPTS 3 Credit Hours
An introduction to the process and methodology of creating fashion products with considerations of sustainable practice and diverse consumer markets. Students will apply fashion communication skills and combine with visual thinking practices. Emphasis will be on design thinking, sustainable methodology, creative experimentation, and a variety of body types and markets.
Prerequisite: FDM 10043 and FDM 10044 and FDM 20121.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20155 MACHINE KNITTING 3 Credit Hours
Basic machine knitting techniques, including structure and shaping on industrial handflat knitting machine. Development and analysis of knitted textiles.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20156 2-D FASHION DESIGN PRACTICE 3 Credit Hours
Development of two-dimensional patterns for three-dimensional figures/shapes using digital toolsets. Execution of virtual and traditional construction of two-dimensional pattern designs. Emphasis will be placed on the techniques used to develop apparel patterns for both knit and woven textiles and how to fit garments to the body. Students will develop garments for a variety of target markets and a variety of body types. Minimizing waste in pattern layouts and yardage allocation will be addressed.
Prerequisite: FDM 10033 and FDM 10034 and FDM 15055; and fashion design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20157 3-D FASHION DESIGN PRACTICE 3 Credit Hours
Study of draping as a technique for developing two-dimensional patterns for three-dimensional shapes. The techniques used for working with woven fabric and knit fabric are addressed. Students are required to drape on dress forms representing a variety of body shapes. Minimizing waste through shape and form is addressed.
Prerequisite: FDM 10033 and FDM 10034 and FDM 15055 and FDM 20156; and Fashion Design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20263 FASHION RETAIL INDUSTRY 3 Credit Hours
Study of retail organizations and structures within the fashion industry. Analysis of supervision organization and operations management of fashion retail institutions.
Prerequisite: FDM 10010; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 25011 FASHION BRANDING 3 Credit Hours
An overview of branding in the fashion industry. Analysis of strategies for creating (brand awareness), maintaining (brand management) and enhancing the strength (brand asset management) of fashion brands. Class members work individual an as part of a group.
Prerequisite: FDM 10010; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30013 FASHION AND POP CULTURE 3 Credit Hours
An examination of the relationship between different types of design and popular culture in America and Europe in the 20th and 21st centuries.
Prerequisite: ARTH 22006 or ARTH 22007 or HIST 11050 or HIST 11051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30050 FASHION TECHNOLOGY: COMPUTER INTEGRATED TEXTILE DESIGN 3 Credit Hours
The use of Computer Integrated Design tools to produce textile prints, wovens and knits for professional presentation scenarios.
Prerequisite: FDM 10053 and FDM 10054.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

FDM 30083 PROFESSIONAL SEMINAR 3 Credit Hours
Professional development strategies for fashion and related careers. Emphasis is on verbal and written communication skills.
Prerequisite: FDM 20030 and fashion merchandising major; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30124 TECHNICAL DESIGN IN THE FASHION INDUSTRY 3 Credit Hours
Students learn seamstitch classifications, costing, sourcing and lab testing quality assurance. Assembly-line and modular manufacturing are discussed.
Prerequisite: FDM 10033, FDM 10034 and FDM 20050.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

FDM 30132 APPAREL CONSTRUCTION FOR SPECIALTY MARKETS 1 Credit Hour
Construction details specific to a market are researched, discussed and duplicated. Only one specialty market covered each class. Markets vary by class.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 other
Grade Mode: Standard Letter

FDM 30151 ADVANCED PATTERNMAKING 3 Credit Hours
Flat pattern assignments for advanced, complex garments. Suits, outerwear, cutsew knits will all be covered. Students will make patterns by traditional methods as well as by computer.
Prerequisite: FDM 20156 and FDM 20157.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 30154 DIGITAL MACHINE KNITTING 3 Credit Hours
Programming knitting and basics of operating an industrial knitting machine. Students will develop a sample book that includes industrial techniques, such as structure, shaping, jacquard, intarsia cables, etc. One group project to create a garment and one final project based on research of knit industry will be required.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 30155 KNITWEAR DESIGN 3 Credit Hours
Focus is on the design development of knitwear, learning about how to recognize and communicate knit design through graphs and stitch notation as well as what yarns, fibers and machines are appropriate. The students in this class also design knitwear collections.
Prerequisite: Fashion design major.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

FDM 30161 FASHION DESIGN STUDIO I 6 Credit Hours
Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons and specific construction techniques; and further develop fashion design process approaches.
Prerequisite: FDM 20050 and FDM 20123 and FDM 20156 and FDM 20157.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

FDM 30162 FASHION DESIGN STUDIO II 6 Credit Hours
A continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons and specific construction techniques and further develop fashion design process approaches.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

FDM 30189 FLORENCE FASHION DESIGN STUDIO I (DIVG) (ELR) 6 Credit Hours
Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons and specific construction techniques; and further develop fashion design process approaches. European markets and travel are incorporated.
Prerequisite: FDM 20050 and FDM 20123 and FDM 20156 and FDM 20157; and special approval.
Schedule Type: International Experience, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 30190 NEW YORK CITY FASHION DESIGN STUDIO I (ELR) 6 Credit Hours
Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons and specific construction techniques; and further develop fashion design process approaches. New York City markets and design-specific experiences are incorporated.
Prerequisite: FDM 20050 and FDM 20123 and FDM 20156 and FDM 20157; and special approval.
Schedule Type: Study Away, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 30260 PRODUCT DEVELOPMENT IN THE FASHION INDUSTRY 3 Credit Hours
Researching, planning, developing and presenting a fashion product line for an identified target market with regard to prices, styling and timing.
Prerequisite: FDM 20030; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30262 FASHION MERCHANDISE PLANNING AND BUYING 3 Credit Hours
The study of the merchandise buying process from trend analysis through execution of sourcing and delivery of product. Learning the duties of a buyer/merchant, including product planning, coordinating and control of merchandise through the use of appropriate quantitative metrics.
Prerequisite: FDM 20263 and MATH 10041; and Fashion Merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30270 TRENDS AND PREDICTIVE ANALYTICS IN FASHION 3 Credit Hours
Provides an overview of fashion forecasting principles and their application from research and analysis to the creation and development of fashion forecasts. Focuses on the role of data analytics in decision making for the fashion industry as it applies to trend forecasting, retail merchandising and product marketing.
Prerequisite: FDM 20263 and FDM 25011; and Fashion Merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30289 FLORENCE FASHION DESIGN STUDIO II (DIVG) (ELR) 6 Credit Hours
Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons and specific construction techniques, and further develop fashion design process approaches. Content specific to the European design experience.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389; and special approval.
Schedule Type: International Experience, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 30290 NEW YORK CITY FASHION DESIGN STUDIO II (ELR) 6 Credit Hours
Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons and specific construction techniques, and further develop fashion design process approaches. Content specific to the New York City fashion design experience.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389; and special approval.
Schedule Type: Study Away, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 30389 PARIS FASHION DESIGN STUDIO I (DIVG) (ELR) 6 Credit Hours
Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons and specific construction techniques enabling personal development of the student's creative and market-ready work. Equal use of illustration, construction and fashion-industry communications such as tech packs and flats.
Prerequisite: FDM 20050 and FDM 20123 and FDM 20156 and FDM 20157; and special approval.
Schedule Type: International Experience, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 30489 PARIS FASHION DESIGN STUDIO II (DIVG) (ELR) 6 Credit Hours
Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons and specific construction techniques; and further develop fashion design process approaches. Content specific to the European design experience.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389; and special approval.
Schedule Type: International Experience, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35010 CONTEMPORARY FASHION DESIGNERS (WIC) 3 Credit Hours
Examine and analyze international fashion design and designers of the 20th and 21st centuries. Focuses on the history, development and present context of fashion. Students assemble a portfolio of fashion designers studied to include their biographies, clippings of their work and design inspirations.
Prerequisite: FDM 20013; and fashion design major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

FDM 35011 FASHION FORECASTING 3 Credit Hours
Identifying trends to develop fashion forecasts. Interrelationships of forecasting promotion, public relations, and the fashion media will be explored.
Prerequisite: FDM 25011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35012 SUSTAINABILITY IN FASHION 3 Credit Hours
Analysis and development of design process thinking through the lens of sustainability and socially responsibility in fashion. Readings, documentaries and lectures are discussed in class. Interdisciplinary teams create a product that supports sustainable fashion futures.
Prerequisite: Fashion design and fashion merchandising majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35013 FASHION ACCESSORIES 3 Credit Hours
The merchandising, promotion and sales of accessories. Materials production and resources are examined by category.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35060 FASHION IMAGE 3 Credit Hours
Study of fashion imagery through industry observation, analysis, and examination of fashion photo shoots and styling practices. Combines theoretical and practical approach in planning through individual and collaborative efforts resulting in a fashion industry-inspired photo shoot and styling project.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35063 VISUAL MERCHANDISING AND DISPLAY 3 Credit Hours
Theory and practice of merchandise presentation for the purpose of promotion and sales.
Prerequisite: Fashion merchandising major.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

FDM 35070 THE LUXURY MARKET 3 Credit Hours
Purpose is to learn, understand, and perceive the luxury market and its parameters. Students gain an understanding of the marketing power of luxury brands and the organization of a luxury products company.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35080 FASHION IN THE MEDIA 3 Credit Hours
Analysis of key fashion magazines and in-depth examination of how they are created. Students learn the fundamentals of different forms of communication and the contributions editors, writers, stylists and photographers make toward the finished product. Exploration of how various media interrelate and contribute to the fashion industry is included. Different forms of writing, editing and interviewing as well as the roles of photography, design and styling are examined. Online outlets, television commentary, fashion advertising and Public Relations are discussed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35089 INTERNATIONAL EXPERIENCE: THE PARISIAN LUXURY MARKET (DIVG) (ELR) 3 Credit Hours
Examination of the French fashion luxury market and industry. Students gain an understanding of the marketing power of luxury brands and the organization of a luxury products company.
Prerequisite: FDM 36900.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35260 MERCHANDISING FOR HOME FURNISHINGS 3 Credit Hours
Introduction to the various retail classifications of home furnishing merchandise to include furniture, floor coverings, window treatments, household linens, table tops, housewares and decorative accessories.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35270 COMPUTER APPLICATIONS IN RETAILING 3 Credit Hours
The application and use of the microcomputer to solve problems in assortment planning, merchandise management, trading area and site analysis, store planning, planogramming and media planning.
Prerequisite: FDM 20263; and MATH 10041 or MATH 11009 or MATH 11010 or MATH 11012; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35280 FASHION ENTREPRENEURSHIP 3 Credit Hours
In-depth study of entrepreneurship concepts as applied to manufacturers and retailers of apparel including product development, accounting and control merchandising and buying operation and management advertising and promotion.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35589 INTERNATIONAL EXPERIENCE: ITALIAN FASHION AND CULTURE (DIVG) (ELR) 3 Credit Hours
Evolution of the fashion industry in post World War II Italy. Study of the creators, design and production processes creating one of the most successful unions of commercial product and cultural expression world-wide.
Prerequisite: FDM 35900.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35689 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION MARKETING (DIVG) (ELR) 3 Credit Hours
Building on the information acquired in the European Fashion Marketing Seminar lectures and visits, student complete a series of assignments designed to simulate the type of work that a merchandising professional may be asked to complete.
Corequisite: FDM 35789.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35789 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION MARKETING SEMINAR (DIVG) (ELR) 3 Credit Hours
Taken concurrently with European Fashion Marketing and uses a European city as an extended classroom, combining various field trips to directional shopping districts, fashion houses and fashion magazines. Only taught in European settings.
Corequisite: FDM 35689.
Schedule Type: International Experience, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35889 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION DESIGN (DIVG) (ELR) 3 Credit Hours
Taken concurrently with European Fashion Design Seminar and is designed to introduce couture techniques and enhance techniques of those who possess a basic to advance knowledge of sewing. Only taught in European settings.
Corequisite: FDM 35989.
Schedule Type: International Experience, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35900 FLORENCE FASHION STUDY ORIENTATION 1 Credit Hour
Overview of Florence fashion program, the city of Florence, living and traveling in Europe as a study abroad student. Includes assistance for obtaining required documents. Students must enroll in Florence fashion program to receive credit.
Prerequisite: Minimum 2.500 overall GPA; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

FDM 35989 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION DESIGN SEMINAR (DIVG) (ELR) 3 Credit Hours
Taken concurrently with European Fashion Design and uses a European city as an extended classroom, combining various field trips to directional shopping districts, fashion houses and fashion magazines.
Corequisite: FDM 35889.
Schedule Type: International Experience, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 36589 INTERNATIONAL EXPERIENCE: PARISIAN FASHION, CULTURE AND CRAFT (DIVG) (ELR) 3 Credit Hours
Focusing on Parisian fashion, culture and artisan tradition, this course introduces different techniques that can be used in the creation of clothing or accessories, including couture approaches. Researching the use of finishes and textiles are examined in the context of Parisian artisan cultural traditions. Students learn how high-end designers use these techniques in their lines/shows.
Prerequisite: FDM 36900.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 36900 PARIS FASHION STUDY ORIENTATION 1 Credit Hour
Overview of Paris fashion program, the city of Paris and living and traveling in Europe as a study abroad student. Includes assistance for obtaining required documents. Students must enroll in Paris fashion program to receive credit.
Prerequisite: Minimum 2.500 overall GPA; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

FDM 40050 FASHION TECHNOLOGY:TECHSTYLELAB 3 Credit Hours
Explores the historical and contemporary links between fashion and technology. Garments, artists, designers, institutions and projects relevant to technological explorations within the fashion context is discussed. Research and experiments conducted with the Fashion School's TechStyleLAB. Students acquire fundamental research skills for fashion technology and develop their own web presence.
Prerequisite: FDM 10053 and FDM 10054.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

FDM 40098 RESEARCH IN FASHION DESIGN AND MERCHANDISING (ELR) 1-3 Credit Hours
(Repeatable for credit) Research experience and investigation of a topic above the level available through coursework with an individual faculty member. This experience is designed to strengthen student's ability to synthesize different phases and methods of academic research. Students work closely with a faculty member to determine the specific nature, scope, and design of the research experience.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 40099 SENIOR FASHION DESIGN THESIS I (ELR) 6 Credit Hours
Senior fashion design thesis collection is created focused on the specialties of each student. This collection is finalized, analyzed and presented during FDM 40199. Students engage in a formalized critical development and review process with established external fashion designers.
Prerequisite: FDM 30162 or FDM 30289 or FDM 30290 or FDM 30489; and Fashion Design major.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 40121 FASHION PORTFOLIO I 3 Credit Hours
Students develop a professional design portfolio that emphasizes in-depth individual investigation of specific apparel markets, target customers and seasons, displaying various illustrative techniques. Croquis books, technical packets and line plans are used.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389; and FDM 30162 or FDM 30289 or FDM 30290 or FDM 30489.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 40122 FASHION PORTFOLIO II 3 Credit Hours
A continuation of FDM 40121. Students continue development of design portfolio that emphasizes their strengths in design and presentation. In addition, there is continued progress in croquis books and development of seasonal line plans.
Prerequisite: FDM 40121.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 40199 SENIOR FASHION DESIGN THESIS II (ELR) 3 Credit Hours
Continuation of Senior Fashion Design Thesis I. Finalize senior thesis project; critical review and reflection on outcome in a short analysis. The final thesis submission will be displayed through a juried venue.
Prerequisite: FDM 40099.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 40262 DATA-BASED DECISION-MAKING IN FASHION RETAILING 3 Credit Hours
Develops data analytics and industry-focused software skills to identify solutions related to fashion merchandising and retail business operations. Emphasis is on learning industry software from inventory location optimization to the use of communication techniques for quantitative business information within the fashion retail industry.
Prerequisite: FDM 30262.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 40270 FASHION INDUSTRY RESEARCH METHODS (WIC) 3 Credit Hours
Examination of research methods used in the fashion industry. Introduction to research methods for the analysis of consumer needs and preferences and their application to materials, design and fashion retail decision-making strategies.
Prerequisite: FDM 30270 or FDM 35011; and MATH 10041 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

FDM 40280 GLOBAL FASHION VALUE CHAIN 3 Credit Hours
Comprehensive approach to understanding the textile and apparel supply and value chain. Includes global perspectives on value-adding activities and impacts across materials sourcing, production, distribution and operations, including the related historic, geographic, economic, ethical and environmental influences.
Prerequisite: FDM 30260 and FDM 30262.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 40291 SEMINAR IN FASHION MERCHANDISING (WIC) 3 Credit Hours
(Repeatable for credit) Capstone course in Fashion Merchandising. Builds and expands on all merchandising-related coursework with the goal of integrating content and applying it to real-life scenarios through critical thinking and analysis. A coherent portfolio demonstrating student efficacy with overall program content is completed.
Prerequisite: FDM 30260, FDM 30262, FDM 35011 and FDM 35270.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

FDM 40299 APPLIED PRINCIPLES IN FASHION MERCHANDISING (ELR) 3 Credit Hours
Capstone course in fashion merchandising that expands on all merchandising-related coursework with the goal of applying program content to real-life scenarios. Focus on critical thinking and analysis to present practical business solutions for industry. Students finish by creating a coherent portfolio demonstrating their effectiveness in applying overall program content.
Prerequisite: FDM 30260 and FDM 30262; and FDM 30270 or FDM 35011.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 43292 FASHION SHOW MANAGEMENT AND PRODUCTION (ELR) 3 Credit Hours
(Repeatable for credit) This course teaches students all the basic elements and process of planning, managing and producing a fashion show. Students gain practical experience through the actual planning, management, production and delivery of the School of Fashion's annual fashion show.
Prerequisite: None.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 45012 TEXTILES AND APPAREL IN THE GLOBAL ECONOMY 3 Credit Hours
Global perspective on the production and marketing of textiles and apparel; historical geographic and economic factors that influence the world trade in soft goods.
Prerequisite: FDM 30262 and 35270.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 45035 HISTORIC TEXTILES 3 Credit Hours
(Slashed with FDM 55035) Identification and analysis of textile fabrics as the reflection of culture from ancient times to present.
Prerequisite: Fashion design or fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 45045 COLLABORATIVE FASHION PRODUCTION 3 Credit Hours
Exploration of product production process from concept to a marketable product. Utilizes introductory pattern making, sewing skills, and project management to create fashion apparel products.
Prerequisite: Fashion design or fashion merchandising major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 45093 VARIABLE TITLE WORKSHOP-FASHION DESIGN AND MARKETING 1-3 Credit Hours
(Repeatable for a total of 6 hours) Special fee actual cost basis.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

FDM 45095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Variable content relevant to the field of fashion.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

FDM 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual investigation of topic above the level available through coursework. Requires submission of and approval of project proposal prior to registration.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

FDM 45192 INTERNSHIP IN FASHION MERCHANDISING (ELR) 3 Credit Hours
Supervised practical experience in the fashion industry. Eligibility requirements available from the School of Fashion Design and Merchandising field studies coordinator.
Prerequisite: FDM 30083 and 30262; and fashion merchandising major; and special approval for internship site.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 45212 FASHION SHOW PRODUCTIONS 3 Credit Hours
Analyses of fashion show formats are considered for promotion purposes. Production planning, organization and physical requirements are studied. Class produces a fashion show.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 45292 INTERNSHIP IN FASHION DESIGN (ELR) 3 Credit Hours
Supervised practical experience in the fashion industry. Eligibility requirements available from the School of Fashion Design and Merchandising field studies coordinator.
Prerequisite: FDM 20123 and FDM 20156 and FDM 20157; and Fashion Design major; and special approval for internship site.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 45392 FIELD EXPERIENCE: FASHION STUDY TOUR (ELR) 1-3 Credit Hours
(Repeatable for credit)Visit to domestic or foreign fashion markets, including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.
Prerequisite: Fashion design or fashion merchandising major; and special approval.
Schedule Type: Field Experience
Contact Hours: 12-36 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

FDM 45589 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION STUDY TOUR FOR FLORENCE STUDENTS (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) Visit to European fashion markets including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.
Prerequisite: Fashion design or fashion merchandising major.
Schedule Type: International Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

FDM 45590 STUDY TOUR FOR NYC STUDIO STUDENTS (ELR) 3 Credit Hours
(Repeatable for credit) Visit to the New York fashion market including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.
Prerequisite: Fashion design or fashion merchandising major; and special approval.
Schedule Type: Study Away
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

FDM 45689 INTERNATIONAL EXPERIENCE: PARISIAN FASHION STUDY TOUR FOR PARIS STUDENTS (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) Visit to Paris fashion markets including design and fabric houses or showrooms, retail stores, buying offices, museums and other areas of the fashion industry.
Prerequisite: FDM 36900; and Fashion Design or Fashion Merchandising major.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

FDM 55035 HISTORIC TEXTILES 3 Credit Hours
(Slashed with FDM 45035) Identification and analysis of textile fabrics as the reflection of culture from ancient times to present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 55389 FASHION INDUSTRY INTERNATIONAL EXPERIENCE STUDY TOUR 3 Credit Hours
(Repeatable for credit) A Kent State faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. Visits to international fashion markets, including design or fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry. The primary benefits are the direct observation and study of how the fashion industry operates including how fashion products are created, manufactured, marketed and/or merchandised at the wholesale and retail levels. Students have a series of critical discussions and present a position paper upon completing the international experience. This course has pre- and post-travel classroom study.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

FDM 60005 RESEARCH METHODS IN THE FASHION INDUSTRY 3 Credit Hours
This course examines research subject areas and methods as they pertain to various stakeholders in the fashion value chain. Focus is on understanding research practices relevant to the fashion industry, accessing and critically evaluating existing research, engaging in active research and applying research through practice to expand knowledge in the field.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60010 THEORIES AS APPLIED TO THE FASHION INDUSTRY 3 Credit Hours
Focuses on the meaning, context and intent of fashion in contemporary society. Examination of seminal theories and constructs that inform understanding and ability to address complex issues derived from the fashion industry setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60011 THE FASHION INDUSTRY: A UNIFYING LENS 3 Credit Hours
This course is designed to make connections, synthesize, and develop understanding of the fashion industry. Students will participate in informed critical discussion, written, and visual work, guided by interaction with multiple stakeholders and concluded with a final paper and presentation that identifies an area where research through practice can expand knowledge in the field.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60015 FASHION SYSTEMS THINKING 3 Credit Hours
The adverse effects of the global fashion industry have become an established narrative throughout fashion academic and industry circles. This course examines economic, social and environmental impacts of the fashion value chain from a systemic perspective. Focus is on the five key components used in systems thinking approach, namely: interconnectedness, synthesis, emergence, feedback loops, causality and systems mapping to practice problem solving that views fashion industry-related problems as part of a wider, dynamic system.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60020 FASHION INDUSTRY DESIGN MANAGEMENT 3 Credit Hours
In-depth study of the relationship between creativity and efficiency in the fashion industry. Provides insight into how project managers can nurture innovation in an organizational context.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60025 GLOBAL CONSUMER IN THE FASHION INDUSTRY 3 Credit Hours
This course examines global market segments, how to reach them, the consumer buying process across countries and psychological and sociological variables that influence and motivate consumers. This course broadens the understanding and evaluation of consumer behavior concepts as they pertain to domestic and global marketing strategies. Focus is also on targeting needs of diverse consumers and marketing efforts directed at creating an inclusive environment for all consumers.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60031 FORMS OF INQUIRY IN THE FASHION INDUSTRY 3 Credit Hours
Critical evaluation of research, theoretical and scholarly review of articles related to the fashion industry. Learn and practice skills needed to understand and critically evaluate research, theory and scholarly works. Examine in-depth scholarly literature as applied to one topic within the fashion industry. Write and present a scholarly review of literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60050 TECHSTYLELAB: DIGITAL DESIGN AND NEW MEDIA IN THE FASHION INDUSTRY 3 Credit Hours
Exploration of the intersection of New Media and Fashion. Includes research into analog design methods and digital systems of production and the supply chain management. Topics include various research and design topics such as mass-customization, co-creation, material ecology, digital craft and future craft practices.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 60092 FASHION INDUSTRY PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Practicum is an off-campus, progressive process involving a number of specific guided experiences with a fashion agency or company. This course is intended to bridge the gap between the theoretical and abstract learning gained within the classroom with real-world concrete applications. Students are required to develop a practicum analytical or reflective research paper and make an oral presentation of their practicum experiences.
Prerequisite: Fashion Industry Studies major; and graduate standing; and special approval.
Pre/corequisite: FDM 60005 and FDM 60015.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

FDM 60093 WORKSHOPS ON CURRENT TOPICS IN THE FASHION INDUSTRY 1-3 Credit Hours
(Course is repeatable) Students will be encouraged to take advantage of courses that focus on professional renewal or mastery and application of knowledge and skills that address a range of problems or issues related to fashion industry practice. The workshops will be offered at our NYC, Florence, and Kent campuses.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

FDM 60098 RESEARCH PROJECT IN FASHION INDUSTRY 3 Credit Hours
(Repeatable for credit) Research experience with an individual faculty member designed to strengthen student's ability to synthesize different phases and methods of research. Students work closely with faculty to determine the specific nature, scope and design of the research experience. Requires submission of and approval of project proposal prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

FDM 60099 FASHION INDUSTRY PRACTICUM CAPSTONE 3 Credit Hours
This course combines research with pragmatic industry-facing solutions reliant on firsthand information gathering, analysis and assessment. As a capstone experience, M.F.I.S. students base their experience from the practicum with a fashion-related industry partner by creating an in-depth case study, abbreviated business plan or industry presentation resulting from the information and research gathered and reflecting student interest.
Prerequisite: FDM 60092; and graduate standing; and special approval.
Pre/corequisite: FDM 60005 and FDM 60015 and FDM 60025.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

FDM 60100 ADVANCED FASHION INDUSTRY PRACTICE 3 Credit Hours
This capstone course is centered in research as both a practice and a process. Students will pursue case studies in which they research, interpret and aim to advance fashion industry practices. Informed by industry observation and experience, utilizing and engaging with a variety of research methods, students will document findings, analyze, reflect, and present their own pragmatic implications drawn from and applied to the fashion industry. The aim of the course is to challenge students to advance their research and analytical skills, to cross disciplinary boundaries, and to develop new and original perspectives of industry research through practice.
Prerequisite: FDM 60031; and enrolled in the master of fashion industry studies (MFIS) degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60162 ADVANCED FASHION INDUSTRY DESIGN AND PRODUCTION 3 Credit Hours
This process-oriented course focuses on studio investigation of complex formal and spatial constructs in apparel design and production. The course will discuss and examine a variety of current approaches including those that are interdisciplinary and utilize design thinking in a fashion industry context. Students will use methods and tools for fashion research to explore new techniques in the development of design concepts that challenge current practice. Students are encouraged to think critically about design problems and processes while seeking discoveries through experimentation, resulting in a body of work examined by critique and exhibition. Examinable material includes written and visual documentation, which is then retained as the archival record of the research.
Prerequisite: Graduate standing; and special approval from the graduate studies coordinator.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a maximum of 6 credit hours, 2 to 6 credit hours during a single semester, distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

FDM 60299 THESIS II 2 Credit Hours
(Course is repeatable) Continuing registration required of master's students who have completed the initial 6 hours of thesis and continuing until all degree requirements are met.
Prerequisite: FDM 60199; and graduate standing; and special approval from the graduate supervisory committee.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

FDM 63011 VISUAL PRESENTATION IN THE FASHION INDUSTRY 3 Credit Hours
This course explores the multiple methods of visual presentation practiced in the fashion industry through applications of digital and physical concepts. Students will examine and discuss current fashion industry approaches utilized by creative talent, merchants, and other stakeholders. Focus will be on developing visual communicators who can convey unique brand stories and complex ideas through use of various forms of media. Students will learn to establish branding and visualization of their own work and research to help promote their professional identity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65010 SUSTAINABLE CONCEPTS AND PRACTICES IN THE FASHION INDUSTRY 3 Credit Hours
This course will discuss and examine the most current approaches to sustainability in fashion. The different facets, benefits or shortcomings of each approach will be analyzed with an eye to researching viable solutions to future practices in manufacturing, material selection, design and business. Course embeds practice-based approaches to sustainable development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65045 FASHION INDUSTRY MERCHANDISE MANAGEMENT 3 Credit Hours
This course provides an overview of the merchandising process - planning, developing and presenting merchandise lines within the fashion industry. Core merchandising concepts and principles taught throughout this course include merchandise performance measures, pricing mechanics, wholesale and retail pricing strategy, merchandise budgets and assortment, vendor relationships and negotiations and merchandise replenishment management. This course examines such concepts as applied to manufacturers, wholesalers and retailers of fashion merchandise.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65055 ENTREPRENEURIAL LEADERSHIP AND SUSTAINABILITY IN THE FASHION INDUSTRY 3 Credit Hours
This course discusses the importance of entrepreneurial leadership and innovation as competitive advantages within the fashion industry. Students examine the conscious leadership concepts and principles of both small/medium enterprises and large corporations of the fashion industry. By applying conscious capitalism approach, the course introduces more progressive and purposeful ways to advance sustainable practices to benefit all five stakeholders within the fashion industry - society, partners, investors, customers and employees.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Pre/corequisite: FDM 60005 and FDM 60015.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65065 SUPPLY CHAIN MANAGEMENT IN THE FASHION INDUSTRY 3 Credit Hours
This course examines supply chain within the fashion industry and basic theories and principles that guide decision-making in the supply chain. Students will learn how supply chain management can be used to gain a competitive advantage in the fashion industry, comprehend buyer-supplier relationships, supply chain transparency, product recalls, sourcing issues, and other challenges in the global fashion supply chain. Attention will be given to understanding sustainable practices and future developments within the global fashion supply chain.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65095 FASHION INDUSTRY SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Variable content relevant to the field of fashion.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

FDM 65096 INDIVIDUAL INVESTIGATION IN THE FASHION INDUSTRY 1-3 Credit Hours
(Repeatable for credit) Individual investigation of a topic that is not available through the current curriculum offerings. Requires submission of and approval of project proposal prior to registration.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

FDM 65100 SUSTAINABLE SUPPLY CHAIN AND LIFE CYCLE ASSESSMENT IN THE FASHION INDUSTRY 3 Credit Hours
This course examines the traditional and sustainable supply chain within the fashion industry. There is a focus on basic theories and principles that guide decision making, including current challenges in converting from traditional practices to environmentally and socially protective supply chains. Students learn how sustainably focused supply chain management can be used to gain a competitive advantage in the fashion industry through supply chain transparency and LCA metric development.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65110 CIRCULAR ECONOMY STRATEGIES IN THE FASHION INDUSTRY 3 Credit Hours
Throughout discussions of sustainability, a circular economy is considered the ultimate goal post by which we must measure success. To fully realize a sustainable future, we must design out waste and pollution and fundamentally rethink the fashion system that currently relies on a take/make/waste construct. This course examines what a circular economy might look like in the fashion industry, what things need to happen to get there and what initial steps look like in that direction.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65120 FIBER AND TEXTILE INNOVATION 3 Credit Hours
This course introduces current and emerging fiber and textile innovations relevant to the fashion industry and provides students an opportunity to explore the expanding potential of textiles as an adaptive and responsive interface between humans and their environment. Examples of applications are reviewed from four perspectives: (1) fiber and textile innovation with a focus on material production and selection implications; (2) manufacturing and processing basics; (3) implications for the life cycle and sustainability of the resulting textile and apparel products; and (4) human body-functional textile interactions and potential health implications.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65220 INNOVATIONS IN THE FASHION RETAIL INDUSTRY 3 Credit Hours
This course encompasses how various innovations create the optimal customer experience to gain competitive advantages in the 21st century retail environment. Using the perspective of omnichannel retailing, which is a fully integrated approach to commerce that provides shoppers a unified experience across all channels or touchpoints, students explore the various innovations relevant to the fashion retail industry. Through case study analysis and final project reports, students present pragmatic solutions to retailers of their choice.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FDM 65300 DIGITAL KNIT DESIGN 3 Credit Hours
This course focuses on digital knitting as utilized by a designer. The students use available software for 3D development of products and stitch design. The course focuses on stitch understanding and development, as well as communication of designs both stitch and shape using 3D virtualization software and stitch development software. This course is geared toward designers with industry studio practice and is at an advanced level.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 65310 DIGITAL KNIT PROGRAMMING I 3 Credit Hours
This course focuses on digital knitting and programming of industrial knitting machines. This is one of four digital knit courses that enables students to learn proprietary software, programming and technical knit skills. The course goes through the foundational understanding of stitches and how to program them on industrial knitting machines. The course also focuses on hands-on learning on the industrial machine, including set up of the machine and machine maintenance. This course is geared toward designers with fashion industry studio practice and is at an advanced level.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 65320 DIGITAL KNIT PROGRAMMING II 3 Credit Hours
This course focuses on digital knitting and advanced programming of industrial knitting machines. This is the second of two programming courses and one of the four digital knit courses enabling students to continue to learn complex proprietary software, programming and technical knit skills. The course goes through the understanding of more complex stitch structures, as well as how to program on the machine. The course includes techniques for shaping structures to create three dimensionally knitted textile products. This course is geared toward designers with industry studio practice and is at an advanced level.
Prerequisite: FDM 65310; and graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 65330 DIGITAL KNIT APPLICATIONS 3 Credit Hours
This course focuses on the application of skills in digital knitting to develop an advanced final product line. This is one of the four digital knit courses that enables students to learn proprietary software, programming and technical knit skills. Depending on the student's focus of either technical or design, the product line can be developed in 3D virtual presentation or actual prototypes. Regardless of focus, it is expected that the student has some representation of both virtual and actual in the final presentation of the product. Along with the product line, presentation is a use case. This course is geared toward designers with industry studio practice and is at an advanced level.
Prerequisite: FDM 65300 or FDM 65310; and graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

Finance (FIN)

FIN 26051 BITCOIN AND BLOCKCHAIN TECHNOLOGY 3 Credit Hours
Digital currencies and distributed ledger technology will completely reshape the landscape of commerce and business. Course explores this from three different perspectives: the primary and secondary markets and emergence of digital tokens; capital formation in the digital economy; and financial technology transformation via distributed ledger blockchain.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 26074 LEGAL ENVIRONMENT OF BUSINESS 3 Credit Hours
(Equivalent to BMRT 21000) Coverage of the nature, structure and significance of the legal and regulatory areas which confront business, with special emphasis on business ethics environmental and international issues.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

FIN 26085 INTRODUCTION TO FINANCIAL MODELING 1 Credit Hour
Introduces students to financial modeling using both basic and advanced features in Microsoft Excel. Students will learn how to create and analyze databases for portfolios and other projects. Students will learn commands for statistical analysis and financial functions.
Prerequisite: CIS 24053; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FIN 26086 PRINCIPLES OF FINANCIAL MODELING 3 Credit Hours
Introduces students to financial modeling using both basic and advanced features in Microsoft Excel. Students learn how to create and analyze databases for portfolios and other projects. Students learn commands for statistical analysis and financial functions. Students create their own discounted cash flow analysis model, including creating a complete set of financial statements as well as a five-year forecast. Students are introduced to data visualization software.
Prerequisite: CIS 24053; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 26280 GOLDEN FLASH ASSET MANAGEMENT MEMBER 1 Credit Hour
(Repeatable for max 3 credit hours) This course is for members of the Golden Flash Asset Management Group, Kent State's student-managed investment fund. Requires special permission from the department chair, but any major on campus can join. To inquire about becoming a member, contact the chair of the Department of Finance. Students may repeat this course up to a maximum of 3 credits only toward general electives, if needed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FIN 26295 SPECIAL TOPICS IN FINANCE I 1-3 Credit Hours
(Repeatable for credit) Deals with special topics in finance; new subjects not covered in other existing courses.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

FIN 36040 PERSONAL FINANCIAL PLANNING 3 Credit Hours
Course examines basic personal financial planning and investment strategies with the goal of increasing personal financial literacy and future individual well-being. Course provides a foundation for understanding financial decisions and making informed choices. Course does not fulfill a requirement for the Finance major or minor. Students cannot earn credit toward graduation for both FIN 36040 and FIN 36063.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36051 THE FINANCIAL SYSTEM 3 Credit Hours
Analysis of financial markets and institutions emphasizing current issues, regulatory aspects, and management concerns. This is a fundamental course for business majors and minors.
Prerequisite: ACCT 23020 or ACTT 11000; and ECON 22060; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36053 BUSINESS FINANCE 3 Credit Hours
Introductory finance course analyzing the basic financial decisions of corporations and the interface of the firm with capital markets. Students discuss stocks, bonds, the time value of money, risk versus return and the essentials of capital budgeting.
Prerequisite: ACCT 23020 or ACTT 11000; and ECON 22060; and ECON 22061; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36054 INTERMEDIATE CORPORATE FINANCE 3 Credit Hours
Treatment of financial decision making processes in businesses. Overview of cost of capital, capital budgeting, capital structure, and working capital management.
Prerequisite: Minimum C grade in FIN 26085 (or FIN 26086), FIN 36053, ENG 21011 (or HONR 10297), COMM 15000 and MATH 11010 (or MATH 10675 or MATH 10775); and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36059 INTERMEDIATE INVESTMENTS 3 Credit Hours
Discussion of factors determining the value of investment securities with attention to economic, regulatory, and global influences. Either this course or FIN 36063, but not both, can count as an elective in an Ambassador Crawford College of Business and Entrepreneurship program.
Prerequisite: Minimum C grade in the following courses: FIN 26085 or FIN 26086; and FIN 36053; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36061 PRINCIPLES OF REAL ESTATE 3 Credit Hours
Principles and practices of real estate, real estate laws, contractual instruments, valuation, financing and markets in commercial and residential real estate.
Prerequisite: FIN 36053 with a minimum C grade; and minimum overall 2.000 GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36063 INDIVIDUAL INVESTMENT STRATEGIES 3 Credit Hours
Course examines more advanced strategies for personal investing in stocks, bonds, insurance, real estate and alternative investments. Course does not fulfill a requirement for the Finance major or minor. Students cannot earn credit toward graduation for both FIN 36040 and FIN 36063. Not open to students declared in Finance major or minor.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36072 LAW OF COMMERCIAL TRANSACTIONS 3 Credit Hours
Introduction to real and personal property, commercial paper, agency law, business organizations, bankruptcy, secured transactions and other related areas of business law.
Prerequisite: FIN 26074 or BMRT 21000; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36081 PRINCIPLES OF INSURANCE 3 Credit Hours
Examination of insurance industry, its regulatory environment and insurance contracts. Life and health insurance as well as property and liability insurance are covered.
Prerequisite: FIN 36053 with a minimum C grade; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36086 ADVANCED FINANCIAL MODELING 3 Credit Hours
Course is meant as a stepping-stone for advanced financial courses. Students touch upon three general areas of financial modeling: (1) financial-statement-based models, (2) portfolio investment models and (3) markets/securities/derivatives models. Students use Excel functions and techniques to solve problems for different and complicated scenarios. Students also use multiple regression analysis in Excel. Students use advanced features in Tableau and are introduced to Python.
Prerequisite: Minimum C grade in FIN 26085 (or FIN 26086), FIN 36053, ENG 21011 (or HONR 10297) and COMM 15000; and MATH 11010 (or MATH 10675 or MATH 10775); minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36280 GOLDEN FLASH ASSET MANAGEMENT JUNIOR OFFICER 2 Credit Hours
(Repeatable for max 6 credit hours) This course is for junior officers in the Golden Flash Asset Management Group, Kent State's student managed investment fund. Course examines the issues involved in the management and investment strategies of a portfolio of financial assets. Junior officers research prospective investments, generate reports and make decisions to invest or liquidate. Any recommendation to buy, sell or retain a position in a security is presented to all student team members and to the instructor. Oral presentations are required. Course credits count toward general electives, not finance major/minor electives.
Prerequisite: Special approval from department chair.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

FIN 46054 FINANCIAL RISK MANAGEMENT 3 Credit Hours
Understanding techniques and financial tools used in managing financial risk. Analysis of contracts (options, forwards, futures) undertaken in the context of financial regulation and ethical practices within the financial marketplace.
Prerequisite: FIN 36053 with a minimum C grade; and overall 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46055 ADVANCED DERIVATIVE SECURITIES 3 Credit Hours
(Slashed with FIN 56055) Comprehensive analysis of derivatives securities markets and their role in the financial system. Valuation methods, advanced hedging, arbitration techniques and the regulatory environment.
Prerequisite: FIN 36059; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46056 ADVANCED FIXED INCOME MANAGEMENT 3 Credit Hours
(Slashed with FIN 56056) Course investigates techniques and financial tools used in fixed income markets. Students analyze interest rate and bond mathematics; review the structure of debt markets; and examine the mechanics, securities, derivatives and structured products tied to the credit and debt markets.
Prerequisite: FIN 36051 and FIN 36059; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46059 APPLIED FINANCIAL MANAGEMENT STRATEGIES (ELR) (WIC) 3 Credit Hours
(Slashed with FIN 56059) Emphasis on financial policies and strategic financial decision-making with respect to both short-term and long-term financial management problems.
Prerequisite: FIN 36054; and MATH 10041 or BA 24056; and minimum 2.000 overall GPA; and Finance major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

FIN 46061 REAL ESTATE FINANCE 3 Credit Hours
(Slashed with FIN 56061) Course covers basic real estate law, project evaluation, financing strategies, investment decision making and real estate capital markets.
Prerequisite: FIN 36051 and FIN 36054 or FIN 36059; and 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46064 INTERNATIONAL BUSINESS FINANCE 3 Credit Hours
(Slashed with FIN 56064) Management of the finance function of an international company, including foreign exchange exposure management, foreign investment, short term and long term capital management and international accounting and taxation.
Prerequisite: Minimum C grade in FIN 36053; and minimum 2.000 overall GPA; and Finance major or minor or International Business minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46067 ADVANCED PORTFOLIO ANALYSIS 3 Credit Hours
(Slashed with FIN 56067) Examines the principles, methods, and techniques of portfolio analysis with emphasis on determination of portfolio risks and returns. The political, ethical, and global forces affecting asset risks and returns are evaluated.
Prerequisite: FIN 36051 and FIN 36059; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46068 COMMERCIAL BANK MANAGEMENT 3 Credit Hours
(Slashed with FIN 56068) Financial management techniques applied to commercial banks. Focus on management of liquidity, investment and loan portfolios and capital structure.
Prerequisite: FIN 36051; and FIN 36054 or FIN 36059; and minimum 2.000 overall GPA; and Finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46070 ADVANCED COMMERCIAL BANK MANAGEMENT 3 Credit Hours
(Slashed with FIN 56070) Course contains a mixture of lectures, guest speakers and case discussions regarding the banking industry. Advanced discussions of liquidity risk, interest rate risk, credit risk and solvency risk and the management of these risks. In-depth computer models for measuring and managing risks are discussed.
Prerequisite: FIN 46068; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46072 BUSINESS FINANCIAL DISTRESS AND BANKRUPTCY 3 Credit Hours
This course introduces the senior undergraduate or graduate business student to the business problems faced by a financially troubled company, and possible ways to save that company. Students will learn the economics and structure of secured lending, the ways a business can jettison costs to regain operations profitability, the many complications management faces when trying to fix the company and the rules controlling the aggressive actions of it's creditors. The course will have a special focus on the multi-billion dollar world of "distressed mergers and acquisitions," including ways Wall Street, Private Equity firms and competitors value a troubled business and try to buy the business at a bargain price.
Prerequisite: FIN 26074; and FIN 36051; and FIN 36054 or FIN 36059; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46089 INTERNATIONAL FINANCE EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Slashed with FIN 56089) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: Minimum 2.000 overall GPA; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FIN 46096 INDIVIDUAL INVESTIGATION IN FINANCE 1-3 Credit Hours
(Repeatable for credit) Opportunity for research in problem areas of interest in field of finance. Agreement of faculty member in the department must be secured prior to registering for course.
Prerequisite: Minimum 2.500 overall GPA; and finance major; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

FIN 46192 INTERNSHIP IN FINANCE (ELR) 3 Credit Hours
(Repeatable for Credit) An internship for finance majors and minors interested in obtaining career-relevant experience. Students and employers must satisfy criteria established by the department. Students are responsible for securing employment.
Prerequisite: FIN 36051; and FIN 36054 or FIN 36059; and a minimum 2.500 overall GPA; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FIN 46280 GOLDEN FLASH ASSET MANAGEMENT SENIOR OFFICER 3 Credit Hours
(Repeatable for max 6 credit hours) This course is for Senior officers in the Golden Flash Asset Management Group, Kent State's student-managed investment fund. Course examines the issues involved in the management and investment strategies of a portfolio of financial assets. It focuses on asset allocation, portfolio monitoring and evaluation, portfolio rebalancing and investment analysis under the supervision of the instructor. Senior officers are responsible for leading meetings, preparing and presenting the annual report, reviewing performance, making trades, monitoring risk, providing the economic report and ensuring a smooth flow of operations. Oral presentations are required. Course credits count toward general electives when taken for the first time. Course credits can count toward general electives or major electives if taken for the second time.
Prerequisite: Special approval by the department chair.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46295 SPECIAL TOPICS IN FINANCE II 1-3 Credit Hours
(Repeatable for credit) Deal with special topics in finance. New subjects not covered in other existing courses.
Prerequisite: FIN 36053; and minimum 2.500 overall GPA; and finance major; and senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

FIN 56055 ADVANCED DERIVATIVE SECURITIES 3 Credit Hours
(Slashed with FIN 46055) Comprehensive analysis of options and futures markets and their role in the financial system. Students explore valuation methods, advanced hedging, arbitration techniques and the regulatory environment.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56056 ADVANCED FIXED INCOME MANAGEMENT 3 Credit Hours
(Slashed with FIN 46056) Course investigates techniques and financial tools used in fixed income markets. Students analyze interest rate and bond mathematics; review the structure of debt markets; and examine the mechanics, securities, derivatives and structured products tied to the credit and debt markets.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56059 APPLIED FINANCIAL MANAGEMENT STRATEGIES 3 Credit Hours
(Slashed with FIN 46059) Emphasis on financial policies and strategic financial decision-making with respect to both short-term and long-term financial management problems.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56061 REAL ESTATE FINANCE 3 Credit Hours
(Slashed with FIN 46061) Course covers basic real estate law, project evaluation, financing strategies, investment decision making and real estate capital markets.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56064 INTERNATIONAL BUSINESS FINANCE 3 Credit Hours
(Slashed with FIN 46064) Management of the finance function of an international company, including foreign exchange exposure management, foreign investment, short term and long term capital management and international accounting and taxation.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56067 ADVANCED PORTFOLIO ANALYSIS 3 Credit Hours
(Slashed with FIN 46067) Examines the principles, methods and techniques of portfolio analysis with emphasis on determination of portfolio risks and returns. Students evaluate political, ethical, and global forces affecting asset risks and returns.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56068 COMMERCIAL BANK MANAGEMENT 3 Credit Hours
(Slashed with FIN 46068) Financial management techniques applied to commercial banks. Focus on management of liquidity, investment and loan portfolios and capital structure.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56089 INTERNATIONAL FINANCE EXPERIENCE 3 Credit Hours
(Slashed with FIN 46089) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

FIN 56280 GOLDEN FLASH ASSET MANAGEMENT DIRECTOR 3 Credit Hours
Course examines the issues involved in the management and investment strategies of a live portfolio of financial assets. Students study asset allocation, portfolio monitoring and evaluation, portfolio rebalancing and investment analysis of an international equity and fixed income portfolio under the supervision of the instructor. Written and oral presentations are required.
Prerequisite: Graduate standing; and special approval from the department chair.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 66040 INTERNATIONAL ISSUES IN BANKING AND FINANCE 3 Credit Hours
Examines the financial theory behind foreign exchange rates, risk management through derivatives, international banking transactions, bank credit analysis, real estate valuation and ESG investing.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 66050 LAW AND ETHICS 2 Credit Hours
Course is an overview of laws and regulations with related ethical impacts affecting business management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

FIN 66060 MANAGERIAL FINANCE 2 Credit Hours
Study of managerial decisions of the firm from a financial point of view. Topics include valuation, project analysis, and sources and uses of funds.
Prerequisite: ACCT 63037; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

FIN 86061 THEORIES OF FINANCIAL DECISION-MAKING 3 Credit Hours
A study of optimal investment decisions under conditions of certainty and uncertainty.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 86062 SEMINAR IN CORPORATE FINANCE 3 Credit Hours
A study of the theory and empirical evidence from a global perspective regarding corporate financial management.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 86064 SEMINAR IN FINANCIAL INSTITUTIONS 3 Credit Hours
A study of the theory and empirical evidence from a global perspective regarding the intersection of banking and empirical corporate finance/financial accounting.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 86066 SEMINAR IN INVESTMENTS 3 Credit Hours
A study of the theory and empirical evidence from a global perspective regarding investment analysis, valuation and portfolio selection.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 86391 SEMINAR IN FINANCIAL TOPICS 3 Credit Hours
(Repeatable for credit) A study of the theory and empirical evidence from a global perspective regarding a topic of the faculty member's expertise.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

French (FR)

FR 10089 BASIC CONVERSATIONAL FRENCH (DIVG) (ELR) 2 Credit Hours
This course is offered to students who are studying in Paris and have little to no previous experience in French, and helps students acquire competencies in all four basic language skills: listening, speaking, reading and writing. The course has a practical focus on opportunities for self-expression in everyday situations (transportation, shopping, dining), as well as in professional contexts (internships, workplace, studio). The course develops intercultural competence through a comparative, critical approach to the study of language and culture. Students are encouraged to complete MCLS 23217 before their semester abroad.
Prerequisite: Special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FR 13201 ELEMENTARY FRENCH I 4 Credit Hours
An introduction to the French language in the context of Francophone cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

FR 13202 ELEMENTARY FRENCH II 4 Credit Hours
A continuation of the introduction to the French language in the context of Francophone cultures.
Prerequisite: FR 13201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

FR 20089 BASIC PROFESSIONAL FRENCH (DIVG) (ELR) 2 Credit Hours
This conversation course is offered to students enrolled in professionally-oriented programs during their semester or summer abroad in Paris. Students practice the four language skills (listening, speaking, reading and writing) with a focus on vocabulary and expressions relevant to professional contexts, including applying for positions, French workplace culture and reading and writing business documents. Comparative and critical analyses of French and American professional practices develop students' intercultural competence.
Prerequisite: FR 13202; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FR 23201 INTERMEDIATE FRENCH I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: FR 13202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

FR 23202 INTERMEDIATE FRENCH II 3 Credit Hours
This course develops oral and written communication skills in French, as well as reading and listening skills through practice with conversations about familiar topics and situations involving issues of current interest, reading informational and fictional texts, and listening to podcasts and watching videos in French. The course develops the ability to describe and narrate and go beyond memorized phrases in a variety of timeframes, including the past and the future.
Prerequisite: FR 23201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

FR 33091 FRENCH FOR THE PROFESSIONS SEMINAR 3 Credit Hours
(Repeatable for credit) Introduction to the special vocabulary for the professions; introduces the concept of language for special purposes and emphasizes the use of special vocabulary throughout conversations and texts for the professions (e.g. business, hospitality, international relations, healthcare).
Prerequisite: FR 23202.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 33095 SELECTED TOPICS IN FRENCH 3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Topic to be announced in the schedule of classes.
Prerequisite: FR 33211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 33211 FRENCH CONVERSATION 3 Credit Hours
A course designed to enhance students' oral proficiency through instruction in facilitating conversation and the discussion of culture-based texts. This course also include phonetics and diction components to enhance students' understanding of the language.
Prerequisite: FR 23202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 33212 FRENCH COMPOSITION 3 Credit Hours
A course designed to develop writing and reading skills, as well as to prepare students to read and write about French literature and culture.
Prerequisite: FR 23202; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 33215 FRENCH PHONETICS AND DICTION 3 Credit Hours
Study of sounds of French language and their relation to spelling; application of international phonetic alphabet to French. Study augmented by recordings.
Prerequisite: FR 23202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 33231 TRANSLATION PRACTICE: FRENCH 1 Credit Hour
Translation practice with French texts using principles and techniques learned in the lecture class. To be taken concurrently with TRST 30230.
Corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FR 33335 INTRODUCTION TO FRENCH THEATRE (ELR) (WIC) 3 Credit Hours
Evolution of French dramatic literature from the middle ages to the present. Readings of representative works with lectures analyses. In French.
Prerequisite: FR 33212.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

FR 33336 INTRODUCTION TO FRENCH POETRY (ELR) (WIC) 3 Credit Hours
Evolution of French poetry from the middle ages to the present. Readings of representative works with lectures analyses. In French.
Prerequisite: FR 33212.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

FR 33337 INTRODUCTION TO FRENCH LITERARY PROSE (ELR) (WIC) 3 Credit Hours
Masterpieces of French literary prose from the seventeenth century to the present. Readings of representative major works, lectures, analyses. In French. This course may be used to satisfy the WIC graduation requirement with approval of major department.
Prerequisite: FR 33212 or permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

FR 33421 FRENCH CIVILIZATION 3 Credit Hours
A survey of French history and culture from its beginnings to World War II. Taught in French.
Prerequisite: FR 33212.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43091 FRENCH SEMINAR 3 Credit Hours
(Repeatable for credit) (Slashed with FR 53091) Topic to be announced.
Prerequisite: One course from FR 33335 or FR 33336 or FR 33337.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 43093 VARIABLE TITLE WORKSHOP IN FRENCH 1-6 Credit Hours
(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of French studies.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

FR 43096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with French language, literature or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One French (FR) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

FR 43213 FRENCH COMPOSITION-ADVANCED 3 Credit Hours
(Slashed with FR 53213) French stylistics developed by analyses of literary extracts and practice in written expression.
Prerequisite: FR 33335 or FR 33336 or FR 33337 or FR 33421.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43216 CONTEMPORARY FRENCH CULTURE 3 Credit Hours
(Slashed with FR 53216) A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world.
Prerequisite: FR 33421; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43230 ADVANCED TRANSLATION PRACTICE: FRENCH (WIC) 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes French-to-English translation of selected texts in business, technology, medicine and law.
Prerequisite: FR 33231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

FR 43368 THE TWENTIETH-CENTURY FRENCH NOVEL 3 Credit Hours
Studies of selected 20th century French novels, with detailed study of the novel of one or several major writers or movements.
Prerequisite: 6 semester hours from the 33330-level.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43369 TWENTIETH-CENTURY FRENCH POETRY 3 Credit Hours
(Slashed with FR 53369) A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Albiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century.
Prerequisite: 6 semester hours from the FR 33330-level.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43370 THE TWENTIETH CENTURY FRENCH THEATRE 3 Credit Hours
(Slashed with FR 53370) Studies in French drama since 1900.
Prerequisite: 6 semester hours from the 33330-level.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43591 SEMINAR IN FRENCH CINEMA 3 Credit Hours
(Slashed with FR 53591)(Repeatable for credit) Topics for this course provide a history of French cinema from the early years of documentary and fantasy film through the 1930s, the Golden Age of French cinema, the French New Wave and contemporary trends in French and Francophone cinema. Students develop analytical and critical skills in "reading" film as an aesthetic work (matters of form, narrative and style) and a cultural artifact (social, economic and political functions).
Prerequisite: Two of the following courses: FR 33335 or FR 33336 or FR 33337 or FR 33421.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 53091 FRENCH SEMINAR 3 Credit Hours
(Repeatable for credit) (Slashed with FR 43091) Topic to be announced.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 53213 FRENCH COMPOSITION-ADVANCED 3 Credit Hours
French stylistics developed through analyses of literary extracts and practice in written expression.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53216 CONTEMPORARY FRENCH CULTURE 3 Credit Hours
(Slashed with FR 43216) A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53368 20TH-CENTURY FRENCH NOVEL 3 Credit Hours
Study of selected 20th-century French novels, with emphasis on one or several major writers or movements.
Prerequisite: 6 hours from 33330-level; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53369 20TH-CENTURY FRENCH POETRY 3 Credit Hours
(Slashed with FR 43369) A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Alpiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53370 20TH-CENTURY FRENCH THEATRE 3 Credit Hours
(Slashed with FR 43370) Studies in French drama since 1900.
Prerequisite: 6 hours from 33330-level; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53591 SEMINAR IN FRENCH CINEMA 3 Credit Hours
(Slashed with FR 43591)(Repeatable for credit) Topics for this course provide a history of French cinema from the early years of documentary and fantasy film through the 1930s, the Golden Age of French cinema, the French New Wave and contemporary trends in French and Francophone cinema. Students develop analytical and critical skills in "reading" film as an aesthetic work (matters of form, narrative and style) and a cultural artifact (social, economic and political functions).
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 63010 THE PRACTICE OF FRENCH TRANSLATION 2 Credit Hours
Students apply linguistic and communication science concepts to case studies of language mediation.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

FR 63091 SEMINAR IN FRENCH TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized translation projects currently of concern in the translation industry across the French-speaking world. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: FR 63010 and TRST 60010; graduate studies.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 63093 VARIABLE TITLE WORKSHOP IN FRENCH 1-6 Credit Hours
(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of French studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

FR 63098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with French language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

FR 63199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

FR 63240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into French will also be emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 63250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 63251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 63299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: FR 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

FR 63979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

Gender and Sexuality Studies (GSS)

GSS 10100 INTRODUCTION TO GENDER AND SEXUALITY STUDIES 3 Credit Hours
This course explores gender and sexuality studies from a multidisciplinary perspective. This course examines the cultural, social and biological constructs of sex and gender and interrogates the structures — governmental, familial, religious and social — that have informed historical and current thinking about sex and gender. This course includes global histories and definitions of gender and sexuality across time and place, and asks students to ponder: why is gender a primary organizing societal principle, and how do race, class, sexuality and disability status intersect with it?
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GSS 30500 METHODOLOGIES AND PRAXIS IN GENDER AND SEXUALITY STUDIES 3 Credit Hours
This course provides an arena for individual and group inquiry as well as conversations on methodologies and practices in gender studies pedagogy and research with emphases on multi-, inter- and transdisciplinary approaches. The topics reflect the crucial linkage between knowledge as we do knowledge, ethics as we embrace ethics, practices and traditions as they play and accrue within the real academic endeavors of the fields which converge and diverge in gender studies and its closely kindred variants. This course offers different methodological entrance points of use and value. At once, we study their deployment in actual practice. Moving beyond research practice, the course considers, too, the multifaceted praxes of scholars, teachers and cohorts of all kinds involved in the actional vision, mission, strategies, tactical planning and programmings, record-keeping, self-appraisals and archives at the heart of gender and sexuality studies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GSS 40450 GENDER AND SEXUALITY ROUNDTABLE 3 Credit Hours
This course takes an interdisciplinary approach in examining how gender and sexuality have been constructed through social, cultural, discursive and economic processes in hierarchizing social relations in society. The course is organized in a roundtable format that draws on the expertise of scholars and practitioners in the field who introduce students to contemporary issues and debates around gender and sexuality, both locally and globally, in a participatory forum. Students also gain insight on critical anti-racist, feminist and queer epistemologies and pedagogies in order to generate new knowledge and act in addressing gender and sexual inequality in their communities and wider society.
Prerequisite: GSS 10100.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GSS 40591 SEMINAR IN GENDER AND SEXUALITY STUDIES 3 Credit Hours
(Repeatable for credit) This course is required for all students in the Gender and Sexuality Studies major. The focus varies with instructor, providing students with advanced learning in gender and sexuality studies.
Prerequisite: GSS 10100.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

General Medicine (GMD)

GMD 80121 PHYSICAL ASSESSMENT AND DIAGNOSIS 3 Credit Hours
Physiology and physical assessment are coordinated to allow students to integrate the underlying physiologic processes with physical diagnostic findings. Physiology is the study of the basic concepts of normal organ and organ system function. Emphasis is placed on regulatory functions of each organ or system as well as the contribution of each to the whole body homeostasis. Physical diagnosis combines the patient's symptoms and signs to arrive at a diagnosis of disease. Focus is on total body examination using the traditional processes of inspection, palpation, percussion and auscultation.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Laboratory, Lecture
Contact Hours: .73 lecture, 2.27 lab
Grade Mode: Standard Letter

GMD 80205 INTEGRATIVE PHYSICAL DIAGNOSIS FOR INTERNAL MEDICINE 1 Credit Hour
This is an elective course designed to integrate physical assessment in preparation for training in the internal medicine specialties. This course prepares podiatric medical students to better evaluate patient concerns by symptom, utilize and improve their physical diagnostic skills, and optimize preparation for clinical training experiences in the internal medicine specialties. The course emphasizes concepts and integrates knowledge from traditional science disciplines in the context of clinical application.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

GMD 80216 MEDICINE I 4 Credit Hours
Course provides students a background in general medicine, including cardiovascular, pulmonary, renal, metabolic, hematologic, gastrointestinal, rheumatologic, immunologic and infectious diseases. The information gained by the student enables the podiatric student to be better prepared for parts I - III boards, a vital participant in their third- and fourth-year medicine rotations and prepare the student for success in their residency.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

GMD 80217 MEDICINE II 4 Credit Hours
Course provides students with a background in general medicine, including cardiovascular, pulmonary, renal, metabolic, hematologic, gastrointestinal, rheumatologic, immunologic and infectious diseases. The information gained by the student enables the podiatric student to be better prepared for parts I - III boards, a vital participant in their third- and fourth-year medicine rotations and prepare the student for success in their residency.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

GMD 80314 NEUROLOGY 2 Credit Hours
A comprehensive study of neurological diseases that are pertinent to treatment of the podiatric patient. Includes etiologies, diagnosis and treatment of the neurologic diseases.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

GMD 80315 DERMATOLOGY 2 Credit Hours
Series of lectures on dermatologic manifestations of systemic diseases. Includes the etiology, diagnosis, treatment and management of dermatologic disorders.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

GMD 80327 BEHAVIORAL MEDICINE 1 Credit Hour
Behavioral medicine is a series of lectures on major topics in the area including mood and anxiety disorders, alcoholism, substance abuse, psychoses and pain management. The presentations relate the relevance to the practice of podiatry.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

GMD 80328 WOMEN'S HEALTH 1 Credit Hour
Seminar covering important areas unique to women including pregnancy, contraception, infertility, cardiovascular health, osteoporosis and menopause.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

Geography (GEOG)

GEOG 10160 INTRODUCTION TO GEOGRAPHY 3 Credit Hours
A broad introduction to the study of geographic patterns on Earth. Course describes and explains spatial patterns of human activity and environmental processes, as well as the interaction between these two realms. Topics include weather, climate, landforms, human-environment interactions, population, culture, economy and politics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 16001 SOIL AND HORTICULTURAL MANAGEMENT 3 Credit Hours
Course provides students with an understanding of the relationship of soil, nutrients and fertilizers. Students understand how to properly plant trees, shrubs and flowers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 17063 WORLD GEOGRAPHY (DIVG) (KSS) 3 Credit Hours
An overview of the differences and similarities within and between regions of the world. Students study the impacts of spatial processes as they operate at regional, global and local scales. Course emphasizes the effects of globalization on culture, economies, geopolitical relationships, population and the environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

GEOG 17064 GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS) 3 Credit Hours
An overview of the differences and similarities within and between regions of the United States and Canada. Course focuses on social, economic, settlement and environmental patterns and processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

GEOG 20195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit) Course explores emerging topics in geography not covered in other existing courses. Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 21062 PHYSICAL GEOGRAPHY (KBS) 3 Credit Hours
Introduction to the study of the spatial characteristics of the Earth's physical environment, including how humans interact with it. Topics include weather and climate, vegetation, soils, ecosystems, landforms and land-formation processes, human impacts on Earth systems and human societal adaptations to the physical environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Social and Behavioral Sciences, Transfer Module Natural Sciences

GEOG 21063 PHYSICAL GEOGRAPHY LABORATORY (KBS) (KLAB) 1 Credit Hour
Course offers practical experience examining physical geographic processes, including the study and manipulation of map projections, Earth-sun relationships and experiments relating to the atmosphere, biosphere, lithosphere and hydrosphere. This laboratory course is taught in conjunction with the lecture and is designed to expand and reinforce concepts discussed in lecture through hands-on activities.
Corequisite: GEOG 21062.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

GEOG 22040 INTRODUCTION TO GLOBAL TOURISM (DIVG) 3 Credit Hours
(Cross-listed with RPTM 26060) Introduction to travel and tourism around the world. Students study tourism technologies and cultural and natural environments as attractions, benefits of travel, travel ethics and sustainable development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 22061 HUMAN GEOGRAPHY (DIVG) (KSS) 3 Credit Hours
Introduction to the spatial patterns and processes of human activity on Earth. Course examines how humans understand and interact with the world. Students consider how cities are structured; economic and cultural differences; the interaction between politics and identity; and the environmental consequences of human activities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

GEOG 31062 FUNDAMENTALS OF METEOROLOGY 3 Credit Hours
Analysis of weather elements emphasizing energy exchanges and controls and atmospheric circulation. Course highlights the methods of weather prediction and people's modification of weather.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 31064 CLIMATE AND THE ENVIRONMENT 3 Credit Hours
A study of the physical processes causing the distribution of world climates. Focus on local and urban climates, climatic change and societal impacts of climate.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 31070 POPULATION AND THE ENVIRONMENT 3 Credit Hours
Course examines the interrelations of population growth, resource depletion and the environment from a geographic perspective, including the principal themes of space and place.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 31080 GEOGRAPHY OF WINE 3 Credit Hours
Examines the physical environment of viticulture, including climate, soil and farm practices; the cultural tradition of wine making, consumption and trade; and regional production styles.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 31088 ENVIRONMENTAL GEOGRAPHY THROUGH FILM 3 Credit Hours
Cinema combines the art of storytelling and creation of landscape in such a way as to capture artifacts of the culture from which films emerge and as such, document in some way cultural, social and political history and experiences. In the course, films are used to examine environmental issues and processes in their social and cultural context.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 32023 FOOD AND PLACE (ELR) 3 Credit Hours
Course gives students a working knowledge in, and ability to understand and analyze, the intersections of food production, access and consumption. Course enables students to apply a critical geographic lens to compare the traditional food production system with alternatives at various scales, from local to global. Students focus on urban community gardening as one such alternative and personally interact with the Stark Campus' Flash's Food Garden as a case study in planning and preparing such a garden. Course combines lectures, discussions of scholarly publications, field trips, guest lectures and the hands-on experiential learning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GEOG 32080 POLITICS AND PLACE (DIVG) 3 Credit Hours
Spatial aspects of political behavior as manifested in boundary changes, the sizes of states, interstate relations and spatial organization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 34070 ECONOMIC GEOGRAPHY 3 Credit Hours
Examines economic patterns at global, national, regional and local scales. Focus of course goes beyond space to place, with the recognition that these patterns are socially produced and, as such, change over time. Students examine economic models and theories from a spatial perspective, but with a strong focus on real-life outcomes, debates and challenges.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 36065 CITIES AND URBANIZATION (DIVG) 3 Credit Hours
Course examines what is a city, how it has evolved over time under changing economic conditions, what is its internal structure and how this has been influenced by transportation developments. Special attention is paid to the causes and consequences of social diversity within the city and how cities differ throughout the world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37010 GEOGRAPHY OF OHIO 3 Credit Hours
Study of Ohio as a distinctive region, its environment and the varied characteristics of its population, its historical geographic development and contemporary patterns and problems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 37040 GEOGRAPHY OF AFRICA (DIVG) 3 Credit Hours
Course covers the complex geographical and cultural elements in Africa and demonstrates how the interaction of these elements has affected Africa's linkages to other continents, especially North America. Students discuss how this diversity has affected Africa's economic development and political evolution.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37045 GEOGRAPHY OF THE MIDDLE EAST 3 Credit Hours
The Middle East is a world region where the interactions between human and physical geographies have shaped its history, culture, economies and population patterns. The course uses a thematic approach to understand these interactions and how they shape the modern Middle East and its relationship with the wider world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 37066 GEOGRAPHY OF EUROPE (DIVG) 3 Credit Hours
Europe is unique in terms of its historical cultural influence around the world, but over recent decades, Europe has undergone significant change and experienced many struggles. The attempts to integrate have led to significant debates about just what it means to be "European." This course covers Europe using a systematic approach. Students study the physical, political, religious, linguistic, social and economic environments within Europe. In addition, students explore the issues that tie Europeans to each other and to the outside world. Students sum up many of these aspects with case studies of nations or regions that typify the issues that face Europe today.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37070 GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG) 3 Credit Hours
Analysis of the physical and cultural geography of East and Southeast Asia, extending from Japan and China to Burma and Indonesia.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37072 GEOGRAPHY OF CHINA 3 Credit Hours
Provides an overview of China's physical environment, natural and human resources, social, economic and cultural characteristics, and its roles in today's global environment. Offers a comprehensive view of China's historical development and contemporary trends of growth and how it impacts the United States.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 37084 GEOGRAPHY OF SOUTH AMERICA (DIVG) 3 Credit Hours
Overview of region and survey of each country emphasizes systematic similarities and differences in physical environment, culture, economic development, population, land use, politics and history.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37085 GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG) 3 Credit Hours
Latin America and the Caribbean is a traditional geographic region that has been uniquely shaped through multiple physical and cultural factors. Course takes a thematic approach to understanding the interplay of these factors and how they shape modern Latin America-Caribbean identity; the diversity of the environment and culture within the region; and how the region relates to the rest of the world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37095 SPECIAL TOPICS IN REGIONAL GEOGRAPHY 3 Credit Hours
(Repeatable for a maximum of 3 times) Special topics course in a specific region of the world. Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 39002 STATISTICAL METHODS IN GEOGRAPHY 3 Credit Hours
Explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association and regression analysis. Geographic applications are emphasized.
Prerequisite: MATH 10041 or MATH 11009 or MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 39070 MAPPING, SPACE AND POWER 3 Credit Hours
Maps serve as visual representations of space. They encapsulate the intentions and perspectives of their creators and acquire new functionalities as people interpret and use them for various purposes. This course focuses on critical cartography as it analyzes the power and influence wielded by maps. Students explore maps, the process of map creation and map interpretation. They also delve into how mapping activities are inherently political and inseparable from power dynamics. The course examines the historical and cultural development of mapping with a focus on how maps perpetuate existing power structures through their creation, distribution and interpretation. At the same time, students also focus on the power of maps to disrupt and to promote social and environmental justice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 40093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-6 Credit Hours
(Repeatable for credit) Workshop topics vary per course offering.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 40191 SEMINAR IN GEOGRAPHY (ELR) (WIC) 3 Credit Hours
(Repeatable for credit) Advanced study of the historical development of geography and of contemporary issues in the field. Emphasis on methods of geographic investigation and presentation of results.
Prerequisite: Geography major; and junior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GEOG 40192 PRACTICUM IN GEOGRAPHY (ELR) 1-3 Credit Hours
(Repeatable for credit) Practical experience in using or teaching geographic techniques and/or problem-solving. Faculty supervise the practicum.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

GEOG 40195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 50195 and GEOG 70195) Topics vary according to research interest of the instructor.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 40199 CAPSTONE IN APPLIED GEOGRAPHY (ELR) (WIC) 3 Credit Hours
This is a capstone course in the geography major. The course consists of the development of a major geography research project of the student's choice (with instructor approval), including the development of a problem statement, methodology and final report, along with a presentation of the research project and its conclusions. The central component of the course is a capstone project that students complete by the end of the course. The capstone project allows the student to apply the skills and knowledge they gained through their experiences in the geography major. The project demonstrates their ability to analyze a real-world problem using GIS and come up with a solution based upon that analysis. This may consist of a project tied into an internship or job that contributes significantly to their future professional work. For others, this project provides a demonstration to potential employers of their GIS skills.
Prerequisite: Special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GEOG 40285 FIELD EXPERIENCE IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 50285 and GEOG 70285) This course introduces students to field methods used in human and physical geography. Students spend most of the class hours outside investigating important local resources like the Cuyahoga Valley National Park, where they are introduced to geographic approaches to real world problems. Specific field methods may include: landscape interpretation; atmospheric monitoring; hydrologic sampling; terrestrial habitat analyses; human and nature interactions; food desert investigation; urban green space ratios; and traffic data collection.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 40392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS (ELR) 1-6 Credit Hours
(Repeatable for credit) Students undertake a practicum to examine newly emerging geographic topics and techniques.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

GEOG 40492 STUDY AWAY IN GEOGRAPHY (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with GEOG 50492 and GEOG 70492) Examination of geographic landscapes in the field.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GEOG 40996 INDIVIDUAL INVESTIGATION IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit) Students undertake an investigation or research on specific geographical problems.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

GEOG 41051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours
(Slashed with GEOG 51051 and GEOG 71051) This course is a study of natural disasters, the physical processes responsible for hazards, and their effects on the physical and social environment. It focuses on the science of natural hazards and how we can use our knowledge of these natural events and processes to reduce the occurrence or mitigate the effects of natural disasters. Natural disasters include earthquakes, volcanoes, tsunamis, landslides, thunderstorms and tornadoes, heatwaves and droughts, floods, coastal hazards, and wildfires. This course is taught through lecture and analysis of numerous case studies of global natural disasters.
Prerequisite: Junior standing or above.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41065 DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 51065 and GEOG 71065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) to provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.
Prerequisite: GEOG 31062 or GEOG 31064.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41066 GLOBAL CLIMATE CHANGE 3 Credit Hours
(Slashed with GEOG 51066 and GEOG 71066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41073 CONSERVATION OF NATURAL RESOURCES 3 Credit Hours
(Slashed with GEOG 51073 and GEOG 71073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41074 RESOURCE GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 51074 and GEOG 71074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41077 WATER AND SOCIETY 3 Credit Hours
(Slashed with GEOG 51077 and GEOG 71077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion based with limited lectures to ensure students understand key concepts.
Prerequisite: Junior standing or above.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41082 GEOGRAPHY OF SOILS 3 Credit Hours
(Slashed with GEOG 51082 and GEOG 71082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.
Prerequisite: ESCI 11040 or GEOG 21062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for a maximum 10 times)(Slashed with GEOG 51195 and GEOG 71195) Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 41800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours
(Slashed with GEOG 51800 and GEOG 71800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42040 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours
(Cross-listed with RPTM 46000, HTM 56000) Investigation of travel and tourism development using an interdisciplinary social science approach.
Prerequisite: RPTM 36060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42052 HEALTH GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 52052 and GEOG 72052) This course examines health/medical geography, a subdiscipline of both public health and geography, that focuses on geographic aspects of health and disease. The field deals with human-environment interactions and their influence on human health. This course offers historical context to geography and health and covers three major approaches to health/medical geographic scholarship: ecological approaches, which systematically analyzes relationships between people and their environments; social approaches, including political economy and socio-behavioral approaches; and spatial approaches.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours
(Slashed with GEOG 52053 and GEOG 72053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 52064 and GEOG 72064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours
(Slashed with GEOG 52070 and GEOG 72070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.
Prerequisite: Junior standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 42195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for maximum 10 times)(Slashed with GEOG 52195 and 72195) Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 43070 WICKED PROBLEMS: TACKLING GLOBAL ISSUES IN THE 21ST CENTURY 3 Credit Hours
(Cross-listed with ESCI 43001 and POL 43001) This course provides an overview and analysis of the United Nations Sustainable Development Goals (SDG), as well as strategies that can be used for tackling them. The SDGs address the most serious problems faced by humankind today. These include poverty, hunger, inequality, climate change, economic development and environmental sustainability. A key characteristic of the SDGs is that they are known as “wicked problems.” Wicked problems are complex issues that resist conventional approaches to problem solving, and for which existing solutions often create unintended consequences that only make the original problem worse. Emphasis is placed on problems of collective action, evidence-based public policies and interdisciplinary approaches to addressing global issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 44010 GEOGRAPHIES OF GLOBAL DEVELOPMENT 3 Credit Hours
(Slashed with GEOG 54010 and GEOG 74010) This course examines the political economy of development. More narrowly, we examine the historical geography of agricultural transformations and capitalist development. We draw from case studies from different regions to interpret differential patterns of development and political-economic change. Emphasis is placed on the creation, structure, and operation of the capitalist agro-food system and its impact on small-scale farmers and landless rural workers.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 45085 URBAN TRANSPORTATION 3 Credit Hours
(Slashed with GEOG 55085 and GEOG 75085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 46060 FOOD SECURITY AND SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 56060 and GEOG 76060) This course explores the concept of food security from the standpoint of agrarian change, food regimes, agroecology, and development. In the process, we examine the various frameworks that have grounded academic and popular understandings of famine and food security, including Malthusian, environmental determinism, Food Availability Decline (FAD), entitlements, and historical materialism.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 46070 URBAN AND REGIONAL PLANNING 3 Credit Hours
(Slashed with GEOG 56070 and GEOG 76070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 46080 URBAN SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 56080 and GEOG 76080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.
Prerequisite: None.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 46081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 56081 and GEOG 76081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.
Prerequisite: Junior standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 46092 INTERNSHIP IN GEOGRAPHY AND PLANNING (ELR) 3-6 Credit Hours
(Repeatable for credit) Pre-professional work experience in local, regional and environmental planning agencies and in business designed to utilize and develop academic skills. Registration into the course is competitive based on student's skills and interests and on number of positions available.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GEOG 49070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours
(Slashed with GEOG 59070 and GEOG 79070) Introduction to theories and methods for geographic data processing, including data capture and input data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

GEOG 49072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours
(Slashed with GEOG 59072 and GEOG 79072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49073 ENVIRONMENTAL DATA ANALYSIS IN R 3 Credit Hours
(Slashed with GEOG 59073 and GEOG 79073) The course aims to teach students basic concepts, skills, and tools for working with data in R. R is an open-source (free) programming language for statistical computing and graphics that statisticians widely use, scientists, data miners, and geographers. The number of R users grows exponentially each year, contributing to a massive online community and countless free tutorials. This is a hands-on course designed for students with no programming experience. However, this course does not teach statistics: understanding of basic statistics and common statistical tests is assumed and prior coursework in statistics is encouraged. With the knowledge gained in this course, students will be ready to undertake their own data analysis in R and increase their efficiency through reproducible workflows.
Prerequisite: BSCI 40224 or GEOG 39002 or MATH 10041.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours
(Slashed with GEOG 59075 and GEOG 79075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49076 SPATIAL PROGRAMMING 3 Credit Hours
(Slashed with GEOG 59076 and GEOG 79076) Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours
(Slashed with GEOG 59078 and GEOG 79078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 59080 and GEOG 79080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 59085 and GEOG 79085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49098 RESEARCH IN GEOGRAPHIC INFORMATION TECHNOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Students undertake individual research on a topic in geographic information technology.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

GEOG 49162 CARTOGRAPHY 3 Credit Hours
(Slashed with GEOG 49162 and GEOG 79162) Introduces map design principles including base maps, typography, generalization, symbols, color scheme, and classification. Builds on students' experiences with GIS to focus on applying map design principles using geospatial and graphic design software to produce effective print and static web maps.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours
(Repeatable for maximum 10 times)(Slashed with GEOG 59195 and GEOG 79195) Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 49198 RESEARCH IN CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS (ELR) 1-3 Credit Hours
(Repeatable for credit) Students undertake individual research on a topic in cartography or geographic information science (GIS) under the direction of a faculty member.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GEOG 49230 REMOTE SENSING 3 Credit Hours
(Cross-listed with ESCI 42030)(Slashed with ESCI 52030, ESCI 72030, GEOG 59230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 50093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-5 Credit Hours
(Repeatable for credit)Variable title workshop in geography.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 50195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 40195 and GEOG 70195) Topics vary according to research interest of the instructor.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 50285 FIELD EXPERIENCE IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 40285 and GEOG 70285) This course introduces students to field methods used in human and physical geography. Students spend most of the class hours outside investigating important local resources like the Cuyahoga Valley National Park, where they are introduced to geographic approaches to real world problems. Specific field methods may include: landscape interpretation; atmospheric monitoring; hydrologic sampling; terrestrial habitat analyses; human and nature interactions; food desert investigation; urban green space ratios; and traffic data collection.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 50392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS 1-6 Credit Hours
(Repeatable for credit) Students undertake a practicum examining newly emerging geographic topics and techniques.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 50492 STUDY AWAY IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for maximum 6 attempts)(Slashed with GEOG 40492 and GEOG 70492) Examination of geographic landscapes in the field.
Prerequisite: Graduate standing.
Schedule Type: Field Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter

GEOG 51051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours
(Slashed with GEOG 41051 and GEOG 71051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations.Students learn through the analysis of numerous case studies of natural disasters.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51065 DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 41065 and GEOG 71065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) to provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51066 GLOBAL CLIMATE CHANGE 3 Credit Hours
(Slashed with GEOG 41066 and GEOG 71066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51073 CONSERVATION OF OUR NATURAL RESOURCES 3 Credit Hours
(Slashed with GEOG 41073 and GEOG 71073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51074 RESOURCE GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 41074 and GEOG 71074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51077 WATER AND SOCIETY 3 Credit Hours
(Slashed with GEOG 41077 and GEOG 71077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion-based with limited lectures to ensure students understand key concepts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51082 GEOGRAPHY OF SOILS 3 Credit Hours
(Slashed with GEOG 41082 and GEOG 71082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for a maximum 10 times)(Slashed with GEOG 41195 and GEOG 71195) Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 51800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours
(Slashed with GEOG 41800 and GEOG 71800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52052 HEALTH GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 42052 and GEOG 72052) This course examines health/medical geography, a subdiscipline of both public health and geography, that focuses on geographic aspects of health and disease. The field deals with human-environment interactions and their influence on human health. This course offers historical context to geography and health and covers three major approaches to health/medical geographic scholarship: ecological approaches, which systematically analyzes relationships between people and their environments; social approaches, including political economy and socio-behavioral approaches; and spatial approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours
(Slashed with GEOG 42053 and GEOG 72053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 42064 and GEOG 72064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours
(Slashed with GEOG 42070 and GEOG 72070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for a maximum 10 times)(Slashed with GEOG 42195 and GEOG 72195) Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 54010 GEOGRAPHIES OF GLOBAL DEVELOPMENT 3 Credit Hours
(Slashed with GEOG 44010 and GEOG 74010) This course examines the political economy of development. More narrowly, we examine the historical geography of agricultural transformations and capitalist development. We draw from case studies from different regions to interpret differential patterns of development and political-economic change. Emphasis is placed on the creation, structure, and operation of the capitalist agro-food system and its impact on small-scale farmers and landless rural workers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 55085 URBAN TRANSPORTATION 3 Credit Hours
(Slashed with GEOG 45085 and GEOG 75085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 56060 FOOD SECURITY AND SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 46060 and GEOG 76060) This course explores the concept of food security from the standpoint of agrarian change, food regimes, agroecology, and development. In the process, we examine the various frameworks that have grounded academic and popular understandings of famine and food security, including Malthusian, environmental determinism, Food Availability Decline (FAD), entitlements, and historical materialism.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 56070 URBAN AND REGIONAL PLANNING 3 Credit Hours
(Slashed with GEOG 46070 and GEOG 76070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 56080 URBAN SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 46080 and GEOG 76080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 56081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 46081 and GEOG 76081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 56092 INTERNSHIP IN GEOGRAPHY AND PLANNING 3-6 Credit Hours
(Repeatable for credit) Pre-professional work experience in local, regional and environmental planning agencies and private business designed to utilize and develop academic skills.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

GEOG 59070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours
(Slashed with GEOG 49070 and GEOG 79070) Introduction to theories and methods for geographic data processing, including data capture and input, data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

GEOG 59071 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I 3 Credit Hours
Introduction to fundamental concepts and methods for geographic data analysis, including data capture and input, data storage and management, and data analysis and display. Emphasis is on applications of GIS software to real world issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours
(Slashed with GEOG 49072 and GEOG 79072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59073 ENVIRONMENTAL DATA ANALYSIS IN R 3 Credit Hours
(Slashed with GEOG 49073 and GEOG 79073) The course aims to teach students basic concepts, skills, and tools for working with data in R. R is an open-source (free!) programming language for statistical computing and graphics that statisticians widely use, scientists, data miners, and geographers. The number of R users grows exponentially each year, contributing to a massive online community and countless free tutorials. This is a hands-on course designed for students with no programming experience. However, this course does not teach statistics: understanding of basic statistics and common statistical tests is assumed and prior coursework in statistics is encouraged. With the knowledge gained in this course, students will be ready to undertake their own data analysis in R and increase their efficiency through reproducible workflows.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours
(Slashed with GEOG 49075 and GEOG 79075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59076 SPATIAL PROGRAMMING 3 Credit Hours
(Slashed with GEOG 49076 and GEOG 79076) Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena.
Prerequisite: GEOG 59070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours
(Slashed with GEOG 49078 and GEOG 79078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 49080 and GEOG 79080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.
Prerequisite: GEOG 59070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59081 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II 3 Credit Hours
Advanced theories and techniques for handling and analyzing geographic data, analytical functions and modelling approaches. Topics covered include: two- and three-dimension processing of geographic information, detection of geographic patterns through spatial analysis and spatial statistics, network analysis, modeling of geographic processes and an overview of GIS programming tools.
Prerequisite: GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 49085 and GEOG 79085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59162 CARTOGRAPHY 3 Credit Hours
(Slashed with GEOG 49162 and GEOG 79162) Introduces map design principles including base maps, typography, generalization, symbols, color scheme, and classification. Builds on students' experiences with GIS to focus on applying map design principles using geospatial and graphic design software to produce effective print and static web maps.
Prerequisite: GEOG 49070 or GEOG 59070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours
(Repeatable for maximum 10 times)(Slashed with GEOG 49195 and GEOG 79195).Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 59230 REMOTE SENSING 3 Credit Hours
(Cross-listed with ESCI 52030)(Slashed with ESCI 42030, ESCI 72030, GEOG 49230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 60191 SEMINAR IN TOPICAL GEOGRAPHY 3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 70191) Seminar in one of the major topical fields in geography. Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: GEOG 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 60800 SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT 3 Credit Hours
(Slashed with GEOG 70800) Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 60900 QUALITATIVE RESEARCH METHODS IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 70900) Introduces qualitative methods and research applications, along with methodological considerations of these approaches. Students consider the epistemology of qualitative research and learn the mechanics of conducting this research in the field. In class, these methods are put into practice and the results are put into writing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 60996 RESEARCH IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit) Students undertake individual research problems in geography.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

GEOG 60998 RESEARCH I 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

GEOG 61998 RESEARCH II 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 67091 SEMINAR IN REGIONAL GEOGRAPHY 3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 77091) Variable content seminar on one of the major regions of world.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 69004 QUANTITATIVE METHODS IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 79004) Explores the methods and applications of some of the most common statistics found in geographic work. It explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association, correlation and regression analysis, and principal components analysis. Theory and execution of these methods are equally emphasized, and applications to geographic problems are examined within each theme.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69007 SPATIOTEMPORAL ANALYTICS 3 Credit Hours
Course equips students with essential spatiotemporal thinking and technical skills in mapping, analyzing, visualizing, communicating and simulating the spatiotemporal data. The software ArcGIS and free packages in R and Netlogo are used in the instruction.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69073 GEOGRAPHIC INFORMATION SCIENCE: GLOBAL HEALTH 3 Credit Hours
Emerging and re-emerging diseases in non-developed countries pose one of the greatest health challenges of current times. Geospatial approaches often provide one of the only information sources in data poor and challenging environments. The course exposes students to these health issues and disease environments through varied case studies, while simultaneously highlighting the geospatial methods and approaches used to understand and combat disease.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69074 GEOGRAPHIC INFORMATION SCIENCE: SPATIAL ANALYSIS FOR HEALTH GEOGRAPHY 3 Credit Hours
Spatial analysis is used to verify patterns and associations in health data maps. These results can then be used to further hone the scientific question, or help design an intervention strategy. Course introduces students to spatial analytical approaches used by health researchers and practitioners in the exploratory investigation of health data. Students are exposed to new mobile technologies that can be used to enrich more traditional spatial data sources.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69079 ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
GPS and environmental spatial data are commonly used in a variety of management and assessment plans in fields related to environmental science to achieve effective decision making and environmental resource management. Course focuses on techniques used to process, manage, visualize and analyze environmental data using GIS. Students learn how to collect and process GPS and online sources of geospatial data and how to employ techniques such as suitability modeling, measuring distributions and calculating landscape metrics.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69082 CYBERGIS 3 Credit Hours
(Slashed with GEOG 79082) Explores cyberinfrastructure-enabled geographic information systems (i.e. cyberGIS) and related technologies including a broad introduction to the use, design, and development of cyberinfrastructure, spatial data infrastructures, geographic information services, and web-enabled mapping technologies. Situates CyberGIS in the broader context of geographic information science focusing on the how synthesizing computational thinking and spatial thinking influence methodological approaches.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69083 GEODATABASES 3 Credit Hours
Course explores the essential concepts and skills needed to efficiently create a geodatabase, add data to it and realistically model the real-world spatial relationships inherent to the data. Students learn about geodatabase features that help ensure data integrity over time and about storing and managing geographic data.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69164 CARTOGRAPHIC DESIGN 3 Credit Hours
Introduces students to the principles of map design and the art of map construction. Students will become familiar with the cartographic process, especially as they apply basic mapping concepts such as scale, projections, typography, generalization, symbols, color scheme, and classification to the design and production of thematic maps. Students will also learn how to describe and manipulate spatial data and how to select an appropriate map type for a given task and data set. This course builds on students' experiences with GIS to focus on the design needed to disseminate information beyond users of the software and produce effective print and web maps. Class exercises will provide hands-on experience in using GIS and graphic software packages. Principles and experiences learned in class will equip students with the fundamental skills necessary to effectively communicate graphic information through maps.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69231 ENVIRONMENTAL REMOTE SENSING 3 Credit Hours
Introduction to the basic principles of environmental remote sensing, including the electromagnetic spectrum, spectral properties of Earth objects, aerial photograph analysis and interpretation and satellite image analysis and interpretation. Special focus will be on environmental applications, especially as they pertain to understanding vegetation, water, and land use mapping and impacts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69392 PRACTICUM IN GEOGRAPHIC INFORMATION SCIENCE 6 Credit Hours
Culminating experience for students in the MGISc program. It will be taken in place of two CarouselSpecialist courses on the schedule for the student's final semester. It is designed to provide practical experience in the application of MGISc course content in real-world professional settings. Students will select a professional project in consultation with their employer and program faculty and then will design, implement, and report on their activities in a culminating professional paper.
Prerequisite: GEOG 59070 or GEOG 59071 and GEOG 59080 or GEOG 59081 and GEOG 69164; and two additional graduate-level GEOG courses; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter-IP

GEOG 69701 RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA 3 Credit Hours
Critical discussion of techniques of geographic research and preparation and presentation of research papers.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 70093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-5 Credit Hours
(Repeatable for credit)Variable title workshop in geography.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 70191 SEMINAR IN TOPICAL GEOGRAPHY 3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 60191) Seminar in one of the major topical fields in geography. Topics vary per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 70195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 40195 and GEOG 50195) Topics vary according to research interest of the instructor.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 70285 FIELD EXPERIENCE IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 40285 and GEOG 50285) This course introduces students to field methods used in human and physical geography. Students spend most of the class hours outside investigating important local resources like the Cuyahoga Valley National Park, where they are introduced to geographic approaches to real world problems. Specific field methods may include: landscape interpretation; atmospheric monitoring; hydrologic sampling; terrestrial habitat analyses; human and nature interactions; food desert investigation; urban green space ratios; and traffic data collection.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 70392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS 1-6 Credit Hours
(Repeatable for credit) Students undertake a practicum in examining newly emerging geographic topics and techniques.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 70492 STUDY AWAY IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for maximum 6 attempts)(Slashed with GEOG 40492 and GEOG 50492) Examination of geographic landscapes in the field.
Prerequisite: Doctoral standing.
Schedule Type: Field Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter

GEOG 70800 SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT 3 Credit Hours
(Slashed with GEOG 60800) Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 70900 QUALITATIVE RESEARCH METHODS IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 60900) Introduces qualitative methods and research applications, along with methodological considerations of these approaches. Students consider the epistemology of qualitative research and learn the mechanics of conducting this research in the field. In class, these methods are put into practice and the results are put into writing.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours
(Slashed with GEOG 41051 and GEOG 51051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations.Students learn through the analysis of numerous case studies of natural disasters.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71052 GLACIERS AND GLACIATION 3 Credit Hours
Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71065 DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 41065 and GEOG 51065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) to provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71066 GLOBAL CLIMATE CHANGE 3 Credit Hours
(Slashed with GEOG 41066 and GEOG 51066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71073 CONSERVATION OF OUR NATURAL RESOURCES 3 Credit Hours
(Slashed with GEOG 41073 and GEOG 51073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71074 RESOURCE GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 41074 and GEOG 51074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71077 WATER AND SOCIETY 3 Credit Hours
(Slashed with GEOG 41077 and GEOG 51077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion-based with limited lectures to ensure students understand key concepts.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71082 GEOGRAPHY OF SOILS 3 Credit Hours
(Slashed with GEOG 41082 and GEOG 51082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for a maximum 10 times)(Slashed with GEOG 41195 and GEOG 51195) Topics vary per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 71800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours
(Slashed with GEOG 41800 and GEOG 51800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72052 HEALTH GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 42052 and GEOG 52052) This course examines health/medical geography, a subdiscipline of both public health and geography, that focuses on geographic aspects of health and disease. The field deals with human-environment interactions and their influence on human health. This course offers historical context to geography and health and covers three major approaches to health/medical geographic scholarship: ecological approaches, which systematically analyzes relationships between people and their environments; social approaches, including political economy and socio-behavioral approaches; and spatial approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours
(Slashed with GEOG 42053 and GEOG 52053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 42064 and GEOG 52064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours
(Slashed with GEOG 42070 and GEOG 52070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for maximum of 10 times)(Slashed with GEOG 42195 and GEOG 52195) Topics vary per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 74010 GEOGRAPHIES OF GLOBAL DEVELOPMENT 3 Credit Hours
(Slashed with GEOG 44010 and GEOG 54010) This course examines the political economy of development. More narrowly, we examine the historical geography of agricultural transformations and capitalist development. We draw from case studies from different regions to interpret differential patterns of development and political-economic change. Emphasis is placed on the creation, structure, and operation of the capitalist agro-food system and its impact on small-scale farmers and landless rural workers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 75085 URBAN TRANSPORTATION 3 Credit Hours
(Slashed with GEOG 45085 and GEOG 55085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 76060 FOOD SECURITY AND SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 46060 and GEOG 56060) This course explores the concept of food security from the standpoint of agrarian change, food regimes, agroecology, and development. In the process, we examine the various frameworks that have grounded academic and popular understandings of famine and food security, including Malthusian, environmental determinism, Food Availability Decline (FAD), entitlements, and historical materialism.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 76070 URBAN AND REGIONAL PLANNING 3 Credit Hours
(Slashed with GEOG 46070 and GEOG 56070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 76080 URBAN SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 46080 and GEOG 56080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 76081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 46081 and GEOG 56081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 77091 SEMINAR IN REGIONAL GEOGRAPHY 3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 67091)Variable content seminar on one of the major regions of world.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 79004 QUANTITATIVE METHODS IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 69004) Explores the methods and applications of some of the most common statistics found in geographic work. It explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association, correlation and regression analysis, and principal components analysis. Theory and execution of these methods are equally emphasized, and applications to geographic problems are examined within each theme.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours
(Slashed with GEOG 49070 and GEOG 59070) Introduction to theories and methods for geographic data processing, including data capture and input, data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

GEOG 79072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours
(Slashed with GEOG 49072 and GEOG 59072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79073 ENVIRONMENTAL DATA ANALYSIS IN R 3 Credit Hours
(Slashed with GEOG 49073 and GEOG 49073) The course aims to teach students basic concepts, skills, and tools for working with data in R. R is an open-source (free!) programming language for statistical computing and graphics that statisticians widely use, scientists, data miners, and geographers. The number of R users grows exponentially each year, contributing to a massive online community and countless free tutorials. This is a hands-on course designed for students with no programming experience. However, this course does not teach statistics: understanding of basic statistics and common statistical tests is assumed and prior coursework in statistics is encouraged. With the knowledge gained in this course, students will be ready to undertake their own data analysis in R and increase their efficiency through reproducible workflows.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours
(Slashed with GEOG 49075 and GEOG 59075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.
Prerequisite: GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79076 SPATIAL PROGRAMMING 3 Credit Hours
(Slashed with GEOG 49076 and GEOG 59076) Examination of the design, development and use of geographic information technologies with computer programming to model process and visualize geographic phenomena.
Prerequisite: GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours
(Slashed with GEOG 49078 and GEOG 59078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.
Prerequisite: GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 49080 and GEOG 59080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.
Prerequisite: GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79082 CYBERGIS 3 Credit Hours
(Slashed with GEOG 69082) Explores cyberinfrastructure-enabled geographic information systems (i.e. cyberGIS) and related technologies including a broad introduction to the use, design, and development of cyberinfrastructure, spatial data infrastructures, geographic information services, and web-enabled mapping technologies. Situates cyberGIS in the broader context of geographic information science focusing on the how synthesizing computational thinking and spatial thinking influence methodological approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 49085 and GEOG 59085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79162 CARTOGRAPHY 3 Credit Hours
(Slashed with GEOG 49162 and GEOG 59162) Study of the design and production of dynamic, interactive, multimedia web-based mapping. Data acquisition and processing, symbolization, composition, text and color utilization.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours
(Repeatable for maximum 10 times)(Slashed with GEOG 49195 and GEOG 59195). Topics vary per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 79230 REMOTE SENSING 3 Credit Hours
(Cross-listed with ESCI 72030)(Slashed with ESCI 42030, ESCI 52030, GEOG 49230, GEOG 59230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: GEOG 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 80998 RESEARCH I 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

GEOG 81091 RESEARCH IN PHYSICAL RESOURCES 2,3 Credit Hours
(Repeatable for credit)Research on basic processes related to formation of physical environment. Investigation of significant variables in resource utilization relevant to regional planning and development.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP

GEOG 81998 RESEARCH II 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 89092 GRADUATE FIELD CAMP 5 Credit Hours
(Repeatable for credit) Field research problems involving individual investigation of specific urban or rural region.
Prerequisite: Doctoral standing.
Schedule Type: Field Experience
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 89098 RESEARCH IN CARTOGRAPHY 1-3 Credit Hours
(Repeatable for credit)Investigations into function of map as medium of scientific expression; problem of map design in relation to human perception of graphically expressed spatial information.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter

German (GER)

GER 11201 ELEMENTARY GERMAN I 4 Credit Hours
An introduction to the German language in the context of the cultures of German-speaking lands.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GER 11202 ELEMENTARY GERMAN II 4 Credit Hours
A continuation of the introduction to the German language in the context of the cultures of German-speaking lands.
Prerequisite: GER 11201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GER 21201 INTERMEDIATE GERMAN I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: GER 11202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GER 21202 INTERMEDIATE GERMAN II 3 Credit Hours
Continuation of GER 21201.
Prerequisite: GER 21201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GER 31095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced in schedule of classes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GER 31201 INTENSIVE GERMAN GRAMMAR 3 Credit Hours
A systematic approach to German grammar and syntax.
Prerequisite: GER 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31211 GERMAN COMPOSITION AND CONVERSATION 3 Credit Hours
Grammar review and practice in writing and speaking German.
Prerequisite: GER 21202; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31215 GERMAN PHONETICS AND DICTION 3 Credit Hours
Study of the German sound system with emphasis on pronunciation and intonation. Reading and performance of a series of skits and short plays.
Prerequisite: GER 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31231 TRANSLATION PRACTICE: GERMAN 1 Credit Hour
Translation practice with German texts using principles and techniques learned in the lecture class.
Corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

GER 31240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: GERMAN 3 Credit Hours
Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings.
Prerequisite: GER 31211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31303 INTRODUCTION TO GERMAN LITERATURE 3 Credit Hours
Introduction to German literature and textual analysis.
Prerequisite: GER 21202 and GER 31201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31421 GERMAN CIVILIZATION 3 Credit Hours
A survey of German history and intellectual life to 1918; taught in German.
Prerequisite: Six hours upper division german courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) (Slashed with GER 51095) Topic announced in schedule of classes.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

GER 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with German language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One German (GER) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

GER 41211 ADVANCED GERMAN COMPOSITION AND CONVERSATION 3 Credit Hours
Advanced practice in speaking and writing German.
Prerequisite: GER 31211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41216 CONTEMPORARY GERMAN CULTURE (ELR) (WIC) 3 Credit Hours
(Slashed with GER 51216) A study of selected sociological, political, cultural and economic issues in contemporary German- speaking countries using readings, films and legal documents as the basis for discussions. Taught in German.
Prerequisite: Six hours of upper division german courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GER 41230 ADVANCED TRANSLATION PRACTICE: GERMAN (ELR) (WIC) 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes German-to-English translation of selected texts in business, technology, medicine and law.
Prerequisite: GER 31231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GER 41240 BUSINESS AND SPECIAL TEXTS: GERMAN 3 Credit Hours
Survey of the typical text types of business in the German culture and language. Practice sessions focus on reading and understanding specialized texts, and on the translation and composition of selected special texts in German.
Prerequisite: GER 31211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41323 GERMAN FAIRY TALES 3 Credit Hours
(Slashed with GER 51323) An investigation in German fairy tales, from the Brothers Grimm to the literary fairy tales of later German authors.
Prerequisite: GER 31201 and GER 31211; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41324 GERMAN LITERATURE FOR CHILDREN AND ADOLESCENTS 3 Credit Hours
(Slashed with GER 51324) An investigation into German literature for children and adolescents from the Middle Ages to modernity.
Prerequisite: GER 31201 and GER 31211; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41330 TWENTIETH-CENTURY GERMAN AUTHORS (ELR) (WIC) 3 Credit Hours
(Slashed with GER 51330) A survey of the major movements and authors of the twentieth century.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GER 41334 THE GERMAN NOVELLA 3 Credit Hours
(Slashed with GER 51334) Development of the German novella from the eighteenth century to the present. Readings of major works lectures analyses taught in German.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41340 HISTORY OF GERMAN LITERATURE TO 1750 3 Credit Hours
A history of the development of German literature from the Germanic tribes through the Age of Enlightenment (the first half of the eighteenth century).
Prerequisite: GER 31303 and 31421.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41341 HISTORY OF GERMAN LITERATURE 1750 TO THE PRESENT 3 Credit Hours
A history of the development of German literature from the Age of Sensibility (the second half of the eighteenth century) to the present.
Prerequisite: GER 31303 and 31421.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41399 RESEARCH PROJECT IN GERMAN LITERATURE (ELR) 3 Credit Hours
(Repeatable for credit) Thesis or other independent study.
Prerequisite: 6 hours at the 40000-level.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

GER 41731 SURVEY OF GERMAN CINEMA 3 Credit Hours
(Slashed with GER 51731) A survey of major contributions to the German cinema from the beginnings to the present; taught in German.
Prerequisite: Six hours of upper division german courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) (Slashed with GER 41095) Topic announced in schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

GER 51096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with GER 41096) Independent investigation of problems in German language or literature. Permission of the department chair required.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

GER 51212 STYLISTICS 3 Credit Hours
Development of written German style through selected readings, textual analysis and stylistic exercises.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51216 CONTEMPORARY GERMAN CULTURE 3 Credit Hours
(Slashed with GER 41216) A study of selected sociological, political, cultural and economic issues in contemporary German-speaking countries, using readings, films and legal documents as the basis for discussion. Taught in German.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51323 GERMAN FAIRY TALES 3 Credit Hours
(Slashed with GER 41323) An investigation into German fairy tales, from the Brothers Grimm to the literary fairy tales of later German authors.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51324 GERMAN LITERATURE FOR CHILDREN AND ADOLESCENTS 3 Credit Hours
(Slashed with GER 41324) An investigation into German literature for children and adolescents from the Middle Ages to modernity.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51330 20TH-CENTURY GERMAN AUTHORS 3 Credit Hours
(Slashed with GER 41330) A survey of the major movements and authors of the twentieth century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51334 THE GERMAN NOVELLA 3 Credit Hours
(Slashed with GER 41334) Development of the German novella from the 18th century to the present. Readings of major works, lectures, analyses; taught in German.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51340 HISTORY OF GERMAN LITERATURE TO 1750 3 Credit Hours
A history of the development of German literature from the Germanic tribes through the Age of Enlightenment (the first half of the eighteenth century).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51341 HISTORY OF GERMAN LITERATURE 1750 TO THE PRESENT 3 Credit Hours
A history of the development of German literature from the Age of Sensibility (the second half of the eighteenth century) to the present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51731 SURVEY OF GERMAN CINEMA 3 Credit Hours
(Slashed with GER 41731) A survey of major contributions to the German cinema from the beginnings to the present; taught in German.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61010 THE PRACTICE OF GERMAN TRANSLATION 2 Credit Hours
Students apply linguistic and communication science concepts to case studies of language mediation.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

GER 61091 SEMINAR IN GERMAN TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized German translation projects currently of concern in the translation industry. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: GER 61010 and TRST 60010, graduate studies.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GER 61199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GER 61240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into German will also be emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: GER 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GER 61398 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with German language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

GER 61901 READING GERMAN FOR GRADUATE STUDENTS 4 Credit Hours
Introduction to the fundamentals of German grammar for graduate students. Practice in reading and translation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

GER 61902 READING GERMAN FOR GRADUATE STUDENTS 3 Credit Hours
Continued practice in reading and translation. Independent study of scholarly texts in the student's own discipline.
Prerequisite: GER 61901; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text,the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

Gerontology (GERO)

GERO 14029 INTRODUCTION TO GERONTOLOGY (DIVD) (KSS) 3 Credit Hours
Interdisciplinary approach to the study of the aging process.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

GERO 40656 PSYCHOLOGY OF AGING 3 Credit Hours
(Slashed with GERO 50656 and GERO 70656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GERO 41095 SPECIAL TOPICS IN GERONTOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with GERO 51095) Discussion of a major topic within a specific field of gerontology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

GERO 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit)Independent study in gerontology.
Prerequisite: Written permission from instructor.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

GERO 44030 RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD (WIC) 3 Credit Hours
(Slashed with GERO 54030) This is an advanced level course that focuses on current research on physiological, psychological, and social dimensions of development across adulthood. The course considers continuity and change throughout the entire adult lifespan from young adulthood to midlife to later life.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

GERO 44031 SOCIAL POLICY AND COMMUNITY RESOURCES FOR OLDER ADULTS 3 Credit Hours
Overview of national, state and local public policy affecting older adults. Legislation, funding, planning and the service delivery system are examined.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GERO 44092 PRACTICUM IN GERONTOLOGY (ELR) 3-6 Credit Hours
(Repeatable for a total of 6 credit hours) Observation and participation in long-term care or community agencies serving older adults. One class discussion per week. Major GPA of 2.250 required.
Prerequisite: HDF 44018; and human development and family studies majors; and senior standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GERO 50656 PSYCHOLOGY OF AGING 3 Credit Hours
(Slashed with GERO 40656 and GERO 70656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GERO 51095 SPECIAL TOPICS IN GERONTOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with GERO 41095) Discussion of a major topic or topics within the field of gerontology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

GERO 51096 INDIVIDUAL INVESTIGATION IN GERONTOLOGY 1-3 Credit Hours
(Repeatable for credit)Independent study in the area of gerontology.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

GERO 54030 RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD 3 Credit Hours
(Slashed with GERO 44030) This is an advanced level course that focuses on current research on physiological, psychological, and social dimensions of development across adulthood. The course considers continuity and change throughout the entire adult lifespan from young adulthood to midlife to later life.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GERO 61091 SEMINAR IN GERONTOLOGY 1-3 Credit Hours
(Repeatable for credit)Seminar dealing with topics in the field of gerontology.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

GERO 61191 INTERDISCIPLINARY SEMINAR IN GERONTOLOGY 3 Credit Hours
(Repeatable for credit)Course is designed to assist students in developing the knowledge and skills needed to understand the major issues in gerontological theory, research and practice from a multi-disciplinary perspective.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GERO 70656 PSYCHOLOGY OF AGING 3 Credit Hours
(Slashed with GERO 40656 and GERO 50656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Graduate College (GCOL)

GCOL 60098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Independent research or scholarly activity for master's level graduate students conducted under the supervision of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

GCOL 60100 APPLICATIONS IN DESIGN THINKING AND INNOVATION 3 Credit Hours
(Slashed with GCOL 80100) This course blends analytical skills, intuition and creative thinking to develop practical solutions to real world problems. This will be a reflective lecture and small project-based course that addresses the programmatic, technical, business, social and human factors of design in a way that leads to innovation(s) in the development of integrated solutions. After being introduced to essential concepts, students, working in interdisciplinary teams, will learn how to engage with end users, effectively frame problems, identify potential solutions, build prototypes to test assumptions and learn what works (and doesn't).
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

GCOL 61001 WORKSHOP IN COLLEGE TEACHING 1 Credit Hour
(Slashed with GCOL 71001) Orientation to college teaching for new teaching assistants.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

GCOL 61094 COLLEGE TEACHING 2 Credit Hours
(Slashed with GCOL 71094) Training, supervision and evaluation in college-level instruction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

GCOL 61095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) (Slashed with GCOL 81095) Special topics in graduate education announced when scheduled. Specialized offerings in response to emerging trends or topics intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of graduate faculty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 other
Grade Mode: Standard Letter

GCOL 61096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual investigation as agreed upon by the instructor and student.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

GCOL 61195 SPECIAL TOPICS SEMINAR 1-4 Credit Hours
(Repeatable for credit) (Slashed with GCOL 81195) Variable topic seminar; varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

GCOL 71001 WORKSHOP IN COLLEGE TEACHING 1 Credit Hour
(Slashed with GCOL 61001) Orientation to college teaching for new teaching assistants.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

GCOL 71094 COLLEGE TEACHING 2 Credit Hours
(Slashed with GCOL 61094) Training, supervision and evaluation in college-level instruction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

GCOL 80098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Independent research or scholarly activity for doctoral-level graduate students conducted under the supervision of a faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

GCOL 80100 APPLICATIONS IN DESIGN THINKING AND INNOVATION 3 Credit Hours
(Slashed with GCOL 60100) This course blends analytical skills, intuition and creative thinking to develop practical solutions to real world problems. This will be a reflective lecture and small project-based course that addresses the programmatic, technical, business, social and human factors of design in a way that leads to innovation(s) in the development of integrated solutions. After being introduced to essential concepts, students, working in interdisciplinary teams, will learn how to engage with end users, effectively frame problems, identify potential solutions, build prototypes to test assumptions and learn what works (and doesn't).
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

GCOL 81095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) (Slashed with GCOL 61095) Special topics in graduate education announced when scheduled. Specialized offerings in response to emerging trends or topics intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of graduate faculty.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-4 other
Grade Mode: Standard Letter

GCOL 81096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual Investigation as agreed upon by the instructor and student.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

GCOL 81195 SPECIAL TOPICS SEMINAR 1-4 Credit Hours
(Repeatable for credit) (Slashed with GCOL 61195) Variable topic seminar; varies per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

Greek (GRE)

GRE 14201 ELEMENTARY CLASSICAL GREEK I 4 Credit Hours
An introduction to the classical Greek language in the context of ancient Greek culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GRE 14202 ELEMENTARY CLASSICAL GREEK II 4 Credit Hours
A continuation of the introduction to the classical Greek language in the context of ancient Greek culture.
Prerequisite: GRE 14201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GRE 24201 INTERMEDIATE CLASSICAL GREEK I: READINGS 3 Credit Hours
Excerpts from classical Greek literature with emphasis on translation into English.
Prerequisite: GRE 14202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GRE 24202 INTERMEDIATE CLASSICAL GREEK II: READINGS 3 Credit Hours
Excerpts from classical Greek literature with emphasis on both prose (e.g. Plato) and poetry (e.g. Euripides).
Prerequisite: GRE 24201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GRE 34370 PLATO:APOLOGY AND PHAEDO 3 Credit Hours
Readings in the original Greek of Plato's dialogues centering on the trial, conviction and death of Socrates.
Prerequisite: GRE 24202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GRE 34371 HOMER 3 Credit Hours
Selections from the Iliad or Odyssey studied from a literary and grammatical standpoint.
Prerequisite: GRE 24202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GRE 34372 ADVANCED READINGS IN GREEK 3 Credit Hours
Readings in the original Greek of authors in poetry and prose studied from a literary and grammatical standpoint.
Prerequisite: GRE 24202; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GRE 44096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Investigation of problems in Greek literature or linguistics.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

Green and Alternate Energy (GAE)

GAE 31032 ENERGY AND POWER GENERATION 3 Credit Hours
This course covers fundamentals of energy and energy conversion processes. Students will have an exposure to various techniques of electric power generation including both conventional and alternative energy systems and conservation techniques. Includes a lab experience in electric power generation from renewable energy sources.
Prerequisite: PHY 12202 or PHY 13002 or PHY 13012.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

GAE 32000 FUEL CELL TECHNOLOGY 3 Credit Hours
Designed to provide a general perspective to fuel cell technology. Students are introduced to the various types of fuel cells, historical perspective, terminology, applications, fuel cell operation, basic electrochemical and thermodynamics principles involved in fuel cells, fuel cell components, materials and systems. Students learn basic fuel cell design principles and calculations.
Prerequisite: PHY 13012 or PHY 13002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GAE 42002 ENERGY MANAGEMENT SYSTEMS 3 Credit Hours
This course covers an introduction to energy fundamentals, energy systems, lighting, heating, ventilation and air conditioning, control systems for energy management. Alternative energy sources and green buildings will also be covered. The course focuses on improving energy efficiency, reducing energy use and reducing energy cost.
Prerequisite: PHY 12202 or PHY 13002 or PHY 13012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GAE 42004 ADVANCED FUEL CELL TECHNOLOGY 3 Credit Hours
Covers the theory and applications of fuel cell technology with an emphasis to proton exchange membrane fuel cells (PEMFCs). Students learn fuel cell component, stack and system design principles and fabrication methods, performance characterization, fuel cell testing and diagnostics methods. Students are introduced to transport phenomena in fuel cells. Introduction to hydrogen storage, generation and delivery, as well as hydrogen safety and regulations.
Prerequisite: GAE 32000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Health Education (HED)

HED 11570 PERSONAL HEALTH 3 Credit Hours
This course examines the leading causes of death and disability in the United States with an emphasis on the application of knowledge and skills to reduce risk and enhance the quality of life.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 11590 COMMUNITY HEALTH EDUCATION 3 Credit Hours
Identification of community health problems and measures for control. Emphasizes principles, objectives and methods of community health education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 13510 WINNING COMBINATION:HEALTH AND ATHLETES 1 Credit Hour
An exploration of strategies for promoting healthy lifestyles for athletes. The course is reserved for varsity athletes.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

HED 14020 MEDICAL TERMINOLOGY 3 Credit Hours
Identification of the meaning of various roots and terms and combining forms that are components of medical words, including anatomical physiological and pathological therapeutic terminology and implications for health literacy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Medical Terminology, TAG Health

HED 21030 INTRODUCTION TO HEALTH EDUCATION 3 Credit Hours
This course introduces the student to the health education profession. Roles and responsibilities of health educators in a variety of occupational settings are described.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 21050 HEALTH EDUCATION THEORIES 3 Credit Hours
Application of various attitude and behavior models to health and illness behavior in order to develop a framework for educational intervention.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 30000 TEACHING HEALTH TO YOUNG LEARNERS 3 Credit Hours
Investigate current health issues relevant to children in primary grades, and identify educational strategies to increase student health knowledge, foster positive health attitudes and promote healthy behaviors.
Prerequisite: None.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 1.5 other
Grade Mode: Standard Letter

HED 32530 DRUG USE AND MISUSE 3 Credit Hours
Introduction to the study of drug/alcohol abuse. Basic pharmacology of drug actions is reviewed. Common myths misconceptions about drug alcohol use are examined. Current drug problems and related prevention treatment issues are analyzed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 32542 METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC) 5 Credit Hours
Analysis observation, demonstration and experience in the teaching-learning process utilizing methods, materials and resources appropriate to the preparation of professional health educators. This course includes 50 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: HED 11570.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HED 32544 HUMAN SEXUALITY 3 Credit Hours
A study of the role and meaning of human sexuality throughout the life cycle for self and society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 32565 MARKETING IN HEALTH EDUCATION 3 Credit Hours
Examines the basic elements of marketing processes as they relate to promoting health in communities. Emphasis on application of marketing planning, concepts and practices for service providers involved with health education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 32575 CONSUMER HEALTH 3 Credit Hours
An overview of the health marketplace including health products, services, financing, promotional practices and consumer protection laws.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 34050 PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION 3 Credit Hours
Provides students with the knowledge and skills to assess health resources and needs, develop health programs to meet specific needs in particular populations and determine appropriate measures to evaluate the effectiveness of health programs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 34060 SMALL GROUP PROCESS 2 Credit Hours
(Cross-listed with CES 37800) Students learn to understand the dynamics of problem solving groups and how to become effective leaders and members. Topics include climate, goals, decision making, communication, leadership, membership. Experience-based learning combined with conceptualizing.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 40093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 50093 and 70093) Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop.
Prerequisite: HED 11590; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HED 42041 HEALTH COACHING 3 Credit Hours
(Slashed with HED 52041) Techniques of health coaching and motivational interviewing applied to health education. Individual and group approaches relative to personal, family and societal health issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 42222 ADULTING 101: SEVEN DIMENSIONS TO A HEALTHY ADULTHOOD 2 Credit Hours
The transition from college to post-college life can be uncertain. A design for the initial post-college years can alleviate the anxiety and stress that are often experienced. This course will examine issues related to a 7 dimensional model of health-financial, environmental, emotional, intellectual, physical, social, occupational-and apply those dimensions to a post-college life design process.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 42392 STUDENT TEACHING IN HEALTH EDUCATION (ELR) 9 Credit Hours
Provides a twelve week student teaching experience. See student teaching section of catalog. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Eligibility for admission to student teaching and admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

HED 42575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS 3 Credit Hours
(Slashed with HED 52575) Focus on health issues/education/environment policy and practice/community strategies to respond to threats confronting students utilizing a coordinated school/community strategy to promote health to improve academic outcomes. CPR and first aid certification required for completion of course.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 42779 HAPPINESS AND HEALTH 2 Credit Hours
(Slashed with HED 52779) Happiness is a common life goal, yet how to achieve or maintain can be a challenge. The things people think should make them happy don't; and the things that have been proven to increase happiness are often a surprise. In this class, students explore proven methods to increase happiness, confront the common myths and misperceptions around it and discover how happiness is defined by cultures outside the United States. Students also explore how happiness is related to academic performance, immune function, diet, stress, heart disease and life expectancy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 44025 WOMEN'S HEALTH ISSUES 3 Credit Hours
(Slashed with HED 54025) Traditional and feminist analysis of women's health issues and the health educational responses to those issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44030 GAMBLING, GAMING AND HEALTH 3 Credit Hours
(Slashed with HED 54030) This course will provide information related to gambling, gaming, and their convergence to facilitate insight into personal decision-making and health outcomes. Emerging gambling and gaming trends will be investigated along with exploration of attitudes toward these activities that influence personal and community health. There is an emphasis on the application of knowledge and skills to assess and reduce personal risk.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44091 SCHOOL HEALTH EDUCATION VARIABLE CONTENT SEMINAR 1 Credit Hour
(Slashed with HED 54091) This course is designed to provide content for the K-12 health education topics required by the Ohio Department of Education to prepare students seeking school health licensure.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HED 44092 INTERNSHIP IN COMMUNITY HEALTH EDUCATION (ELR) 9 Credit Hours
(Repeatable for credit) Participation for one academic semester in the health education and promotion activities of an approved agency, organization or industry.
Prerequisite: Senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

HED 44095 SPECIAL TOPICS: HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 54095) Selected topics related to public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HED 44096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 54096 and 74096) Independent reading and/or research directed by a HED faculty member.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 44543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS 3 Credit Hours
(Slashed with HED 54543) Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44544 SEXUALITY EDUCATION PROGRAMS 3 Credit Hours
(Slashed with HED 54544) This course prepares students to develop, implement, and evaluate sexuality education programs in school and community settings.
Prerequisite: HED 32544.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS 3 Credit Hours
(Slashed with HED 54550) Drug abuse and violence prevention from theoretical, philosophical, empirical and practical perspectives. Application of theories to plan, implement, and evaluate drug and violence education programs.
Prerequisite: HED 32530.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 46052 STRESS: RECOGNITION AND MANAGEMENT 2 Credit Hours
(Slashed with HED 56052) An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 46057 ADVANCED HUMAN SEXUALITY 3 Credit Hours
(Slashed with HED 56057) Selected aspects of human sexuality; history, cross-cultural perspectives, medical/surgical conditions and sex therapy and counseling.
Prerequisite: HED 32544.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 47070 AIDS: ISSUES, EDUCATION AND PREVENTION 3 Credit Hours
(Slashed with HED 57070) This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to aids education and prevention issues and strategies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 47091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 57091 and 77091) Public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: Junior or senior standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE 3 Credit Hours
Interdisciplinary inquiry into teaching as a professional practice in health education; emphasis on teacher as disciplined investigator. Utilization of teaching and learning technology.
Prerequisite: School Health Education or Physical Education and Sport Performance majors; and admission to advanced study.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HED 50093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 40093 and 70093) Discussion of major issues in health and safety education. Content emphasis vary depending on workshop.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HED 52041 HEALTH COACHING 3 Credit Hours
(Slashed with HED 42041) Techniques of health coaching and motivational interviewing applied to health education. Individual and group approaches relative to personal, family and societal health issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 52575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS 3 Credit Hours
(Slashed with HED 42575) Focus on health issues/education/environment policy and practice/community strategies to respond to threats confronting students, utilizing a coordinated school community strategy to promote health and improve academic outcomes. CPR first aid certification required for completion of course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 52779 HAPPINESS AND HEALTH 2 Credit Hours
(Slashed with HED 42779) Happiness is a common life goal, yet how to achieve or maintain can be a challenge. The things people think should make them happy don't; and the things that have been proven to increase happiness are often a surprise. In this class, students explore proven methods to increase happiness, confront the common myths and misperceptions around it and discover how happiness is defined by cultures outside the United States. Students also explore how happiness is related to academic performance, immune function, diet, stress, heart disease and life expectancy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 54025 WOMEN'S HEALTH ISSUES 3 Credit Hours
(Slashed with HED 44025) Traditional and feminist analysis of women's health issues and the health educational responses to those issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54030 GAMBLING, GAMING AND HEALTH 3 Credit Hours
(Slashed with HED 44030) This course will provide information related to gambling, gaming, and their convergence to facilitate insight into personal decision-making and health outcomes. Emerging gambling and gaming trends will be investigated along with exploration of attitudes toward these activities that influence personal and community health. There is an emphasis on the application of knowledge and skills to assess and reduce personal risk.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 44051) The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54091 SCHOOL HEALTH EDUCATION VARIABLE CONTENT SEMINAR 1 Credit Hour
(Slashed with HED 44091) This course is designed to provide content for the K-12 health education topics required by the Ohio Department of Education to prepare students seeking school health licensure.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HED 54095 SPECIAL TOPICS:HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 44095) Selected topics related to public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HED 54096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 44096 and 74096) Independent reading and/or research directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 54543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS 3 Credit Hours
(Slashed with HED 44543) Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54544 SEXUALITY EDUCATION PROGRAMS 3 Credit Hours
(Slashed with HED 44544) This course prepares students to develop, implement, and evaluate sexuality education programs in school and community settings.
Prerequisite: HED 64063; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS 3 Credit Hours
(Slashed with HED 44550) Drug abuse and violence prevention from theoretical, philosophical, empirical, and practical perspectives. Application of theories to plan, implement, and evaluate drug and violence education programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 56052 STRESS: RECOGNITION AND MANAGEMENT 2 Credit Hours
(Slashed with HED 46052) An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 56057 ADVANCED HUMAN SEXUALITY 3 Credit Hours
(Slashed with HED 46057) Selected aspects of human sexuality: history, cross-cultural perspectives, medical/surgical therapy and counseling.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 57070 AIDS:ISSUES, EDUCATION AND PREVENTION 3 Credit Hours
(Slashed with HED 47070) This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to AIDS education and prevention issues and strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 57091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 47091 and 77091) Public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: HED 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 64030 INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64050 HEALTH BEHAVIOR 3 Credit Hours
(Slashed with HED 84050) Analysis of a broad range of theoretical and empirical models of health and illness behavior.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64055 NEEDS ASSESSMENT AND EVALUATION IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 84055) Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs.
Prerequisite: HED 64050; and HED 64061; and HED 64063; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64057 PROGRAM PLANNING AND IMPLEMENTATION IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 84057) Students will develop, implement, and evaluate a health education and promotion program plan specific to a target audience and health issue.
Prerequisite: HED 64050 and HED 64055 and HED 64061 and HED 64063; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64059 COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 84059) Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion.
Prerequisite: HED 64050 and HED 64061; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64061 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 84061) Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/ leadership, government initiatives, standards of practice and accreditations are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64062 ADMINISTRATION AND GRANT WRITING IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 84062) Basic concepts in the administration of health education promotion programs and grant writing. Coordination of program services, consultative relationships, management of human and fiscal resources, and organizational leadership are addressed as well as grant writing skills.
Prerequisite: HED 64061 and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64063 STRATEGIES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 84063) Health education and promotion methods and strategies are presented to develop programs and lesson plans for a variety of audiences, learning environments, and intervention levels.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64080 ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 84080) Emphasizes the advocacy role of health educators. Includes use of research results to develop, analyze and influence health policy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64094 COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION 2 Credit Hours
(Repeatable for credit) (Cross-listed with HED 84094) Guided experiences in teaching selected undergraduate courses.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

HED 64096 INDIVIDUAL INVESTIGATION: READINGS IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Slashed with HED 84096) Independent study of approved topics in health and safety education related to the student's special interests. Adviser's permission required to repeat registration one time.
Prerequisite: Health Education or Public Health major; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-S/U

HED 64098 PROJECT IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 84098) Research or individual investigation for master's level graduate students.
Prerequisite: Grading standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 68092 DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION 3 Credit Hours
Develop and implement standards based, culturally sensitive, developmentally appropriate, and ability centered health education unit and lesson plans with K-12 school populations. Students complete ODHE required field experience hours in this course for additional licensure in school health.
Prerequisite: HED 54544 and HED 64063; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

HED 70093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 40093 and 50093) Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HED 74096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 44096 and 54096) Independent reading and/or research directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 77091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 47091 and 57091) Public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 80292 PRACTICUM IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Repeatable for credit) In this course, students obtain permission to work with an individual faculty member on research, community projects, or other professional activities in various health education settings (school, community, medical care, worksite). Assignments are individualized to meet the needs of the practicum experience.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 81100 RESIDENCY SEMINAR: SYNTHESIS OF LITERATURE IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Exploration of philosophical, theoretical and empirical issues in health education and promotion. Students synthesize courses, research and practice in preparation for comprehensive examinations.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 81150 SEMINAR: PROFESSIONAL DEVELOPMENT IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Focuses on the process, practice and documentation of professional development in health education and promotion in the areas of instruction, program development, research and evaluation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

HED 81200 RESIDENCY SEMINAR: RESEARCH PROPOSAL, DEVELOPMENT AND PRESENTATION 3 Credit Hours
Review of the role of research and scholarly pursuits in the professorate, the professional health education literature, and in the development and dissemination of a range of scholarly products. Identification of requisite elements of a dissertation in health education and promotion. Refinement of a professional vita, updating of doctoral program prospectus, specification of dissertation topic, identification of potential dissertation committee members, development and presentation of draft dissertation proposal.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 81300 HEALTH EDUCATION PRACTICE 3 Credit Hours
Investigation of various health education settings including analysis of agency programming efforts and comparison to evidence-based practice. Application of community assessment, socioecological model, and community-based participatory research principles. Analysis of how health education theory and research are implemented in various practice settings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 81400 RESEARCH DISSEMINATION AND TECHNICAL WRITING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Examination and practice of technical writing for research proposals, technical reports, and journal publications in health education and promotion. Other methods of disseminating research such as preparation and submission of conference presentation applications and writing as part of consultative relationships with community agencies is explored.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 81450 ADVANCED PROGRAM EVALUATION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
A review of evaluation methods used in health education programs. Emphasis is placed on data collection procedures, linking program activities to outcomes, participant attrition and reporting of the results.
Prerequisite: HED 64055 and HED 64057; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 81550 APPLIED THEORY IN HEALTH EDUCATION RESEARCH AND PRACTICE 3 Credit Hours
Examination of theory/models/hypotheses applied to specific health behaviors. Emphasis on operationalization of theoretical constructs.
Prerequisite: HED 64050 or HED 84050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84030 INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84050 HEALTH BEHAVIOR 3 Credit Hours
(Slashed with HED 64050) Analysis of a broad range of theoretical and empirical models of health and illness behavior.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84055 NEEDS ASSESSMENT AND EVALUATION IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 64055) Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs.
Prerequisite: HED 64050 or 84050; and HED 64061 or 84061; and HED 64063 or 84063; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84057 PROGRAM PLANNING AND IMPLEMENTATION IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 64057) Students will develop, implement, and evaluate a health education and promotion program plan specific to a target audience and health issue.
Prerequisite: HED 64050 or 84050; and HED 64055 or 84055; and HED 64061 or 84061; and HED 64063 or 84063; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84059 COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 64059) Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion.
Prerequisite: HED 64050 or 84050; and HED 64061 or 84061; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84061 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 64061) Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/ leadership, government initiatives, standards of practice and accreditations are examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84062 ADMINISTRATION AND GRANT WRITING IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 64062) Basic concepts in the administration of health education promotion programs and grant writing. Coordination of program services, consultative relationships, management of human and fiscal resources, and organizational leadership are addressed as well as grant writing skills.
Prerequisite: HED 64061 or 84061; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84063 STRATEGIES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 64063) Health education and promotion methods and strategies are presented to develop programs and lesson plans for a variety of audiences, learning environments, and intervention levels.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84066 HEALTH IN THE DEVELOPING NATIONS 3 Credit Hours
Overview of national development, review of problems process and strategy of health development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84080 ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 64080) Emphasizes the advocacy role of health educators. Includes use of research results to develop analyze and influence health policy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84094 COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION 2 Credit Hours
(Repeatable for credit) (Slashed with HED 64094) Guided experiences in teaching selected undergraduate courses.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

HED 84096 INDIVIDUAL INVESTIGATION: READINGS IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Slashed with HED 64096) Independent study of approved topics in health and safety education related to the student's special interests. Adviser's permission required to repeat registration one time.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-S/U

HED 84098 PROJECT IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 64098) Research or individual investigation for doctoral level graduate students.
Prerequisite: Doctoral standing and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 88092 DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION 3 Credit Hours
Develop and implement standards based, culturally sensitive, developmentally appropriate, and ability centered health education unit and lesson plans with K-12 school populations. Students complete ODHE required field experience hours in this course for additional licensure in school health.
Prerequisite: HED 54544 and HED 84063; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

Health Informatics (HI)

HI 41095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) Topics could include current or emerging issues in health informatics. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HI 41096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level. In-progress (IP) mark permissible.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

HI 60401 HEALTH INFORMATICS MANAGEMENT 3 Credit Hours
(Slashed with HI 80401) This introductory course is a survey course that acts as a foundation for all other courses in the Health Informatics program. Basic concepts of Health Informatics are emphasized throughout. The course targets students who at some point in their career will oversee or have direct input on one of the highest expenditure areas for health care organizations--the planning, selection, deployment and management of electronic medical records (EMR), management decision-support and tracking systems (DSS) and other health information technologies (health IT).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60402 LEGAL ISSUES IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 80402) This course provides students with an introduction to the fundamentals of law for Health Informatics and Information Management. Components of learning will include general legal principles and regulatory issues in the U.S. healthcare system. Primary topics will include ethical issues, consideration of state laws and the Federal Health Insurance Portability and Accountability Act (HIPAA), privacy and security rules. Through discussion board and writing assignments, students will demonstrate understanding of practical issues of health information access, its use and disclosure, and the legal and regulatory consequences associated with breaches of health information confidentiality and security. We will explore some of the special legal issues with electronic health records (EHR) and health information exchange; secondary uses of health information; compliance; and related ethics issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60403 HEALTH INFORMATION SYSTEMS 3 Credit Hours
(Slashed with HI 80403) Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60410 HEALTH RECORDS MANAGEMENT 3 Credit Hours
(Slashed with HI 80410) This course examines Health Information Management, the role of the HIM professional in the context of the health system and the role of the health record. The role of information management and documentation principles is essential to the successful application of technology and ensuring an effective health information infrastructure. The course discusses confidentiality, privacy, security, reliable standards, data integrity, quality, governance, and ethical principles that make health care information of use for organizations and individuals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60411 CLINICAL ANALYTICS 3 Credit Hours
(Slashed with HI 80411) The use of well-defined and well-integrated clinical analytics throughout the healthcare value chain can be transformative. Through careful implementation of health analytics, hospitals can transform unwieldy amalgamations of data into information that can: improve patient outcomes, increase safety, enhance operational efficiency and support public health. Given the immense size of the data challenge, the distinctness and geographic spread of many healthcare-related activities, and the fact that so many healthcare activities are conducted by different entities which must interact with each other, there is really no other way to provide operations management tools necessary to deliver personalized medicine and to control spiraling costs. Since clinical analytics is an immature discipline, we carefully examine the practices of those institutions that are standard setters in the industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60412 CLINICAL DECISION SUPPORT 3 Credit Hours
(Slashed with HI 80412) Provides a practical survey of clinical decision support systems that collect clinical data and enable the transition to clinical knowledge in real world applications intended to improve quality and safety of patient care. Students become familiar with the basic requirements for clinical decision support systems and the challenges associated with the development and deployment of new applications within the healthcare setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60413 CHANGE MANAGEMENT IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 80413) Designed to cover the process of change management in large healthcare organizations in light of current trends. Topics related to technology requirements, technology implementations, risk assessment and buy-in are among those covered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60414 HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 80414) Provides students with the foundational principles of usability and human factors as applied to safety and quality in health informatics technology. Course readings and materials review the concepts of human factors, usability and the cognitive consequences of health information technology on clinical performance and decision making. Attention is given to the role of mobile computing in health care, as well as information visualization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60416 HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS 3 Credit Hours
(Slashed with HI 80416) This course uses a policy analysis lens to critically examine issues related to the use of information technology in healthcare from an ethical, political and regulatory perspective. Course's primary focus is on the United States, but international approaches are also be discussed. Legislation affecting health information technology area are examined,including the American Reinvestment and Recovery Act, HITECH section; Affordable Care Act and Health Insurance Portability and Accountability Act (HIPAA) of 1996. Topics and issues related to health informatics also are discussed, including structure of health administrative and delivery systems, assessment of population health, models of health care delivery, access and quality of care.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60417 PUBLIC HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 80417) Public Health Informatics (PHI) is an emergent, interdisciplinary field that focuses on the systematic management and dynamic application of information resources to enhance public health practice, education and research. As an emerging subset of Health Informatics, PHI is practiced by individuals, governmental and nongovernmental organizations at the international, national, regional, state and local levels. PHI deals with the collection and analysis of vital statistics data through surveillance; information creation; information storage and retrieval; visualization and graphics; dissemination; use of information for policy, decision making and trend tracking. The purpose of this course is to provide students with an introductory overview of the vast and dynamic field of PHI, including definitions, approaches, competencies, applications and informatics principles applied in public health settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60418 CLINICAL ANALYTICS II 3 Credit Hours
As the volume and complexity of health data continues to grow, analysis of that data requires more advanced tools to transform that data into meaningful information for clinical decisions. Not only is data from electronic medical records (EMRs) growing at a rapid pace but new types of data are available for analysis, such as, genomic data and patient generated data. These advanced analytic tools break down into three areas, each of which will be examined in this course: new data warehousing techniques to manage big data, new analytic tools including cognitive computing and predictive analytics and new ways to visualize the data. All of these techniques transform the raw data into use cases, such as, population health, precision medicine and clinical decision support using artificial intelligence and machine learning which will also be addressed in this course.
Prerequisite: HI 60411; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60419 CONSUMER HEALTH INFORMATICS 3 Credit Hours
This course examines the history and current trends in consumer health informatics, examining how patients and healthcare stakeholders manage health in the digital age. The evolution of health information technology has expanded the role of the patient to include being a consumer of healthcare, bringing with it more capabilities and responsibilities. The course will discuss health information and communication technologies and their influence on health care for patients, affecting health information seeking behaviors and expectations among multiple stakeholder groups. The course will discuss US and global perspectives for health information professionals serving health information needs in the community and in medical, academic, and public libraries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60636 STANDARDIZED TERMINOLOGIES IN HEALTHCARE 3 Credit Hours
Introduce various types of standardized healthcare terminologies (controlled vocabularies) used in the Electronic Health Records (EHR) and Health information Exchange (HIE). Present the benefits of using standardized terminologies, as well as the interoperability and Meaningful Use (MU) requirements and standards. Explain the purposes, structures, components, and application of the most widely implemented standardized terminologies such as ICD, CPT, SNOMED CT, LOINC, RxNorm, ICNP and UMLS.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60691 SEMINAR IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with HI 80691) Advanced research by students who are qualified to examine problems of certain special areas in health informatics.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HI 60693 VARIABLE TITLE WORKSHOP IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit). Intensive examination of special topics of interest to those involved in health informatics program. Maximum workshop credit for the M.S. degree in health informatics is 4 semester hours.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HI 60792 ELECTIVE INTERNSHIP IN HEALTH INFORMATICS 2-3 Credit Hours
(Repeatable for credit) Supervised work experience in health informatics of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6.66-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 61095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with HI 81095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in health informatics. Specific topics are announced in the Schedule of Classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HI 61096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for master's level students. Maximum 6 credit hours towards master's degree.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

HI 66092 MASTER'S INTERNSHIP IN HEALTH INFORMATICS 3 Credit Hours
Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of health informatics and integrates their knowledge from all HI courses and experiences.
Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 66099 MASTER'S PROJECT IN HEALTH INFORMATICS 3 Credit Hours
Provides a means for the application of the knowledge, research and competencies learned through study in health informatics to the development of an information system, product, setting or service.
Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum overall 3.000 GPA; and graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 66198 MASTER'S RESEARCH PAPER IN HEALTH INFORMATICS 3 Credit Hours
Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the Health Informatics master's degree.
Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 66199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 66299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: HI 66199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 80401 HEALTH INFORMATICS MANAGEMENT 3 Credit Hours
(Slashed with HI 60401) This introductory course is a survey course that acts as a foundation for all other courses in the Health Informatics program. Basic concepts of Health Informatics are emphasized throughout. The course targets students who at some point in their career will oversee or have direct input on one of the highest expenditure areas for health care organizations--the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS), and other health information technologies (health IT).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80402 LEGAL ISSUES IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 60402) This course provides students with an introduction to the fundamentals of law for Health Informatics and Information Management. Components of the learning will include general legal principles and regulatory issues in the U.S. healthcare system. Primary topics will include ethical issues, consideration of state laws and the Federal Health Insurance Portability and Accountability Act (HIPAA), privacy and security rules. Through discussion board and writing assignments, students will demonstrate understanding of practical issues of health information access, its use and disclosure, and the legal and regulatory consequences associated with breaches of health information confidentiality and security. We will explore some of the special legal issues with electronic health records (EHR) and health information exchange; secondary uses of health information; compliance; and related ethics issues.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80403 HEALTH INFORMATION SYSTEMS 3 Credit Hours
(Slashed with HI 60403) Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80410 HEALTH RECORDS MANAGEMENT 3 Credit Hours
(Slashed with HI 60410) This course examines Health Information Management, the role of the HIM professional in the context of the health system and the role of the health record. The role of information management and documentation principles is essential to the successful application of technology and ensuring an effective health information infrastructure. The course discusses confidentiality, privacy, security, reliable standards, data integrity, quality, governance, and ethical principles that make health care information of use for organizations and individuals.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80411 CLINICAL ANALYTICS 3 Credit Hours
(Slashed with HI 60411) The use of well-defined and well integrated clinical analytics throughout the healthcare value chain can be transformative. Through careful implementation of health analytics, hospitals can transform unwieldy amalgamations of data into information that can: Improve patient outcomes, increase safety, enhance operational efficiency and support public health. Given the immense size of the data challenge, the distinctness and geographic spread of many healthcare-related activities, and the fact that so many healthcare activities are conducted by different entities which must interact with each other, there is really no other way to provide operations management tools necessary to deliver personalized medicine and to control spiraling costs. Since clinical analytics is an immature discipline, we carefully examine the practices of those institutions that are standard setters in the industry.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80412 CLINICAL DECISION SUPPORT 3 Credit Hours
(Slashed with HI 60412) Provides a practical survey of clinical decision support systems that collect clinical data and enable the transition to clinical knowledge in real world applications intended to improve quality and safety of patient care. Students become familiar with the basic requirements for clinical decision support systems and the challenges associated with the development and deployment of new applications within the healthcare setting.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80413 CHANGE MANAGEMENT IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 60413) Designed to cover the process of change management in large healthcare organizations in light of current trends. Topics related to technology requirements, technology implementations, risk assessment, end user computing and buy-in are among those covered.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80414 HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 60414) Provides students with the foundational principles of usability and human factors as applied to safety and quality in health informatics technology. Course readings and materials review the concepts of human factors, usability, and the cognitive consequences of health information technology on clinical performance and decision making. Attention is given to the role of mobile computing in health care, as well as information visualization.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80416 HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS 3 Credit Hours
(Slashed with HI 60416) This course uses a policy analysis lens to critically examine issues related to the use of information technology in healthcare from an ethical, political and regulatory perspective. Course's primary focus is on the United States, but international approaches are also be discussed. Legislation affecting health information technology area are examined,including the American Reinvestment and Recovery Act, HITECH section; Affordable Care Act and Health Insurance Portability and Accountability Act (HIPAA) of 1996. Topics and issues related to health informatics also are discussed, including structure of health administrative and delivery systems, assessment of population health, models of health care delivery, access and quality of care.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80417 PUBLIC HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 60417) Public Health Informatics (PHI) is an emergent, interdisciplinary field that focuses on the systematic management and dynamic application of information resources to enhance public health practice, education and research. As an emerging subset of Health Informatics, PHI is practiced by individuals, governmental and nongovernmental organizations at the international, national, regional, state and local levels. PHI deals with the collection and analysis of vital statistics data through surveillance; information creation; information storage and retrieval; visualization and graphics; dissemination; use of information for policy, decision making and trend tracking. The purpose of this course is to provide students with an introductory overview of the vast and dynamic field of PHI, including definitions, approaches, competencies, applications and informatics principles applied in public health settings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80691 SEMINAR IN HEALH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with HI 60691) Advanced research by students who are qualified to examine problems of certain special areas in health informatics.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HI 81095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with HI 61095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in health informatics. Specific topics are announced in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HI 81096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit). Research or individual investigation in areas not covered by the existing curriculum for doctoral level students. Deliverables determined with instructor of record.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

Health Policy and Management (HPM)

HPM 50001 SEX: A WICKED PUBLIC HEALTH PROBLEM 3 Credit Hours
(Slashed with PH 40001) Wicked problems is a term developed during the 1970s by systems thinkers and planners, Horst Rittel and Melvin Webber (1973), to describe complex social problems that are resistant to solution. The term has recently been applied to public health issues that have proven to be difficult to address and are resistant to mitigation. Sexual and reproductive health behaviors, attitudes and cultural norms often produce problems at the individual and population levels that meet the criteria for designation as wicked problems. Effectively addressing these kinds of problems requires a correct understanding and application of public health principles and practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 50110 INTRODUCTION TO PUBLIC MENTAL HEALTH 3 Credit Hours
(Slashed with PH 40110) This course provides a broad overview of mental health from a public health perspective. The course is an introduction to population-based (or population-level) approaches to addressing mental health and supporting wellness. More specifically, the course discusses mental health from a public health perspective, including discussion of non-clinical interventions and programs designed to improve mental health and wellness of populations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 50196 INDIVIDUAL INVESTIGATION IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours
(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to health policy and management.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

HPM 60001 ESSENTIALS OF HEALTH INSURANCE I 3 Credit Hours
This course introduces graduate students to the essentials of health insurance. Students develop a thorough understanding of the medical insurance industry. Students obtain industry knowledge resulting in their ability to interpret industry actions, reactions and transactions. In addition, they demonstrate their ability to interact with the industry as a public health professional, member of the industry or community member.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 60002 ESSENTIALS OF HEALTH INSURANCE II 3 Credit Hours
This course focuses on health insurance from a business perspective with a focus on innovation and ways to improve current processes and plans. As health insurance is an industry that has many aspects, this course places an emphasis on workplace health promotion. Concepts looked at from the perspective of workplace health can apply to many other aspects of health insurance. Throughout this course, innovation, leadership and business concepts from other industries are applied to health insurance and public health.
Prerequisite: HPM 60001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 60089 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND 1-3 Credit Hours
(Slashed with HPM 80089)(Repeatable for credit) Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, postwar trauma, tuberculosis, refugee health, non-communicable disease prevention and environmental contamination.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

HPM 60191 VARIABLE CONTENT SEMINAR IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with HPM 80191) Seminar on current and important topics in health policy and management. Subject matter varies depending on the topic.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HPM 60195 SPECIAL TOPICS IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with HPM 80195) Special topics to sample new offerings on topics in health policy and management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HPM 60392 APPLIED PRACTICE EXPERIENCE IN HEALTH POLICY AND MANAGEMENT 3,6 Credit Hours
(Repeatable for credit) Observation and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HPM 60492 APPLIED PRACTICE EXPERIENCE IN HEALTH POLICY AND MANAGEMENT II 1 Credit Hour
(Repeatable for credit) Continuing enrollment for students participating in public health activities of a public health agency, hospital or other approved organization. Students complete the field experience with joint supervision from the university and an approved organization or agency.
Prerequisite: HPM 60392; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HPM 62016 PUBLIC HEALTH ADMINISTRATION 3 Credit Hours
(Slashed with HPM 72016) Public health administration comprises efforts to improve the health of communities. Provides an overview for public health administration and practice, including organization, law, legislative relations, financing, workforce issues, leadership and surveillance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 62017 HEALTHCARE LAW AND REGULATION 3 Credit Hours
Healthcare is one of the most heavily regulated industries in the United States. In order to contain spiraling costs, the federal and state governments are focusing on individual provider conduct in the context of fraud, waste and abuse scrutiny. This course covers the underlying theories behind healthcare law and regulation as well as specific provisions affecting the organization, delivery and payment of primary health services. Administrators and clinicians gain a basic understanding of the regulatory environment and provisions impacting their practice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63003 HEALTH CARE SYSTEMS 3 Credit Hours
Provides a systems approach to delivering health care and public health services in the US. Includes an overview of public health, outpatient, inpatient, managed care, long term care and health services for special populations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63004 PUBLIC HEALTH POLICY, LAW AND ETHICS 3 Credit Hours
Provides a comprehensive review of health policymaking, public health law and ethical principles as applied to public health decision making.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63005 FINANCIAL MANAGEMENT FOR PUBLIC HEALTH ORGANIZATIONS 3 Credit Hours
Provides an overview of financial management of public health organizations. Topics include planning for public health program budgeting, understanding costs and short- and long-term financing, accountability and control, reporting results and financial statement and financial conditions analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63006 COST BENEFIT ANALYSIS IN PUBLIC HEALTH PROGRAMS 3 Credit Hours
Provides an overview of cost-benefit analysis as applied to the evaluation of public health programs. Students apply principles of cost-benefit analysis and related cost utility analysis to case studies in the public health sector.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63007 PUBLIC HEALTH PROGRAMS: PLANNING, IMPLEMENTATION AND EVALUATION 3 Credit Hours
Overview of developing, implementing and evaluating public health programs. Examines how public health programs can target different levels within a population, different determinants of health and strategies and interventions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63008 HEALTHCARE PRIVACY AND SECURITY 3 Credit Hours
Introduces students to the fundamental concerns addressed by the Health Insurance Portability and Accountability Act of 1996 (HIPAA).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63009 HEALTHCARE COMPLIANCE I 3 Credit Hours
This course provides an overview of the creation and composition of typical compliance programs as laid out in the Federal Sentencing Guidelines and other federal guidance. Students also learn about functions and roles in an organization that supports the compliance function such as senior leadership, the board of directors and compliance committee.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63010 HEALTHCARE COMPLIANCE II 3 Credit Hours
This course focuses on the compliance functions within a healthcare operation that implements, operates and evaluates the existing compliance program.
Prerequisite: HPM 63009; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63011 PUBLIC HEALTH EVALUATION METHODS 3 Credit Hours
This course provides an in-depth review of major concepts, methods and issues involved in evaluating public health programs and policy interventions. Students learn skills needed to conduct and use evaluations, with an emphasis on conceptual, methodological, organizational, political and ethical aspects associated with public health evaluation. Topics include development of evaluation questions, types of program evaluation (process, formative, impact, outcome), evaluation design (experimental, quasiexperimental and nonexperimental designs), collection of evaluation data and dissemination of evaluation results. Students gain practical experience through a series of exercises. Examples of effective methods and approaches are elaborated for multiple public health contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63018 FOUNDATIONS FOR EFFECTIVE PUBLIC HEALTH LEADERSHIP 3 Credit Hours
Intended to provide students with an initial exploration of the leadership practices of public health leaders with an understanding of the basic skill set necessary for successful leadership on a continuing basis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63019 WHOLE SYSTEMS APPROACHES TO LEADING ORGANIZATIONAL CHANGE IN PUBLIC HEALTH 3 Credit Hours
Intended to provide students with an initial exploration and overview of whole systems approaches to organizational change in public health settings, a more detailed working knowledge of key whole systems methodologies and a detailed working knowledge and practical experience with one of the most frequently used and favored whole systems approaches.
Prerequisite: Graduate standing.
Pre/corequisite: HPM 63018.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63020 COMMUNITY HEALTH NEEDS ASSESSMENT 3 Credit Hours
(Slashed with HPM 73020) This course covers concepts and methods relevant to community health needs assessment, such as systems thinking; the use of quantitative and qualitative methods; primary and secondary data; and the role of community assessment in current national policy, including the Affordable Care Act, and on community health improvement. Students draw from multiple disciplines to assess health status and its determinants (social, behavioral and environmental), needs for health services and the capacity and resources of the local community. Students also learn to facilitate and evaluate the use of data for decision making by partnerships, organizations and policy makers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 70199 PROFESSIONAL DEVELOPMENT EXPERIENCE 1 Credit Hour
Students work with faculty advisor to identify and attend at least six professional development activities that strengthen the students' understanding of professional and substantive aspects of the academic and research professions.
Prerequisite: Doctoral standing.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HPM 72016 PUBLIC HEALTH ADMINISTRATION 3 Credit Hours
(Slashed with HPM 62016) Public health administration comprises efforts to improve the health of communities. Provides an overview for public health administration and practice, including organization, law, legislative relations, financing, workforce issues, leadership and surveillance.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 72030 GRANT WRITING IN PUBLIC HEALTH 3 Credit Hours
Doctoral students should take this course at the end of the program of study. Students in this doctoral-level course for public health learn the basics of grant writing for federal (NIH) and non-federal funding agencies with a particular emphasis on the components required of most grant proposals submitted for funding. This includes rationale for seeking funds, collaborations with community organizations and working with consultants and subcontractors. Students also learn about the basic sections of grant writing such as specific aims and hypotheses, developing your literature review, background and significance, research design and methodology, developing a budget and conducting research with human subjects. Students have the opportunity to write sample grant proposals and learn about the review and scoring process and post-award grant management.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 73020 COMMUNITY HEALTH NEEDS ASSESSMENT 3 Credit Hours
(Slashed with HPM 63020) This course covers concepts and methods relevant to community health needs assessment, such as systems thinking; the use of quantitative and qualitative methods; primary and secondary data; and the role of community assessment in current national policy, including the Affordable Care Act, and on community health improvement. Students draw from multiple disciplines to assess health status and its determinants (social, behavioral and environmental), needs for health services and the capacity and resources of the local community. Students also learn to facilitate and evaluate the use of data for decision making by partnerships, organizations and policy makers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 73021 HEALTH CARE FINANCE 3 Credit Hours
Covers the financial environment of health services in the US, including accounting principles, financial statement analysis, delivery models, management control processes of budgeting and capital project analysis, managerial accounting, program development and financial plan.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 73022 STRATEGIC MANAGEMENT OF PUBLIC HEALTH ORGANIZATIONS 3 Credit Hours
Covers basic and advanced principles of strategic management of public health organizations including service area analysis, internal environment analysis, developing and evaluating strategic alternatives and quality indicators.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 73031 PUBLIC HEALTH POLICY ANALYSIS 3 Credit Hours
Provides a framework for conducting public health policy analysis. Applies concepts to case studies of health policies at the local, state and federal levels.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 80089 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND 1-3 Credit Hours
(Repeatable for credit) (Slashed with HPM 60089) Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, postwar trauma, tuberculosis, refugee health, non-communicable disease prevention and environmental contamination.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

HPM 80191 VARIABLE CONTENT SEMINAR IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with HPM 60191) Seminar on current and important topics in health policy and management. Subject matter varies depending on the topic.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HPM 80195 SPECIAL TOPICS IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours
(Slashed with HPM 60195)(Repeatable for maximum of 6 credit hours) Special topics to sample new offerings on topics in health policy and management.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HPM 80196 INDIVIDUAL INVESTIGATION IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours
Individual graduate investigation or research in areas related to health policy and management.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

HPM 80198 DIRECTED RESEARCH IN HEALTH POLICY AND MANAGEMENT 1-15 Credit Hours
(Repeatable for credit) Directed research or individual investigation for doctoral students in the Health Policy and Management concentration.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

HPM 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of Dissertation II and 30 hours of total dissertation work.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HPM 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Registration for two semesters required, first semester dissertation work beings and continues until completion of 30 hours.
Prerequisite: HPM 80199; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HPM 81000 PUBLIC HEALTH LAW AND REGULATION 3 Credit Hours
Enables students to describe, apply and explain key aspects and principles of law, regulation and policy relating to public health issues and topics. Requires students to master the content material for the course and apply it to particular topics or issues relating to public health. Students also are required to design and/or conduct a research project and explain their hypotheses, methods, findings and/or conclusions.
Prerequisite: HPM 62016; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Healthcare Design (HCD)

HCD 60000 HEALTHCARE DESIGN STUDIO 6 Credit Hours
Course integrates and applies expert knowledge in healthcare design. Projects demonstrate solutions through design, case study analysis and in collaboration with industry and healthcare partners.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

HCD 60092 PRACTICAL EXPERIENCE 1 Credit Hour
Course offers students multiple options that allow for first-hand experience with a healthcare facility design project or environment; and to develop professional communication skills, job search skills and how to navigate starting a career in healthcare design.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 1 other
Grade Mode: Standard Letter

HCD 60100 HEALTHCARE SYSTEMS WORKSHOP 3 Credit Hours
Course integrates the knowledge-base gained in other core courses into design evaluations and solutions, helping students apply what they have learned in practice. Focus is on learning about other healthcare systems, design trends and research applications. Students deliver a design project and/or a report of the field trip.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Standard Letter

HCD 60101 HEALTHCARE DESIGN WORKSHOP: CULTURE AND ETHICS 3 Credit Hours
Course integrates the knowledgebase gained in other courses into design evaluations and solutions, helping students apply what they have learned in practice. Focus is on a small design project.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Standard Letter

HCD 61099 MASTER'S PROJECT RESEARCH 3 Credit Hours
Students learn research methods, evaluate precedents and conduct a guided research study investigating specific design goals and parameters in preparation for their individual master's project. They learn to use and apply research and evidence in the healthcare design process. Students use their findings to establish and define design guidelines that help inform their master's projects.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

HCD 62099 MASTER'S PROJECT STUDIO 6 Credit Hours
Focused on an individual student's defined master's project topic. Projects will include site selection, site analysis, and demonstrate creative solutions through design. The course concludes in the design of the topic established in Master's Project Preparation. This is the culminating course for the master's degree in Healthcare Design. This course will be overseen by the course instructor in collaboration with design practitioners.
Prerequisite: HCD 61099; and graduate standing; and special approval.
Schedule Type: Project or Capstone, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

HCD 63001 EVIDENCE-BASED DESIGN IN HEALTHCARE 2 Credit Hours
Course offers the knowledge and skills required for applied research, and the use of credible data in the design decision-making process. Encompasses the evidence-based design (EBD) process, and how it applies in projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HCD 63002 HEALTHCARE FACILITIES 2 Credit Hours
An investigation of the history and types of healthcare facilities, design guidelines and basic planning and programming requirements for their planning and design.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HCD 63003 ENVIRONMENTAL SYSTEMS AND MATERIALS IN HEALTHCARE 2 Credit Hours
An investigation of architectural finishes, furnishings, mechanical systems and lighting in healthcare settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HCD 63004 ENVIRONMENTS OF CARE AND PATIENT POPULATIONS 2 Credit Hours
Course explores the functional, operational and person psychosocial requirements for different patient populations. Focus is on how design can respond to specific patient population needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HCD 63005 PATIENT SAFETY AND SYSTEMS THINKING 2 Credit Hours
Course introduces systems engineering initiative for patient safety as a major interdisciplinary approach known as systems thinking. Covers the basics of human factors in healthcare and the interactive relationship between humans and the environment; including the factors contributing to patient safety in healthcare settings, and the role environments play in patient safety.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

Hebrew (HEBR)

HEBR 12101 ELEMENTARY HEBREW I 4 Credit Hours
An introduction to the modern Hebrew language in the context of Israeli culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

HEBR 12102 ELEMENTARY HEBREW II 4 Credit Hours
A continuation of the introduction to the modern Hebrew language in the context of Israeli culture.
Prerequisite: HEBR 12101.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

HEBR 22104 INTERMEDIATE HEBREW I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: HEBR 12102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEBR 22105 INTERMEDIATE HEBREW II 3 Credit Hours
Continuation of HEBR 22104.
Prerequisite: HEBR 22104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Heritage Languages (HRTG)

HRTG 10101 ELEMENTARY I (VARIABLE LANGUAGE) 4 Credit Hours
An introduction to a heritage language in the context of the culture of its speakers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

HRTG 20202 INTERMEDIATE II (VARIABLE LANGUAGE) 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRTG 30095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced in schedule of classes.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

Higher Education (HIED)

HIED 46525 CAREERS IN HIGHER EDUCATION 3 Credit Hours
Familiarize students with the history of higher education; philosophies of higher education, financial, legal and political issues facing higher education; and the careers available in colleges and universities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 60093 VARIABLE TOPIC WORKSHOP IN HIGHER EDUCATION ADMINISTRATION 1-6 Credit Hours
(Slashed with HIED 70093) Variable topics; designed to respond to specialized needs of various groups with the contexts of trends, issues and problems in the various higher education disciplines.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66492 INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION 3-6 Credit Hours
(Slashed with HIED 76492)(Repeatable for a maximum of 12 credit hours) Field-based internship, minimum 150 clock hours, as approved by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66521 EMPLOYMENT LAW 3 Credit Hours
(Slashed with HIED 76521) Study of public and private sector bargaining law and all terms and conditions of employment.
Prerequisite: Higher education administration and student affairs; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66558 ADVANCED EDUCATIONAL LEADERSHIP 3 Credit Hours
(Slashed with HIED 86558) Course provides the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research writing and teaching skills# to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers.
Prerequisite: HIED 66657; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66592 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours
(Repeatable for credit) (Slashed with HIED 76592) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.
Prerequisite: At least 12 hours in higher education; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66594 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours
(Repeatable for credit) (Slashed with HIED 76594) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.
Prerequisite: At least 12 hours in higher education; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66595 SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 76595)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66596 INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HIED 76596) Individual projects as agreed upon by the instructor and student.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66598 RESEARCH IN HIGHER EDUCATION ADMINISTRATION 2-8 Credit Hours
(Repeatable for credit) Projects as assigned.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66600 HISTORY OF HIGHER EDUCATION 3 Credit Hours
(Cross-listed with CULT 69567 and CULT 79567)(Slashed with HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American higher education from the 17th through the 20th century. Students explore changes in student body curricula and purposes of higher education in the United States in the context of American culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66601 THE PRIVATE LIBERAL ARTS COLLEGE 3 Credit Hours
(Slashed with HIED 76601) Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions as well as the nature of specific examples of institutions.
Prerequisite: Higher education administration and student affairs major; and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66651 STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76651) Study of the history, philosophy, practices and organization of student affairs functions in higher education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66652 LAW AND HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76652) Provides for the examination of major legal aspects of the administration of institutions of higher learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66653 COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE 3 Credit Hours
(Slashed with HIED 76653) Study of theories concerning the development of college students and other adults, and the principles for translating theory into practice. Ed or Ed.S. Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Prerequisite: M.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66654 STUDENTS AND THE COLLEGE ENVIRONMENT 3 Credit Hours
(Slashed with HIED 76654) Study of the impact of different types of students and college environments on each other and within the context of a changing society.
Prerequisite: HIED 66653; and graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66655 CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 76655) Study of management responsibilities and leadership issues of student affairs administrators.
Prerequisite: HIED 66652 and HIED 66653 and HIED 66657; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66656 HIGHER EDUCATION CURRICULUM 3 Credit Hours
(Slashed with HIED 76656) Introduces perspectives on curriculum development, implementation and assessment in higher education. Course addresses theoretical, historical, political and contemporary perspectives on higher education curriculum.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66657 LEADERSHIP IN EDUCATION ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 76657) By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness. Ed or Ed.S. Higher Education Administration and Student Affairs major or Sport Administration major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education.
Prerequisite: M.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66658 THE COMMUNITY COLLEGE 3 Credit Hours
(Slashed with HIED 76658) A study of the foundations, structure, programs and issues of community college education in the United States.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66660 FACULTY ROLES AND RESPONSIBILITIES 3 Credit Hours
(Slashed with HIED 76660) A study of faculty roles and responsibilities in American higher education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66662 POLITICS AND POWER IN ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 76662) Course is designed to provide a conceptual framework for understanding the multifaceted processes of policy-making that take place in both internal and external settings in organizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66663 STATUS OF WOMEN IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76663) Provides a comprehensive overview of the historical, contemporary and scholarly perspectives on women students, faculty, administrators and staff. Students explore why and how women and men experience higher education differently, by drawing on scholarly contributions, feminist theoretical and research perspectives and historical, cultural and psychological contexts. The course considers how the context, recognition of power, other dimensions of identities and desire to change society and the academy have fueled and shaped feminist study of the history and condition of women in higher education. Students explore these issues through various media, and they also have the opportunity to investigate a real-life problem of their choice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66665 TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 76665) Exploration of technology, systems and data analysis essential to the practice of higher education administration. Students examine and apply tools used for the organization, analysis and dissemination of information, including, but not limited to, ERP systems, learning management systems, web applications for data collection and office productivity software. Students perform tasks typically requested of administrators related to budget or workload management, managing lists and or rosters, exploring trend data for decision-making and generating charts, tables and other data for reporting needs. Survey design and construction using online applications are a significant component of this course. It is strongly advised that students taking the course have moderate experience with office productivity software.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66666 FINANCIAL MANAGEMENT IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76666) Course covers financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66667 BUSINESS ADMINISTRATION IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76667) Course introduces students to the administrative and business management of institutions of higher education. Covers topics on institutional planning, space management, insurance matters, personnel administration and purchasing and facility management.
Prerequisite: HIED 66657; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66669 ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76669) Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66670 INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS 3 Credit Hours
(Slashed with HIED 76670) Students study the historical and current development of the internationalization of higher education institutions. They explore higher education administrative leadership characteristics; social, political and economic factors; and national and international relationships that have affected various countries and regions. They also examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions. Ed or Ed.S. Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Prerequisite: M.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66671 THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76671) Course covers racial, ethnic and inclusive diversity and multiculturalism in U.S. higher education settings. Diversity is discussed from a historical perspective, providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; curriculum and pedagogy matters; research issues; law and policy issues; and strategic planning for institution diversity in higher education.
Prerequisite: Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66672 INTERNATIONAL STUDENTS AND AMERICAN COLLEGES 3 Credit Hours
(Slashed with HIED 76672) Course bridges theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level.
Prerequisite: Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66673 RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76673) Examines and analyzes research related to higher education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad is discussed thoroughly.
Prerequisite: Higher education administration and student affairs major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66674 COMPARATIVE HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76674) Students learn the differences between comparative, international and cross-border education. They reflect on how the U.S. higher education system grew out of specific historical, cultural and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate.
Prerequisite: Higher education administration and student affairs major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66675 DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS 3 Credit Hours
(Slashed with HIED 76675) Students examine the many critical aspects of designing, planning and implementing an education abroad program. Students analyze components an education abroad program and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities and safety issues. Students also develop skills in conducting needs assessments and program evaluations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66676 INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS 3 Credit Hours
(Slashed with HIED 76676) Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyze cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning (particularly in higher education contexts) are reviewed, with implications for program design in education abroad, work with international students and other international education contexts.
Prerequisite: Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66677 WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES 3 Credit Hours
(Slashed with HIED 76677) Course examines the role of the community college in workforce, economic and community development and within the context of social, economic and technology shifts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66678 ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION 3 Credit Hours
(Slashed with HIED 76678) Course addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66679 CAREER ADVISING: THEORY AND PRACTICE 3 Credit Hours
(Slashed with HIED 76679) Develop practical skills in providing developmentally appropriate theory based academic and career advising to assist individuals in adding meaningful and purposeful work into their lives.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIED 66680 ADMINISTRATION OF CAREER AND ADVISING SERVICES 1 Credit Hour
(Slashed with HIED 76680) Examines contemporary issues in administration of career and academic advising services. Challenges students to rethink the models and methods used to prepare individuals to enter the workforce and navigate their careers.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HIED 66681 ADMINISTRATION OF ADVISING SERVICES 3 Credit Hours
(Slashed with HIED 76681) Examines contemporary issues in administration of academic advising services. Challenges students to rethink models and methods used to prepare individuals to enter the workforce and navigate their careers.
Prerequisite: HIED 66653; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66733 INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 76733) Students working in task groups learn about interpersonal, group and inter-group dynamics in organizations through lectures, discussions and analysis of their in-group experiences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66745 EQUITY, JUSTICE AND U.S. HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76745) Examines issues of equity and justice in the U.S. higher education, including historical origins, access to higher education, students' experiences within colleges and universities and outcomes of higher education. Course also focuses on the role of higher education as a social institution, including higher education as a public good and the intersection of higher education with current social issues such as labor and free speech.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66749 ASSESSMENT AND ACCREDITATION IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76749) Course provides an understanding of current assessment and evaluation methods in higher education settings. Topics span from individual course assessment through institutional accreditation processes.
Prerequisite: Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, Internationalization of Higher Education or Institutional Research and Assessment.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66755 ADMINISTRATION OF INTERCOLLEGIATE ATHLETICS 3 Credit Hours
(Slashed with HIED 86755) The purpose of this course is to analyze the various administrative roles in intercollegiate athletics within the context of higher education and examine the theory and practice associated with academic integrity and student-athlete wellbeing. In addition, this course will provide an overview of "best practices" pertaining to institutional control as governed by national, conference and institutional regulations.
Prerequisite: Higher Education Administration and Student Affairs major; and graduate standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66789 PLANNING AND IMPLEMENTING STUDY ABROAD WHILE STUDYING ABROAD 3 Credit Hours
(Slashed with HIED 76789) Students learn the principles and practice of designing and delivering effective study- abroad programs through Kent State locations. Students observe summer programs; study the principles of developing effective study abroad experiences; and meet with university program officials, faculty, facility support staff, private third-party providers of study abroad and the community, in addition to such onsite support services as legal advisors, health professionals and housing offices.
Prerequisite: Graduate standing.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

HIED 70093 VARIABLE TOPIC WORKSHOP IN HIGHER EDUCATION ADMINISTRATION 1-6 Credit Hours
(Slashed with HIED 60093) Variable topics# designed to respond to specialized needs of various groups with the contexts of trends, issues and problems in the various higher education disciplines.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76492 INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION 3-6 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Slashed with HIED 66492) Field-based internship of at least 150 clock hours, as approved by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76521 EMPLOYMENT LAW 3 Credit Hours
(Slashed with HIED 66521) Study of public and private sector bargaining law and all terms of employment.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76592 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours
(Repeatable for credit) (Slashed with HIED 66592) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.
Prerequisite: At least 12 hours in higher education; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76595 SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 66595) (Repeatable for credit) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76596 INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HIED 66596) Individual projects as agreed upon by the instructor and student.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76598 RESEARCH IN HIGHER EDUCATION ADMINISTRATION 2-8 Credit Hours
(Repeatable for credit) Projects as assigned.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 2-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76600 HISTORY OF HIGHER EDUCATION 3 Credit Hours
(Cross-listed with CULT 69567 and CULT 79567)(Slashed with HIED 66600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American higher education from the 17th through the 20th century. Students explore changes in student body curricula and purposes of higher education in the United States in the context of American culture.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76601 THE PRIVATE LIBERAL ARTS COLLEGE 3 Credit Hours
(Slashed with HIED 66601) Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions as well as the nature of specific examples of institutions.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76651 STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66651) Study of the history, philosophy, practices and organization of student affairs functions in higher education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76652 LAW AND HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66652) Provides for the examination of major legal aspects of the administration of institutions of higher learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76653 COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE 3 Credit Hours
(Slashed with HIED 66653) Study of theories concerning the development of college students and other adults, and the principles for translating theory into practice.
Prerequisite: PhD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76654 STUDENTS AND THE COLLEGE ENVIRONMENT 3 Credit Hours
(Slashed with HIED 66654) Study of the impact of different types of students and college environments on each other and within the context of a changing society.
Prerequisite: HIED 76653; and doctoral standing; and special approval of the instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76655 CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 66655) Study of management responsibilities and leadership issues of student affairs administrators.
Prerequisite: HIED 76652 and 76653 and 76657; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76656 HIGHER EDUCATION CURRICULUM 3 Credit Hours
(Slashed with HIED 66656) Introduces perspectives on curriculum development, implementation and assessment in higher education and addresses theoretical, historical, political and contemporary perspectives on higher education curriculum.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76657 LEADERSHIP IN EDUCATION ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 66657) By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness.
Prerequisite: PHD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, Internationalization of Higher Education, or Institutional Research and Assessment; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76658 THE COMMUNITY COLLEGE 3 Credit Hours
(Slashed with HIED 66658) A study of the foundations, structure, programs and issues of community college education in the United States.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76660 FACULTY ROLES AND RESPONSIBILITIES 3 Credit Hours
(Slashed with HIED 66660) A study of faculty roles and responsibilities in American higher education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76662 POLITICS AND POWER IN ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 66662) Course is designed to provide a conceptual framework for understanding the multifaceted processes of policy-making that take place in both internal and external settings in organizations.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76663 STATUS OF WOMEN IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66663) Provides a comprehensive overview of the historical, contemporary and scholarly perspectives on women students, faculty, administrators and staff. Students explore why and how women and men experience higher education differently, by drawing on scholarly contributions, feminist theoretical and research perspectives and historical, cultural and psychological contexts. The course considers how the context, recognition of power, other dimensions of identities and desire to change society and the academy have fueled and shaped feminist study of the history and condition of women in higher education. Students explore these issues through various media, and they also have the opportunity to investigate a real-life problem of their choice.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76665 TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 66665) Exploration of technology, systems and data analysis essential to the practice of higher education administration. Students examine and apply tools used for the organization, analysis and dissemination of information, including, but not limited to, ERP systems, learning management systems, web applications for data collection and office productivity software. Students perform tasks typically requested of administrators related to budget or workload management, managing lists and or rosters, exploring trend data for decision-making and generating charts, tables and other data for reporting needs. Survey design and construction using online applications are a significant component of this course. It is strongly advised that students taking the course have moderate experience with office productivity software.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76666 FINANCIAL MANAGEMENT IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66666) Course covers financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76667 BUSINESS ADMINISTRATION IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66667) Course introduces students to the administrative and business management of institutions of higher education. Covers topics on institutional planning, space management, insurance matters, personnel administration and purchasing and facility management.
Prerequisite: HIED 76657; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76669 ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66669) Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76670 INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS 3 Credit Hours
(Slashed with HIED 66670) Students study the historical and current development of the internationalization of higher education institutions. They explore higher education administrative leadership characteristics; social, political and economic factors; and national and international relationships that have affected various countries and regions. They also examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions.
Prerequisite: PhD in Higher Education Administration major or EdS in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76671 THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66671) Course covers racial, ethnic and inclusive diversity and multiculturalism in U.S higher education settings. Diversity is discussed from a historical perspective providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; administrator and leadership issues; curriculum and pedagogy matters; research issues; law and policy issues and strategic planning for institutional diversity in higher education.
Prerequisite: PHD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76672 INTERNATIONAL STUDENTS AND AMERICAN COLLEGES 3 Credit Hours
(Slashed with HIED 66672) Course bridges theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level.
Prerequisite: PHD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76673 RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66673) Examines and analyzes research related to higher education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad is discussed thoroughly.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76674 COMPARATIVE HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66674) Students learn the differences between comparative, international and cross-border education. They reflect on how the United States higher education system grew out of specific historical, cultural and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76675 DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS 3 Credit Hours
(Slashed with HIED 66675) Students examine the many critical aspects of designing, planning and implementing an education abroad program. Students analyze components an education abroad program and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities and safety issues. Students also develop skills in conducting needs assessments and program evaluations.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76676 INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS 3 Credit Hours
(Slashed with HIED 66676) Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyze cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning (particularly in higher education contexts) are reviewed, with implications for program design in education abroad, work with international students and other international education contexts.
Prerequisite: PHD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76677 WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES 3 Credit Hours
(Slashed with HIED 66677) Course examines the role of the community college in workforce, economic and community development and within the context of social, economic and technology shifts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76678 ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION 3 Credit Hours
(Slashed with HIED 66678) Course addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76679 CAREER ADVISING: THEORY AND PRACTICE 3 Credit Hours
(Slashed with HIED 66679) Develop practical skills in providing developmentally appropriate theory based academic and career advising to assist individuals in adding meaningful and purposeful work into their lives.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIED 76680 ADMINISTRATION OF CAREER AND ADIVISING SERVICES 1 Credit Hour
(Slashed with HIED 66680) Examines contemporary issues in administration of career and academic advising services. Challenges students to rethink the models and methods used to prepare individuals to enter the workforce and navigate their careers.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HIED 76681 ADMINISTRATION OF ADVISING SERVICES 3 Credit Hours
(Slashed with HIED 66681) Examines contemporary issues in administration of academic advising services. Challenges students to rethink models and methods used to prepare individuals to enter the workforce and navigate their careers.
Prerequisite: HIED 76653; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76733 INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 66733) Students working in task groups learn about interpersonal, group and inter-group dynamics in organizations through lectures, discussions and analysis of their in-group experiences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76745 EQUITY, JUSTICE AND U.S. HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66745) Examines issues of equity and justice in U.S. higher education, including historical origins, access to higher education, students' experiences within colleges and universities, and outcomes of higher education. Course also focuses on the role of higher education as a social institution, including higher education as a public good and the intersection of higher education with current social issues such as labor and free speech.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76749 ASSESSMENT AND ACCREDITATION IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66749) This course is designed to provide an understanding of current assessment and evaluation methods in higher education settings. Topics will span from course assessment through institutional accreditation processes.
Prerequisite: Higher Education Administration major or Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, Internationalization of Higher Education or Institutional Research and Assessment.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76789 PLANNING AND IMPLEMENTING STUDY ABROAD WHILE STUDYING ABROAD 3 Credit Hours
(Slashed with HIED 76789) Students learn the principles and practice of designing and delivering effective study-abroad programs through Kent State locations. Students observe summer programs; study the principles of developing effective study abroad experiences; and meet with university program officials, faculty, facility support staff, private third-party providers of study abroad and the community, in addition to such onsite support services as legal advisors, health professionals and housing offices.
Prerequisite: Doctoral standing.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

HIED 80080 DISSERTATION PREPARATION SEMINAR 3 Credit Hours
Students gain an in-depth understanding of the dissertation writing process to complete their dissertation proposal.
Prerequisite: PHD in Higher Education Administration major; and doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, the first of which is a semester in which dissertation work is begun and continuation of 30 hours.
Prerequisite: PHD in Higher Education Administration major; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. D. in higher education administration major; and doctoral Standing.
Prerequisite: HIED 80199; and Ph.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 86558 ADVANCED EDUCATIONAL LEADERSHIP 3 Credit Hours
(Slashed with HIED 66558) Course provides the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research writing and teaching skills# to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers.
Prerequisite: HIED 76657; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 86559 ADVANCED STUDENT AND ADULT DEVELOPMENT 3 Credit Hours
Students develop an in-depth understanding of one or more current theories of student or adult development. They gain additional knowledge in student development theory and theory creation.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 86755 ADMINISTRATION OF INTERCOLLEGIATE ATHLETICS 3 Credit Hours
(Slashed with HIED 66755) The purpose of this course is to analyze the various administrative roles in intercollegiate athletics within the context of higher education and examine the theory and practice associated with academic integrity and student-athlete wellbeing. In addition, this course will provide an overview of "best practices" pertaining to institutional control as governed by national, conference and institutional regulations.
Prerequisite: Higher Education Administration and Student Affairs major or Higher Education Administration major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

History (HIST)

HIST 11050 WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM) 3 Credit Hours
World history from early human societies through the mid-17th century.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, TAG History, Transfer Module Humanities

HIST 11051 WORLD HISTORY: MODERN (DIVG) (KHUM) 3 Credit Hours
World history from mid-17th century to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, TAG History, Transfer Module Humanities

HIST 12070 EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM) 3 Credit Hours
A survey of United States history through 1877.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Humanities, TAG History, Transfer Module Humanities

HIST 12071 MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM) 3 Credit Hours
A survey of United States history since 1877.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Humanities, TAG History, Transfer Module Humanities

HIST 30010 NEW DEAL AMERICA AND BEYOND 3 Credit Hours
Examines the impact and meaning of the Depression era, suggesting that the crisis helped to usher in a new way of imagining American society. Beginning with an overview of modernism, modernity and the modern age, the course explores how the New Deal fits into these theories, how specific programs operated under their ideals, and finally, how American society adapted and accepted this 'modern' vision.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30020 THE SIXTIES IN AMERICA 3 Credit Hours
The era of the 1960s outlined the debates and patterns of American history in the latter part of the twentieth century and continues to resonate in our contemporary world. This course examines the seminal events, persons and developments, including JFK's New Frontiers policy; Martin Luther King Jr. and Malcolm X; the March on Washington; Johnson's Great Society; the Vietnam War; the New Left; the counterculture; country music; the rise of modern conservatism; Nixon; Watergate; and the oil crisis, to get a better understanding of the meaning and significance of this crucial era to the history of the United States and the world.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30030 IDEAS IN ACTION: U.S. INTELLECTUAL HISTORY (DIVD) 3 Credit Hours
The idea forms the root of what is intellectual history. The unfolding and discussion of ideas and their application within society outline their path of study. Once the preserve of the thoughts of a select few white men, the field has broadened significantly with the cultural turn in the latter years of the twentieth century to include a more diverse number of voices and issues. Blending these ideas into practice allows us to better witness how history operates both within and outside the confines of the linear structure of time and place.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HIST 30040 NINETEENTH-CENTURY EUROPE 3 Credit Hours
Focus on industrialization and social transformation, political upheavals, intellectual thought, nationalism and foreign policy in Great Britain, France, Prussia and Austria.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30049 MODERN EUROPEAN HISTORY, 1914-1945 3 Credit Hours
Special attention paid to the two world wars, Bolshevik Revolution, rise of fascism and fate of European Jewry.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30050 MODERN EUROPEAN HISTORY: 1945-PRESENT 3 Credit Hours
This course examines Europe as it emerged from the wreckage of the Second World War and confronted the challenges of rapid reindustrialization then deindustrialization, decolonization and the emergence of the Global South, cultural upheaval and political transformation and a globe-encompassing Cold War. Central to the course are two existential questions prompted by this history: (1) what exactly is Europe and, (2) what role should it and its constituent societies play in the postwar world?
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30060 HISTORY OF GERMANY, 1871-PRESENT 3 Credit Hours
Focuses on the impact of industrialization, dilemma of the German left, rise of Nazism and emergence of two German states after 1945.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30070 THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945 3 Credit Hours
Analysis of the political, economic, social and intellectual factors leading to systematic destruction of European Jewry during World War II.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30111 JEFFERSON-JACKSON ERA, 1789-1848 3 Credit Hours
Study of the founding and development of the American nation, especially the periods of Jefferson and Jackson.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30112 THE UNITED STATES: THE WESTWARD MOVEMENT 3 Credit Hours
The process of settlement from its beginnings; consequences for American history.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31000 INTRODUCTION TO PUBLIC HISTORY 3 Credit Hours
A survey of public history including archives, editing, museums and historical agency administration; historic preservation and related skill areas (e.g. artifact analysis, oral history).
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31020 POLIS TO METROPOLIS: HISTORY OF THE EUROPEAN CITY 3 Credit Hours
This course examines urban identities in Europe from antiquity to the present including Greek and Roman cities; medieval cities, city leagues and city law; early modern planned communities, court residences, and commercial metropolises; eighteenth- and nineteenth-century resort towns, nineteenth-century capital cities and industrial cities; the devastation of the World Wars and post-war reconstruction. The course will examine cities as "windows" into the societies they serve; the fortunes and misfortunes of cities will be treated as mirrors of regional economic, political, and social trends. The thematic focus of the course will be on the political "message" encoded in architecture, design and layout and the course will interpret the outward face of cities as an expression of political identity, power, and even civic virtù. This course will be offered primarily at the Stark campus.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31022 THE GREAT POWERS IN WAR AND PEACE, 1792-1914 3 Credit Hours
This course focuses on the nineteenth-century origins of present-day international problems - from risks of unilateralism to the debt crisis of developing countries to the nationalist tendencies in the Balkans to the question of whether a united Germany is compatible with the European equilibrium. Second, this course looks at how nineteenth-century statecraft dealt with issues that still clutter the headlines today such as peacemaking and peacekeeping, the erosion of treaties, alliances among unequal partners, and crisis management. Third, the course will point to the importance of global linkages (i.e. how events in one area of the world were linked to developments in another and how the Balkans, the Middle East, Africa, and East Asia became flashpoints in the foreign relations of Great Powers. This course will be offered primarily at the Stark campus.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31023 THE GREAT POWERS IN WAR AND PEACE, 1914-1945 3 Credit Hours
This course examines the foreign policies of the great powers during and between the world wars, the domestic underpinnings of these policies and how these policies affected civilian populations. While the course examines a broad range of nations and actors, particular emphasis is placed on the emergence of Soviet Russia, Fascist Italy and Nazi Germany, and the question of whether their foreign policies constituted a radical break from or, instead, were rooted in earlier Russian, Italian and German policies.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31024 WORLD WAR II 3 Credit Hours
Survey of one of the greatest political and military events in history, focusing especially on causes, major personalities and chief political, ideological, moral, scientific and diplomatic aspects.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31025 ITALY FROM ROME TO THE RENAISSANCE 3 Credit Hours
A survey of the history of the Italian peninsula from the Roman Empire until the Renaissance, with particular emphasis on turning-point moments in politics, art, literature, theology and philosophy between the fall of Rome and the Renaissance. Throughout the course, developments on the Italian peninsula will be situated within the broader European context.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31026 ITALIAN HISTORY FROM THE RENAISSANCE TO THE ENLIGHTENMENT 3 Credit Hours
This survey course examines key developments in the history of Early Modern Europe until the Enlightenment through the lens of the Italian peninsula's central role in European exploration, thought and religion.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31031 REFORMATIONS IN EARLY MODERN CHRISTIANITY 3 Credit Hours
This course explores the origins, development and consequences of the religious reformations in early modern Europe from the late fifteenth century to the early seventeenth century, drawing on the approaches of social, cultural and intellectual history. It explores the significance of the rise of various Protestant confessions as well as the reform of the Catholic church from the perspectives of popular belief and formal doctrines. A survey of the beliefs of the major Christian confessions - such as Lutheranism, Calvinism and Catholicism - is complemented by an exploration of the intertwining of politics and religion and the social and cultural effects of religious reform.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31032 THE GLOBAL CRISIS OF THE SEVENTEENTH CENTURY 3 Credit Hours
The seventeenth century was a period of crisis especially in Europe, but around the world due to climate change, encounters between peoples from different parts of the globe, the integration of economies, religious tensions and almost constant warfare. This course explores the roots of these crises as well as their consequences. It examines environmental changes; religious tensions; and some of the shifting social, political and economic structures of seventeenth-century Europe. It compares what happened during this period in Europe to other places around the globe, and investigates the interactions between peoples from Europe, Asia, Africa and the Americas.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31033 WITCHES AND EUROPEAN HISTORY, 1500-1800 3 Credit Hours
This course explores fifteenth- through seventeenth-century European witch-hunts and their decline in the eighteenth century through lecture and class discussions of both primary and secondary sources. The course has four parts. The first investigates the development of notions of diabolical witchcraft from the ancient world, while Part two examines the intellectual, gender, religious, social and legal backgrounds that helped cause witch-hunts The final sections explore the dynamics of witchcraft trials. The final section explores the decline of witchcraft.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31034 MURDER MYSTERY AND MAYHEM: THE MEDICI DYNASTY IN FLORENCE 3 Credit Hours
This course explores the dynastic control that the infamous Medici family exerted over every aspect of Florentine life. It explores their rise to power, from the revolutionary and cunning tactics of Cosimo de' Medici, to the rich vision of Lorenzo "Il Magnifico," to Anna Maria Luisa's efforts to establish the Medici legacy forever in the city of Florence. Through an examination of this influential family, their methods of persuasion and power are revealed, which extended far beyond the boundaries of Florence to the papacy and into all corners of Europe.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31035 THE GLOBAL COLD WAR 3 Credit Hours
Explores the Cold War through a global lens. Includes political, diplomatic, cultural and social perspectives.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31036 THE TWENTIETH CENTURY WORLD 3 Credit Hours
This course explores the key political, cultural, social, and economic events that defined and shaped the twentieth century. Topics to be addressed will include imperialism, revolution and war, nationalism and decolonization, and globalization.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31040 AMERICAN HISTORY THROUGH POPULAR MUSIC 3 Credit Hours
Allows students to develop an understanding of the interconnection between the rise of popular music in the period after 1865 to the social, political, and technological changes that this period witnessed and how this helps to understand the meaning and significance of cultural identity in modern American history.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31041 SPORT HISTORY IN THE UNITED STATES 3 Credit Hours
This course will examine and interpret American sports from the colonial era to the present with particular attention to the role of sports in American life and how changes in American life have affected sports. The course also offers an exploration of American social and cultural history with an emphasis on issues such as race, class, gender, foreign policy, nationalism, religion, economics, industrialization, immigration and urbanization as they relate to sports. It is not a course of sports trivia. The main goal of the course is to use sports as a way to better understand American history and American culture. This course will be offered primarily at the Stark campus.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31045 A HISTORY OF CRIME IN THE UNITED STATES 3 Credit Hours
This course will explore the history of "living outside the law" in the nineteenth and twentieth centuries. We will read biographical and autobiographical treatments of and monographs about men and women who committed crimes in these centuries and use them as a lens through which to view the changing experiences, constraints, and self-understandings of people who committed crimes in United States history. Some sections of this course may be offered as part of the Inside Out Program in which the course will take place in a nearby prison or jail and will include students who are incarcerated.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31053 MODERN EUROPE, 1815 TO PRESENT 3 Credit Hours
Covers the political, social, and cultural history of Europe from the peace at the end of the Napoleonic wars to the present.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31055 POLITICS, CULTURE AND SOCIETY OF 20TH-CENTURY EUROPE 3 Credit Hours
This course explores the political, social, cultural and other factors that have marked the path of European history in the last century, from the origins of World War I to the end of the Cold War. The course explores not only the origins and consequences of warfare, but also the ways in which everyday life was transformed in this turbulent era. This course covers the era of "Great Wars," the "economic miracle" after the war, the challenges of the Cold War, generational rebellion, and the formation of the European Union with special attention to the political, social and cultural transformations associated with these developments. The thematic anchors of the first half of the course are "Total War" and "Rebellion against Positivism," while the thematic anchors of the second half of the course are "Rebirth" and "The Two Europes."
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31056 EUROPE IN THE RENAISSANCE 3 Credit Hours
Analysis of the various factors leading Europe from a rural, feudal, ecclesiastical society to one characterized by urbanism, trade, secularism and the state.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31057 THE FRENCH REVOLUTION AND NAPOLEON 3 Credit Hours
Analysis of the causes of revolution in France, political, ideological and social conflict in the construction of French democracy expansion of the revolution outside of France.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31061 HISTORY OF OHIO 3 Credit Hours
This course explores key events and institutions shaping the geographic region that became Ohio from prehistory to present day with an emphasis is on social, cultural, political, and the economic history of the region. Topics include the historical significance of Ohio's geography, the role and contributions of Native American peoples, the transition to statehood, and modern economic and political developments.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31071 AMERICA AND THE WORLD THROUGH 1898 3 Credit Hours
Explores the foundational period of the American interaction with the outside world. Includes consideration of the roots and principles of American international policy, continental consolidation and American incursions in the Western Hemisphere.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31072 AMERICA AND THE WORLD: 1898-1945 3 Credit Hours
Explores the evolving American world role from the Spanish-American War through World War II. Includes consideration of the expanding U.S. interest in Latin America, Asia and elsewhere, as well as the liberal international vision that impelled such interest.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31073 AMERICA AND THE WORLD SINCE 1945 3 Credit Hours
Explores the rise and fall of American global hegemony since World War II. Includes consideration of the Cold War, decolonization, détente and the post-Cold War era.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31074 HISTORY OF ESPIONAGE: FROM JOSHUA TO EDWARD SNOWDEN 3 Credit Hours
This course traces the history of intelligence gathering from the ancient world through the 21st century. The study of spy-networks provides students with an understanding of emerging intelligence systems, including both examples of espionage and counter-intelligence. The course assesses the cultural and political impact of intelligence gathering on society at large and discusses ethical issues such as the balance between privacy and security. While most of the focus is on the United States, the lectures and discussions will also cover Britain, Germany, Japan, China, Israel, and Russia, with considerable attention to World Wars I and II, and the Cold War.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31075 HISTORY OF WOMEN IN THE UNITED STATES 3 Credit Hours
(Cross-listed with WMST 30100) An exploration of the political, economic, social, intellectual and cultural forces that have shaped women's lives, women's thought, perceptions of womanhood and feminism, from 1607 to the present in what is now the United States.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31077 HISTORY OF SEXUALITY IN THE UNITED STATES 3 Credit Hours
This course explores how people living in the United States learned about sex. Together, Americans in all time periods have developed sexual cultures and norms, accommodated themselves to, ignored, creatively interpreted or defied, or changed these cultures and norms over time. We will focus on how sexual cultures and norms of were taught and enforced, and how different types of institutions and professionals (religious leaders, mental health professionals, law enforcement officers, journalists and popular cultural figures), played roles in this process.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31080 AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM 3 Credit Hours
Survey of African American history from the colonial period to 1877. Course provides a general knowledge of the social, political and cultural history of African Americans from colonial times to the end of the Reconstruction.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31082 HISTORY OF THE CIVIL RIGHTS AND BLACK POWER MOVEMENTS IN THE UNITED STATES 3 Credit Hours
This course examines Civil Rights and Black Power movements in the twentieth century and addresses a series of questions still relevant today: How do social movements begin? What leadership styles and protest tactics and strategies work? How do social movements evolve over time? This course also explores the history of the Civil Rights and Black Power movements at Kent State University. Working in the University Archives, students conduct research in original source materials and develop a collaborative digital history project based on their research.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31083 THE HISTORY OF WHITENESS IN THE UNITED STATES 3 Credit Hours
This course will survey the full sweep of the history of the United States to interrogate what exactly "whiteness" was and is and what it has meant throughout the American past. To do so, this course will examine closely a series of crucial turning points in the history of whiteness in the United States: 1) the colonial era and the creation of "whiteness" as an identity; and 2) the evolution of "whiteness" during the long nineteenth and twentieth centuries.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31084 THE INVENTION OF AMERICA: 1492-1714 (DIVD) 3 Credit Hours
Students explore the coming together of European, Native American and African peoples in the Western Hemisphere from 1492 to 1714.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HIST 31085 ALEXANDER HAMILTON'S WORLD: 18TH-CENTURY AMERICA (DIVD) 3 Credit Hours
Students explore 18th-century America, including the American Revolution and its aftermath, with special reference to the decisions and actions of Alexander Hamilton. The course focuses on how 13 disparate English colonies came together to form a new nation in North America during the 18th century. Students study not only the political narrative of this process, but also how the transformation affected society — men and women; rich and poor; and free, slave and American Indian. The life of Alexander Hamilton provides insight into all these topics.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HIST 31087 SECTIONAL CONFLICT AND CIVIL WAR 3 Credit Hours
Differences within the United States, including the controversy over slavery; the Civil War in all its aspects.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31100 RECONSTRUCTION AND THE LATER SOUTH 3 Credit Hours
Controversy during and after the Civil War as to racial and sectional relationships; the post- Reconstruction compromises and their undoing.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31101 WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865 3 Credit Hours
An examination of the impact of conflict and the military upon the society, culture, economy and diplomacy of the United States. Topics include colonial Indian wars, the Revolutionary War, the War of 1812, the Mexican-American War and the Civil War.
Prerequisite: HIST 12070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31102 WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT 3 Credit Hours
An examination of the impact of conflict and the military on the society, culture, economy and diplomacy of the United States. Topics include the frontier Army, the Spanish-American War and empire in the Pacific, the two world wars, the Cold War and the War on Terror.
Prerequisite: HIST 12071.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31104 MIGRATIONS TO AMERICA, 1607 TO PRESENT (DIVD) 3 Credit Hours
Examines the coming together of people from five continents to the United States and provides an overview of shifting patterns of migration both coerced and free to the United States. Starting in the colonial era, when slaves and servants typified the migration to America, this course then follows the migrations of pre-industrial, industrial and post-industrial immigrants; their reception by American institutions and natives; and their efforts to construct communities in a new country.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HIST 31106 PROGRESSIVE AMERICA - REFORMERS, CRUSADERS AND RADICALS: AMERICA, 1893-1929 3 Credit Hours
Major political, economic, social, cultural and diplomatic events from the crisis of the 1890s through the first World War.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31107 NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945 3 Credit Hours
Major political, economic, social, cultural and diplomatic events from the new era of the 1920s through the second World War.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31112 CHINESE CIVILIZATION 3 Credit Hours
General survey of evolution of Chinese civilization from the Bronze Age to the rise of communism.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31113 HISTORY OF JAPAN 3 Credit Hours
General survey of the development of Japan from a loose confederation of clans to a modern industrial state.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31114 TRADITION AND REVOLUTION IN SOUTHEAST ASIA (DIVG) 3 Credit Hours
Focusing on Southeast Asia, this course is organized chronologically around three broad periods: traditional states and societies (to 1800); colonial transformations and indigenous responses (1800-1945); and the emergence of modern nations (since 1945). Within these broad time frames, the course explores several themes, including the origins of indigenous states; the impact of colonial domination; responses to colonial rule; and the nature of post-colonial societies and political systems. Given the size and diversity of the region, the course concentrates on four nation-states: Burma, Thailand, the Philippines and Indonesia.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

HIST 31118 VIETNAM WAR 3 Credit Hours
Study of the causes, evolution and effects of warfare in Vietnam from 1946 to 1975 with special attention to colonialism, nationalism, communism and American intervention.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31124 HIGHLIFE HISTORIES: MODERN AFRICAN URBAN EXPERIENCE 3 Credit Hours
The term "high-life" is most often associated with a musical style originating in Ghana and Sierra Leone in the 1920s and popular to the present day. The music mixed the sounds of American, European, and Caribbean influences within African musical traditions. Just like the music, African urban life has been a mixture of Western notions of town planning, architecture, and politics with African cultural and interpersonal traditions. The history of the African city offers a useful lens into the complicated and creative mixture of African and global sources. This course will focus on this mixing over the 20th century, concentrating on cities such as Harare, Zimbabwe; Accra, Ghana; Lagos, Nigeria; and Nairobi, Kenya.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31126 HISTORY OF THE MIDDLE EAST 3 Credit Hours
A survey of Islamic civilization in Middle Eastern context from the earliest days to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31130 HISTORY OF PRE-COLONIAL AFRICA TO 1880 3 Credit Hours
This course provides a survey of cultural, political, social and economic history of Africa from antiquity to the onset of European colonialism in the 1880s. The history of the Atlantic, Saharan, and East African slave trade will be investigated, as will the contributions of African cultures to world history.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31131 HISTORY OF COLONIAL AFRICA, 1880-1994 3 Credit Hours
This course provides a survey of African experiences with colonialism from the period of formal colonialism to the period of decolonization and the end of settler colonialism in Rhodesia and South Africa. The course explores regional experiences across sub-Saharan Africa and North Africa. The course explores questions of resistance and collaboration and the foundations of post-colonial states in the colonial experience. Gender, class, ethnicity and generational differences are explored at the center of this historical survey.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31132 HISTORY OF POST-COLONIAL AFRICA 3 Credit Hours
This course seeks to challenge students to deconstruct the specific causes, meanings and consequences of political violence in 20th- and 21st-century Africa, in addition to the impact such violence has had on African democratic traditions. Students explore recent and current categories of political violence, including state violence against ethnic and regional minorities. Students also examine the positive contributions of African culture and daily life, with attention to alternative futures for Africans and others based on African experience.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31140 MODERN LATIN AMERICA (DIVG) 3 Credit Hours
This course examines modern Latin America as an historical, geographical, cultural, political and economic zone focusing on the nineteenth and twentieth centuries. It explores the similarities and differences within Latin America as well as between Latin America and other parts of the world. Topics included the impact of colonization and the experience of Indigenous populations, the causes and consequences of political and social revolutions, the success and failures of different political formations and the struggles to sustain economic development.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

HIST 31141 EARLY MODERN LATIN AMERICA (C. 1450-1820) (DIVG) 3 Credit Hours
This course examines the history of Latin America from the late fifteenth to the early nineteenth centuries. It focuses on the political, social, cultural, and economic interactions between Native Americans, Africans and Europeans from the early decades of Iberian exploration and conquest to the independence movements of the early nineteenth century. While attending to the systems of social, racial and gender hierarchy and discrimination implemented by Europeans, the course also emphasizes the significant ways in which Native Americans and Africans resisted and shaped colonization.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

HIST 31543 THE SCIENTIFIC REVOLUTION 3 Credit Hours
A survey of the major social, cultural, and historical developments in the sciences and medicine in Europe from 1500 to 1750.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31550 MEDICINE IN THE MODERN WORLD SINCE 1500 3 Credit Hours
An introduction to the main social, cultural, and intellectual developments in the history of medicine from the Renaissance to the twentieth century using an approach to the history of medicine which emphasizes the interactions between ideas, institutions, and individuals.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 32050 HISTORICAL RESEARCH METHODS 3 Credit Hours
Introduction to the study and practice of historical writing including historical methods, historiography, primary and secondary source research, critical analysis or documentary sources, historical reasoning and the preparation of written reports. Emphasis on developing effective communication skills and research procedures, record-keeping, citation and bibliography.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 37001 FLORENCE THE MYTH OF A CITY 3 Credit Hours
Florence is considered the birthplace of the Renaissance and the cradle of modern Western Civilization because, among the many Italian city-states, it experienced a cultural development that had no precedent in European history. Florentine republicanism is a political paradigm through which we, still today, trace the origins of the values of democracy, freedom, rational thought, individualism, the scientific method and the capacity for critical reflection. This course covers and analyzes different historical eras of Florence from its founding, during the Roman era, up until today. Special attention is given to periods of intensive development in Florence: the re-birth of the Middle Ages, the splendor of the Renaissance, and the crucial role of the Risorgimento, when the city was the capital of the new Kingdom of Italy (1865-1871) and became a center of culture and modern civilization. This course will be offered only in Florence.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 38495 SPECIAL TOPICS IN AREA STUDIES 3 Credit Hours
Special course with a primary focus on the history of a particular place (state, nation, region). Topic as well as chronological and geographical focus will vary by term and by instructor. Exact course titles and descriptions will be inserted into the Schedule of Classes. Repeatable for credit.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 38595 SPECIAL TOPICS IN THEMATIC STUDIES 3 Credit Hours
Special course with a primary focus on the history of a specific topic or theme. Chronological and geographical focus as well as topic will vary by term and by instructor. Exact course titles and descriptions will be inserted into the Schedule of Classes. Repeatable for credit.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 40092 INTERNSHIP IN HISTORY (ELR) 3 Credit Hours
(Repeatable for credit)Student internship at an institution related to the history major (e.g.,historical society, museum, archives, historic preservation organization).
Prerequisite: Junior standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

HIST 40093 WORKSHOP IN HISTORY 1-6 Credit Hours
(Repeatable for credit) (Cross-listed with HIST 50093) Special workshop in history. Topic will vary according to professor.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

HIST 41003 HISTORY OF ANCIENT GREECE 3 Credit Hours
(Slashed with HIST 51003) (Crosslisted with CLAS 41005 and CLAS 51005) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 41006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with CLAS 41006 and CLAS 51006) (Slashed with HIST 51006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 41034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours
(Slashed with HIST 51034 an HIST 71034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 41060 COMPARATIVE FASCISM 3 Credit Hours
(Slashed with HIST 51060 and HIST 71060) Examination of the theories and practices of fascist movements and regimes in 20th-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 49091 SENIOR SEMINAR IN HISTORY (ELR) (WIC) 3 Credit Hours
(Repeatable for credit)History majors complete a significant work of original research based on primary sources. Topics vary by instructor. Enrollment limited to senior history majors.
Prerequisite: HIST 32050 with minimum C grade; and history major; and senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

HIST 49095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours
(Repeatable for a maximum of 18 credit hours) (Slashed with HIST 59095 and HIST 79095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of classes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 49195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours
(Repeatable for maximum 18 credit hours) (Slashed with HIST 59195 and HIST 79195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 49196 INDIVIDUAL INVESTIGATION 2,3 Credit Hours
(Repeatable for credit)
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

HIST 49199 SENIOR HONORS PROJECT (ELR) 3-6 Credit Hours
(Repeatable for credit) Thesis or other independent study or creative project. Required of students seeking to graduate with honors in history.
Prerequisite: Permission (see HONR 40099).
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 3-6 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

HIST 49295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 59295 and HIST 79295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 50093 WORKSHOP IN HISTORY 1-6 Credit Hours
(Slashed with HIST 40093)(Repeatable for credit) Special workshop in history. Topic will vary according to professor.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

HIST 51003 HISTORY OF ANCIENT GREECE 3 Credit Hours
(Slashed with HIST 41003) (Cross-listed with CLAS 41005 and CLAS 51005) The course is a survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 51005 TEACHING WORLD HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 71005) To prepare graduate students to teach world history at the university level. Special focus on integrating non-Western sources and points of view into the world history curriculum, preparation of world history syllabus and justification of selected readings and topics, mastery of on-line and in-class technologies to deliver world history materials.
Prerequisite: Graduate standing in history.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 51006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with CLAS 41006 and CLAS 51006) (Slashed with HIST 41006 and HIST 71006) A survey of Roman history from its beginnings to the Fall of the Roman Empire.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 51034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours
(Slashed with HIST 41034 and HIST 71034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 51060 COMPARATIVE FASCISM 3 Credit Hours
(Slashed with HIST 41060 and HIST 71060) Examination of the theories and practices of fascist movements and regimes in 20th-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 59095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49095 and HIST 59095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Repeatable.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 59195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49195 and HIST 79195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 59295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49295 and HIST 79295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 60092 PUBLIC HISTORY INTERNSHIP 3-6 Credit Hours
(Repeatable for credit) (Slashed with HIST 70092) Students serve an internship at an institution related to their emphasis in public history (e.g.,historical society, museum, archives, historical preservation organization).
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory

HIST 61002 HISTORIOGRAPHY 3 Credit Hours
Development of historical thinking. Students will read excerpts of famous historians and prepare papers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 61070 WRITING SEMINAR IN HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 81070) Students will spend the semester conceptualizing, researching and writing an article-length piece of original historical scholarship. Basic topics to be addressed include prospectus drafting, source identification, historiography, research methods, scholarly writing and revision, oral presentation and professional critiquing. All students will be expected to supplement the guidance they receive from the seminar instructor with regular consultations with their departmental advisors.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62000 READINGS IN EARLY MODERN HISTORY 3 Credit Hours
(Slashed with HIST 82000) This course offers an overview of the major themes and problems in the historical scholarship on early modern Europe and the early modern world. It will also explore different methodological and theoretical approaches drawing from foundational and recent scholarship in intellectual history, cultural history, social history, gender history and global history. Topics may include the Renaissance, Europe's Reformations, the Scientific Revolution and the Enlightenment, the French Revolution, court culture and the rise of absolutism, popular culture and everyday life, Europe's colonial and commercial expansion, the rise of capitalism, urbanization and the emergence of industrialization.
Prerequisite: Graduate Standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62070 AMERICAN HISTORY FROM PRECONTACT NATIVE AMERICA THROUGH THE CIVIL WAR 3 Credit Hours
(Slashed with HIST 82070) This reading colloquium surveys the major aspects of American history from the arrival of Europeans in North America through the colonial period of American history and up to the Civil War and Reconstruction. Students are introduced to both historical content as well as the major historiographical currents in this segment of U.S. history. The aim of the course is to prepare students for comprehensive exams as well as to teach the first half of the U.S. survey course.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62071 AMERICAN HISTORY FROM THE CIVIL WAR TO THE PRESENT 3 Credit Hours
(Slashed with HIST 82071) This reading colloquium surveys major aspects of American history since the Civil War within the historiographical traditions through which they have been understood. The aim of the course is to prepare students for comprehensive exams as well as to teach the second half of the U.S. survey course.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62097 PUBLIC HISTORY COLLOQUIUM 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 72097) Assigned readings, discussions and papers focus on particular emphases and skill areas in public history.
Prerequisite: Graduate standing.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62285 AMERICAN INTELLECTUAL AND CULTURAL HISTORY SINCE 1877 3 Credit Hours
(Slashed with HIST 82285) This colloquium will explore American Intellectual and Cultural History after 1877 by focusing on modernity. Our readings will discuss modernity's evolution from its late nineteenth-century roots to its dismantlement in the current epoch. We will hear, see, and read about this idea and how it is applied to various manifestations within our society, from material culture to advertising, music, and film.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62300 MAJOR READINGS IN THE IMMIGRATION AND MIGRATION HISTORY OF THE UNITED STATES 3 Credit Hours
(Slashed with HIST 82300) This course focuses on immigration, or more accurately, "migration," as an important aspect of the history of the United States. It begins with an introduction to the interdisciplinary and transnational perspectives that define the study of global migration before focusing on the journeys taken by European, Latin American, Asian, and African immigrants to the United States, the often transnational lives led by these immigrants, and the communities they built within the United States. Alongside these concerns, the course will also explore how American society has historically received and reacted to immigrants.
Prerequisite: Graduate Standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62325 MAJOR READINGS IN ASIAN AMERICAN HISTORY 3 Credit Hours
(Slashed with HIST 82325) This course provides a foundational understanding of the history of Asian Americans in the United States, with special emphasis placed upon those groups whose roots in the U.S. go back to the nineteenth century. Key subjects under scrutiny in this course include emigration/immigration; the creation and continuation of ethnic ghettoes; segmented and international labor markets; diasporic and domestic political movements; racial stereotyping; global wars; and cultural changes.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62326 BETWEEN PLOWS AND SWORDS: U.S.-CHINA CULTURAL RELATIONS SINCE THE LATE 1700S 3 Credit Hours
(Slashed with HIST 82326) This seminar explores the beginning, evolution, transformation, and impact of U.S.-China cultural relations since the late 1700s. The United States and China have built a complex and dynamic relationship in the past two and a half centuries. Among the dimensions of that relationship, cultural relations were the oldest, deepest, and most consequential. While non-governmental organizations and individual Americans as well as Chinese played a crucial role in initiating and expanding cultural contacts between the two nations, government intervention and control were intensified over time, turning cultural relations into an instrument to achieve domestic as well as foreign policies goals. How did cultural contacts between the two nations begin? Who were the major players in the making of the Sino-American cultural relations? What were their major goals? How did the U.S. and the Chinese governments get involved in bilateral cultural contact and exchange? What impact did the expansion of cultural ties have on both societies? How were the U.S.-China cultural relations changed during the Cold War? What impact did the Cold War transformation have on cultural relations during and after rapprochement? By addressing these key questions, this course gives students a deeper understanding of the complexity and dynamics of U.S.- China relations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62345 IMAGES AND IDENTITIES IN US FOREIGN RELATIONS 3 Credit Hours
This graduate-level reading colloquium will explore the construction of cultural images and national identities in US foreign relations. Course readings and discussions will deal not only with the ways that Americans have “constructed” other nations but also with how other nations have “constructed” the United States. Themes to be explored include the role of intangibles such as culture in the making of policy; the accuracy or inaccuracy of cultural constructs; and the permanency or malleability of cultural ideas.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62350 REVOLUTION AND REFORM: THE DEPRESSION ERA AND THE TRANSFORMATION OF AMERICAN SOCIETY 3 Credit Hours
(Slashed with HIST 82350) The Depression Era was a transformative time in the history of the U.S. state, but also of the U.S. people. This class engages with key readings in the historical discipline that approach this era with particular sensitivity to how regular Americans experienced, responded to, and shaped this crucial period.
Prerequisite: Graduate Standing.
Schedule Type: Seminar
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

HIST 62360 MARGINALITY AND POWER: HISTORY FROM BELOW 3 Credit Hours
(Slashed with HIST 82360) Who makes history? Every historian must grapple with this question and every generation of modern historians has answered this question in a different way. One response to this question is to write "history from below" and focus on the ways in which common people and historically marginalized groups have contributed to historical changes and developments in their societies and cultures. Throughout this course, we review some of the classic scholarship and new works that engage in the task of writing "history from below." Our goal is to understand how "history from below" has developed over the last few decades and to engage with the important questions about representation and agency that this approach to history raises. A variety of assignments serve to further our exploration of the topic and help us gain some practice not just in analyzing "histories from below," but also doing "history from below."
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62385 HIGH-LIFE HISTORY: AFRICAN URBAN CULTURAL HISTORIES 3 Credit Hours
(Slashed with HIST 82385) This course explores the African city. Whether they live in the metropolises of Johannesburg, Tauba, Nairobi, or Lagos, urban Africans have built diverse landscapes and lives. This class examines those everyday lives, in a cross-cultural exploration of the history of African urban spaces.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62400 THE LENS OF WAR: AMERICAN HISTORY THROUGH THE STUDY OF THE MILITARY 3 Credit Hours
(Slashed with HIST 82400) A survey of the impact conflict and the peacetime military have had on both the history and historiography of colonial America and the United States. Thematic points of emphasis include, but are not limited to civil-military relations, race, national identity, memory, gender, western expansion, American economic development, the growth of the federal government, Cold War culture, and citizenship.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62405 NATIVE WESTS 3 Credit Hours
(Slashed with HIST 82405) This course introduces students to the major analytical frameworks historians use to understand the diverse and complicated encounters between Euro-Americans and Native Americans in what is now the United States from first contact in the sixteenth century through the forced integration of Native nations into the United States after the Civil War. These encounters will be rooted in what was called the history of the "frontier," but is now more commonly described as "western" history or the study of "borderlands." Readings will emphasize sociocultural diversity among Indian societies, Indian agency, and Euro-American policy frameworks for Indian relations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62415 RELIGION AND VIOLENCE IN THE MODERN WEST 3 Credit Hours
(Slashed with HIST 82415) This class explores the role of religion in conflict throughout the modern Atlantic World. It is commonly believed that Western societies underwent a process of secularization in the modern age. However, recent scholarship has proven that religious beliefs and behaviors have retained their power, popularity and causal agency. This course is designed to give graduate students an introduction to recent trends in the writing of the history of religion and violence. Religion will be taken as social, cultural and political history, rather than merely ecclesiastical or theological history. Violence will be taken as rhetorics and cultures of violence, as well as warfare and other acts of physical violence. We will start the class by discussion theories of religion, including "civil religion" as an alleged replacement faith in an era of secularity; sample current debates on the question of the religious causes of violence; then survey prominent monographs and articles that address this nexus historically.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62420 POLICE AND POLICED IN THE U.S. 19TH AND 20TH CENTURIES 3 Credit Hours
(Slashed with HIST 82420) This course traces (backwards, beginning with the most recent material) the historical processes through which policing took on its special character in this country beginning with slave patrols and the emergence of professional policing just before the Civil War. To trace how police transformed their work through 2001, this course explores public opinion; popular culture; technological and bureaucratic changes; relationships between state and non-state violence; and police working conditions, training and self-understandings.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62475 MARXIST REVOLUTION IN VIETNAM 3 Credit Hours
(Slashed with HIST 82475) An examination of the violent upheavals influenced by Marxist thought that overturned traditional Vietnamese political, economic, and social structures over the course of the twentieth century. Course readings explore the chronology, context, and consequences of this revolution as well as the meaning of key concepts such as revolution and modernity.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62485 THE CIVIL WAR AS EXPERIENCED AND REMEMBERED 3 Credit Hours
(Slashed with HIST 82485) This course looks at the U.S. Civil War from the point of view of the men (and occasionally women) who marched, camped, fought, suffered and died during the four years of conflict and the decades after. After giving brief attention to the causes and political issues that led to war, the course focus is on the experiences and reactions of the people called upon to fight it. Rather than concentrate on the famous leaders and generals, students look at the officers and men, civilians and enslaved people and other common folks on both sides who were thrust into the conflict. Some attention is paid to the guerrilla war, the draft, the POW experience and the participation of African Americans and Native Americans. The second part of the course looks at memory, commemoration and the effects of the war on many of these groups in the decades leading into the 20th century.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62500 REGIONAL IDENTITY AND OHIO HISTORY 3 Credit Hours
(Slashed with HIST 82500) As central as Ohio is in our national history, it is often underrepresented in standard historical narratives. This course explores the unfolding of more than two centuries of US history through the lens of the experience and understandings of residents of the State of Ohio. This changed perspective revisits many familiar themes -- indigenous histories, immigration, labor conflict, the Great Depression -- but moving our attention from the coast to the interior often places them in a revealing new light.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62505 SOCIAL MOVEMENTS IN THE 19TH-20TH CENTURY RUST BELT 3 Credit Hours
(Slashed with HIST 82505) This course explores the national and global history of social movements in the nineteenth and twentieth centuries through the lens of the great lakes region. While many social movements have focussed on the coasts, in fact the "Rust Belt" played a disproportionate role in fostering and populating radical movements from abolitionism to temperance to labor unionism as well as repressive movements like the Ku Klux Klan. Alternating between classic historical monographs and regional studies, the class interrogates the meaning of the region's sympathy to radical movements and also suggests a reconception of these movements through a new geographic focus.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 69199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 69299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: HIST 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 69399 CAPSTONE IN HISTORY 3 Credit Hours
Capstone experience required of all MA students who are not writing a thesis. Students will develop an original research project and disseminate their work either through publication or presentation. Projects should integrate primary and secondary source research.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis, Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 69499 INTERDISCIPLINARY PROJECT IN HISTORY 3,6 Credit Hours
Research experience required for all students enrolled in the Master's in History for Secondary School Teachers concentration. Students will draw on their history coursework to complete a substantial piece of research applicable to the work of a practicing teacher. It can be pedagogical in nature, exploring strategies for teaching a particular subject, topic, or historical concept, or might be documentary in nature, such as historically informed teaching materials for a given subject, topic, or concept.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 69896 INDIVIDUAL INVESTIGATION 2,3 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP

HIST 69898 RESEARCH 1-15 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 70092 PUBLIC HISTORY INTERNSHIP 3-6 Credit Hours
(Repeatable for credit) (Slashed with HIST 60092) Students serve an internship at an institution related to their emphasis in public history (e.g.,historical society, museum, archives, historical preservation organization).
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory

HIST 71005 TEACHING WORLD HISTORY 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) (Slashed with HIST 51005) To prepare graduate students to teach world history at the university level. Special focus on integrating non-Western sources and points of view into the world history curriculum, preparation of world history syllabus and justification of selected readings and topics, mastery of on-line and in-class technologies to deliver world history materials.
Prerequisite: Doctoral standing in History.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 71006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with CLAS 41006, CLAS 51006) (Slashed with HIST 41006 and HIST 51006) A survey of Roman history from its beginning to the fall of the Roman empire.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 71034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours
(Slashed with HIST 41034 and HIST 51034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 71060 COMPARATIVE FASCISM 3 Credit Hours
(Slashed with HIST 41060 and HIST 51060) Examination of the theories and practices of fascist movements and regimes in 20th-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 72097 PUBLIC HISTORY COLLOQUIUM 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 62097) Assigned readings, discussions and papers focus on particular emphases and skill areas in public history.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 79095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49095 and HIST 59095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 79195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49195 and HIST 59195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 79295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49295 and HIST 59295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 81002 HISTORIOGRAPHY 3 Credit Hours
Development of historical thinking. Students will read excerpts of famous historians and prepare papers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 81070 WRITING SEMINAR IN HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 61070) Students will spend the semester conceptualizing, researching, and writing an article-length piece of original historical scholarship. Basic topics to be addressed include prospectus drafting, source identification, historiography, research methods, scholarly writing and revision, oral presentation, and professional critiquing. All students will be expected to supplement the guidance they receive from the seminar instructor with regular consultations with their departmental advisors.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82000 READINGS IN EARLY MODERN HISTORY 3 Credit Hours
(Slashed with HIST 62000) This course offers an overview of the major themes and problems in the historical scholarship on early modern Europe and the early modern world. It will also explore different methodological and theoretical approaches drawing from foundational and recent scholarship in intellectual history, cultural history, social history, gender history and global history. Topics may include the Renaissance, Europe's Reformations, the Scientific Revolution and the Enlightenment, the French Revolution, court culture and the rise of absolutism, popular culture and everyday life, Europe's colonial and commercial expansion, the rise of capitalism, urbanization and the emergence of industrialization.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82070 AMERICAN HISTORY FROM PRECONTACT NATIVE AMERICA THROUGH THE CIVIL WAR 3 Credit Hours
(Slashed with HIST 62070) This reading colloquium surveys the major aspects of American history from the arrival of Europeans in North America through the colonial period of American history and up to the Civil War and Reconstruction. Students are introduced to both historical content as well as the major historiographical currents in this segment of U.S. history. The aim of the course is to prepare students for comprehensive exams as well as to teach the first half of the U.S. survey course.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82071 AMERICAN HISTORY FROM THE CIVIL WAR TO THE PRESENT 3 Credit Hours
(Slashed with HIST 62071) This reading colloquium surveys major aspects of American history since the Civil War within the historiographical traditions through which they have been understood. The aim of the course is to prepare students for comprehensive exams as well as to teach the second half of the U.S. survey course.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82285 AMERICAN INTELLECTUAL AND CULTURAL HISTORY SINCE 1877 3 Credit Hours
(Slashed with HIST 82285) This colloquium will explore American Intellectual and Cultural History after 1877 by focusing on modernity. Our readings will discuss modernity's evolution from its late nineteenth-century roots to its dismantlement in the current epoch. We will hear, see, and read about this idea and how it is applied to various manifestations within our society, from material culture to advertising, music, and film.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82300 MAJOR READINGS IN THE IMMIGRATION AND MIGRATION HISTORY OF THE UNITED STATES 3 Credit Hours
(Slashed with HIST 62300) This course focuses on immigration, or more accurately, "migration," as an important aspect of the history of the United States. It begins with an introduction to the interdisciplinary and transnational perspectives that define the study of global migration before focusing on the journeys taken by European, Latin American, Asian, and African immigrants to the United States, the often transnational lives led by these immigrants, and the communities they built within the United States. Alongside these concerns, the course will also explore how American society has historically received and reacted to immigrants.
Prerequisite: Doctoral Standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82325 MAJOR READINGS IN ASIAN AMERICAN HISTORY 3 Credit Hours
(Slashed with HIST 62325) This course provides a foundational understanding of the history of Asian Americans in the United States, with special emphasis placed upon those groups whose roots in the U.S. go back to the nineteenth century. Key subjects under scrutiny in this course include emigration/immigration; the creation and continuation of ethnic ghettoes; segmented and international labor markets; diasporic and domestic political movements; racial stereotyping; global wars; and cultural changes.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82326 BETWEEN PLOWS AND SWORDS: U.S.-CHINA CULTURAL RELATIONS SINCE THE LATE 1700S 3 Credit Hours
(Slashed with HIST 62326) This seminar explores the beginning, evolution, transformation, and impact of U.S.-China cultural relations since the late 1700s. The United States and China have built a complex and dynamic relationship in the past two and a half centuries. Among the dimensions of that relationship, cultural relations were the oldest, deepest, and most consequential. While non-governmental organizations and individual Americans as well as Chinese played a crucial role in initiating and expanding cultural contacts between the two nations, government intervention and control were intensified over time, turning cultural relations into an instrument to achieve domestic as well as foreign policies goals. How did cultural contacts between the two nations begin? Who were the major players in the making of the Sino-American cultural relations? What were their major goals? How did the U.S. and the Chinese governments get involved in bilateral cultural contact and exchange? What impact did the expansion of cultural ties have on both societies? How were the U.S.-China cultural relations changed during the Cold War? What impact did the Cold War transformation have on cultural relations during and after rapprochement? By addressing these key questions, this course gives students a deeper understanding of the complexity and dynamics of U.S.- China relations.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82345 IMAGES AND IDENTITIES IN US FOREIGN RELATIONS 3 Credit Hours
This graduate-level reading colloquium will explore the construction of cultural images and national identities in US foreign relations. Course readings and discussions will deal not only with the ways that Americans have “constructed” other nations but also with how other nations have “constructed” the United States. Themes to be explored include the role of intangibles such as culture in the making of policy; the accuracy or inaccuracy of cultural constructs; and the permanency or malleability of cultural ideas.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82350 REVOLUTION AND REFORM: THE DEPRESSION ERA AND THE TRANSFORMATION OF AMERICAN SOCIETY 3 Credit Hours
(Slashed with HIST 62350) The Depression Era was a transformative time in the history of the U.S. state, but also of the U.S. people. This class engages with key readings in the historical discipline that approach this era with particular sensitivity to how regular Americans experienced, responded to, and shaped this crucial period.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 0 lecture, 0 lab, 3 other
Grade Mode: Standard Letter

HIST 82360 MARGINALITY AND POWER: HISTORY FROM BELOW 3 Credit Hours
(Slashed with HIST 62360) Who makes history? Every historian must grapple with this question and every generation of modern historians has answered this question in a different way. One response to this question is to write "history from below" and focus on the ways in which common people and historically marginalized groups have contributed to historical changes and developments in their societies and cultures. Throughout this course, we review some of the classic scholarship and new works that engage in the task of writing "history from below." Our goal is to understand how "history from below" has developed over the last few decades and to engage with the important questions about representation and agency that this approach to history raises. A variety of assignments serve to further our exploration of the topic and help us gain some practice not just in analyzing "histories from below," but also doing "history from below."
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82385 HIGH-LIFE HISTORY: AFRICAN URBAN CULTURAL HISTORIES 3 Credit Hours
(Slashed with HIST 62385) This course explores the African city. Whether they live in the metropolises of Johannesburg, Tauba, Nairobi, or Lagos, urban Africans have built diverse landscapes and lives. This class examines those everyday lives, in a cross-cultural exploration of the history of African urban spaces.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82400 THE LENS OF WAR: AMERICAN HISTORY THROUGH THE STUDY OF THE MILITARY 3 Credit Hours
(Slashed with HIST 62400) A survey of the impact conflict and the peacetime military have had on both the history and historiography of colonial America and the United States. Thematic points of emphasis include, but are not limited to civil-military relations, race, national identity, memory, gender, western expansion, American economic development, the growth of the federal government, Cold War culture, and citizenship.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82405 NATIVE WESTS 3 Credit Hours
(Slashed with HIST 62405) This course introduces students to the major analytical frameworks historians use to understand the diverse and complicated encounters between Euro-Americans and Native Americans in what is now the United States from first contact in the sixteenth century through the forced integration of Native nations into the United States after the Civil War. These encounters will be rooted in what was called the history of the "frontier," but is now more commonly described as "western" history or the study of "borderlands." Readings will emphasize sociocultural diversity among Indian societies, Indian agency, and Euro-American policy frameworks for Indian relations.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82415 RELIGION AND VIOLENCE IN THE MODERN WEST 3 Credit Hours
(Slashed with HIST 62415) This class explores the role of religion in conflict throughout the modern Atlantic World. It is commonly believed that Western societies underwent a process of secularization in the modern age. However, recent scholarship has proven that religious beliefs and behaviors have retained their power, popularity and causal agency. This course is designed to give graduate students an introduction to recent trends in the writing of the history of religion and violence. Religion will be taken as social, cultural and political history, rather than merely ecclesiastical or theological history. Violence will be taken as rhetorics and cultures of violence, as well as warfare and other acts of physical violence. We will start the class by discussion theories of religion, including "civil religion" as an alleged replacement faith in an era of secularity; sample current debates on the question of the religious causes of violence; then survey prominent monographs and articles that address this nexus historically.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82420 POLICE AND POLICED IN THE U.S. 19TH AND 20TH CENTURIES 3 Credit Hours
(Slashed with HIST 62420) This course traces (backwards, beginning with the most recent material) the historical processes through which policing took on its special character in this country beginning with slave patrols and the emergence of professional policing just before the Civil War. To trace how police transformed their work through 2001, this course explores public opinion; popular culture; technological and bureaucratic changes; relationships between state and non-state violence; and police working conditions, training and self-understandings.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82475 MARXIST REVOLUTION IN VIETNAM 3 Credit Hours
(Slashed with HIST 62475) An examination of the violent upheavals influenced by Marxist thought that overturned traditional Vietnamese political, economic, and social structures over the course of the twentieth century. Course readings explore the chronology, context, and consequences of this revolution as well as the meaning of key concepts such as revolution and modernity.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82485 THE CIVIL WAR AS EXPERIENCED AND REMEMBERED 3 Credit Hours
(Slashed with HIST 62485) This course looks at the U.S. Civil War from the point of view of the men (and occasionally women) who marched, camped, fought, suffered and died during the four years of conflict and the decades after. After giving brief attention to the causes and political issues that led to war, the course focus is on the experiences and reactions of the people called upon to fight it. Rather than concentrate on the famous leaders and generals, students look at the officers and men, civilians and enslaved people and other common folks on both sides who were thrust into the conflict. Some attention is paid to the guerrilla war, the draft, the POW experience and the participation of African Americans and Native Americans. The second part of the course looks at memory, commemoration and the effects of the war on many of these groups in the decades leading into the 20th century.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82500 REGIONAL IDENTITY AND OHIO HISTORY 3 Credit Hours
(Slashed with HIST 62500) As central as Ohio is in our national history, it is often underrepresented in standard historical narratives. This course explores the unfolding of more than two centuries of US history through the lens of the experience and understandings of residents of the State of Ohio. This changed perspective revisits many familiar themes -- indigenous histories, immigration, labor conflict, the Great Depression -- but moving our attention from the coast to the interior often places them in a revealing new light.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82505 SOCIAL MOVEMENTS IN THE 19TH-20TH CENTURY RUST BELT 3 Credit Hours
(Slashed with HIST 62505) This course explores the national and global history of social movements in the nineteenth and twentieth centuries through the lens of the great lakes region. While many social movements have focussed on the coasts, in fact the "Rust Belt" played a disproportionate role in fostering and populating radical movements from abolitionism to temperance to labor unionism as well as repressive movements like the Ku Klux Klan. Alternating between classic historical monographs and regional studies, the class interrogates the meaning of the region's sympathy to radical movements and also suggests a reconception of these movements through a new geographic focus.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 89199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 89299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: HIST 89199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 89896 INDIVIDUAL INVESTIGATION 2,3 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP

HIST 89898 RESEARCH 1-15 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral Standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Honors (HONR)

HONR 10010 HONORS LEADERSHIP ACADEMY 2 Credit Hours
This course will examine effective leadership in the public and nonprofit sectors from both a theoretical and practical perspective. Using course readings, discussions, and assignments students will be challenged and equipped to serve as actively engaged citizens at the university and in the greater community. Students will examine the complexities of generational leadership, working in groups, using effective communication, inspiring a shared vision and purpose, group problem solving, and decision making, ethical leadership, civic engagement, and leading in communities of difference. This class will feature multiple learning methods including lectures, class discussion, case studies, group exercises, in and out-of-class assignments, presentations, and self-reflection. This course aims to teach first semester Honors freshmen students how to be engaged Honors College leaders from the beginning of their college career.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HONR 10096 INDIVIDUAL HONORS WORK 1-4 Credit Hours
(Repeatable for credit) Directed independent study for freshmen in any department.
Prerequisite: Special approval of department.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 10197 FRESHMAN HONORS COLLOQUIUM I (KCMP) 3 Credit Hours
(Repeatable for credit) Required of all honors freshmen and can be taken in lieu of College Writing. Stresses exploration, discussion and communication of ideas expressed in works related to theme of colloquium.
Prerequisite: Admitted to the Honors College.
Schedule Type: Colloquium
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Composition

HONR 10297 FRESHMAN HONORS COLLOQUIUM II (KCMP) 3 Credit Hours
(Repeatable for credit) Continuation of HONR 10197, and can be taken in lieu of ENG 21011.
Prerequisite: Admitted to the Honors College.
Schedule Type: Colloquium
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Composition

HONR 13597 COLLOQUIUM: THE WESTERN IDENTITY (KADL) 3 Credit Hours
(Repeatable for credit) Focuses on Western and non-Western cultures from a comparative perspective, in order to identify both different and shared values and to see how one's own culture shapes one's perspective, ideology, and values.
Prerequisite: Admitted to the Honors College; and special approval.
Schedule Type: Colloquium
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Additional

HONR 20096 INDIVIDUAL HONORS WORK 1-4 Credit Hours
(Repeatable for credit) Directed independent study for sophomores in any department.
Prerequisite: Special approval of the department.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 20197 SOPHOMORE COLLOQUIUM 1-4 Credit Hours
(Repeatable for credit) One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to a single theme, by means of readings, discussion and individual papers and projects.
Prerequisite: Admitted to the Honors College.
Schedule Type: Colloquium
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 30096 INDIVIDUAL HONORS WORK 1-4 Credit Hours
(Repeatable for credit) Directed independent study for juniors in any department.
Prerequisite: Special approval of department.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 30197 JUNIOR COLLOQUIUM 1-4 Credit Hours
(Repeatable for credit) One-semester course or two-semester sequence for juniors or seniors exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.
Prerequisite: Admitted to the Honors College.
Schedule Type: Colloquium
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 30297 JUNIOR COLLOQUIUM 1-4 Credit Hours
(Repeatable for credit) One-semester course or two-semester sequence for juniors or seniors exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.
Prerequisite: Admitted to the Honors College.
Schedule Type: Colloquium
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 40085 SENIOR HONORS PORTFOLIO 1 Credit Hour
Construction of a senior portfolio, consisting of a collection of artifacts and a reflective essay interpreting the student's growth during the college years.
Prerequisite: Senior standing.
Schedule Type: Individual Investigation
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

HONR 40096 INDIVIDUAL HONORS WORK 1-4 Credit Hours
(Repeatable for credit) Directed independent study for seniors in any department.
Prerequisite: Prior special approval of instructor; and special approval of and preregistration with Honors College.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 40099 SENIOR HONORS THESIS/PROJECT (ELR) 1-10 Credit Hours
(Repeatable for credit) Thesis or creative project.
Prerequisite: Special approval of department.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 1-10 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

HONR 40197 SENIOR COLLOQUIUM 1-4 Credit Hours
(Repeatable for credit) One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.
Prerequisite: Admitted to the Honors College.
Schedule Type: Colloquium
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 40297 SENIOR COLLOQUIUM 1-4 Credit Hours
(Repeatable for credit) One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.
Prerequisite: Admitted to the Honors College.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

Horticulture (HORT)

HORT 10195 SPECIAL TOPICS IN HORTICULTURE 1-3 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in horticulture not covered in regular courses.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HORT 16002 INTRODUCTION TO AGROECOLOGY 3 Credit Hours
One of the major prerequisites for specialized courses, this is intended for freshmen students. This agroecology course will cover the principles and practices of creating sustainable and equitable food systems through an interdisciplinary approach to agriculture and horticulture systems. Students will learn about ecological processes, social and economic factors, environmental and health impacts, and practical farming skills such as crop rotation, intercropping and composting.
Prerequisite: BSCI 16001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 16003 INTRODUCTION TO HORTICULTURE TECHNOLOGIES AND SENSORS 1 Credit Hour
This is an introductory course to horticulture technologies and sensors that covers the principles and practices of using technology to enhance the efficiency and sustainability of horticulture. Students will learn about different types of sensors and how they are used in horticulture, as well as the latest trends in horticultural technology, including precision agriculture and automation. This course is for students interested in the latest advances in horticulture technology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

HORT 16004 DRONE TECHNOLOGY FOR HORTICULTURE 3 Credit Hours
This course will cover the principles and practices of using drones to improve the efficiency and effectiveness of horticultural operations. Students will learn about the different types of drones and sensors used in horticulture, as well as how to collect and analyze data for crop mapping, plant health monitoring and yield estimation. The course will also cover the regulatory and safety considerations for using drones in horticulture.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 16010 FLORAL DESIGN I 3 Credit Hours
Introduction to the concepts and practices of floral design for use in commercial settings. Topics include floral design theory, history, techniques and the skills required in the commercial floral design industry. Lab experience covers construction of basic floral products.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

HORT 16011 FLORAL DESIGN II 3 Credit Hours
Advanced training in a broad array of floral design applications including wedding design, contemporary European and Asian design, tropical flowers and outdoor compositions. Students will be provided hands-on laboratory activities to apply the principles of design.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

HORT 16020 PLANT MATERIALS I 3 Credit Hours
Design, selection, culture, and maintenance of flowering plants and foliage including annuals, perennials, bulbs and tropical plants for indoor and outdoor use.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 16021 WHOLESALE FLORICULTURE 3 Credit Hours
Commercial production, marketing, inventory management and post-harvest care associated with the floriculture industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 16022 GREENHOUSE STRATA 3 Credit Hours
Introduction to growing containerized plants in greenhouses and nurseries. Emphasis will be on issues related to traditional and alternative substrates, root media, irrigation practices, and soil matter.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 26001 OCCUPATIONAL REGULATIONS AND SAFETY 2 Credit Hours
Presentation of the basic standards, rules, safety regulations and laws pertaining to horticultural and related industries which will affect the work atmosphere.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HORT 26002 EMERGING TECHNOLOGIES IN HORTICULTURE AND PLANT SYSTEMS 3 Credit Hours
Course covers the principles behind these technologies and how they are being applied in various settings, from greenhouses and hydroponics systems to field-grown crops. Students will also have the opportunity to gain hands-on experience with some of these technologies through lab activities and projects. In addition to learning about the technical aspects of these technologies, students will explore potential social and ethical implications. Students will consider the role of biotechnology in addressing food security challenges and the potential impacts of precision agriculture on the environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 26003 ARBORICULTURE AND URBAN FORESTRY MANAGEMENT 3 Credit Hours
Course covers the principles and practices of managing trees in urban environments for both aesthetic and ecological purposes. Students learn about tree biology; tree selection and planting; tree care; pruning; pest and disease management; and risk assessment. The course also covers the importance of trees in urban ecosystems and the social, economic and environmental benefits they provide. Students gain a deep understanding of the role of trees in urban environments and develop the skills to manage them sustainably.
Prerequisite: BSCI 16001 and HORT 16003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 26006 SUSTAINABLE HORTICULTURAL SYSTEMS 3 Credit Hours
Course will provide the students with a holistic and solid understanding of sustainable horticulture. It emphasizes understanding the sustainable horticulture concepts, implications and common sustainable approaches and practices. The course focuses on the sustainable and innovative systems of horticultural crop production, such as hydroponics, aquaponics, and vertical farming, in addition to other tools and technologies for horticultural development. The course provides in-depth knowledge of the principles and practices of horticultural food crop production, including vegetables, herbs, fruits, and nuts) as well as agroforestry and sustainable landscaping. The course provides an overview of the role of precision farming innovations for a sustainable future.
Prerequisite: BSCI 16001 and BSCI 26002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 26016 IRRIGATION DESIGN AND MAINTENANCE 3 Credit Hours
Principles of irrigation design, installation maintenance and drainage. Specific information about the selection of sprinkler heads, pipe, pumps, basic hydraulics, water conservation methods and automatic control systems shall be explored. Drawing of irrigation plans shall be required.
Prerequisite: BSCI 16001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

HORT 26020 LANDSCAPE MANAGEMENT 3 Credit Hours
A detailed discussion and practice of managing trees, shrubs and flowers within the landscape. Additional concepts such as the types of equipment used in the "green industry," marketing, writing specifications, bidding projects and personnel management.
Prerequisite: BSCI 16001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Horticulture

HORT 26030 TURF GRASS MANAGEMENT 3 Credit Hours
Basic principles of turf management. Covers turf equipment and the safe use of equipment commonly found in the turf industry. Lecture two hours weekly; lab three hours weekly; course offered only at the Salem campus.
Prerequisite: BSCI 16001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: CTAG Horticulture

HORT 26032 GOLF COURSE MANAGEMENT 3 Credit Hours
The golf course environment as it relates to turf grass maintenance and pest/disease management. The construction and management of greens, tees, water and bunker management practices, turf aerification issues, topdressing and administrative concerns.
Prerequisite: BSCI 16001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 26046 LANDSCAPE DESIGN I 3 Credit Hours
An introduction to landscape appreciation and history, the landscape industry and elements of the landscape design process. Students will assess proper plant placement and uses, develop graphic communication skills and present a project. Field trips and project site work as required.
Prerequisite: BSCI 16001 and BSCI 26003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 30195 SPECIAL TOPICS IN HORTICULTURE 3 Credit Hours
(Repeatable for credit) Analysis of significant and current topics in horticulture not covered in regular classes.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

HORT 35092 HORTICULTURE PRACTICUM (ELR) 3 Credit Hours
Course is designed for students to acquire the necessary skills to perform professionally in the horticulture industry. This course requires a minimum of 30 hours per week of work experience.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

HORT 36004 MARKET GARDEN PRODUCTION 3 Credit Hours
Course will cover the principles and practices of growing and marketing crops on a small scale for local markets. Students will learn about site selection, soil management, crop planning and rotation, irrigation, pest and disease management and post-harvest handling. The course will cover marketing strategies for selling crops directly to consumers, including farmers markets, community-supported agriculture (CSA) and online sales.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 36005 ORCHARD PRODUCTION - DECIDUOUS AND EVERGREEN 3 Credit Hours
Course covers the principles and practices of commercial fruit tree production, including fruit, nut and citrus trees. Students learn about orchard establishment, including site selection, planting and irrigation; in addition to tree management techniques such as pruning, thinning and pest and disease management. The course also covers fruit tree physiology, fruit development and post-harvest handling.
Prerequisite: BSCI 16001 and BSCI 26003; or BSCI 26004.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 36014 PLANT PROPAGATION AND GREENHOUSE PRODUCTION 3 Credit Hours
Asexual/vegetative propagation including anatomical and physical concepts. Techniques covered include cuttings, budding, grafting, layering, dividing and micropropagation. Plant propagation by seeding and plugs are promoted along with crop production. Students provide an annual production schedule. Lecture two hours weekly; lab three hours weekly.
Prerequisite: BSCI 16001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 36018 LANDSCAPE CONSTRUCTION II 3 Credit Hours
Advanced landscape construction techniques involved in landscape contracting with an emphasis on the overall layout and planning of a landscape project. Students master and research product documentation, layout plans, written specifications and detailed construction drawings as they pertain to built landscape environments. Specific field site work with real world applications. Lecture two hours weekly; lab 3 hours weekly.
Prerequisite: Junior or senior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 36025 PROFESSIONAL PRACTICE IN HORTICULTURE (WIC) 3 Credit Hours
Investigation into owning and operating a green industry company including customer relations, wholesale and retail marketing, project bidding, potential profit and loss margins, communication requirements, and overall services to public and private clientele.
Prerequisite: HORT 26001 and HORT 26016.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HORT 36034 SPORTS TURF MANAGEMENT 3 Credit Hours
Identification of grass plant species; culture and morphology; turf ecology with practical information on turf establishment and cultural practices. Covers issues of design, renovation, and maintenance of sports grounds and facilities. Class requires 20 hours service learning component.
Prerequisite: HORT 26030; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 36046 LANDSCAPE DESIGN II 3 Credit Hours
Advanced landscape design looking at overall landscape planning, including site and planting design, site amenities, irrigation design and client needs. Special attention to communication formats such as color rendering and graphics, as well as to overall presentation. Some design modeling and graphic sketching are included.
Prerequisite: HORT 26032 or HORT 26046; and junior or senior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 36092 INTERNSHIP IN HORTICULTURE (ELR) 1-4 Credit Hours
(Repeatable for credit) Internship experience in an advanced field of study within the horticulture/green industry, building on the student's understanding of science-based fundamentals. Internship requires a minimum of 210 working hours with an approved public organization or private green industry firm, and 2 hours per week consultation on independent research as approved and supervised by the academic program director. Work includes supporting documentation and written reports as deemed appropriate give the subject studied.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HORT 36195 SPECIAL TOPICS IN HORTICULTURE 3 Credit Hours
Analysis of significant and current topics in horticulture not covered in regular classes.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 41096 INDIVIDUAL INVESTIGATION IN HORTICULTURE 1-3 Credit Hours
(Repeatable for credit)Research under the direction of a horticulture faculty/program director mentor. Investigation of specific horticulture topics that build upon previous concentration areas of study.
Prerequisite: Junior or senior standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

HORT 46008 FLORICULTURE AND ORNAMENTAL PLANTS 3 Credit Hours
Course will cover the principles and practices of producing and using ornamental plants for aesthetic and functional purposes. Students will learn about the biology and physiology of ornamental plants, as well as techniques for plant propagation, production and post-harvest handling. The course will also cover the design and management of ornamental landscapes, including plant selection, placement and maintenance.
Prerequisite: BSCI 16001 and BSCI 26002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 46009 ADVANCES IN VITICULTURE PRODUCTION 3 Credit Hours
Course will cover the principles and practices of grapevine production and management. Students will learn about vineyard establishment and maintenance, including site selection, soil preparation, planting, trellising, and irrigation. The course will cover grapevine physiology and biology, including grape development, canopy management, pest and disease management and harvest and post-harvest handling.
Prerequisite: BSCI 16001 and BSCI 26002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 46013 INTERNET OF THINGS AND ARTIFICIAL INTELLIGENCE IN PRECISION FARMING: TECHNOLOGIES AND APPLICATIONS 3 Credit Hours
Course covers the principles and practices of using cutting-edge technologies such as the Internet of things (IoT) and artificial intelligence (AI) in precision agriculture. Students learn about the sensors, drones and other IoT devices used in agriculture, as well as the data analysis and machine learning techniques used in AI. The course covers the applications of these technologies in crop management, soil monitoring, pest and disease control and yield prediction.
Prerequisite: HORT 16003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 46014 GARDEN CENTER AND NURSERY PRODUCTION MANAGEMENT 3 Credit Hours
Survey of plant production of container, bare-root, balled-in-burlap plant materials in a nursery setting. Exploration of physiological principles involved, including planting, maturity dates for harvest, shipping, garden center activities and wholesale and retail marketing of stock.
Prerequisite: BSCI 26002 and BMRT 11000; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 46092 PRACTICUM IN HORTICULTURE (ELR) 3 Credit Hours
(Repeatable for credit) An in-depth individual project, combining field experiences with original research within a green industry niche. Area of interest supports the student's educational goals given their intended concentration of past class work.
Prerequisite: HORT 36092; and junior or senior standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

Hospitality and Event Management (HEM)

HEM 13022 SANITATION AND SAFETY PRINCIPLES AND PRACTICES 3 Credit Hours
This course is designed to prepare future hospitality managers to plan for and react to potentially dangerous situations that occur in the hospitality industry including food borne illness identification and prevention, safe alcohol service and management and CPR and First Aid administration. As part of the curriculum, students will train and become certified with the following regulatory authorities: ServSafe Manager/Ohio Level II food safety training, TIPs On Premise alcohol safety training and CPR/AED/1st Aid training.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service, ITAG Culinary and Food Service

HEM 13023 FUNDAMENTALS OF FOOD PRODUCTION 3 Credit Hours
This course focuses on basic to intermediate culinary fundamentals in the commercial kitchen, as well as kitchen management practices and procedures.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service

HEM 13024 INTRODUCTION TO HOSPITALITY MANAGEMENT 3 Credit Hours
An in-depth study of the career possibilities and opportunities in the hospitality and food service industries: including the aptitudes, skills, and knowledge needed to be successful. In a student's career venture and search for job satisfaction, the most rewarding decisions come from being aware of all the available options and career paths. The Hospitality Industry is vast in scope and volume of business. It is a growing, dynamic, and electrifying industry which will be examined initially through this intro course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service

HEM 20040 THE BUSINESS OF EVENT MANAGEMENT 3 Credit Hours
The course is designed as an introduction of the complex event management industry. The event planning cycle is the foundation for discovering the role of social life cycle events, non-profit and corporate events in our global economy.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 20160 SAFETY AND SECURITY RISK MANAGEMENT 3 Credit Hours
Students gain an understanding of the concepts related to risk management including duty of care, risk assessment, planning and evaluative of risk techniques used within the hospitality event management field. Focus will be on how to manage, reduce and transfer risks in order to provide a safe and secure environment for events.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 20201 FOOD AND BEVERAGE MANAGEMENT 3 Credit Hours
This class is designed to provide students with key concepts and practical skills that they need to be effective foodservice managers. Emphasis is placed on the role of food and beverage in the hospitality industry, types of food and beverage, menu development and analysis, marketing, personnel management, supply chain management, corporate social responsibility.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 20250 ADVANCED FOOD PRODUCTION 3 Credit Hours
A continuation of Fundamentals of Food Production. This course focuses on the integration of students' prior culinary training, academic studies and experience in the field with high quality ingredients, advanced cooking techniques and contemporary food preparation and stylings. In building on fundamentals previously learned, the students will examine the details of cuisine including food science, regionality, history, seasoning and flavoring techniques, plating and presentation methods.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter

HEM 21095 SPECIAL TOPICS IN HOSPITALITY AND EVENT MANAGEMENT 1-4 Credit Hours
(Repeatable for credit) Discussion of a major discipline or subject within the hospitality industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HEM 23030 HOTEL OPERATIONS 3 Credit Hours
The purpose of this course is to give students a basic understanding of the overall hotel operations. Students will be introduced to the principles and practices of managerial functions relating to the operation of hotels and other accommodations.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service

HEM 23212 INTRODUCTORY FOOD SCIENCE 3 Credit Hours
(Cross-listed with NUTR 23012) Principles of food preparation and quality evaluation, with an emphasis on food science concepts, nutrition, food consumption trends and government regulation.
Prerequisite: NUTR 23511.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: TAG Health

HEM 23335 HOSPITALITY EXPERIENCE MANAGEMENT 3 Credit Hours
A significant element in the service industry is managing customers' experiences. In order to provide a comprehensive, inter- and multi-disciplinary view, the course will be constructed in three modules. The first module will present the characteristics and dynamics of the service encounter. The second module will focus on successful service encounters (service quality) and its outcome (customer experience). The third module will present the dynamics of service delivery process, including service failure and service recovery issues. The three modules of this course will provide an opportunity to understand the dynamics of the service encounter, to manage service quality and to learn how to better deliver service experience to customers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 23336 CLUB MANAGEMENT 3 Credit Hours
Introduction to private club management and operations. Strategic planning, marketing, human resources, service excellence, legal issues and financial management will be emphasized within the context of food and beverage, golf and recreation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 23510 QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY 3 Credit Hours
(Cross-listed with NUTR 23510) The application of management principles in quantity food production and service systems, including safety and sanitation; production forecasting and management; distribution; and service, commercial equipment and physical facilities. Introduction to inventory, recipe standardization and considerations of nutrition, quality and sustainability in quantity production.
Prerequisite: NUTR 23112.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HEM 30110 FUNDRAISING AND PHILANTHROPIC EVENT MANAGEMENT 3 Credit Hours
This course will explore the role fundraising and philanthropy can play in the success of the non-profit and voluntary segments of the event and hospitality industry. The focus will center on sponsorship opportunities, grants, campaigns (capital and annual), planned giving and corporate partnerships and the intersection of events that support those components.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 30120 WEDDINGS AND SPECIAL EVENT PROTOCOL 3 Credit Hours
The course provides an in-depth analysis of weddings and special event protocol. Coursework will include client detailing, site selection, contract negotiation, etiquette, budgeting, vendor relations, marketing, timeline development and public relations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 30280 FUNDAMENTALS OF FOOD AND BEVERAGE SERVICE 3 Credit Hours
This course provides students with skills in service techniques, effective merchandising, guest relations, customer service, restaurant operations and service of beer, wine and spirits. Students will gain knowledge about equipment and use of equipment related to several styles of service, proper dress and sanitation, organization and responsibilities within the dining room.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 33020 LEGAL ISSUES IN THE HOSPITALITY AND EVENT INDUSTRY 3 Credit Hours
Overview and analysis of legal issues of concern to the hospitality operation. Topics include employment law, food and beverage liabilities, patron civil rights, local, state, and federal regulations; and franchising.
Prerequisite: HEM 13022 and HEM 13024 and MGMT 24163.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 33050 PROFESSIONAL PRACTICE IN HOSPITALITY AND EVENT MANAGEMENT 2 Credit Hours
Prepares students for professional work experiences in hospitality management. Career development and professional workplace issues are addressed. Etiquette, resume writing and interview techniques are topics that will be covered, along with workplace relationships, networking and ethical dilemmas in hospitality management. Students must have documentation of 400 work hours.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HEM 33129 CATERING AND BANQUET MANAGEMENT 3 Credit Hours
The course includes an in-depth analysis of all components of the catering profession including management, legal aspects, getting started in business, catering contracts, menu planning, beverage service, catering equipment, catering logistics, personnel, marketing, pricing, sanitation and safety practices, purchasing, accessory services, accounting and control practices.
Prerequisite: HEM 13022 and HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 33140 CONVENTION SALES AND MANAGEMENT 3 Credit Hours
From a sales and convention management perspective, the convention and meetings industry is examined. Students are introduced to all facets of the conventions and meetings industry.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 33145 BAKING AND PASTRY FUNDAMENTALS 3 Credit Hours
Building on the theoretical and practical foundations of Baking and Pastry Fundamentals, this course will help students develop advanced skills and knowledge in the production and selection of quality handcrafted and purchased products. Scientific principles and experimental methods will be explored and addition emphasis will be placed on advanced decorating and finishing techniques, yeast breads, sweet doughs, cakes, tortes, chocolate work.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service

HEM 33270 GLOBAL CUISINE 3 Credit Hours
Prepare, taste, serve, and evaluate traditional, regional dishes of Europe, Asia, and the Americas. Emphasis will be placed on history, ingredients, flavor profiles, preparations, and techniques representative of the cuisines.
Prerequisite: Sophomore standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter

HEM 37377 CASINO MANAGEMENT AND GAMING OPERATIONS 3 Credit Hours
Introduction to the various aspects of the casino and gaming industry. Students study the structure of casino organizations, gain basic understanding of gaming operations and responsible gaming. Casino environments are experienced through on-site visitations. Funds for travel are the student's responsibility, all students must be legal age of 21 prior to on-site class visitations.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 lecture, 1 lab
Grade Mode: Standard Letter

HEM 41093 VARIABLE TOPIC WORKSHOP IN HOSPITALITY AND EVENT MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Workshop setting dealing with a topic or topics in hospitality and event management. Learning experiences are provided in a wide range of areas.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HEM 41095 SPECIAL TOPICS IN HOSPITALITY AND EVENT MANAGEMENT 1-4 Credit Hours
(Repeatable for credit) Discussion of a major topic within a specific field of hospitality and event management.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HEM 41096 INDIVIDUAL INVESTIGATION IN HOSPITALITY AND EVENT MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Independent study in hospitality and event management.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HEM 43027 HOSPITALITY AND EVENT MANAGEMENT: HUMAN RESOURCE STRATEGIES (WIC) 3 Credit Hours
Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management focused case studies are incorporated.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024 and HEM 23030 and HRM 34180 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HEM 43030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours
(Slashed with HTM 53030)(Cross-listed with NUTR 43030 and NUTR 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.
Prerequisite: HEM 23212 or NUTR 23012; and HEM 23510 or NUTR 23510.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Health

HEM 43031 LAYOUT AND DESIGN OF HOSPITALITY OPERATIONS 3 Credit Hours
Analysis and planning for the layout and design of hospitality operations. Includes basic principles of design; space analysis; human factors; and equipment use, care, selection and layout for hospitality facilities based on the financial performance of the operation; codes and related regulations. An appreciation for cost effective engineering and architecture concerns pertaining to hospitality operations is developed.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024 and HEM 23030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43092 PRACTICUM IN HOSPITALITY AND EVENT MANAGEMENT (ELR) 1-6 Credit Hours
(Repeatable for credit) Supervised professional experience in the hospitality industry including operations such as restaurants, hotels, clubs, health care, theme parks and food distribution. Course assignments are included.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024 and HEM 23030 and HEM 33050; and junior or senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-36 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

HEM 43099 CAPSTONE: STRATEGIC HOSPITALITY AND EVENT MANAGEMENT (ELR) 2 Credit Hours
This capstone course provides a comprehensive view of the business setting of hospitality and tourism organizations. The course includes a review of the competitive business environments, competitive advantage, above-average performance and competitive strategies as they pertain to hospitality and tourism management. The course will highlight current strategic issues in hospitality and tourism management referring to the most recent literature (practitioners' literature and academic journals). The course concludes a capstone group case analysis of a business problem in hospitality management, food and beverage management or event management.
Prerequisite: HEM 13024 and HEM 23030 and MGMT 24163 and MKTG 25010; and senior standing.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HEM 43143 HOSPITALITY MEETINGS AND EVENT MANAGEMENT 3 Credit Hours
Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of association meetings, conventions and corporate events held in hospitality venues requiring food and beverage and/or lodging.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43226 FOOD AND BEVERAGE COST MANAGEMENT 3 Credit Hours
This course provides a comprehensive study of the cost control aspects of food and beverage operations that, when managed effectively, lead to profitability and ultimately success. Topics include purchasing, labor, beverage and food cost management (prime costs), budgeting, forecasting, cost analysis, inventory control and the overall factors that lead to the financial success of a food and beverage service operation.
Prerequisite: HEM 13024 and HEM 23030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43231 FOOD, WINE AND BEVERAGE PAIRING 3 Credit Hours
Provides knowledge of the sensory relationship of food, wine, beer and other spirits and the important role this process has on hospitality operations. Topics include developing an understanding of wine, beer and food pairing as a hierarchical process. Menu development and cooking the food play an important role in this class; food is chosen first then paired with the appropriate beverage. Students must be 21 years old to enroll in the class. Students must be 21 years old to enroll in the class.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

HEM 43325 HOSPITALITY AND EVENT MARKETING 3 Credit Hours
Application of marketing principles, practices and theories relevant to hospitality organizations. Case studies drawn from the hospitality industry are incorporated.
Prerequisite: HEM 13024 and HEM 23030 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43329 HOSPITALITY FINANCIAL POLICY 3 Credit Hours
Developing financial analysis skills and decision-making capabilities for short- and long-term financial management problems in the unique setting of service industries with a specific focus on hospitality organizations, restaurants, clubs, and resorts, through case analysis.
Prerequisite: HEM 13024 and HEM 23030 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43377 REVENUE MANAGEMENT 3 Credit Hours
Introduction to both the theory and the practice of revenue management. Through optimization techniques and data analytics, this class examines how hospitality firms manage resources and production capacity as well as make financial decisions in order to maximize performance and profitability.
Prerequisite: HEM 13024 and HEM 23030 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43388 LEADERSHIP AND ORGANIZATIONAL BEHAVIOR IN THE HOSPITALITY INDUSTRY 3 Credit Hours
This course provides students both study and practice in the latest concepts related to leadership and organizational behavior in the field of hospitality and to examine the factors that contribute to an ever-changing business world.
Prerequisite: HEM 13024 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Hospitality and Tourism Management (HTM)

HTM 51092 HOSPITALITY AND TOURISM MANAGEMENT PROFESSIONAL PRACTICUM 3 Credit Hours
(Repeatable for credit) Supervised professional experience in the hospitality and-or tourism industry including operations such as restaurants, hotels, clubs, resorts, theme parks and casinos. Minimum of 405 hours in the field.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HTM 53025 HOSPITALITY MARKETING 3 Credit Hours
Application of marketing principles, practices and theories relevant to hospitality organizations. Internet marketing in hospitality. Case studies drawn from the hospitality industry are incorporated.
Prerequisite: Graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53027 HOSPITALITY HUMAN RESOURCE MANAGEMENT 3 Credit Hours
Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management focused case studies and current controversies are incorporated.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53029 HOSPITALITY FINANCIAL POLICY 3 Credit Hours
Developing financial analysis skills and decision making capabilities for short-and long-term financial management problems in the unique setting of service industries with a specific focus on hospitality organizations, restaurants, clubs and resorts, through case analysis.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours
(Slashed with HEM 43030)(Cross-listed with NUTR 43030 and NUTR 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53035 HOSPITALITY SERVICE QUALITY MANAGEMENT 3 Credit Hours
Tourism and hospitality are service industries. A significant element in these industries is management of the service encounters which will be the focus this course. In order to provide a comprehensive, inter- and multi-disciplinary view, the course will be constructed in three modules. The first module will present the characteristics and dynamics of the service encounter. The second module will focus on successful service encounters (service quality) and its outcome (customer satisfaction). The third module will present the dynamics of service failure and service recovery. The three modules of this course will provide an opportunity to understand the dynamics of the service encounter, to manage service quality and to learn how to identify service failure and plan for service recovery.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53040 STRATEGIC HOTEL MANAGEMENT 3 Credit Hours
The hotel manager's role as a strategic thinker is emphasized. Techniques such as co-alignment model, brand strategy, competitor analysis, market research, risk management and finance options are used to develop strategic plans in hotels.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

HTM 53043 HOSPITALITY MEETINGS MANAGEMENT 3 Credit Hours
Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of social association and corporate events, weddings, reunions, award banquets, receptions and annual meetings held in hospitality venues requiring food and beverage and/or lodging.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 55047 GLOBAL ISSUES OF TOURISM TRADE 3 Credit Hours
(Slashed with RPTM 45047) An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in tourism policy making. The course has an emphasis on reading and discussion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 56000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours
(Slashed with RPTM 46000) Investigation of travel and tourism development using an interdisciplinary social science approach.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 61098 RESEARCH IN HOSPITALITY MANAGEMENT 1-15 Credit Hours
(Repeatable for credit) Research for master's-level graduate students. Credit earned may be applied toward meeting degree requirements if school approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

HTM 61099 MASTERS PROJECT IN HOSPITALITY MANAGEMENT 2-6 Credit Hours
(Repeatable for credit) Completion and successful defense of master's project. Master's project students must register for a total of 6 credit hours, 2-6 in a single semester; distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HTM 61199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students register for a total of 6 credit hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HTM 61299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis II students must continue registration each semester until all degree requirements are met.
Prerequisite: HTM 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HTM 63022 CURRENT ISSUES IN HOSPITALITY AND TOURISM MANAGEMENT 3 Credit Hours
Current research and management issues in hospitality operations are explored through the peer-reviewed and professional literature. Management or revenue topics with implications for hospitality managers are included.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 63024 MANAGEMENT OF FOOD AND NUTRITION SERVICES 3 Credit Hours
Management issues in healthcare, food and nutrition services, child nutrition programs and other noncommercial food services will be examined. The impact of quality standards, public policy and current societal trends upon management of noncommercial operations will be studied.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 63091 RESEARCH SEMINAR 1 Credit Hour
(Repeatable for credit) Presentation and discussion of research and projects by students and faculty. 1 credit hour to be applied toward degree requirements.
Prerequisite: Graduate standing.
Corequisite: SPAD 63098 or SPAD 63199 or SPAD 63299 or HTM 61098 or HTM 61199 or HTM 61299.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HTM 63095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Specialized offering of a major topic within hospitality management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HTM 64099 HOSPITALITY AND TOURISM MANAGEMENT CAPSTONE 3 Credit Hours
This capstone course provides a comprehensive view of the business setting of hospitality and tourism organizations. The course includes a review of the competitive business environments, competitive advantage, above-average performance and competitive strategies as they pertain to hospitality and tourism management. The course will highlight current strategic issues in hospitality and tourism management referring to the most recent literature (practitioners' literature and academic journals). The course concludes with a capstone group case analysis of a business problem in hospitality and, or tourism.
Prerequisite: HTM 56000 or HTM 53025; and BA 64005 or RMS 65510; and HTM 63022, HTM 55047 and HTM 65041; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

HTM 65041 TOURISM AND HOSPITALITY REVIEW 3 Credit Hours
Reviews academic tourism and hospitality literature to provide students with a theoretical and empirical understanding of the tourism phenomenon. Issues include tourist motivations; the social, cultural and environmental impacts of tourism; tourism and development; and the impact of hospitality services on tourism.
Prerequisite: HTM 56000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Human Development and Family Science (HDF)

HDF 14027 INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY SCIENCE 3 Credit Hours
This course is intended to introduce students to the study of lifespan development and family science. Career opportunities available to human development and family science graduates are explored and skills required to succeed in the field are introduced.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD) 3 Credit Hours
(Cross-listed with SOC 24011) Exploration of the sociological nature of families across the lifespan, focusing on structure, diversity and life course processes such as dating, mate selection, cohabitation, marriage, parenthood, divorce, remarriage, singlehood, widowhood, parent-child interactions, sexual orientation, inequality and difference.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HDF 24012 RELATIONSHIPS AND DEVELOPMENT ACROSS CHILDHOOD 3 Credit Hours
This course introduces students to the study of child development, including the relationships between theory, research, and practice. It is intended to give students an in-depth look at relationships and other aspects of child development from conception across childhood as well as the multiple influences on children's development. Additionally, this course introduces students to the practice of working with children and their families.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 24013 EARLY ADOLESCENCE 3 Credit Hours
Examines the fundamental transitions, social contexts and psychosocial processes involved in human development from ages 10 through 15. Implications for working with this age group within schools, human services agencies and youth development programs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 24014 BRIDGING CROSS-NATIONAL RELATIONSHIPS FOR INDIVIDUALS AND FAMILIES 3 Credit Hours
This an interactive course designed to promote students' intercultural competence. The course provides students with an introduction to key components of various cultures around the world and with skills with which to build effective relationships with individuals from countries others than their own.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 24095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-4 Credit Hours
(Repeatable for credit) Discussion of a major topic within human development or family science.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HDF 25512 MANAGEMENT OF FAMILY RESOURCES 3 Credit Hours
Management as applied to individuals, families and human science professionals.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 34031 CULTURAL DIVERSITY: IMPLICATIONS FOR THE HELPING PROFESSIONS 3 Credit Hours
This class is designed to enhance the competence and success of students planning to work in human services. Learning how different cultural backgrounds influence the perceptions and behaviors of clients in the human service setting is emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 41093 VARIABLE TOPIC WORKSHOP IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with HDF 51093) Workshop setting dealing with a topic or topics in human development and family science. Learning experiences are provided in a wide range of areas.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HDF 41095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-4 Credit Hours
(Repeatable for credit) (Slashed with HDF 51095) Discussion of a major topic within human development or family science.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HDF 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HDF 51096) Independent study in human development and family science.
Prerequisite: Written special approval from instructor.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HDF 42089 HUMAN DEVELOPMENT AND FAMILY SCIENCE INTERNATIONAL EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) (Slashed with HDF 52089) Exploration of human development and family science related topics while visiting various cultural contexts.
Prerequisite: Minimum 2.750 overall GPA; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP
Attributes: Diversity Global, Experiential Learning Requirement

HDF 44018 PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 3 Credit Hours
Preparation of students for professional work experiences as well as providing an opportunity to discuss recent developments in the fields of human development, family science and gerontology.
Prerequisite: HDF 24011; and Human Development and Family Science or Long-Term Care Administration majors; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44020 RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD 3 Credit Hours
(Slashed with HDF 54020) This course is designed to provide an in-depth understanding of development across adolescence and emerging adulthood, including the relationship between theory, research, and practice. The course focuses on transitions and relationships experienced during adolescence and emerging adulthood and context of these changes, as well as the application of theory and research to working with adolescents and emerging adults and their families.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44021 FAMILY INTERVENTION AND ADVOCACY 3 Credit Hours
(Slashed with HDF 54021) This course focuses on daily hassles, transitions, and crisis events that individuals and families may experience throughout the lifespan. Coping skills, support systems, and others resources that aid in managing these events as well as strategies for self-advocacy and advocacy on behalf of individuals and families are all addressed in this course.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44022 FAMILIES, GENDER AND POWER 3 Credit Hours
(Slashed with HDF 54022) The course uses a family science lens to focus on the intersection of gender with race, socioeconomic status and other factors related to power dynamics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44023 BUILDING FAMILY STRENGTHS (WIC) 3 Credit Hours
(Slashed with HDF 54023) The Building Family Strengths Model builds upon family life potential; based on extensive research emphasizing identified family strengths.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HDF 44028 PARENT-CHILD RELATIONSHIPS 3 Credit Hours
(Slashed with HDF 54028) Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research.
Prerequisite: HDF 24011; and HDF 24012 or PSYC 20651.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44029 FAMILY POLICY 3 Credit Hours
(Slashed with HDF 54029) Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy making.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44030 FAMILY LIFE EDUCATION AND PREVENTION 3 Credit Hours
Addresses the family life education content areas, the integral role of prevention education in helping individuals and families and developing effective facilitation methods and techniques for family life education and prevention.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44032 NONPROFIT FUNDRAISING AND GRANTWRITING 3 Credit Hours
(Slashed with HDF 54032) Provides comprehensive preparation in planning, seeking and acquiring funding from available resources in supporting the mission of nonprofit human service agencies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44033 COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR) 3 Credit Hours
An overview of nonprofit organizations at the local, national and international levels, including how to start and manage one. A comprehensive examination of the Board of Directors, advocacy and lobbying, program development, mission, vision and strategic goals, philanthropic fundraising and the financial management process, as well as the legal aspects. In addition, students will study service learning and complete a Field Experience at a nonprofit organization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HDF 44034 PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT 3 Credit Hours
An overview of nonprofit organizations including the areas of risk management, mentoring, cultural competence, social entrepreneurship, and how to effectively manage paid staff and volunteers. In addition, students will learn about earned income strategies and the marketing-communication process, including the use of technology. The course will also cover leadership, communication and conflict resolution skills. Other areas of study include accountability and transparency, ethical behavior, building capacity, change management and the importance of collaborations and mergers and government support in the sector.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44035 TRAUMA-RESPONSIVE ASSESSMENT AND STRATEGIES 3 Credit Hours
This course examines the process of evaluating client needs and assessment of clients' condition in the context of work in human services. This course emphasizes interviewing as a major assessment strategy and incorporates trauma-informed practices into assessment of clients' needs and conditions.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44037 POSITIVE YOUTH DEVELOPMENT 3 Credit Hours
(Slashed with HDF 54037) Examines individual, family, school and community characteristics that comprise developmental assets contributing to positive youth development (PYD). Definitions and descriptions of PYD approaches are examined as well as evaluations of program effectiveness. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn healthy behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44038 PROFESSIONAL CHILD AND YOUTH PRACTICE 3 Credit Hours
(Slashed with HDF 54038) Provides students with an understanding of the historical and current methodologies and organizational structures of professional child and youth work practice, emphasizing a synthesis of previous and new learning regarding five domains of competence (professionalism, cultural and human diversity, applied human development, relationship and communication and developmental practice methods). Practice issues in community-based and out-of-home care settings as well as work with various child and youth populations are explored.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44039 BEREAVEMENT AND LOSS 3 Credit Hours
(Slashed with HDF 54039) Those who choose to work in helping professions often discover loss issues as the reason families seek assistance. Loss issues are also entangled in the complexity and dynamics of family scenarios. This course is taught in an applied, experiential manner and introduces phraseology, adaptive strategies and skills to more effectively work with the bereaved.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44089 FAMILIES IN FLORENCE, ITALY: LOVE, PARENTING AND POLICY (DIVG) (ELR) 3 Credit Hours
The course explores how preventative family science and family policy are developed and executed in an international setting, specifically Florence, Italy. The course uses the city of Florence and its existing resources as experiential learning examples of course content. In this course, we will explore how historical family honor, rituals, culture, and social context continue to influence the modern Florentine family and policies devoted to families. Students will engage in experiential learning experiences to explore how modern policies impact families, and how preventative family education (Family Life Education) exists internationally. We aim to gain a comprehensive understanding of the modern Florentine/Italian family given current government policies while exploring Italian preventative family education.
Prerequisite: Minimum 2.500 overall GPA.
Schedule Type: International Experience, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

HDF 44092 PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY SCIENCE (ELR) 3-6 Credit Hours
(Repeatable for credit) Observation and participation in child, family and social service agencies. One class discussion per week. If the Practicum site requires it, students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned agency before the first day of the semester in which internship will take place. Major GPA of 2.250 is required.
Prerequisite: HDF 24011 and HDF 44018 and senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HDF 45089 LIFESPAN DEVELOPMENT PRACTICES AND OUTCOMES: THE ITALIAN EXPERIENCE (DIVG) (ELR) 3 Credit Hours
This course will explore lifespan development theories through the lens of Italian culture, policy and practices. Most class periods will be spent visiting and observing historical sites, schools, non-profit organizations, and observing everyday life while learning about the influence of religion, education, SES, and state policy on child, adolescent, and adult outcomes. Students will have the opportunity to actively engage with Florentines in a brief in-country volunteer experience.
Prerequisite: Minimum 2.500 overall GPA.
Schedule Type: International Experience, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

HDF 51093 VARIABLE TITLE WORKSHOP IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with HDF 41093) Workshop setting dealing with a topic or topics in human development and family science. Learning experiences are provided in a wide range of areas.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HDF 51095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-4 Credit Hours
(Repeatable for credit) (Slashed with HDF 41095) Discussion of a major topic within human development and family science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HDF 51096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HDF 41096) Independent study in human development and/or family science.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HDF 52089 HUMAN DEVELOPMENT AND FAMILY SCIENCE INTERNATIONAL EXPERIENCE 3 Credit Hours
(Repeatable for credit) (Slashed with HDF 42089) Exploration of human development and family science related topics while visiting various cultural contexts.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

HDF 54020 RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD 3 Credit Hours
(Slashed with HDF 44020) This course is designed to provide an in-depth understanding of development across adolescence and emerging adulthood. The relationship between theory, research, and practice. The course focuses on relationships and transitions experienced during adolescence and emerging adulthood and the context of these changes as well as the application of theory and research to working with adolescents and emerging adults and their families.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54021 FAMILY INTERVENTION AND ADVOCACY 3 Credit Hours
(Slashed with HDF 44021) This course focuses on daily hassles, transitions, and crisis events that individuals and families may experience throughout the lifespan. Coping skills, support systems, and others resources that aid in managing these events as well as strategies for self-advocacy and advocacy on behalf of individuals and families are all addressed in this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54022 FAMILIES, GENDER AND POWER 3 Credit Hours
(Slashed with HDF 44022) The course uses a family science lens to focus on the intersection of gender with race, socioeconomic status, and other factors related to power dynamics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54023 BUILDING FAMILY STRENGTHS 3 Credit Hours
(Slashed with HDF 44023) The building family strengths model builds upon family life potential, based on extensive research emphasizing identified family strengths.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54028 PARENT-CHILD RELATIONSHIPS 3 Credit Hours
(Slashed with HDF 44028) Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research.
Prerequisite: Human development and family science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54029 FAMILY POLICY 3 Credit Hours
(Slashed with HDF 44029) Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy making.
Prerequisite: Human development and family science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54032 NONPROFIT FUNDRAISING AND GRANTWRITING 3 Credit Hours
(Slashed with HDF 44032) Provides comprehensive preparation in planning, seeking and acquiring funding from available resources in supporting the mission of nonprofit human services agencies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54037 POSITIVE YOUTH DEVELOPMENT 3 Credit Hours
(Slashed with HDF 44037) Examines individual, family, school and community characteristics that comprise developmental assets contributing to positive youth development (PYD). Definitions and descriptions of PYD approaches are examined as well as evaluations of program effectiveness. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn health behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed. Students complete a program development project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54038 PROFESSIONAL CHILD AND YOUTH PRACTICE 3 Credit Hours
(Slashed with HDF 44038) Provides students with an understanding of the historical and current methodologies and organizational structures of professional child and youth work practice emphasizing a synthesis of previous and new learning regarding five domains of competence (professionalism, culture and human diversity, applied human development, relationship and communication and developmental practice methods). Practice issues in community-based and out of home care settings as well as work with various child and youth populations are to be explored. Students complete a program development and evaluation project.
Prerequisite: Human development and family science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54039 BEREAVEMENT AND LOSS 3 Credit Hours
(Slashed with HDF 44039) Those who choose to work in helping professions often discover loss issues as the reason families seek assistance. Loss issues are also entangled in the complexity and dynamics of family scenarios. This course is taught in an applied, experiential manner and introduces phraseology, adaptive strategies and skills to more effectively work with the bereaved.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 61091 SEMINAR 2-3 Credit Hours
(Repeatable for credit) Evaluation and interpretation of recent literature in human development and/or family science. Topic selected for semester will be indicated in the schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 2-3 other
Grade Mode: Standard Letter

HDF 61098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward meeting degree requirements if school approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

HDF 61099 MASTER'S PROJECT 2-6 Credit Hours
(Repeatable for credit) Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HDF 61199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HDF 61299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis II students must continue registration each semester until all degree requirements are met.
Prerequisite: HDF 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HDF 64023 FAMILY THEORIES AND PROCESSES 3 Credit Hours
An examination of theories and research for understanding family dynamics and changes in families across the lifespan. Includes attention to diverse family structures, dyadic and group processes applicable to families, and social and cultural contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 64024 FAMILY LIFE EDUCATION 3 Credit Hours
Developing community acceptance, teaching aids and techniques and curriculum for family life education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 64026 PROFESSIONAL ISSUES IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 2 Credit Hours
This course covers ethical and professional issues related to the field of human development and family science. The course will cover both conceptual ideas related to research and practice in the field as well as practical tools for professional development and successful completion of the Master's Thesis or Project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HDF 64027 EARLY ADOLESCENCE 3 Credit Hours
Examines the fundamental changes, social contexts and psychosocial processes involved in human development from ages 8-15. Implications for working with this age group within schools and human service agencies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 64092 PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 3-6 Credit Hours
(Repeatable for credit) Observation and participation in child, family and social service agencies. One class discussion per week. If the Practicum site requires it, students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned agency before the first day of the semester in which internship will take place. Major GPA of 2.250 is required.
Prerequisite: Human development and family science major; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter

Human Resource Management (HRM)

HRM 34180 HUMAN RESOURCE MANAGEMENT 3 Credit Hours
Focuses on the importance of the management of human resources for any organization, its employees, customers, shareholders, and the community where it is located. The topic helps students understand the important issues that derive from managing people at work and the changing environment organizations face. Students will learn the integral role human resources management plays to the success or failure of an organization. Both practical and theoretical perspectives are presented.
Prerequisite: MGMT 24163 or BMRT 11009; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 34189 INTERNATIONAL EXPERIENCE IN HUMAN RESOURCE MANAGEMENT (DIVG) (ELR) 3 Credit Hours
Guided introduction to applied Human Resource Management in another culture by examining opportunities and challenges. Via select company tours, tour of historical sites and meetings with management from local companies as well as U.S. companies doing business in foreign countries, students will be exposed to the current HR functions and practices in a foreign country, such as selecting and managing a workforce, compliance with the employment laws, employee training and development, expatriation repatriation, performance management, and compensation issues.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA; and sophomore standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

HRM 44091 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for credit) (Slashed with HRM 54091) In-depth readings, discussion projects and presentations in a specialized area of human resource management.
Prerequisite: HRM 34180; and minimum 2.000 overall GPA.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44183 DEVELOPING AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS 3 Credit Hours
(Slashed with HRM 54183) Course focus is quality training design, based upon theory and empirical research. Implications for practice and current challenges in employee training and development are also highlighted.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44185 STAFFING HUMAN RESOURCES 3 Credit Hours
(Slashed with HRM 54185) Staffing, development of systems to select, place, promote, and retain employees to enhance organizational effectiveness and maintain legal compliance are core HRM activities in organizations. This course will provide students with an understanding of the technical components of selection, including how to determine which applicant characteristics should be examined, what procedures should be used to gather information, and how that information should be combined to identify qualified job applicants. In addition, this course focuses on promotion and retention of employees.
Prerequisite: HRM 34180 with a minimum C grade; and a minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44195 ADVANCED TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for credit) Advanced topics course that are offered on a yearly basis. Topics can span the full range of HR functions. This course can also have a practicum format.
Prerequisite: HRM 34180; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44445 GLOBAL HUMAN RESOURCE MANAGEMENT (WIC) 3 Credit Hours
(Slashed with HRM 54445) The course examines the impact of internationalization and cross-cultural challenges on organizations, the factors involved in selecting and managing an international workforce, the evaluation of employee relations and employment law, and address issues such as employee training and development, expatriation-repatriation, performance management, and compensation issues, all from the perspective of managing an international organization.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA; and student must be enrolled in the human resource management major or minor; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HRM 44492 BUSINESS EXPERIENCE AND INTERNSHIP IN HUMAN RESOURCE MANAGEMENT (ELR) 3 Credit Hours
(Repeatable for credit) Learning by experience by performing activities related to the Human Resource Management profession in a cooperating organization.
Prerequisite: HRM 34180 with a minimum C grade; and a minimum 2.000 overall GPA; and must be enrolled in the human resource management major or minor.
Schedule Type: Practical Experience
Contact Hours: 1 lecture, 14 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HRM 44495 SPECIAL TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for credit) Offered on a semester basis with different human resource management topics and different faculty involved each time the course if offered.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44499 HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR) 3 Credit Hours
This course bridges between Human Resource Management coursework and the world of HRM practice. The course will provide a variety of learning experiences to help students gain knowledge and practical experience to prepare them to embark on careers in the HRM profession. Upon completion of this course, students should have much to discuss in a job interview and a useful entry on their resumes.
Prerequisite: HRM 34180 minimum C grade; and minimum 2.000 overall GPA; and student must be enrolled in the human resource management minor or major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HRM 44660 PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS 3 Credit Hours
(Slashed with HRM 54660) The course provides overview of the performance management process, examines various approaches to performance management, and discusses sources of performance management information. Also considers the nature of the compensation systems and pay system mechanics, as well as methods for recognizing employee contributions through compensation.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44763 HUMAN RESOURCE ANALYTICS AND ERP SYSTEMS 3 Credit Hours
The course examines the use of HR data, metrics, analytics, and ERP systems to guide human resource management decision making and support the strategic goals of the organization. The course will introduce students to the characteristics of high quality data, introduce common analysis techniques, data interpretation and visualization, and report assessment. Through lecture, readings, and problem solving exercises using enterprise resource planning systems (SAP and Oracle), students will gain the knowledge and skills necessary to assess various human resource management initiatives and formulate solutions to common human-resource-related problems. Upon completion of the course, students will understand how HR analytics and ERP systems help an organization achieve its strategic goals.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54091 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for Credit) (Slashed with HRM 44091) In-depth readings, discussion projects and presentations in a specialized area of human resource management.
Prerequisite: Business administration major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54183 DEVELOPMENT AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS 3 Credit Hours
(Slashed with HRM 44183) Course focus is quality training design, based upon theory and empirical research. Implications for practice and current challenges in employee training and development are also highlighted.
Prerequisite: Business administration major within the master of business administration degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54185 STAFFING HUMAN RESOURCES 3 Credit Hours
(Slashed with HRM 44185) Staffing, development of systems to select, place, promote, and retain employees to enhance organizational effectiveness and maintain legal compliance are core HRM activities in organizations. This course will provide students with an understanding of the technical components of selection, including how to determine which applicant characteristics should be examined, what procedures should be used to gather information, and how that information should be combined to identify qualified job applicants. In addition, this course focuses on promotion and retention of employees.
Prerequisite: Business administration major within the master of business administration degree.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54445 GLOBAL HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Slashed with HRM 44445) The course examines the impact of internationalization and cross-cultural challenges on organizations, the factors involved in selecting and managing an international workforce, the evaluation of employee relations and employment law, and address issues such as employee training and development, expatriation repatriation, performance management, and compensation issues, all from the perspective of managing an international organization.
Prerequisite: Business administration major within the master of business administration degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54660 PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS 3 Credit Hours
(Slashed with HRM 44660) The course provides overview of the performance management process, examines various approaches to performance management, and discusses sources of performance management information. Also considers the nature of the compensation systems and pay system mechanics, as well as methods for recognizing employee contributions through compensation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 64263 EMPLOYEE SELECTION AND APPRAISAL 3 Credit Hours
(Slashed with HRM 74263) This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.
Prerequisite: HRM 64271; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 64271 HUMAN RESOURCE MANAGEMENT 2 Credit Hours
This course explores the management of a firm's human resources from practical and theoretical perspectives of managing people at work. How high performance work practices (HPWPs) help businesses to motivate their employees for strategic competitive advantage is emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HRM 64399 APPLIED TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
Devoted to intensive investigation of selected topics in human resource management. Students undertake three research projects: (1) quality metrics of selection procedures; (2) use of structured interviews in selection with a focus on the legal defensibility of employment interviews; and (3) use of artificial intelligence in employment interviews.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

HRM 74263 EMPLOYEE SELECTION AND APPRAISAL 3 Credit Hours
(Slashed with HRM 64263) This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 84108 ACQUIRING HUMAN RESOURCES 3 Credit Hours
Course focuses on research theories, methods, and issues in acquiring Human Resources, including employment law, job and work analysis, recruiting, and selection. The course involves critical review and evaluation of existing work and potential avenues for future research. Through reading assignments and a research paper, students should gain an appreciation for the existing state of research and begin to articulate major issues and challenges facing this field.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 84191 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for credit) Variable content of relevance to Human Research Management research. Exact topics will be announced when scheduled.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 84261 STRATEGIC DECISION-MAKING AND HUMAN RESOURCE MANAGEMENT 3 Credit Hours
Provides a first graduate-level introduction to the fundamental concepts of HRM/OB and strategic decision-making.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 84263 OPTIMIZING HUMAN RESOURCES 3 Credit Hours
Students learn areas of human resources management that include training and development, performance management, compensation and retention or turnover.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Human Services (HSRV)

HSRV 11000 FOUNDATIONS OF HUMAN SERVICES 3 Credit Hours
An overview of the roles, history, values, systems, policies, theories and core conceptions of the human services professions across a range of social problems including child abuse and neglect, addictions, poverty, aging, mental health and illness, prevention and corrections and society's response through the human service delivery system.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

HSRV 11001 GROUP METHODS IN HUMAN SERVICES 3 Credit Hours
Introduction to theory, research and application of the practice, structure and function, analysis, problem solving strategies and skills in working with small groups with respect to the cultural context, types of groups and special populations such as addiction are addressed from a systems perspective within the human services purposes, values and ethics framework.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HSRV 11002 SURVEY OF COMMUNITY RESOURCES 3 Credit Hours
A survey of providers at the federal, regional, state and local levels, including services provided and regulations of private and public agencies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HSRV 21000 DYNAMICS OF HELPING RELATIONSHIPS 3 Credit Hours
Introduction to communication skills in systems of professional practice with emphasis on skill development in motivational interviewing, principles of effective communication, functions and purposes of communication, active listening, building empathy, establishing therapeutic rapport, case conceptualization and provisions of assistance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HSRV 21001 ASSESSMENT METHODS IN HUMAN SERVICES 3 Credit Hours
Introduction to client assessment, intervention and evaluation methods for generalist practice within a strengths based recovery model with emphasis on the biopsychosocial development across the lifespan. Understanding of mental illness, addictions, developmental disabilities and the impact of trauma, etc.; utilization of specific assessment skills and tools including: stages of change, level of care, recovery and resiliency, crisis response and de-escalation.
Prerequisite: HSRV 11000 or HSRV 21003; and permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HSRV 21002 COMMUNITY SUPPORTIVE CASE MANAGEMENT AND ADVOCACY IN HUMAN SERVICES 3 Credit Hours
Introduction to the purposes, intent and activities of a community supportive case manager: assessment, facilitation and coordination of services, linkage, referral, coordination assistance in crisis management and stabilization, outreach, education, training; intervention, support and elimination of barriers to autonomy. Develop an understanding of systems of care; and population characteristics: mental health, addiction, recovery, culture, age, and gender, etc. with emphasis on advocacy in human services practices. Recommend students take HST 21001 in preparation.
Prerequisite: HSRV 11000 or HSRV 21003; and permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HSRV 21003 SOCIAL WELFARE IN HUMAN SERVICES 3 Credit Hours
Introduction to the history and development of social welfare including current federal and state social policy in the delivery of services; understanding of ideologies, values and ethics forming the social services foundation; financial, organizational and administrative structures influencing social services; fields of practice, populations served, mechanisms of poverty, oppression and discrimination; diversity issues in delivery of services and empowering at risk and vulnerable populations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

HSRV 21092 INTERNSHIP IN HUMAN SERVICES I (ELR) 3 Credit Hours
(Repeatable for credit) Supervised field experience in a human service agency totaling equivalent of 315 hours. Joint university-agency supervision.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HSRV 21192 INTERNSHIP IN HUMAN SERVICES II (ELR) 3 Credit Hours
(Repeatable for credit) Continued supervised field experience in a human services agency totaling 315 hours equivalent. Joint university-agency supervision.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Information Technology (IT)

IT 11000 INTRODUCTION TO OFFICE PRODUCTIVITY APPS 3 Credit Hours
(Equivalent to CIS 24053) Covers the basic concepts and use of computer systems, including hardware, personal productivity software, Internet usage and file management.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

IT 11004 SURVEY OF INFORMATION TECHNOLOGY 3 Credit Hours
Overview introduction to information technologies, career paths and professional certifications available.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 11005 INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY 3 Credit Hours
Survey of desktop and network operating systems essentials, including file and disk management, system tools utilization, security concepts, resource sharing and introductory network concepts. Students will learn about a variety of operating systems including mobile devices. Students will learn fundamentals of networking including network devices, cabling, numbering systems and network models.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 11006 INTRODUCTION TO WEB SITE TECHNOLOGY 3 Credit Hours
Focuses on website technologies, including HTML. Students learn the history of the Internet and effective search techniques.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 11009 COMPUTER ASSEMBLY AND CONFIGURATION 3 Credit Hours
Comprehensive course covering concepts like disk operating system functions and features; hardware/software installation procedures; file and directories management; system configuration/optimization; backup procedures; security; access control; networking, mobile devices, servers, cloud technologies and user management.
Prerequisite: CS 33211 or IT 11005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 12000 INTERMEDIATE OFFICE PRODUCTIVITY APPS 3 Credit Hours
Covers intermediate concepts and integration of computer applications. Emphasis on software suites, specifically word processing, electronic spreadsheets, database and presentation applications.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 13000 APPLIED SECURITY ESSENTIALS 3 Credit Hours
Course provides an introduction to the principles, challenges and practices of cybersecurity. Students explore key concepts related to information security and data privacy, understand common vulnerabilities, and examine the strategies used to mitigate cyber risks. Topics include network security, cryptography, malware, intrusion detection, compliance frameworks and the risks associated with emerging technologies such as IoT and healthcare IT.
Prerequisite: IT 11005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 15000 FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY 3 Credit Hours
Course provides a foundation in computer programming, focusing on key concepts, principles and practices. Students learn about the evolution of programming languages, explore the software development life cycle and apply basic programming techniques. The course covers logical thinking, procedural programming and control structures (conditional statements, loops, switch statements). Students gain hands-on experience using Integrated Development Environments/Integrated Development Learning Environment, manage version control in web-based collaborative repository and implement basic file management and security practices. Additionally, the course introduces secure programming, troubleshooting techniques and explores various applications of programming.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 20030 VISUAL AND OBJECT-ORIENTED PROGRAMMING IN INFORMATION TECHNOLOGY 3 Credit Hours
Course provides an introduction to the fundamental concepts of visual programming and object-oriented programming within the context of Information Technology. Students learn to design and develop interactive programs using graphical user interfaces and apply object-oriented programming principles, such as encapsulation, inheritance and polymorphism. Course covers essential topics including database connectivity, internet programming and the development of dynamic web applications.
Prerequisite: IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21002 NETWORK SETUP AND CONFIGURATION 3 Credit Hours
Introduces networking in local area network (LAN), wide area network (WAN) and Cloud environments. Topics include network hardware, numbering systems, protocols, configuration, operation, setup, installation, administration, management and security. Students will also learn and practice troubleshooting strategies.
Pre/corequisite: IT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Information Technology

IT 21003 SYSTEM ADMINISTRATION FOR INFORMATION TECHNOLOGY PROFESSIONALS 3 Credit Hours
Course provides an introduction to system administration, focusing on the skills and knowledge required to manage, configure and troubleshoot IT systems in professional environments. Students learn the fundamentals of managing operating systems, networks and user environments across diverse platforms. Emphasis is placed on practical skills in system configuration, resource management, security and network services.
Prerequisite: IT 11005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21005 VISUAL BASIC DATABASE PROGRAMMING 4 Credit Hours
Advanced course in the visual basic language focusing on database systems development.
Prerequisite: CIS 24065 or CS 13001 or EMAT 25310.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

IT 21006 DATABASE PROGRAMMING 3 Credit Hours
Focuses on database systems development, querying, report writing, and troubleshooting using object-oriented programming languages and Structed Query Language.
Prerequisite: CS 13001 or CIS 24065 or EMAT 25310 or IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21007 CYBER ETHICS IN INFORMATION TECHNOLOGY 3 Credit Hours
Covers the ethics, issues and policies regarding the Internet. Course includes discussion/research on intellectual property/freedom, hacking, pornography and privacy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21009 SEMINAR IN INFORMATION TECHNOLOGY 3 Credit Hours
Capstone course encompassing critical thinking, reflection, writing and discussion applying current theories of IT to on-the-job experiences and roles, with an emphasis on preparation for a career in IT. Students develop a portfolio to confirm their level of knowledge.
Prerequisite: IT 11005 and IT 11006 and IT 11009 and IT 15000 and IT 21002 and IT 21010.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

IT 21010 WORKGROUP PRODUCTIVITY SOFTWARE 3 Credit Hours
Research project-oriented course emphasizing workgroup methodologies for group project management, problem definition, data retrieval and analysis, conclusions and recommendations.
Prerequisite: IT 12000; or OTEC 16639 and OTEC 26611.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21011 TECHNIQUES OF MULTIMEDIA WEB DESIGN 3 Credit Hours
Focuses on developing and managing effective web sites using multimedia elements, including sound and video.
Prerequisite: IT 11006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21036 WEB SCRIPTING I 3 Credit Hours
Course focuses on client-side scripting needed to create interactive and dynamic websites. The use of scripting in context with various technologies is explored.
Prerequisite: CS 13001 or CIS 24065 or EMAT 25310 or IT 11006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21037 WEB SCRIPTING 3 Credit Hours
Introduces foundational client-side scripting skills essential for building interactive, dynamic websites. Students learn to design and implement scripts to enhance web functionality and user experience, with a focus on scripting within modern web technologies and best practices in JavaScript development.
Prerequisite: CS 13001 or CIS 24065 or EMAT 25310 or (IT 15000 and IT 11006).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21092 PRACTICUM FOR INFORMATION TECHNOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience in information technology environment; 45 hours supervised work experience per credit hour.
Prerequisite: Sophomore standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

IT 21095 SPECIAL TOPICS IN INFORMATION TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Topics announced when scheduled.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

IT 21096 INDIVIDUAL INVESTIGATION IN INFORMATION TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Individual study in computer field.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 7-28 other
Grade Mode: Standard Letter

IT 21100 LOCAL AREA NETWORK TROUBLESHOOTING 3 Credit Hours
Covers local area network troubleshooting techniques. Topics include identifying the scope of the problem, systematic troubleshooting approaches, problem resolution and ongoing maintenance.
Prerequisite: CS 33211 or IT 21002 or; ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21110 NETWORK ROUTING AND SWITCHING 3 Credit Hours
Course covering internetworking concepts. Topics include networking standards, network designs, cabling, Transmission Control Protocol/Internet Protocol (TCP/IP), routing protocols, switch and router configuration, local area network (LAN) and wide area network (WAN) segments, virtual local area network#(VLAN) and other related topics.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21200 ETHICAL HACKING 3 Credit Hours
Tools and techniques ethical hackers and security testers use to discover vulnerabilities and solutions to protect computer networks.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: ITAG Ethical Hacker

IT 21300 INTRODUCTION TO SECURITY INCIDENT MANAGEMENT 3 Credit Hours
Course covering an introduction to defending against cyber attackers.
Prerequisite: IT 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 23000 INTRODUCTION TO OPERATING SYSTEM SECURITY 3 Credit Hours
Course introducing operating system security configurations, considerations, and best practices.
Prerequisite: CS 33211 or ENGR 23010 or IT 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 24000 DEVELOPING AND IMPLEMENTING SECURITY POLICIES 3 Credit Hours
This course covers governance, legal considerations, and regulations related to information security policy development and implementation.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 26315 CERTIFICATION PREP IN INFORMATION TECHNOLOGY 3 Credit Hours
Certification preparation course helps students prepare for professional certification attempts in Information Technology. Certification is not guaranteed. Certification fees may apply.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 30000 PYTHON PROGRAMMING IN INFORMATION TECHNOLOGY 3 Credit Hours
Python language introducing object-oriented programming concepts utilized in various roles in the IT field. Topics include: implementation, variables, file and exception handling, control/data structures, functions, collections and modules.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 31002 HEALTH INFORMATION TECHNOLOGY SUPPORT 3 Credit Hours
Course covers skills and knowledge required to implement and support healthcare IT (HIT) systems including regulatory and compliance issues; organizational behavior, IT and medical business operations; best practices and security.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36095 SPECIAL TOPICS IN INFORMATION TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Special topics from all areas of information technology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

IT 36301 ADVANCED C++ PROGRAMMING 4 Credit Hours
Course using C++ classes and data abstraction, stream IO, inheritance, standard template library, Microsoft Foundation Classes, system programming concepts using Unified Modeling Language.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

IT 36302 ADVANCED C# PROGRAMMING 3 Credit Hours
Advanced concepts of C# including classes and objects, inheritance, polymorphism, arrays, exception handling, files and streams and Extensible Application Markup Language (XAML).
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36303 DIGITAL IMAGE EDITING 3 Credit Hours
Course covers various concepts involved in the creation and manipulation of digital images.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36304 C++ PROGRAMMING 3 Credit Hours
Course expands on foundational C++ programming skills, covering advanced object-oriented programming, data structures, pointers, dynamic memory management and file I/O. Students use the Standard Template Library and develop efficient, maintainable C++ applications through hands-on projects, with an emphasis on exception handling, debugging and performance optimization.
Prerequisite: IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36305 C# PROGRAMMING 3 Credit Hours
Course advances C# programming skills, emphasizing object-oriented principles, data structures, file handling, and data manipulation using LINQ and the development of Windows and web applications using C#. Students develop both Windows and web applications, focusing on asynchronous programming, error handling and debugging to create efficient, maintainable applications through hands-on projects and exercises.
Prerequisite: IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36306 JAVA PROGRAMMING 3 Credit Hours
Course advances Java programming skills, covering core object-oriented concepts, data structures, algorithms and multithreading. Topics include exception handling, file input/output, network programming and Graphical User Interface development. Through hands-on projects and practical applications, students develop efficient and robust Java applications.
Prerequisite: IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36308 ERGONOMICS AND USABILITY IN INFORMATION TECHNOLOGY 3 Credit Hours
Introduction to ergonomics, usability design and assessment methods for the development of computer hardware, software and systems.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36309 PROGRAMMING MOBILE APPLICATIONS 3 Credit Hours
Introduces the unique program design considerations required by mobile devices. Course focuses on creating programs that can be deployed on different devices.
Prerequisite: CIS 24065 or CS 13001 or EMAT 25310 or IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36311 ADVANCED JAVA PROGRAMMING 4 Credit Hours
Course using Java abstract data types and objects, object-oriented, event-driven design, file organization and access, and systems programming concepts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

IT 36314 SEMINAR IN EMERGING COMPUTER AND INFORMATION TECHNOLOGIES 3 Credit Hours
Survey of new and emerging technologies in computer and information technology.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36318 SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC) 3 Credit Hours
Course provides a non-technical introduction to contemporary issues in information security, Internet fraud and computer forensics.
Prerequisite: ENG 21011 or HONR 10297; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

IT 36320 COMPUTER FORENSICS 3 Credit Hours
Hands-on skills in incident response, forensic preparation and data recovery and analysis.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36321 NETWORK FORENSICS 3 Credit Hours
Emphasizing hands-on skills in live incident response, the proper use of network forensic tools, network monitoring, live data capture, evidence analysis, data integrity and other related topics.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36322 SOCIAL MEDIA AND MOBILE DEVICE FORENSICS 3 Credit Hours
Course covers data collection and analysis techniques for social media and mobile devices.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36330 NETWORK SECURITY FUNDAMENTALS 3 Credit Hours
Examines the primary issues involved in securing resources in networked environment, including threat assessment, countermeasures, best practices, security protocols, cryptography and management-related issues.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36331 ADVANCED ROUTING AND SWITCHING 3 Credit Hours
Reinforcing Internetworking concepts. Topics include network standards, LAN switching, VLANs, network designs, routing protocols and configuration, LAN and WAN segments, and other related topics.
Prerequisite: IT 21110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36339 CLOUD AND VIRTUALIZATION TECHNOLOGIES IN INFORMATION TECHNOLOGY 3 Credit Hours
Covers the basics of the common cloud computing and major virtualization technologies and their place in the modern enterprise. Topics include foundational understanding of virtualization implementations and tools; and how to plan, install, manage, configure, monitor and secure public, private, hybrid, cloud and service models for platform, software, infrastructure and other technologies.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36340 HELP DESK SUPPORT 3 Credit Hours
Examination of help desks that exist, importance within organizations, the roles and skills required, and methods and technologies commonly employed.
Prerequisite: IT 11009 or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36350 PROGRAMMING OFFICE PRODUCTIVITY APPLICATIONS 3 Credit Hours
Introduces the use of Visual Basic for Applications as a tool to create customized programs that automate repetitive and/or complex tasks performed using office suite applications.
Prerequisite: IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36355 COMMAND LINE UTILITIES 3 Credit Hours
Course prepares students to perform effectively in Windows, Linux and various server command line environments. Topics include command syntax, batch files, script files and internal and external commands.
Prerequisite: CS 33211 or EMAT 25310 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36392 INTERNSHIP FOR INFORMATION TECHNOLOGY STUDENTS (ELR) 1-3 Credit Hours
(Repeatable for Credit) An arranged work experience for students in the information technology field. Students complete 45 hours of internship per credit.
Prerequisite: Junior standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

IT 36396 CERTIFICATION PREPARATION IN INFORMATION TECHNOLOGY 3 Credit Hours
(Repeatable for Credit) Certification preparation course to help students prepare for professional certification attempts in information technology. Certification is not guaranteed and certification fees may apply.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

IT 40000 CYBERSECURITY 3 Credit Hours
Builds on a background in networking and focuses on cybersecurity best practices, standard models and regulatory requirements.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 41002 CLOUD TECHNOLOGY 3 Credit Hours
Course introduces the concepts and fundamentals of cloud computing and gives an understanding of the many services that are available to cloud technology, as well as the benefits and risks when compared to on-site methods. Cloud technology in networking, incident response/disaster recovery, data storage, virtualization, management, monitoring, security, and automation are also discussed.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 41010 MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY 3 Credit Hours
Course covers enterprise mobility technical concepts, strategies, and solutions across various domains and industries. Includes topics such as organizational issues, IT and business operations; and best practices and security.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 42000 SOCIAL MEDIA SECURITY 3 Credit Hours
Personal and corporate social media presence, security risks, intellectual property and ethical issues.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 43000 HEALTHCARE INFORMATION SYSTEMS 3 Credit Hours
Course focuses on the roles and responsibilities of the health information technology professional including the technology, legal and ethical responsibilities and complex systems and environment.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46300 ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION 3 Credit Hours
Focus is on advanced system components, streamlined operating system installation procedures, and current technology in local area network (LAN) connectivity.
Prerequisite: IT 11009; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46303 DIGITAL VIDEO EDITING 3 Credit Hours
Utilizes digital imaging technologies to produce videos. Includes timelines; filming, importing/exporting video; audio; effects, transitions and captions.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46308 ADVANCED VISUAL BASIC PROGRAMMING 3 Credit Hours
Advanced concepts of visual basic, including classes and objects, inheritance, polymorphism, arrays, exception handling, files and streams and dynamic-link library (DLL).
Prerequisite: CIS 24065 or CS 13001 or EMAT 25310.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46309 ASP.NET WEB PROGRAMMING 3 Credit Hours
Using Visual Studio and the ASP.NET platform to develop secure, data-aware web applications. Topics covered include HTML and CSS, testing and debugging, master pages, state management, security and authentication, Structure Query Language and object data sources.
Prerequisite: CS 13001 or CIS 24065 or EMAT 25310 or IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46311 TECHNOLOGY OF NETWORKING 3 Credit Hours
Advanced topics of enterprise LAN/WAN/Cloud management, including DNS, DHCP, IP addressing, routing basics, subnet masking, firewalls, storage redundancy techniques, network update and security, cloud services and general tuning, optimizing, troubleshooting, recovery.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46313 VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION 3 Credit Hours
Focus on configuring and administering virtual machine software in a variety of environments including desktop and network solutions.
Prerequisite: IT 21002 and IT 36339; or ENGR 26305 and ENGR 27100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46314 ADVANCED SERVER CONFIGURATION 3 Credit Hours
Course focus is on the core service roles provided by application services, including configuration, maintenance and security.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46315 SQL WITH ORACLE 3 Credit Hours
Focus is on Structured Query Language. (SQL) and relational databases using Oracle, a comprehensive and fully integrated stack of cloud applications and platform services.
Prerequisite: CIS 24065 or CS 13001 or EMAT 25310 or IT 21005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46320 CLOUD FORENSICS 3 Credit Hours
Concepts of cloud forensics, including legal consideration and software tools involved with discovery in the cloud.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46331 NETWORK SECURITY AND FIREWALLS 3 Credit Hours
Course examines the primary issues involved in defining and configuring network defense perimeter, including security analysis, monitoring networks, implementing firewalls and intrusion detection systems.
Prerequisite: IT 36330.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46340 DATA DESIGN AND IMPLEMENTATION 3 Credit Hours
Explores the role and design of databases in organizations, with emphasis on the technologies used in their implementation. Emphasis on Structured Query Language and large data sets.
Prerequisite: IT 21005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46350 DATABASE ADMINISTRATION AND REPORTING TOOLS 3 Credit Hours
Examines the role of database administrator, focusing on maintaining, validating and securing data along with use of report writing tools, techniques and best practices.
Prerequisite: IT 21005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Insurance Studies (INS)

INS 29000 INTRODUCTION TO INSURANCE AND RISK 3 Credit Hours
Introduction into the fields of insurance and risk management including, property and casualty, life, health, auto and other types of insurances. Personal and commercial risks are identified and quantified for potential loss.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 39000 INSURANCE LAW, FINANCE AND RISK MANAGEMENT 3 Credit Hours
Next-level insurance and risk management topics including ERM, insurance law and financial statement analysis. Other topics include impact of laws and regulation on insurers and additional elements of life insurance, annuities, IRAs, auto insurance, crime insurance and surety bonds.
Prerequisite: INS 29000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 39001 INSURANCE OPERATIONS (WIC) 3 Credit Hours
A detailed review of the strategic and tactical operations of the insurance industry. Explores the Function and role of insurers, claims management, rate making, financial structures and underwriting.
Prerequisite: INS 39000 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

INS 49000 LIFE AND HEALTH INSURANCE 3 Credit Hours
A detailed review of life and health insurance and their impact on individuals and society. The objective is a familiarization with various life and health products and how these products protect people and their families against financial losses caused by death, accident, sickness or disability.
Prerequisite: INS 39001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 49001 PERSONAL LINES INSURANCE 3 Credit Hours
Study of property and casualty personal lines of insurance including automobile, homeowner, dwelling and other residential policies, "toys" such as motor homes, motorcycles and boats, and high-risk plans for earthquake, flood and windstorm.
Prerequisite: INS 39001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 49002 COMMERCIAL INSURANCE 3 Credit Hours
Advanced concepts in commercial lines insurance including commercial property, commercial liability, business income, commercial crime and equipment breakdown insurance, commercial auto, workers compensation, business owners and specialty coverages.
Prerequisite: INS 39001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 49092 INSURANCE PRACTICUM GENERAL (ELR) 3 Credit Hours
(Repeatable for credit) Course requires an on-sight internship and/or a project with an insurance related organization approved by the Instructor.
Prerequisite: INS 39000 and 39001; and special approval.
Schedule Type: Practical Experience
Contact Hours: 21 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

Integrated Health Studies (IHS)

IHS 15003 CAREERS IN HEALTH AND MEDICAL SCIENCES 2 Credit Hours
(Cross-listed with ATTR 15003 and EXSC 15003) An overview of the profession of Healthcare and Medical professions including employment opportunities, academic preparation, and clinical preparation. This course will address the qualities and skills required for a comprehensive list of professional opportunities in the healthcare and medical fields with an emphasis on professionalism, cultural competencies, ethics and self care. Students will be required to work with faculty and health care and medical professionals to outline a personalized program to assist in their professional development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

IHS 40091 SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES 2 Credit Hours
(Repeatable for credit) Seminar focuses on applying concepts from previous educational experiences to the practicum work experience.
Prerequisite: ATTR 15003 or EXSC 15003 or IHS 15003.
Corequisite: IHS 44092.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

IHS 44010 RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS 3 Credit Hours
Fundamental concepts and procedures for systematic collection, analysis and interpretation of qualitative and quantitative data in health related fields includes group and single-subject designs and use of parametric and nonparametric statistics.
Prerequisite: PSYC 21621.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IHS 44091 PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC) 3 Credit Hours
(Repeatable for credit)This course presents and integrates the role of scientists, practitioners and administrators in the health care and human service professions as they attempt to meet the needs of the individual in diverse environments. Current issues will be addressed. 400 hours observation/work experience in health/human service-related fields required prior to registration for this course.
Prerequisite: Senior standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

IHS 44092 PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR) 3-10 Credit Hours
(Repeatable for credit) Practicum focuses on providing supervised practical experience in a health science, health care and human services organization which allows students to apply theoretical knowledge and skills learned in their coursework.
Prerequisite: Integrated health studies majors; and senior standing; and special approval.
Corequisite: IHS 40091.
Schedule Type: Practical Experience
Contact Hours: 9-30 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

IHS 44095 SPECIAL TOPICS IN INTEGRATED HEALTH STUDIES 1-3 Credit Hours
(Repeatable for credit) Selected topics in integrated health dependent upon interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

IHS 44096 INDIVIDUAL INVESTIGATION IN INTEGRATED HEALTH 1-3 Credit Hours
(Repeatable for credit) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

Integrative Studies (IGST)

IGST 40099 SENIOR PROJECT (ELR) (WIC) 1-3 Credit Hours
(Repeatable twice for credit) Senior Project is a thesis or independent study done under the supervision of a faculty advisor. Students need written approval of faculty advisor, faculty member's unit, or director of the Center for Comparative and Integrative Programs in order to enroll in this course.
Prerequisite: Senior standing in a multidisciplinary program in the center for comparative and integrative programs; and special approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement, Writing Intensive Course

IGST 40192 INTERNSHIP IN INTEGRATIVE STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) Internship.
Prerequisite: Special approval from the director of the center for comparative and integrative programs.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

Interior Design (ID)

ID 10112 INTERIOR DESIGN STUDIO I 4 Credit Hours
A studio course that introduces students to foundational concepts of interior space. Topics will include studies of room and its contents; color theory and interior color; design and human behavior; representation through sketching, orthographic drawing, collage, and model building; and digital techniques. Design thinking and iterative design work-process will be emphasized.
Prerequisite: AED 10101 and ID 14011.
Pre/corequisite: ID 10601.
Schedule Type: Studio
Contact Hours: 8 other
Grade Mode: Standard Letter

ID 10601 REPRESENTATION AND VISUALIZATION I 2 Credit Hours
This course introduces analog and digital representation and visualization skills and tools as they relate to the design of interior environments. Students will gain an understanding of and be able to apply knowledge and skills of visualization, observation, documentation, introductory orthographic representation, and graphic design.
Prerequisite: AED 10101.
Pre/corequisite: ID 10112.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

ID 14011 INTRODUCTION TO INTERIOR DESIGN 1 Credit Hour
Introduction to a broad range of interior design issues including environmental, ecological, aesthetic, social, global, spatial, ethical and technical, and addresses the needs of the human being related to interior design practice. Students acquire knowledge and understanding of significant aspects in interior design and diverse options within the profession, which helps them to identify their career paths in interior design.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ID 20012 GLOBAL HISTORY OF INTERIORS 3 Credit Hours
Global history of interiors from the 17th-century to the present. Interiors will be examined alongside developments in furnishings, fine and decorative arts, and architecture. The influence of culture, technology, geography, economics, politics, and style will be investigated.
Prerequisite: ARCH 10011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 20221 INTERIOR DESIGN STUDIO II 5 Credit Hours
A studio course that builds on the foundation that students have developed in ID Studio I. Students will engage in making an idea, and develop an understanding of materials, joints, assembly, and their interrelationships. The studio will focus on an understanding of the room in the context of interior design with an emphasis on design process, creative thinking, and student agency (analysis, iteration, evaluation and groups crits). Throughout the semester students will gain a familiarity of both analog and digital shop tools.
Prerequisite: ID 10112 and ID 10601.
Pre/corequisite: ID 20602 and ID 20401.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 20232 INTERIOR DESIGN STUDIO III 5 Credit Hours
This studio course reflects a continuation in the development of skills, exploration, technical knowledge, and experimentation through design. Students will expand their ability to program spaces for human habitation, 'the body inside', and develop the initial skills for detailing, fabricating, and documenting interior components beyond schematic design. The objective of this course is to provide the opportunity to balance technical considerations with creative ambitions through design projects by focusing on analysis, synthesis, placemaking, space planning and understanding of volumetric relationships.
Prerequisite: ID 20221 and ID 20602.
Pre/corequisite: ID 20402.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 20401 INTERIOR DESIGN METHODS AND MATERIALS I: INTERIOR MATERIALS 3 Credit Hours
The focus of this course is to explore the methods and materials utilized in the design and construction of the interior environment. Topics include the industry standards and requirements that pertain to finishes and materials, composition of various interior materials/finishes, proper methods of application and installation of selected materials.
Prerequisite: ID 10112.
Pre/corequisite: ID 20221 and ID 20602.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 20402 INTERIOR DESIGN METHODS AND MATERIALS II: BUILDING SYSTEMS AND CODES 3 Credit Hours
This course is an introduction to the principles of building construction, systems, assemblies, and building codes and regulations. Topics include-building structural systems, assemblies, environmental comfort, building safety, security, controls, and mechanical, electrical and, plumbing systems that influence and interact with interior design. This course examines the principles, regulations, systems, materials and details that comply with building code and regulations. Study of the principles and practice of sustainable design are continued.
Prerequisite: ID 20401.
Pre/corequisite: ID 20232.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ID 20602 REPRESENTATION AND VISUALIZATION II 2 Credit Hours
The course builds on the fundamental skills developed in Representation and Visualization I. Students are introduced to BIM technology as a design tool, utilizing a variety of three-dimensional representation and rendering techniques that focus on form, light, and materiality. Students will also learn how to effectively document design work three-dimensionally.
Prerequisite: ID 10601.
Pre/corequisite: ID 20221.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

ID 30321 INTERIOR DESIGN THEORY 3 Credit Hours
This course is an introduction to theoretical ideas in interior design and explores its conceptual relationships with other disciplines including art, architecture, fashion, environmental psychology, and the social sciences. Topics include: theories of the body in interior space, environmental psychology, sustainability, theories of technology, cultural studies, activist practice, and inclusive design. Readings will be drawn from both the humanities and social sciences.
Prerequisite: ID 20012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 30331 DESIGN WRITING FOR INTERIORS (WIC) 1 Credit Hour
A writing-intensive course exploring the relationship between professional discourse, fiction, observational description, and the graphic novelization of interior environments. Writing strategies employed in the course include narrative fiction, observational description, and professional communication.
Prerequisite: ID 20221.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ID 30341 INTERIOR DESIGN STUDIO IV 5 Credit Hours
This course is an Introduction to large-scale commercial space design with an emphasis on ideation, branding, space planning, developing design strategies for comprehensive design, office systems furniture planning and development of workstation prototype, producing comprehensive construction documentation, and collaborative design through studio projects and lectures.
Prerequisite: ID 20232.
Pre/corequisite: ID 30603.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 30352 INTERIOR DESIGN STUDIO V 5 Credit Hours
A studio course focusing on the investigation of contexts of interior space. Topics will include studies of architectural and historical contexts, including adaptive reuse, urban contexts, and social and cultural contexts in a globalizing world. Emphasis will also be placed on the development of design strategies, and expressions of strategy across scales.
Prerequisite: ID 30341.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 30391 VARIABLE CONTENT SEMINAR IN INTERIOR DESIGN 3 Credit Hours
(Repeatable for credit)Intermediate-level topics in global interior design history or theory.
Prerequisite: ID 30321.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 30403 INTERIOR DESIGN METHODS AND MATERIALS III: LIGHTING AND ACOUSTICS 3 Credit Hours
This course explores the relationships between theory, technical application, social, environmental, and sustainable aspects for designing lighting and acoustical interior environments. The course addresses the fundamental design and technical aspects of the lighting and acoustics industries as they impact interior design.
Prerequisite: ID 20402.
Pre/corequisite: ID 30341.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ID 30501 PROFESSIONAL PRACTICES I 3 Credit Hours
An overview of the professional practice of interior design and facilitates student's entry into the profession. Topics include - issue of legal recognition of the profession and licensing; types of business formations; control and management of projects and people; legal and ethical responsibilities; and opportunities within the design profession. Students will learn self-promotion tools like portfolio preparation, and valuable interview skills to uncover how they might position themselves professionally in the rapidly changing discipline of Interior Design.
Prerequisite: ID 30341.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 30603 REPRESENTATION AND VISUALIZATION III 2 Credit Hours
Builds on previous fundamentals taught in Rep Vis I & II, focusing on advanced rendering, and representation techniques. Includes exploration of virtual and augmented reality. Students are also introduced to the fundamentals of Contract Documentation, including annotation, MEP coordination, and detailing.
Prerequisite: ID 20602.
Pre/corequisite: ID 30341 and ID 30403.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

ID 40311 CONTEMPORARY ISSUES AND RESEARCH 3 Credit Hours
The course focuses on human well-being and contemporary social, economic, environmental, political and cultural issues influencing the practice and discipline of interior design. Course studies conceptual frameworks and research methodologies and their application to interior design.
Prerequisite: ID 30352.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 40404 INTERIOR DESIGN METHODS AND MATERIALS IV: ADVANCED MATERIALS AND ASSEMBLIES 3 Credit Hours
This advanced Methods and Materials course will examine characteristics associated with materials, methods, assemblies, and systems and their potential to generate innovative meanings and design outcomes.. Through a series of case studies and projects, creative uses and combination of research, methods, fabrication, detailing and synthesis are explored.
Prerequisite: ID 30403.
Pre/corequisite: ID 40461.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 40461 INTERIOR DESIGN STUDIO VI 5 Credit Hours
The studio involves understanding and designing for others with distinct realities and unfamiliar experiences by utilizing current specific social issues as design problems. Through the participatory and self-reflective design process, the students are challenged to abandon the stability of their worldview to align viewpoints with that of the end users of the designed space. Emphasis will be placed on constant reflection, understanding and respect from all participating members, not just the account of one individual's imaginative projections.
Prerequisite: ID 30352.
Pre/corequisite: ID 40404.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 40472 INTERIOR DESIGN STUDIO VII 5 Credit Hours
An advanced studio course focused on developing concepts and capacities for independent future practice. Topics will rotate based upon faculty expertise and student research interests as developed in ID 40311 Contemporary Issues and Research. Emphasis will be placed upon advanced theoretical and strategic development; advanced understandings of social, cultural, and spatial contexts; design as research; advanced representational strategies; and sophisticated design expression across all facets and scales of a project.
Prerequisite: ID 40461.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 40502 PROFESSIONAL PRACTICES II 3 Credit Hours
This advanced professional practice course proposes a critical approach to understand, evaluate and analyze interior design profession, projects and practice. The course focuses on the business, legal, financial, and managerial considerations of project and practice utilizing an intensive case study approach, and critical discussions on urgent topics facing practice.
Prerequisite: ID 30501.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 41093 VARIABLE TITLE WORKSHOP IN INTERIOR DESIGN 1-4 Credit Hours
(Slashed with ID 51093)(Repeatable for credit) Workshops dealing with variable topics related to the interior design profession. Learning experiences provided in a broad spectrum of specialties.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

ID 41095 SPECIAL TOPICS IN INTERIOR DESIGN 1-4 Credit Hours
(Repeatable for credit)Discussion of a major topic or issue within the profession of interior design. Repeat registration permitted.
Prerequisite: Interior design major.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ID 41096 INDIVIDUAL INVESTIGATION IN INTERIOR DESIGN 1-3 Credit Hours
(Repeatable for credit)Independent study of interior design and related topics under the guidance of a faculty member.
Prerequisite: Interior design major.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ID 44527 STUDY TOURS 1-10 Credit Hours
A series of study tours for in-depth, first-hand experiences of historic sites, markets, manufacturing facilities and attendance at product seminars.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 1-10 lecture
Grade Mode: Standard Letter

ID 44592 PROFESSIONAL INTERIOR DESIGN INTERNSHIP (ELR) 1-4 Credit Hours
(Repeatable for credit) Provides practical professional interior design experience by exposing the student to first-hand knowledge of the professional work environment. Students are required to prepare a portfolio and resume, and interview for the positions offered by the professional design firms locally, nationally and internationally.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 12-48 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ID 51093 VARIABLE TITLE WORKSHOP IN INTERIOR DESIGN 1-4 Credit Hours
(Slashed with ID 41093)(Repeatable for credit) Workshops dealing with variable topics related to the interior design profession. Learning experiences provided in a broad spectrum of specialties.
Prerequisite: Interior Design major; and graduate standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

ID 51095 SPECIAL TOPICS IN INTERIOR DESIGN 1-4 Credit Hours
(Repeatable for credit) Discussion of a major topic or issue within the profession of interior design.
Prerequisite: Interior design major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ID 51096 INDIVIDUAL INVESTIGATION IN INTERIOR DESIGN 1-3 Credit Hours
(Repeatable for credit)Independent study of interior design and related topics under the guidance of a faculty member.
Prerequisite: Interior design major; and graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ID 54535 HISTORY OF INTERIORS 1600 TO PRESENT 4 Credit Hours
A chronological study of housing and furnishings from the Renaissance to the Victorian Period, sixteenth to nineteenth centuries and twentieth century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

International Studies (INTS)

INTS 10504 THE NEW PANGAEA: YOUR ROLE IN OUR GLOBAL COMMUNITY (DIVG) 3 Credit Hours
Introduces students to the myriad of ways in which they are individually and collectively connected to the global community. Looking specifically at ways in which people are interconnected as consumers, patients, donors and participants in discourse, the course introduces students to the concepts, institutions and dynamics of globalization. Through assignments that focus on important global issues and engage students directly with the global community, students (a) learn how to engage the global community as informed consumers of information, (b) understand the basic structure of the global political arena, (c) learn how to engage actively and consciously within that arena and (d) understand the ways in which their daily behavior impacts global trends.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

INTS 30001 "TRUE FACTS": MAKING SENSE OF YOUR WORLD 3 Credit Hours
How can you find a reliable answer to a question you are curious about? “Research methods” sometimes seems like an intimidating subject, but it is really just a chance to think about how to find good answers to important questions. Scholars use a wide variety of methods, and this course provides an introduction to many of them, preparing students to be informed, critical consumers of information; to succeed in future research projects; and to take additional methods courses with confidence if they choose.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 30101 WORLDS OF WEALTH AND POWER 3 Credit Hours
Students investigate a wide variety of real-world market activity, including the economics of war, the underground economies of the rich and poor and the role of illicit trade in the making of the United States. What is the everyday experience of economic life like in these and other conditions? What can that tell us about how markets work on the local, national and global levels?
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 30301 HUMAN SECURITY 3 Credit Hours
For a century or more, leaders around the globe have defined “national security” narrowly, focusing nearly entirely on perceived threats of physical violence against the systems they led. A less state-centric and more person-centric conceptualization of security recognizes that the threats to human security include not only violence against a state or economic system. Food insecurity, for instance, whether caused by famine, poverty, maldistribution of resources or structural disparities in access (for instance, so called “food deserts”) undermines the security not only of individuals, but communities and, thereby, leadership. Climate change has caused land erosion and, thereby, resource evolution and depletion in various parts of the globe, leaving whole communities (and thereby states) economically and physically vulnerable. This course explores multiple dimensions of human (in)security, examines related policies and stretches analytic muscles in considering potential solutions to causes of insecurity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 30501 ORDER AND RESISTANCE 3 Credit Hours
When the hierarchies of economic systems or state institutions are unresponsive to the needs of society, movements develop to resist the prevailing ruling order. Sometimes social movements seek to empower and include new members of society. Other times they mobilize on constructed grievances that seek to maintain untenable social exclusions. Whether demanding more equality or something else, these ordinary people in social movements enter a conversation with the people who govern them and have the full weight of the state apparatus behind them. This course reflects on this process of social struggle in order to understand the political, economic and social costs of supporting the continued exclusion of certain groups. It aims to understand political change and violence as a struggle played out between state authorities and social movements. After examining case studies of such state-society struggles from around the world, students are guided to consider what role they can each play to constructively contribute to the global society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 30570 PALESTINE AND ISRAEL (DIVG) 3 Credit Hours
(Cross-listed with POL 30570) Course introduces students to academic approaches and theories that attempt to understand the situation in historic Palestine. The course is divided into four sections: (1) theories of settler colonialism and basic differences between Judaism, Zionism and Israeli society, as well as diversity within Palestinian society; (2) comparative studies of the establishment of the modern state of Israel, which Palestinians view in their collective experience as “the Catastrophe” or al-Nakba; (3) the occupation of East Jerusalem, the West Bank and Gaza, and how that system has changed over time; (4) pathways forward for Palestinians and Israelis.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

INTS 40089 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) Faculty-led study abroad programs.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

INTS 40092 INTERNSHIP (ELR) 1-6 Credit Hours
(Repeatable for credit) In consultation with a faculty member, the student arranges a substantive internship in a relevant area. The student also typically provides a journal of the experience, as well as a written analysis comparing the practice of the internship to an example of relevant scholarship in the area.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

INTS 40095 SPECIAL TOPICS IN INTERNATIONAL STUDIES 3 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in international studies not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual investigation with a faculty member. Student typically develops a topic and reading list in consultation with the faculty member, discusses the material with the faculty member throughout the semester and produces a paper at the end of the course.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

INTS 40560 HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG) 3 Credit Hours
(Cross-listed with POL 40560) Examines the relationship between human rights and problems of the Third World in the civic, political, social and cultural arenas. Particular attention is placed on the struggle of women.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

INTS 40799 CAPSTONE IN INTERNATIONAL STUDIES (ELR) (WIC) 3 Credit Hours
In this course, students integrate and build on what they have learned throughout the major. The standard assignment is a research paper that (1) connects the electives the student has taken with the core courses in the major and (2) describes a future trajectory of learning and working (answering such questions as: What are you planning to do after graduation? What is the next step in your career? Where and how are you going to make a difference? How do you build on what you have done here in order to get there?). In consultation with the instructor, students may develop a different assignment, such as a paper on a different topic, a graduate school application essay and writing sample, a career application portfolio or part of an honors thesis.
Prerequisite: None.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

Italian (ITAL)

ITAL 15201 ELEMENTARY ITALIAN I 4 Credit Hours
An introduction to the Italian language in the context of Italian culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ITAL 15202 ELEMENTARY ITALIAN II 4 Credit Hours
A continuation of the introduction to the Italian language in the context of Italian culture.
Prerequisite: ITAL 15201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ITAL 15204 BASIC CONVERSATIONAL ITALIAN I 2 Credit Hours
Exposure to basic grammar and to current Italian useful to travelers. Not applicable to fulfillment of foreign language requirement.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ITAL 25201 INTERMEDIATE ITALIAN I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: ITAL 15202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ITAL 25202 INTERMEDIATE ITALIAN II 3 Credit Hours
Continuation of ITAL 25201.
Prerequisite: ITAL 25201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ITAL 35211 COMPOSITION AND CONVERSATION: CONTEMPORARY ITALIAN SOCIETY 3 Credit Hours
This course is designed to develop acquisition of written and oral proficiency through the study and practice of written and spoken Italian in the context of contemporary societal issues.
Prerequisite: ITAL 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35213 COMPOSITION AND CONVERSATION: MEDIA AND INFORMATION IN ITALY 3 Credit Hours
This course is designed to develop acquisition of written and oral proficiency through the sturdy and practice of written and spoken Italian in the context of contemporary Italian media and information-gathering.
Prerequisite: ITAL 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35323 GRAMMAR OF FANTASY: THE LITERATURE AND TEACHINGS OF GIANNI RODARI 3 Credit Hours
This course, conducted in Italian, examines the literature and teachings of Gianni Rodari, renowned author of Italian children's literature. Readings explore Rodari's nursery rhymes, fables, his novel-length children's fairy tale and the essay collection that provides the foundation of his educational theory based on creativity and children's happiness.
Prerequisite: ITAL 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35331 EARLY ITALIAN LITERATURE 3 Credit Hours
A survey of Italian literature from its medieval origins through the Baroque period.
Prerequisite: ITAL 35211 or ITAL 35213.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35332 RECENT ITALIAN LITERATURE (ELR) 3 Credit Hours
A survey of Italian literature from the Enlightenment through the 1900s and into the 21st century.
Prerequisite: ITAL 35211 or ITAL 35213.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ITAL 35340 BOCCACCIO'S DECAMERON IN TRANSLATION 3 Credit Hours
The Decameron, one of the most entertaining, beloved and imitated prose works ever written, is an accurate reflection of fourteenth-century life in Italy. Like Dante's Divine Comedy, this human comedy was written not only to delight, but also to instruct by exploring both our spiritual and our natural environment. Giovanni Boccaccio (1313-1375), considered by some typically medieval and by others one of the first truly modern literary figures to emerge from the darkness of the Middle Ages into the light of the Renaissance, shows himself, as author of The Decameron, to be both a passionate believer and a passionate critic as he reconstructs society, destroyed by the Black Plague, through the perfection of his 100-fold narrative. Boccaccio's Decameron, of course, generated a flourishing early modern tradition of proto-novelistic short-story collections (think of Marguerite de Navarre and Cervantes), but also provided substantial material for the nascent dramatic tradition (from Machiavelli's Mandragola to Shakespeare's All's Well). His biographical collection, Of Famous Women, was an indispensable source and model for the wide-spread debates on the status of women. His Genealogy of the Gentile Gods was a staple of the Renaissance mythographical tradition. This course is taught in English.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35421 ITALIAN CIVILIZATION 3 Credit Hours
Lectures, readings, oral and written reports on outstanding features of the culture and civilization of Italy.
Prerequisite: ITAL 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35540 DANTE'S DIVINE COMEDY IN TRANSLATION 3 Credit Hours
This course is an introduction to Dante and the history of Florence through critical reading and discussion of the Divine Comedy and selected minor works: Vita Nova, Convivio, De vulgari eloquentia and the Epistle to Cangrande. Close readings of the Inferno, Purgatory and Paradise will explore the literary, political, theological and philosophical concerns of the poem in order to understand Dante's work within the intellectual and social context of the Middle Ages. Some of the central topics of the course will include Dante's relationship to Florence, his use of classical, Christian and mythological personages, symbols and references; his views on the papacy and the empire, his relationship to the people he encounters and the unique aspects of his vision of the afterlife. In addition, we will focus on a variety of thematic concerns including Dante's understanding of poetry, grace, love and divine justice. Though primarily taught through a combination of lecture and discussion, the course will also focus on the use of art, film, music, performance, digital media and other interdisciplinary methods that have been used to interpret and further our understanding the Divine Comedy and its lasting fascination and influence. The course and the readings will be offered in English.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35597 COLLOQUIUM 3 Credit Hours
(Repeatable for credit)Variable topic course deals with single literary theme in Italian literature or a single author. May be offered in Italian or in English translation.
Prerequisite: Permission.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

ITAL 45093 VARIABLE TITLE WORKSHOP IN ITALIAN 1-6 Credit Hours
(Repeatable for credit)Workshops individually designed to provide instruction and training in specific areas of Italian studies.
Prerequisite: Departmental permission.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ITAL 45095 SPECIAL TOPICS IN ITALIAN 3 Credit Hours
Designed to instruct students on a specific topic in the area of Italian studies.
Prerequisite: ITAL 35211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Italian language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Italian (ITAL) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ITAL 45212 ADVANCED ITALIAN CONVERSATION 3 Credit Hours
Designed to develop students' ability to employ acquired grammar and vocabulary in conversation in Italian. Students will elaborate on cultural and social aspects of Italy presented in class and actively participate in class discussions.
Prerequisite: ITAL 35211 or 35213.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Japanese (JAPN)

JAPN 15101 ELEMENTARY JAPANESE I 4 Credit Hours
Introduction to modern standard Japanese in the context of Japanese culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

JAPN 15102 ELEMENTARY JAPANESE II 4 Credit Hours
A continuation of the introduction to modern standard Japanese in the context of Japanese culture.
Prerequisite: JAPN 15101.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

JAPN 25201 INTERMEDIATE JAPANESE I 4 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: Minimum C- grade in JAPN 15102.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

JAPN 25202 INTERMEDIATE JAPANESE II 4 Credit Hours
Continuation of JAPN 25201.
Prerequisite: JAPN 25201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

JAPN 30095 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)Topic to be announced in schedule of classes.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 35010 INTERMEDIATE READING 3 Credit Hours
The goal of this course is to achieve basic to intermediate competency with reading modern Japanese, develop reading strategies and comprehend and discuss the content of the readings. The course is conducted in both English and Japanese and consists of close, collaborative readings of texts. Students are required to give small presentations and complete weekly assignments and quizzes. There is also a midterm and final exam.
Prerequisite: JAPN 25201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 35101 INTENSIVE JAPANESE GRAMMAR 3 Credit Hours
A continuation of the study of modern standard Japanese grammar. Focus on passive, causative, passive-causative forms.
Prerequisite: JAPN 25202 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 35325 READINGS IN MODERN JAPANESE 3 Credit Hours
Close readings of contemporary Japanese topics such as technology, pop culture, food, geography, etc. Emphasizes reading skills, vocabulary, and kanji.
Pre/corequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 35326 ADVANCED READING 3 Credit Hours
This course is a continuation of JAPN 35010. The goal of this course is to achieve intermediate to advanced competency with reading modern Japanese, develop reading strategies and comprehend and discuss the content of the readings. The course is conducted in both English and Japanese and consists of close, collaborative readings of texts. Students are required to give small presentations and complete weekly assignments and quizzes. There is also a midterm and final exam.
Prerequisite: JAPN 35010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Japanese language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Japanese (JAPN) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

JAPN 45211 WRITING IN JAPANESE 3 Credit Hours
Advanced study of Japanese with emphasis on writing in different styles (essays, questionnaires, charts, emails, etc).
Pre/corequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45212 ORAL COMMUNICATION IN JAPANESE 3 Credit Hours
The class focuses on oral communication. Students practice expressing their opinions on familiar subjects and various topics related to Japanese culture through group discussion, interviews, role plays, and presentations. They learn different communication strategies and conversation styles from casual to formal.
Pre/corequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45301 BUSINESS JAPANESE 3 Credit Hours
Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.
Prerequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

JAPN 45411 VOICES FROM JAPAN 3 Credit Hours
Designed to further develop students' proficiency in speaking, listening, writing and reading comprehension. The textbook includes interviews with Japanese from various backgrounds.
Pre/corequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45421 JAPANESE CULTURE 3 Credit Hours
Explores key aspects of traditional and contemporary Japanese culture. Taught in English; no knowledge of Japanese necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45591 VARIABLE TOPIC SEMINAR IN JAPANESE 3 Credit Hours
(Repeatable for credit) Seminar in Japanese literature or culture; course may be repeated when content varies. Student should have completed at least 9 hours of upper division work in Japanese.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

JAPN 55301 BUSINESS JAPANESE 3 Credit Hours
Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 65010 THE PRACTICE OF JAPANESE TRANSLATION 2 Credit Hours
Provides an introduction to the translation of non-specialized, non-fiction Japanese texts, focusing on common problem areas, general translation strategies, and specific techniques for resolving problems.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

JAPN 65091 SEMINAR IN JAPANESE TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized Japanese translation projects currently of concern in the translation industry. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: JAPN 65010 and TRST 60010; and graduate studies.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

JAPN 65098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Japanese language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

JAPN 65240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treaties and essays.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 65250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 65251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 65979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

Jewish Studies (JWST)

JWST 11001 INTRODUCTION TO JEWISH STUDIES 3 Credit Hours
Introductory exploration and examination of the diversity of Jewish life, culture, religion and society from antiquity to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 20011 INTRODUCTION TO THE HEBREW BIBLE OR OLD TESTAMENT 3 Credit Hours
Introduces students to the modern study of the Hebrew Bible (Old Testament) and the history and religion of ancient Israel. Designed to help students to understand the development of the Hebrew Bible in its ancient context. The course approaches the Hebrew Bible from historical, comparative, literary, anthropological and archeological perspectives in an effort to illuminate the world of its authors. No prior knowledge of the Bible, Judaism or Christianity is required.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 30092 INTERNSHIP IN JEWISH STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) Internship in Jewish studies.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

JWST 30100 JEWISH WOMEN IN THE MODERN WORLD 3 Credit Hours
Course explores the lives and experiences of Jewish women from diverse communities and traditions, in relation to a wide array of divergent cultural contexts within the modern world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 30200 JEWS, BASEBALL AND AMERICAN SPORTS 3 Credit Hours
Chronicles the experience of Jewish players and performers in American sports. Course explores the issues of religious and ethnic prejudice that Jewish athletes endured, challenged and overcame.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 30300 CHILDREN OF THE HOLOCAUST: PERPETRATORS AND VICTIMS 3 Credit Hours
Examination of the children directly affected by the Holocaust (whether as victims, perpetrators, heroes, rescuers or survivors) and the impact these children had on the Holocaust and on history.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 30301 HOLLYWOOD AND THE HOLOCAUST 3 Credit Hours
This course will examine the history of how Hollywood, starting in the 1930s, dealt with the rise of Nazism and its impact on the Jews of Germany and of Europe. In addition, we will be dealing with the large numbers of Holocaust-related films that reached the movie houses starting in the late 1940s to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

JWST 40089 STUDY ABROAD (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) A Kent State study abroad experience led by Jewish Studies faculty that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

JWST 40090 STUDY AWAY (ELR) 1-4 Credit Hours
(Repeatable for credit) A Kent State out-of-classroom experience led by Jewish Studies faculty that integrates traditional classroom learning with experiential activities and site visits within the United States.
Prerequisite: None.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

JWST 40095 SPECIAL TOPICS IN JEWISH STUDIES 3 Credit Hours
(Repeatable for credit) Topics vary per course offering as published in the Schedule of Classes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Student-initiated experience in an area of interest not covered by a regular course offering and with the guidance of a Kent State faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

Kent Blossom Music (KBM)

KBM 40026 ACCOMPANYING PROJECTS 2-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation master classes and instrumental private lessons. Individual responsibilities change weekly.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 40031 CHAMBER MUSIC 1-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) rehearsal, coaching and performance of representative chamber repertoire from the baroque era through the twentieth century. Woodwinds horn strings and piano. Intensive daily rehearsal and coaching.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 40032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds horn and strings.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 40093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 50026 ACCOMPANYING PROJECTS 2-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) Rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation, master classes and instrumental private lessons. Individual responsibilities change weekly.
Prerequisite: Graduate standing; and audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 50031 CHAMBER MUSIC 1-4 Credit Hours
(Repeatable for credit) Rehearsal, coaching and performance of representative chamber repertoire from the Baroque Era through the twentieth century. Woodwinds, horn, strings and piano. Intensive daily rehearsal and coaching.
Prerequisite: Graduate standing; and audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 50032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds, horn and strings.
Prerequisite: Graduate standing; and audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 50093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 70026 ACCOMPANYING PROJECTS 2-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) Rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation, master classes and instrumental private lessons. Individual responsibilities change weekly.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 70031 CHAMBER MUSIC 1-4 Credit Hours
(Repeatable for credit) Rehearsal, coaching and performance of representative chamber repertoire from the Baroque era through the twentieth century. Woodwinds, brass, strings and piano. Intensive daily rehearsal and coaching.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 70032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds, horn and strings.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 70093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 4 other
Grade Mode: Satisfactory/Unsatisfactory

Kent Blossom Theatre (KBT)

KBT 22092 PRACTICUM I:DESIGN/TECHNOLOGY (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Practical experience in theatre production under faculty supervision. Available for lower division students only.
Prerequisite: Freshman and sophomore standing only.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 22192 PRACTICUM I:PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for a total of 12 hours) practical experience in theatre performance under faculty supervision. Available for lower division students only. Repeatable for a total of 12 hours.
Prerequisite: Freshman and sophomore standing only.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 41096 INDIVIDUAL STUDY:THEATRE 1-3 Credit Hours
(Repeatable for a total of 12 hours) Selected research topics in theatre.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

KBT 41992 THEATRE PRODUCTION INTERNSHIP (ELR) 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours)Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 42092 PRACTICUM II: DESIGN/TECHNOLOGY (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre production under faculty supervision. Available for upper division students only.
Prerequisite: Junior and senior standing only.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 42192 PRACTICUM II:PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre performance under faculty supervision. Available for upper division students only.
Prerequisite: Junior and senior standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 60199 M.F.A.. THESIS 3 Credit Hours
(Repeatable for credit) Students must register for course during the semester of their MFA thesis project.
Prerequisite: Graduate standing; and special approval of adviser.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KBT 60992 PROFESSIONAL THEATRE INTERNSHIP I 1,6 Credit Hour
(Cross-listed with THEA 60992) (Repeatable once for credit) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre Company.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 61096 INDIVIDUAL INVESTIGATION:THEATRE AND DRAMA 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

KBT 61992 PROFESSIONAL THEATRE INTERNSHIP II 1,6 Credit Hour
Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 62092 PRACTICUM: DESIGN/TECHNOLOGY 3 Credit Hours
(Repeatable for credit)Practical experience for the graduate student in theatre design and technology under faculty supervision.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 62192 PRACTICUM:PERFORMANCE 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Cross-listed with THEA 62192)Practical experience for the graduate student in theatre performance under faculty supervision.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 62992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours)Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.
Prerequisite: Graduate standing; and special approval of adviser.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 72992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours)Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.
Prerequisite: Doctoral standing; and special approval of adviser.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

Knowledge Management (KM)

KM 41095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Topics could include current or emerging issues in knowledge management. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

KM 41096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

KM 60301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT 3 Credit Hours
(Slashed with KM 80301) An introduction to the field of Knowledge Management (KM) with particular attention given to KM practices in various environments such as business, government, the military, non-profits, education, communities and societies. This course will provide students with an understanding of the nature of knowledge, core KM principles, KM processes, the KM life cycle, KM social and technological tools, KM's effects and effectiveness, KM ethics, KM strategy and significant KM issues such as culture, and innovation. Covers principles of collection versus connection as to knowledge.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60302 DESIGNING AND IMPLEMENTING KNOWLEDGE MANAGEMENT IN THE WORKPLACE 3 Credit Hours
(Slashed with KM 80302). This course will explore how to effectively create a Knowledge Management (KM) program, including learning about factors that can lead to either success or failure. Two broad areas of focus will include purposeful collaboration and effective networking. This course will cover a complete KM program methodology starting from the initial steps to form a KM program and how to create an implementation plan to give any organization the greatest chance to go from strategy to action to sustainability.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60303 KNOWLEDGE METRICS AND ASSESSMENT 3 Credit Hours
(Slashed with KM 80303) Learn how to design, build, and operate a measurement strategy that evaluates the effectiveness of a Knowledge Management (KM) program and its components in achieving business objectives. The course provides an overview of overall organization measurement approaches (e.g., focus groups, interviews, surveys) and applies them in a KM context (e.g., KM Maturity Model, Communities of Practice, Search, Expert Finding). Students will also learn how to tailor their presentation of resulting metrics for specific audiences (KM practitioner, business leader, etc.). Students will apply what they have learned to develop a measurement strategy using case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60305 COMMUNITIES OF PRACTICE 3 Credit Hours
(Slashed with KM 80305) This course will explore communities and community management from a practical perspective. It will enable students to learn how knowledge management leaders launch and lead communities of practice programs as part of their initiatives. Students will learn how community managers do their jobs successfully through applying proven practices for creating and cultivating communities. The course exposes students to the fundamental concepts and principles of communities of practice and includes real life case studies. Students will complete a course project pertaining to community of practice evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60306 THOUGHT LEADERSHIP AND CAREER DEVELOPMENT IN KNOWLEDGE MANAGEMENT 1 Credit Hour
(Slashed with KM 80306) Students will develop thought leadership strategies and innovative ideas to build their professional agenda and guide career planning. Students will review their knowledge of business from a knowledge management perspective and identify related career path options. Students will share their career options to help determine their M.S. program plan.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

KM 60308 EMERGING TECHNOLOGIES IN KNOWLEDGE MANAGEMENT 3 Credit Hours
(Slashed with KM 80308) Explores the various emerging digital technologies and their application to the digital workplace that complement the human aspects of knowledge management. Work process digitalization is accelerating and artificial intelligence and mixed reality devices are critical technologies that will allow knowledge management professionals to deliver instant, relevant knowledge in the context of the work for both field and knowledge workers. Includes real life case studies of pioneers of emerging digital technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60312 STRATEGIC INTELLIGENCE 3 Credit Hours
(Slashed with KM 80312) This course is an introduction to strategic intelligence, consisting of competitive and business intelligence. Strategic intelligence is both art and science, used for critical decision-making, planning and response. Businesses and governments require effective intelligence programs, processes and tools, to track competitors, markets and trends by acquiring, organizing, analyzing and disseminating intelligence. Students will learn about the intelligence cycle, needs analysis and intelligence analysis resources, techniques and technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60316 ORGANIZATIONAL CULTURE ASSESSMENT 3 Credit Hours
(Slashed with KM 80316) In this course, students will examine different types of cultures and how each type influences a knowledge organization - how culture influences the way knowledge workers work, how they make decisions and how they behave, the internal cultures of groups and communities, the cultural attributes of knowledge workers which may impact their knowledge behaviors. Organizational cultures of multicultural, global and virtual organizations are covered in this course. Students conduct an organizational culture assessment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60370 SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES 3 Credit Hours
(Slashed with KM 80370) Introduces students to the practical contexts, methods and tools associated with semantic analysis. Focuses on early life cycle aspects of semantics, including identification and modeling of semantic problems, design of semantic solutions, and the identification and implementation of appropriate semantic technologies. Covers natural language processing, rule-based and grammar based concept extraction, rule-based and dynamic classification and automated summarization. Students work with a variety of semantic technologies.
Prerequisite: BA 64036 or EMAT 64210 or KM 60301; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60691 SEMINAR IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) (Slashed with KM 80691) Advanced research by students who are qualified to examine problems of certain special areas in knowledge management.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

KM 60693 VARIABLE TITLE WORKSHOP IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Intensive examination of special topics of interest to those involved in knowledge management.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

KM 61095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) (Slashed with KM 81095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in knowledge management. Specific topics are announced in the Schedule of Classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

KM 61096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for master's level students. Maximum credit towards master's degree: 6 hours.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

KM 66092 MASTER'S INTERNSHIP IN KNOWLEDGE MANAGEMENT 3 Credit Hours
Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of knowledge management and integrates their knowledge from all KM courses and experiences.
Prerequisite: KM 60301, KM 60302, KM 60306, LIS 60636 and MGMT 64158; and a minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 66099 MASTER'S PROJECT IN KNOWLEDGE MANAGEMENT 3 Credit Hours
Provides a means for the application of the knowledge, research and competencies learned through study in knowledge management to the development of an information system, product, setting or service.
Prerequisite: KM 60301, KM 60302, KM 60306, LIS 60636 and MGMT 64158; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 66198 MASTER'S RESEARCH PAPER IN KNOWLEDGE MANAGEMENT 3 Credit Hours
Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the Knowledge Management master's degree.
Prerequisite: KM 60301, KM 60303, KM 60306, LIS 60636 and MGMT 64158; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Master's Project
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 66199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: KM 60301, KM 60302, KM 60306, LIS 60636; MGMT 64158; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 66299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: KM 66199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 80301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT 3 Credit Hours
(Slashed with KM 60301) An introduction to the field of Knowledge Management (KM) with particular attention given to KM practices in various environments such as business, government, the military, non-profits, education, communities, and societies. This course will provide students with an understanding of the nature of knowledge, core KM principles, KM processes, the KM life cycle, KM social and technological tools, KM's effects and effectiveness, KM ethics, KM strategy, and significant KM issues such as culture, and innovation. Covers principles of collection versus connection as to knowledge.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80302 DESIGNING AND IMPLEMENTING KNOWLEDGE MANAGEMENT IN THE WORKPLACE 3 Credit Hours
(Slashed with KM 60302). This course will explore how to effectively create a Knowledge Management (KM) program, including learning about factors that can lead to either success or failure. Two broad areas of focus will include purposeful collaboration and effective networking. This course will cover a complete KM program methodology starting from the initial steps to form a KM program and how to create an implementation plan to give any organization the greatest chance to go from strategy to action to sustainability.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80303 KNOWLEDGE METRICS AND ASSESSMENT 3 Credit Hours
(Slashed with KM 60303) Learn how to design, build, and operate a measurement strategy that evaluates the effectiveness of a Knowledge Management (KM) program and its components in achieving business objectives. The course provides an overview of overall organization measurement approaches (e.g., focus groups, interviews, surveys) and applies them in a KM context (e.g., KM Maturity Model, Communities of Practice, Search, Expert Finding). Students will also learn how to tailor their presentation of resulting metrics for specific audiences (KM practitioner, business leader, etc.). Students will apply what they have learned to develop a measurement strategy using case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80305 COMMUNITIES OF PRACTICE 3 Credit Hours
(Slashed with KM 60305) This course will explore communities and community management from a practical perspective. It will enable students to learn how knowledge management leaders launch and lead communities of practice programs as part of their initiatives. Students will learn how community managers do their jobs successfully through applying proven practices for creating and cultivating communities. The course exposes students to the fundamental concepts and principles of communities of practice, and includes real life case studies. Students will complete a course project pertaining to community of practice evaluation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80306 THOUGHT LEADERSHIP AND CAREER DEVELOPMENT IN KNOWLEDGE MANAGEMENT 1 Credit Hour
(Slashed with KM 60306). Students will develop thought leadership strategies and innovative ideas to build their professional agenda and guide career planning. Students will review their knowledge of business from a knowledge management perspective and identify related career path options.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

KM 80308 EMERGING TECHNOLOGIES IN KNOWLEDGE MANAGEMENT 3 Credit Hours
(Slashed with KM 60308) Explores the various emerging digital technologies and their application to the digital workplace that complement the human aspects of knowledge management. Work process digitalization is accelerating and artificial intelligence and mixed reality devices are critical technologies that will allow knowledge management professionals to deliver instant, relevant knowledge in the context of the work for both field and knowledge workers. Includes real life case studies of pioneers of emerging digital technologies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80316 ORGANIZATIONAL CULTURE ASSESSMENT 3 Credit Hours
(Slashed with KM 60316) In this course, students will examine different types of cultures and how each type influences a knowledge organization - how culture influences the way knowledge workers work, how they make decisions and how they behave, the internal cultures of groups and communities, the cultural attributes of knowledge workers which may impact their knowledge behaviors. Organizational cultures of multicultural, global and virtual organizations are covered in this course. Students conduct an organizational culture assessment.
Prerequisite: KM 80301; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80370 SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES 3 Credit Hours
(Slashed with KM 60370) Introduces students to the practical contexts, methods and tools associated with semantic analysis. Focuses on early life cycle aspects of semantics, including identification and modeling of semantic problems, design of semantic solutions and the identification and implementation of appropriate semantic technologies. Covers natural language processing, rule-based and grammar based concept extraction, rule-based and dynamic classification and automated summarization. Students work with a variety of semantic technologies.
Prerequisite: KM 80301; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80691 SEMINAR IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) (Slashed with KM 60691) Advanced research by students who are qualified to examine problems of certain special areas in knowledge management.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

KM 81095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) (Slashed with KM 61095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in knowledge management. Specific topics are announced in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

KM 81096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit). Research or individual investigation in areas not covered by the existing curriculum for doctoral level students. Deliverables determined with instructor of record.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

Landscape Architecture (LARC)

LARC 40095 SPECIAL TOPICS IN LANDSCAPE ARCHITECTURE 1-3 Credit Hours
(Slashed with LARC 50095)(Repeatable for credit) Special topics in landscape architecture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LARC 50095 SPECIAL TOPICS IN LANDSCAPE ARCHITECTURE 1-3 Credit Hours
(Slashed with LARC 40095)(Repeatable for credit) Special topics in landscape architecture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LARC 50100 DESIGN VISUALIZATION 3 Credit Hours
Demonstration and application of computer software that aids the communication skill of a designer.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 50101 LANDSCAPE ARCHITECTURE STUDIO I 6 Credit Hours
Garden Typologies: Beginning studio focused on garden typologies including exploration of small scale design elements and site, with private spaces emphasis.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

LARC 50102 LANDSCAPE ARCHITECTURE STUDIO II 6 Credit Hours
Neighborhoods: Small scale community design that connects spaces to form neighborhoods and establishes linkages to larger communities.
Prerequisite: LARC 50101; and landscape architecture major; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

LARC 60103 LANDSCAPE ARCHITECTURE STUDIO III 6 Credit Hours
Systems and Infrastructure: Natural and hybrid ecological design studio with exploration of the role of systems and the integration into suburban and urban infrastructures with a focus on ecological function and services.
Prerequisite: LARC 50102; and landscape architecture major; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

LARC 60104 LANDSCAPE ARCHITECTURE STUDIO IV 6 Credit Hours
Urban Form: Urban design studio at multiple scales to understand the diversity of a city with an emphasis on the relationships of architecture forms, systems, infrastructures, and landscape architecture functions.
Prerequisite: LARC 60103; and landscape architecture major; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

LARC 60105 LANDSCAPE ARCHITECTURE STUDIO V 6 Credit Hours
Interdisciplinary or Capstone Studio: Option of a studio with graduate CUDC architecture and urban design students or development of an individual studio project with a selected faculty advisor.
Prerequisite: LARC 60104; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

LARC 60106 LANDSCAPE ARCHITECTURE STUDIO VI 6 Credit Hours
Interdisciplinary or Capstone Studio 2: Option of a studio with graduate CUDC architecture and urban design students or develop individual studio project and select faculty adviser.
Prerequisite: LARC 60105; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter-IP

LARC 60111 LANDSCAPE HISTORY AND THEORY 3 Credit Hours
Presentation of important landscape events, people and places to document and explain the factors that influenced the built and natural environments, with emphasis on cultural theories of design and their influence upon the built and natural environments.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60301 SITE ENGINEERING 3 Credit Hours
Examination and application of typical engineering strategies for small and large scale landscape projects with a concentration on sustainable practices.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60401 LANDSCAPE ARCHITECTURE CONSTRUCTION METHODS 3 Credit Hours
Discussion and application of small and large scale construction techniques that explore materials, construction assemblies, construction methods and construction documentation including investigations of lifecycles and maintenance of design decisions.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60601 PLANTS AND PLANTED FORM 3 Credit Hours
Plant identification with emphasis on individual plants and plant communities as relate to the built environment; integrated into the application of formal and informal design strategies for landscape planning that explores individual plants, plant communities and ecosystems. Further emphasis is placed on the relationships of architecture and interior design to landscape architecture.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60602 URBAN ECOLOGICAL SYSTEMS 3 Credit Hours
Study of how ecological systems in highly anthropocentric environments provide necessary ecological services. Emphasized is the role that water plays in activating the supporting, provisioning, regulating and cultural ecosystem services required for human well-being.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60798 MASTER PROJECT IN LANDSCAPE ARCHITECTURE RESEARCH 3 Credit Hours
Development of a rationale and structure for the independent design project to be completed in the final semester of the program.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 9 other
Grade Mode: Standard Letter

LARC 60799 MASTERS PROJECT IN LANDSCAPE ARCHITECTURE 6 Credit Hours
Independent Landscape Architecture design project, completed under the direction of an individual advisor selected from the graduate faculty.
Prerequisite: LARC 60105 and Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 6 other
Grade Mode: Standard Letter

LARC 60922 METHODS OF INQUIRY IN ARCHITECTURAL STUDIES 2 Credit Hours
(Cross-listed with AED 60922 and ARCH 60922) Provides a comprehensive coverage of architectural inquiry techniques, including qualitative and quantitative research methods and critical-thinking skills to help students better conduct and understand research.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

LARC 60923 EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN 1 Credit Hour
(Cross-listed with AED 60923) Introduces student to faculty-directed research in a field within the environmental design domain. Includes lectures by research faculty, readings from primary and review literature, and regular discussions among students, faculty and other research associates working under the direction of a principal investigator.
Prerequisite: Landscape architecture major; and graduate standing.
Corequisite: LARC 60922.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LARC 65003 PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT 3 Credit Hours
Discusses issues of professional leadership and examines architectural office structures. Management approaches, professional registration and practice, use of consulting engineers and financial management of an office in the profession as business.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 66992 FIELD STUDY IN LANDSCAPE ARCHITECTURE 1-3 Credit Hours
(Repeatable for credit) Field study in landscape architecture.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter

Latin (LAT)

LAT 16201 ELEMENTARY LATIN I 4 Credit Hours
An introduction to the classical Latin language in the context of ancient Roman culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

LAT 16202 ELEMENTARY LATIN II 4 Credit Hours
A continuation of the introduction to the classical Latin language in the context of ancient Roman culture.
Prerequisite: LAT 16201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

LAT 26201 INTERMEDIATE LATIN I: READINGS 3 Credit Hours
Excerpts from Latin literature with emphasis on translation into English.
Prerequisite: LAT 16202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

LAT 26202 INTERMEDIATE LATIN II: READINGS 3 Credit Hours
Excerpts from Latin literature with emphasis on both prose (e.g., Caesar, Cicero) and poetry (Vergil, Catullus).
Prerequisite: LAT 26201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

LAT 36172 ADVANCED READINGS IN LATIN 3 Credit Hours
Readings in the original Latin of prose and poetry authors studied from a literary and grammatical standpoint.
Prerequisite: LAT 26202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41214 LATIN EPIGRAPHY 3 Credit Hours
Study of ancient inscriptions (funerary, career, documentary, graffiti, etc.) preserved on any kind of durable material, with focus on cultural information necessary to understand the content and significance of the inscriptions under investigation.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41304 ROMAN HISTORIANS 3 Credit Hours
(Slashed with LAT 51304) Stylistics and cultural context of Roman historians. Readings from any of the following: Caesar, Livy, Suetonius, Tacitus.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41305 ROMAN COMEDY AND SATIRE 3 Credit Hours
Stylistics, history and cultural context of Roman comedy and satire. Readings from any of the following: Plautus, Terence, Horace, Juvenal, Persius, Martial.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41306 LATIN EPIC 3 Credit Hours
(Slashed with LAT 51306) Stylistics, history and cultural context of Latin epic poetry. Readings from any of the following: Vergil, Lucretius, Ovid, Lucan, Statius.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41307 LYRIC AND ELEGIAC POETRY 3 Credit Hours
(Slashed with LAT 51307) Stylistics, history and cultural context of Latin lyric and elegiac poetry. Readings from any of the following: Catullus, Horace, Propertius, Tibullus, Ovid.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41308 ORATORY AND LETTERS 3 Credit Hours
Stylistics, history and cultural context of Latin oratory and the Latin epistle. Readings from any of the following: Cicero, Seneca, Pliny.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 46095 SELECTED TOPICS IN LATIN 3 Credit Hours
(Repeatable for credit) Topic announced in the schedule of classes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 46096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Latin language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Latin (LAT) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

LAT 46211 LATIN PROSE COMPOSITION 3 Credit Hours
Analysis of prose models; writing of connected Latin prose with attention to the Latin idiom.
Prerequisite: LAT 36172.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 51304 ROMAN HISTORIANS 3 Credit Hours
(Slashed with LAT 41304) Stylistics and cultural context of Roman historians. Readings from any of the following: Caesar, Livy, Suetonius, Tacitus.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 51306 LATIN EPIC 3 Credit Hours
(Slashed with LAT 41306) Stylistics, history and cultural context of Latin epic. Readings from any of the following: Vergil, Ovid, Lucan, Lucretius, Statius.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 51307 LYRIC AND ELEGIAC POETRY 3 Credit Hours
(Slashed with LAT 41307) Stylistics, history and cultural context of Latin lyric and elegiac poetry. Readings from any of the following. Catullus, Horace, Propertius, Tibullus, Ovid.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 56095 SELECTED TOPICS IN LATIN 3 Credit Hours
(Repeatable for a maximum of 15 credit hours)Topic to be announced in semester schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 61001 RESEARCH AND WRITING 3 Credit Hours
Use of lexical tools, bibliographies and corpora specific to research in Classics and Latin. Conventions of scholarship in the discipline of Classics. To be taken in conjunction with a 50000 or 60000-level course in Latin literature.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 61214 LATIN EPIGRAPHY 3 Credit Hours
Study of ancient inscriptions (funerary, career, documentary, graffiti, etc.) preserved on any kind of durable material, with focus on cultural information necessary to understand the content and significance of the inscriptions under investigation.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 61305 ROMAN COMEDY AND SATIRE 3 Credit Hours
Stylistics, history and cultural context of Roman comedy and satire. Readings from any of the following: Plautus, Terence, Horace, Juvenal, Persius, Martial.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 61308 ORATORY AND LETTERS 3 Credit Hours
Stylistics, history and cultural context of Latin oratory and the Latin epistle. Readings from any of the following: Cicero, Seneca, Pliny.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 66199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LAT 66211 ADVANCED PROSE COMPOSITION 3 Credit Hours
More thorough training in composition where need is established.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 66299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: LAT 66199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LAT 66391 SEMINAR IN CLASSICAL LITERATURE 2,3 Credit Hours
(Repeatable for credit)Topics to be announced.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP

LAT 66398 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Latin language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

Learning Science (LRNS)

LRNS 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: LRNS 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 65525 INFORMAL LEARNING 3 Credit Hours
(Slashed with LRNS 75525) Learning opportunities across the lifespan often occur outside of formal settings. Informal Learning explores learning in the wild, or learning without the use of formal techniques, curriculum, or assessments. The course will focus on helping students develop critical skills needed to read and synthesize basic research, as it is an important tool for lifelong learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 66510 INTRODUCTION TO R FOR EDUCATIONAL AND LEARNING SCIENCES 3 Credit Hours
(Slashed with LRNS 76510) An introduction to R for statistical computing for graduate students in educational, learning, cognitive, language and human behavioral sciences. Students will learn skills necessary to create graphical figures and tables and manipulate data structures and variables in executable code in R, R Studio and R markdown. Students will learn how to read, understand and synthesize code to develop readable data/results reporting formats on data repositories.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 66511 STATISTICAL PROGRAMMING IN R FOR LEARNING SCIENCE 3 Credit Hours
(Slashed with LRNS 76511) This is not a statistics course, but a programming course for statistics in R. The purpose of this course is to teach syntax for common analyses used in R among psychological and social sciences researchers. Theory, as related to statistics, will only be covered in reference to modeling constraints for each analysis. The purpose of this course will be to introduce students to basic syntax and data consideration for statistical analyses commonly used in R – such as t-tests, ANOVA, Regression, MANOVA, Power Analysis, and Mixed Random Effects Models.
Prerequisite: LRNS 66510 and RMS 68713 and RMS 68726; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 75525 INFORMAL LEARNING 3 Credit Hours
(Slashed with LRNS 66511) Learning opportunities across the lifespan often occur outside of formal settings. Informal Learning explores learning in the wild, or learning without the use of formal techniques, curriculum, or assessments. The course will focus on helping students develop critical skills needed to read and synthesize basic research, as it is an important tool for lifelong learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 76510 INTRODUCTION TO R FOR EDUCATIONAL AND LEARNING SCIENCES 3 Credit Hours
(Slashed with LRNS 66510) An introduction to R for statistical computing for graduate students in educational, learning, cognitive, language and human behavioral sciences. Students will learn skills necessary to create graphical figures and tables and manipulate data structures and variables in executable code in R, R Studio and R markdown. Students will learn how to read, understand and synthesize code to develop readable data/results reporting formats on data repositories.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 76511 STATISTICAL PROGRAMMING IN R FOR LEARNING SCIENCE 3 Credit Hours
(Slashed with LRNS 66511) This is not a statistics course, but a programming course for statistics in R. The purpose of this course is to teach syntax for common analyses used in R among psychological and social sciences researchers. Theory, as related to statistics, will only be covered in reference to modeling constraints for each analysis. The purpose of this course will be to introduce students to basic syntax and data consideration for statistical analyses commonly used in R – such as t-tests, ANOVA, Regression, MANOVA, Power Analysis, and Mixed Random Effects Models.
Prerequisite: LRNS 76510 and RMS 78713 and RMS 78726; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: LRNS 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 89096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT 1-3 Credit Hours
(Repeatable for credit) Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 89098 RESEARCH IN LEARNING AND DEVELOPMENT 1-6 Credit Hours
(Repeatable for credit) Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Lesbian, Gay, Bisexual, Transgender and Queer Studies (LGBT)

LGBT 20020 INTRODUCTION TO LESBIAN, GAY, BISEXUAL, TRANSGENDER AND QUEER STUDIES 3 Credit Hours
Introduction to the field of LGBTQ Studies as well as an introduction to critical issues in LGBTQ lives.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LGBT 30095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours
(Repeatable for credit) Study of special topics related to LGBTQ studies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LGBT 30120 LGBTQ RIGHTS AND CONTEMPORARY ISSUES 3 Credit Hours
This course will explore the current political, legal, and social climate in the United States for LGBTQ individuals. The main objective of this course will be to provide students with the skills and tools to engage intelligently in discourse about LGBTQ issues, rights, history, activism, and lives.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

LGBT 30135 LGBTQ REPRESENTATIONS IN POPULAR CULTURE 3 Credit Hours
This course will explore the representations or portrayals of LGBTQ people in popular culture. Popular culture includes pulp fiction, television, news media, social media, films, and other media.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

LGBT 30196 INDIVIDUAL INVESTIGATION IN LGBTQ STUDIES 1-3 Credit Hours
(Repeatable for credit) Individual investigation in areas of interest not covered in courses.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

LGBT 31138 LGBTQ RESEARCH METHODS (ELR) 3 Credit Hours
Explores different qualitative and quantitative methodologies through applied research on LGBTQ-related topics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

LGBT 40095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours
(Repeatable for credit) This course will provide new and emerging topics for students to study.
Prerequisite: LGBT 20020 or LGBT 31138.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LGBT 40192 PRACTICUM IN LGBTQ STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) Guided study of various aspects of the LGBTQ experience through involvement in the community, government agencies, non-profits, educational institutions, and other areas.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 8-18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

LGBT 40201 TRANSGENDER STUDIES 3 Credit Hours
Explores transgender studies, which addresses theories, practices, laws and other cultural expressions of sexed embodiments, gender identity and gender expression.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LGBT 40202 QUEER THEORY 3 Credit Hours
Explores theories related to sexual orientation, gender expression and gender identity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Liberal Studies (LSTU)

LSTU 60092 INTERNSHIP 1-6 Credit Hours
(Repeatable for credit) Students participate in internships under the direction of a faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LSTU 61091 LIBERAL STUDIES RESEARCH PAPER 1-3 Credit Hours
(Repeatable for credit) Students learn how to write a graduate-level research paper.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

LSTU 61098 LIBERAL STUDIES ESSAY 3 Credit Hours
(Repeatable for credit) The preparation of a lengthy, research-based essay related to the student's program of study for the Master of Liberal Studies degree.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Library and Information Science (LIS)

LIS 20600 APPLIED DATA AND INFORMATION FUNDAMENTALS 3 Credit Hours
This course provides an introduction to data science from an information science perspective. Key elements include the role and impact of data on people and society; the disciplinary and interdisciplinary nature of data science; the information science approach to data in an applied area; the stages of data in the data lifecycle; basic knowledge and skills associated with various stages of the data lifecycle; data-related standards, principles, and best practices to make data more accessible, discoverable, retrievable, and usable; and human-centered, ethical, and contextual considerations of data.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 30010 INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND 3 Credit Hours
This course is designed to help students understand, navigate and become full participants in information society. It goes beyond basic library and internet skills to highlight issues specific to professional information environments. Emphasis is placed on acknowledging the contextual, dynamic and fluid nature of information to further understand it as a process, commodity and entity. Students will examine and critically reflect on the value of using multiple information resources and emerging technologies to fill gaps in academic, professional and personal information contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 40645 DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS 3 Credit Hours
(Slashed with LIS 50645) Characteristics and concepts of database; different types of database models; conceptual database design and implementation; the relational database model and its application in practice for information professionals: key issues, principles, and techniques; data storage, processing, retrieval, analysis, and reporting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 40646 RESEARCH DATA MANAGEMENT 3 Credit Hours
(Slashed with LIS 50646) This course introduces students to current and historical issues and practice in the creation, management, curation, access and reuse of research data. Other related topics to be addressed include systems and standards for collecting, curating and preserving research data across different disciplines and contexts. Students will develop the skills to create actionable data management plans, to support sustainable projects and to work with researchers to build, access and maintain data infrastructures. Students will have the opportunity to apply some basic principles in their respective disciplinary interests.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 40647 INTRODUCTION TO DIGITAL HUMANITIES 3 Credit Hours
(Slashed with LIS 50647) Provides students with a greater understanding of how new forms of knowledge production and representation, computational thinking and applications of various information and digital technologies have impacted research and pedagogy in humanities disciplines. Special attention is given to how information professionals can support and promote digital humanities work. Students have the opportunity to explore, apply and critique the technologies, tools, methods and values of the digital humanities field.
Pre/corequisite: LIS 40645.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 40693 VARIABLE TITLE WORKSHOP IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) Intensive examination of special topics of interest in information studies.
Prerequisite: Junior or senior standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

LIS 41095 SPECIAL TOPICS IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 51095) Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 50645 DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS 3 Credit Hours
(Slashed with LIS 40645) Characteristics and concepts of database; different types of database models; conceptual database design and implementation; the relational database model and its application in practice for information professionals: key issues, principles, and techniques; data storage, processing, retrieval, analysis, and reporting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 50646 RESEARCH DATA MANAGEMENT 3 Credit Hours
(Slashed with LIS 40646) This course introduces students to current and historical issues and practice in the creation, management, curation, access and reuse of research data. Other related topics to be addressed include systems and standards for collecting, curating and preserving research data across different disciplines and contexts. Students will develop the skills to create actionable data management plans, to support sustainable projects and to work with researchers to build, access and maintain data infrastructures. Students will have the opportunity to apply some basic principles in their respective disciplinary interests.
Prerequisite: LIS 60510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 50647 INTRODUCTION TO DIGITAL HUMANITIES 3 Credit Hours
(Slashed with LIS 40647) Provides students with a greater understanding of how new forms of knowledge production and representation, computational thinking and applications of various information and digital technologies have impacted research and pedagogy in humanities disciplines. Special attention is given to how information professionals can support and promote digital humanities work. Students have the opportunity to explore, apply and critique the technologies, tools, methods and values of the digital humanities field.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 50693 VARIABLE TITLE WORKSHOP IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) Maximum workshop credit accepted for M.L.I.S. degree is 4 credit hours. Intensive examination of special topics of interest to current M.L.I.S. students and practicing librarians, archivists and museum studies professionals.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

LIS 51095 SPECIAL TOPICS IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 41095) Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 60020 INFORMATION ORGANIZATION 3 Credit Hours
Introduction to the theory and practice of information organization and retrieval in various information environments. Familiarity with principles, standards, tools and current systems relating to organization of information and retrieval. Exploration of supported information system functions such as searching, browsing, and navigation. Assessment and evaluation of information organization and retrieval systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60030 PEOPLE IN THE INFORMATION ECOLOGY 3 Credit Hours
Takes a user-centered approach in exploring the information needs and behaviors of people (as individuals and in groups, communities, and institutions) in relation to the larger information ecology that surrounds them. Topics covered include an overview of information ecology; the user-centered paradigm; major information needs and information behavior theories, models, and findings; the landscape of information sources and services for users; factors that influence people's information needs and behaviors; and user empowerment, information ethics, information fluency, and related issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60040 INFORMATION INSTITUTIONS AND PROFESSIONS 3 Credit Hours
Examines the political, social, economic, and technical forces that influence the larger environments in which information institutions are situated. This course explores characteristics of the environments in which information professionals may work, including but not limited to academic, school, public, and special libraries, museums, archives, cultural heritage institutions, government organizations, corporations across all industries, and information creators and publishers. The course explores characteristics of the information profession including core values and principles, emerging professions, and understanding possible futures in profession, and explores ideas of organizational behavior in information institutions that operate across the institution as a whole, within groups, and within individuals in the organization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60050 RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours
Focuses on quantitative and qualitative research methods applicable to information settings and environments. Explores research design, data analysis, proposal development, and ethical issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60099 MASTER'S PORTFOLIO IN LIBRARY AND INFORMATION SCIENCE 1 Credit Hour
Completed in a student's last semester. It will include the creation of an electronic portfolio to represent and self-evaluate the student's experience throughout the MLIS program, considering program learning outcomes and preparation for a career in the field of library and information science.
Prerequisite: LIS 60030; and LIS 60020 or LIS 60624; and LIS 60040 or LIS 60607; and 27 credit hours of graduate coursework; and graduate standing.
Pre/corequisite: LIS 60050.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.
Prerequisite: LIS 60020 and LIS 60030 and LIS 60040 and LIS 60050; and minimum 3.000 overall GPA; and 24 hours of LIS coursework; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: LIS 60199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 60401 LEADERSHIP IN LIBRARIES AND INFORMATION CENTERS 3 Credit Hours
This course will review the concept of leadership while delving into its relationship to and differences from management, and its application in the personal and professional lives of information professionals. Beginning with an examination of personal leadership styles, the course will review the major philosophies of leadership thought that affect the library and information fields, the role of mentors, team building, project management, the moral and ethical responsibilities of leading others and leading through change in the information world.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60510 DIGITAL TECHNOLOGIES I: DATA FUNDAMENTALS 1 Credit Hour
The first of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on data representation, encoding, formatting, and data modeling.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60511 DIGITAL TECHNOLOGIES II: INTERNET FUNDAMENTALS 1 Credit Hour
The second of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on online information systems, the Internet, and data security.
Prerequisite: Graduate standing.
Pre/corequisite: LIS 60510.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60512 DIGITAL TECHNOLOGIES III: INFORMATION SYSTEMS FUNDAMENTALS 1 Credit Hour
The third of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on Web-based information applications, programming logic, Linked Data, and the interpretation of data.
Prerequisite: Graduate standing.
Pre/corequisite: LIS 60511.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60601 INFORMATION SOURCES AND REFERENCE SERVICES 3 Credit Hours
Introduction to use and evaluation of basic sources of reference information, in-house and online; reference interview and question-negotiation techniques; administration of reference and information services.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60602 RESOURCE DESCRIPTION AND ACCESS 3 Credit Hours
Theoretical foundation, principles, core concepts, and practical application of current standards and conceptual models for the description (descriptive cataloging) of a variety of resources in information institutions. Topics include history and principles of descriptive cataloging standards, best practices documentation, resource discovery, authority work, encoding standards and structures, linked data, ethical issues, as well as current topics in resource description and access, such as emerging technologies and future directions.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60603 SUBJECT ANALYSIS, REPRESENTATION AND ACCESS 3 Credit Hours
(Slashed with LIS 80603) The course focuses on the theories, principles, and practices of subject analysis of the intellectual content of information resources and its representation through controlled vocabularies and classification. It covers fundamental concepts of aboutness, vocabulary control, classification theory, ethical considerations, and the theoretical foundations, structure, and the application of major subject vocabularies (LCSH), classification schemes (DDC and LCC), and other knowledge organization systems, including genre/form and named entity management. The course also includes examinations of authority control for subject headings.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60607 SCHOOL LIBRARY MANAGEMENT 3 Credit Hours
School Library Management focuses on theoretical and practical aspects of school library management. This course provides a foundation for the completion of a successful culminating experience practicum and licensure exam for School Library Media licensure K-12. The course content delivery, exploration activities and completion of assignments have been aligned with state of Ohio and the American Association of School Librarians national school library media standards and guidelines. This course includes 10 hours of practical experience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60608 THE PUBLIC LIBRARY 3 Credit Hours
Analysis of the historical, sociopolitical, technological, fiscal and organizational factors affecting American public librarianship. Includes evaluation, planning, networking, funding, automation, buildings and censorship.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60609 MARKETING THE LIBRARY 3 Credit Hours
Introduction to the theory and practice of marketing the library. Topics include the evaluation of customer needs, the marketing mix, merchandising, public relations, relationship marketing, and the design and development of a marketing plan for libraries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60612 LIBRARY MATERIALS AND SERVICES FOR ADULTS 3 Credit Hours
Recent investigations of group and individual reading habits; advisory services in various types of libraries; library programs for adult education; projection of library materials toward community.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60613 INFORMATION NEEDS, SEEKING AND USE 3 Credit Hours
(Slashed with LIS 80613) Surveys theories and research related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources, communication and collaboration in the information search process, information use, and other interactions among people, information, and information systems.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60614 COLLECTION MANAGEMENT IN LIBRARIES 3 Credit Hours
Principles of collection development and management for public, academic, school and special libraries, including maintenance (weeding and analysis), needs assessment, acquisitions, e-resources, licensing, and preservation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60615 THE ACADEMIC LIBRARY 3 Credit Hours
Governance, administration and services of libraries in institutions of postsecondary education.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60616 THE SPECIAL LIBRARY 3 Credit Hours
The formation of special libraries. Libraries in special subject fields and in organizations: corporations, government agencies, hospitals, etc. Internal organization and administration collection development and services.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60617 INFORMATION LITERACY FOR YOUTH 3 Credit Hours
This course is intended to guide graduate students in creating and providing information literacy instruction for youth in school and public libraries. This course includes 10 hours of practical experience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60618 INFORMATION LITERACY INITIATIVES AND INSTRUCTION 3 Credit Hours
Information literacy is an essential competency needed to navigate an information society. This course explores how to create and deliver effective information literacy instruction to post-secondary students and adult populations. Topics include a comparison of information literacy standards and frameworks; learning theories focused on adult learning; planning, creating, delivering, and assessing IL instruction activities; and developing and managing IL instruction in collaboration with key stakeholders.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60620 HEALTH INFORMATION RESOURCES 3 Credit Hours
Identifies print and electronic sources of health information with emphasis on electronic sources. Medical patient and consumer health information is presented. This course is designed for the health educator, librarian, nurse or other health care professional.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60624 CATALOGING FOR SCHOOL LIBRARIES 3 Credit Hours
Organization and administration of print and non-print materials in school libraries. Application of appropriate descriptive cataloging rules, subject headings and classification policies for children's, teen and educational materials K-12.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60625 ENGAGING YOUNG CHILDREN AND FAMILIES 3 Credit Hours
Selection and utilization of materials in relation to needs, abilities and interests of the young child.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60626 ENGAGING TEENS 3 Credit Hours
Selection and utilization of books and materials in relation to needs, abilities and interests of teens.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60627 ART AND STORY: THE STUDY OF CHILDREN'S PICTUREBOOKS 3 Credit Hours
(Slashed with LIS 80627) This course engages students in the study and application of art and story in children’s picturebooks through the lenses of book history, publishing studies, children’s book illustration and storytelling, visual literacy and visual storytelling. Picture book readers are also studied, from professional readers, like librarians and book reviewers, to picturebook consumers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60629 ENGAGING SCHOOL-AGE CHILDREN 3 Credit Hours
Selection and utilization of materials in relation to needs, abilities and interests of school age children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60630 REFERENCE SOURCES AND SERVICES FOR YOUTH 3 Credit Hours
Organization and administration of information sources and information services for children and young adults (K-12). Evaluation selection and utilization of print and electronic sources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60631 INTRODUCTION TO DIGITAL PRESERVATION 3 Credit Hours
(Slashed with LIS 80631) Approaches and standards for preserving and maintaining access to digitized and born-digital text, images, data, audiovisual information, and web resources. Topics include longevity of digital media, selection for preservation; formats and strategies for preservation; preservation metadata; integrity and authenticity of digital materials; establishment and certification of trustworthy digital repositories; risk management; and policy development.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60633 DIGITAL CURATION 3 Credit Hours
(Slashed with LIS 80633) Management and preservation of digital objects and records throughout their lifecycle. Essential technologies and standards for building and maintaining robust, trusted digital repositories. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60635 CULTURAL HERITAGE INFORMATICS 3 Credit Hours
(Slashed with LIS 80635) Cultural heritage informatics brings a comprehensive, cross-disciplinary approach to supporting the entire lifecycle of cultural heritage information and documentation procedures for the benefit of the preservation, study, and promotion of cultural heritage. The course covers methods of creating descriptions for cultural objects, as well as organizing, delivering, and presenting the cultural heritage (tangible, intangible, and digital) resources in the digital age. The course aims to prepare students for careers focusing on or transcending libraries, archives, museums (LAMs), historical societies, and other cultural institutions by introducing them the methodologies and technologies commonly used in cultural heritage informatics and can be broadly implemented in LAMs.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60636 KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES 3 Credit Hours
(Slashed with LIS 80636) Introduction to various types of knowledge organization structures, services, and systems (KOS) used in the networked environment. Understanding of the functional philosophical, logical and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the taxonomy, thesaurus and ontology construction. Analysis and evaluation of KOS. Issues related to online display, visualization, interoperability and internationalization.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60637 METADATA ARCHITECTURE AND IMPLEMENTATION 3 Credit Hours
(Slashed with LIS 80637) Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60649 INDEXING AND ABSTRACTING 3 Credit Hours
(Slashed with LIS 80649) Principles and methods of manual and computerized indexing and abstracting applied to I & A databases, back of book indexes website indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats and subjects. Automation and I & A services in networked environments.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60650 INFORMATION POLICY 3 Credit Hours
Political, economic, cultural and legal issues regarding the production, distribution and use of information (print, electronic and Web). Policy-making process, standards and protocols, intellectual property, information economy, impact of computers on access and policy, privacy rights, transnational flow of information and the Internet and the World Wide Web.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60651 DIGITAL IMAGE PROCESSING AND COLLECTION MANAGEMENT 3 Credit Hours
This course is designed to introduce students to the fundamental concepts, terminology, techniques and applications of digital imaging as they relate to the development of digital image collections depicting works found in museum collections, archives and special collections in libraries. The students will acquire knowledge and skills necessary to design, create, and manage digital images of text, graphics, slides and reproductions of 3-D objects. They will also be introduced to the principles and issues that pertain to the creation and distribution of digital image archives via image databases and the Web environment.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60652 FOUNDATIONS OF RECORDKEEPING IN SOCIETY 3 Credit Hours
An introduction to the core principles and practices of recordkeeping and the multiple and complex roles records and archives play in identity, evidence, transparency, memory, accountability, equity, representation and trust in society. This course covers historical and contemporary recordkeeping contexts related to individuals, family, community, organization, corporate, academia and government, as well as traditional, nontextual and digital formats of records and archives.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60654 PRESERVATION AND CONSERVATION OF HERITAGE MATERIALS 3 Credit Hours
Types and causes of deterioration of various kinds of library, archival, and museum collections; storage and preventive care, preservation through photographic reproduction and digital conversion, and conservation of rare materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60655 COPYRIGHT: UNDERSTANDING USER RIGHTS AND RESPONSIBILITIES 3 Credit Hours
Exploration of advanced copyright topics such as mass digitization, creative arts and other issues in fair use, library, archive and educational uses including the TEACH Act, digital first sale rights, Digital Millennium Copyright Act, and an introduction to copyright reform.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60657 THEORY AND METHODS OF ARCHIVAL ACQUISITION, SELECTION AND APPRAISAL 3 Credit Hours
(Slashed with LIS 80657) This course provides a comprehensive introduction to the theory, methods and traditions employed by records professionals to form and shape archives as societal memory. This course focusses primarily on acquisition, selection, documentation and appraisal theory and methods. Students will also examine contemporary records frameworks and approaches and issues faced by archivists, special collections librarians and manuscript curators employed to identify, evaluate, acquire and dispose of records.
Prerequisite: LIS 60652; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60658 THEORY AND PRACTICE OF ARCHIVAL DESCRIPTION 3 Credit Hours
This course will introduce students to the theory and practice of archival description, including 1) principles of provenance and original order, 2) hierarchical arrangement and description; 3) standards central to archival description including Describing Archives: A Content Standard (DACS), Machine Readable Cataloging (MARC), and Encoded Archival Description (EAD); 4) archival authority work, including Encoded Archival Context (EAC); and 5) subject access for archival materials. Other related topics to be addressed include approaches to description of born-digital archival records, management of description programs, design of information systems for archival description, project management and cost analyses, and community-driven archival description such as tagging and reparative description.
Prerequisite: LIS 60020; and graduate standing.
Pre/corequisite: LIS 60652.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60659 INTRODUCTION TO AUDIOVISUAL ARCHIVING 1 Credit Hour
Introduction to the issues and challenges of preserving and providing access to archival moving image and sound material. Topics include basics of media care and handling; methods and approaches to preservation and digitization; and appraisal, description and access methods.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60665 RARE BOOKS AND SPECIAL COLLECTIONS 3 Credit Hours
Study of the theory and practice of rare books and special collections librarianship. Topics to be addressed include identification and description of collections, history of the book, valuation, collection development, preservation, security, access and discovery, promotion and outreach, and administration of collections and resources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60668 INTERNATIONAL LIBRARIANSHIP AND INFORMATION SERVICES 3 Credit Hours
Main theoretical traditions, concepts, and in-depth understanding of international librarianship (library communication on international issues) and comparative librarianship (comparative study of information services in specific contexts) through the study of international cooperation, influences, development aid, international organizations and associations, differences, major issues facing library and information services within their socio-economic, political, and cultural contexts, and innovations to solve these issues across the world.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60669 INFORMATION SERVICES FOR DIVERSE POPULATIONS 3 Credit Hours
Explores services for diverse populations to ensure equity of access to information in a range of LIS institutional settings. Special interests or needs include sensory or mobility-impairment; learning disabilities; illiteracy; incarceration and institutionalization; demographic factors (age, race, ethnicity, socio-economic status, sexual orientation, gender identity); non-native English speakers; and homeless persons. Covers Federal regulations, materials, spaces, programs and services, professional attitudes, techniques, and technology issues.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60671 INTRODUCTION TO CATALOGING PRINCIPLES AND PRACTICES IN MEDICAL LIBRARIES 1 Credit Hour
This course is designed to provide students with cataloging knowledge in the area of medical librarianship. Students will learn how to apply subject analysis principles to evaluate medical resources and assign medical subject headings. This course is one course in a three, one-credit hour sequence of medical librarianship courses.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60672 REFERENCE SOURCES AND SERVICES IN MEDICAL LIBRARIES 1 Credit Hour
This course is intended to introduce specialized reference services and sources found in medical library settings.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60673 MEDICAL LIBRARY MANAGEMENT AND CULTURE 1 Credit Hour
This course introduces the environment and context of a medical library to students. The course starts with the context of the medical environment and moves to medical libraries, medical librarianship and related management issues specific to medical library environments. The course reviews typical work scenarios and requests for medical librarians.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60675 YOUTH MEDIA CULTURES 3 Credit Hours
Emerging and evolving digital formats extend book-related content for young people aged 0-18 across media platforms and provide young audiences with interactive ways of engaging with stories. However, the proliferation of new media formats and related social media platforms means there are just as many questions related to their selection, evaluation and use. This course aims to answer those questions and to critically examine digital formats and related implications for stakeholders -- including librarians, publishers, authors, illustrators and consumers -- in the field of content produced for young people, from apps to books to video games.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60676 TEACHING STRATEGIES AND METHODS IN SCHOOL LIBRARIES 3 Credit Hours
Principles of teaching students including curriculum, planning instruction, assessment, fundamentals of evaluation, and reflective practice. All course content focuses on preparing teachers to instruct in the school library media center and obtain a multiage licensure in K-12 School Library Media. This course will include 65 hours of supervised experiential learning that are integrated with academic instruction and related to the student's occupational goal as a school librarian. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60677 SEXUAL AND GENDER IDENTITY IN CHILDREN'S AND TEEN LITERATURE 1 Credit Hour
This course focuses on both theoretical and practical aspects of providing and managing LGBTQAI+ literature and services to youth in the context of public and school libraries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60678 ENGAGING CHILDREN AND TEENS WITH LATINE LITERATURE 1 Credit Hour
This course is intended to introduce literature written by Latine authors and for Latine youth to be selected for use by informational professionals in information institutions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60691 SEMINAR IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 80691) Advanced research by small groups of students who are qualified to examine problems of certain special areas in information studies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

LIS 60692 INTERNSHIP IN INFORMATION AND CULTURAL HERITAGE INSTITUTIONS 2-3 Credit Hours
(Repeatable for credit) Supervised experience of a professional nature of not less than 100 clock hours for 2 credit hours or not less than 150 clock hours for 3 credit hours in an information or cultural heritage institution. Deliverables determined with instructor of record. Maximum registration of 2-3 credit hours per semester. No more than a total of 6 credit hours of Internship or Individual Investigation or any combination of the two may count toward MLIS degree requirements.
Prerequisite: LIS 60040; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 60700 FOUNDATIONS OF MUSEUM STUDIES 3 Credit Hours
Intended for those interested in learning more about museums or specializing in museum studies. The goal is to introduce students to various aspects of all types of museums as dynamic networked systems positioned around objects, people and ideas. Covers history and types of museums, the roles of objects and ideas, structure, function, museum workers and users, and the purpose and future of museums.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60701 MUSEUM COLLECTIONS 3 Credit Hours
This course introduces students to the organization, care and meaning of objects held in museum collections. Through both theoretical and practical concepts, basic collection management and registration skills are introduced. In conjunction, students explore the meanings made of museum objects.
Prerequisite: LIS 60700; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60702 MUSEUM COMMUNICATION 3 Credit Hours
Museums communicate to the public in a multitude of ways: interpretation, exhibition, publication, educational programming and using a web presence. This course introduces important concepts, theories, applications, processes and technology used in museum interpretation and communication. Students are provided with a balance of practical techniques with thoughtful conceptual exploration.
Prerequisite: Graduate standing.
Pre/corequisite: LIS 60700.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60703 MUSEUM USERS 3 Credit Hours
Families, individuals and students visit museums and community institutions for a variety of purposes including leisure, education and curiosity. This course introduces students to the research and theory on museum user experience using a contextual approach to understanding museum users via the personal, socio-cultural and physical. This inquiry will involve examining notions of learning, engagement, and transformative experiences of users, characteristics of users, and the social dynamics of the museum experience. In addition, this course will review several programmatic techniques and methods used in museums to increase engagement and learning for visitors and take the student through all aspects of a museum visit, from beginning to end.
Prerequisite: Graduate standing.
Pre/corequisite: LIS 60700.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60792 CULMINATING EXPERIENCE PRACTICUM IN K-12 LIBRARIES 3 Credit Hours
Under the advisement of a faculty member, students complete a professional-level practicum that serves as a culminating experience for the M.L.I.S. degree.
Prerequisite: LIS 60607 or LIS 60040; and LIS 60624 or LIS 60020; and LIS 60617 and LIS 60626 and LIS 60629 and LIS 60630; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

LIS 60892 CULMINATING EXPERIENCE FOR DUAL DEGREE 6 Credit Hours
Culminating experience for students pursuing dual degree in M.Ed. and M.L.I.S. and K-12 School Library Media licensure. Must be in a supervised educational library or information center.
Prerequisite: ADED 62145 and CI 67310 and CI 67330 and EPSY 65524 and LIS 60030 and LIS 60050 and LIS 60617 and LIS 60630 and SPED 53050; and LIS 60607 or LIS 60040; and LIS 60020 or LIS 60624; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 61095 SPECIAL TOPICS IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 81095) Offered irregularly as resources and/or opportunities permit. Topics could include current or emerging issues in information studies. Specific topics are announced in the schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 61096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for master's level graduate students. Deliverables determined with instructor of record. Maximum registration of 1-3 credit hours per semester. Students may count a maximum of 6 credit hours of individual investigation toward their MLIS degree requirements. No more than a total of 6 credit hours of Internship or Individual Investigation or any combination of the two may count toward MLIS degree requirements.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

LIS 80603 SUBJECT ANALYSIS, REPRESENTATION AND ACCESS 3 Credit Hours
(Slashed with LIS 60603) The course focuses on the theories, principles, and practices of subject analysis of the intellectual content of information resources and its representation through controlled vocabularies and classification. It covers fundamental concepts of aboutness, vocabulary control, classification theory, ethical considerations, and the theoretical foundations, structure, and the application of major subject vocabularies (such as LCSH), classification schemes (such as Dewey), and other knowledge organization systems, including genre/form and named entity management. The course also includes examinations of authority control for subject headings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80613 INFORMATION NEEDS, SEEKING AND USE 3 Credit Hours
(Slashed with LIS 60613) Surveys theories and research related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources, communication and collaboration in the information search process, information use, and other interactions among people, information, and information systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80627 ART AND STORY: THE STUDY OF CHILDREN'S PICTUREBOOKS 3 Credit Hours
(Slashed with LIS 60627) This course engages students in the study and application of art and story in children's picturebooks through the lenses of book history, publishing studies, children's book illustration, and storytelling, visual literacy and visual storytelling. Picture book readers are also studied, from professional readers, like librarians and book reviewers, to picturebook consumers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80631 INTRODUCTION TO DIGITAL PRESERVATION 3 Credit Hours
(Slashed with LIS 60631) Approaches and standards for preserving and maintaining access to digitized and born-digital text, images, data, audiovisual information, and web resources. Topics include longevity of digital media, selection for preservation; formats and strategies for preservation; preservation metadata; integrity and authenticity of digital materials; establishment and certification of trustworthy digital repositories; risk management; and policy development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80633 DIGITAL CURATION 3 Credit Hours
(Slashed with LIS 60633) Management and preservation of digital objects and records throughout their lifecycle. Essential technologies and standards for building and maintaining robust, trusted digital repositories. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80635 CULTURAL HERITAGE INFORMATICS 3 Credit Hours
(Slashed with LIS 60635) Cultural heritage informatics brings a comprehensive, cross-disciplinary approach to supporting the entire lifecycle of cultural heritage information and documentation procedures for the benefit of the preservation, study, and promotion of cultural heritage. The course covers methods of creating descriptions for cultural objects, as well as organizing, delivering, and presenting the cultural heritage (tangible, intangible, and digital) resources in the digital age. The course aims to prepare students for careers focusing on or transcending libraries, archives, museums (LAMs), historical societies, and other cultural institutions by introducing them to the methodologies and technologies commonly used in cultural heritage informatics and can be broadly implemented in LAMs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80636 KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES 3 Credit Hours
(Slashed with LIS 60636) Introduction to various types of knowledge organization structures, services and systems (KOS) used in the networked environment. Understanding of the functional philosophical, logical and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the taxonomy, thesaurus and ontology construction. Analysis and evaluation of KOS. Issues related to online display, visualization, interoperability and internationalization.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80637 METADATA ARCHITECTURE AND IMPLEMENTATION 3 Credit Hours
(Slashed with LIS 60637) Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80649 INDEXING AND ABSTRACTING 3 Credit Hours
(Slashed with LIS 60649) Principles and methods of manual and computerized indexing and abstracting applied to I&A databases, back-of-book indexes, Web site indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats and subjects. Automation and I&A services in networked environments.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80652 FOUNDATIONS OF RECORDKEEPING IN SOCIETY 3 Credit Hours
(Slashed with LIS 60652) An introduction to the core principles and practices of recordkeeping and the multiple and complex roles records and archives play in identity, evidence, transparency, memory, accountability, equity, representation and trust in society. This course covers historical and contemporary recordkeeping contexts related to individuals, family, community, organization, corporate, academia and government, as well as traditional, nontextual and digital formats of records and archives.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80657 THEORY AND METHODS OF ARCHIVAL ACQUISITION, SELECTION AND APPRAISAL 3 Credit Hours
(Slashed with LIS 60657) This course provides a comprehensive introduction to the theory, methods and traditions employed by records professionals to form and shape archives as societal memory. This course focuses primarily on acquisition, selection, documentation and appraisal theory and methods. Students will also examine contemporary records frameworks and approaches and issues faced by archivists, special collections librarians and manuscript curators employed to identify, evaluate, acquire and dispose of records.
Prerequisite: LIS 80652; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80668 INTERNATIONAL LIBRARIANSHIP AND INFORMATION SERVICES 3 Credit Hours
(Slashed with LIS 60668) Main theoretical traditions, concepts, and in-depth understanding of international librarianship (library communication on international issues) and comparative librarianship (comparative study of information services in specific contexts) through the study of international cooperation, influences, development aid, international organizations and associations, differences, major issues facing library and information services within their socio-economic, political, and cultural contexts, and innovations to solve these issues across the world.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80691 SEMINAR IN INFORMATION STUDIES 1-3 Credit Hours
(Slashed with LIS 60691) Advanced research by small groups of students who are qualified to examine problems of certain special areas in information studies.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 81095 SPECIAL TOPICS IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 61095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in information studies. Specific topics are announced in the schedule of classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 81096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for doctoral level students. Deliverables determined with instructor of record.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

Long-Term Care Administration (LTCA)

LTCA 43092 INTERNSHIP IN NURSING HOME ADMINISTRATION/ HEALTH SERVICES EXECUTIVE (ELR) 9 Credit Hours
Internship in skilled nursing facility. One, 3 hour, on-campus seminar every three weeks (meets four times). Approximately 35-40 clock hours per week at internship site is required. Students participate in weekly online course discussions and have an on-site visit to their internship site during the semester.
Prerequisite: Minimum B grade in LTCA 44032; and human development and family studies majors or long-term care administration majors; and senior standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 33.33 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

LTCA 43192 INTERNSHIP IN NURSING HOME ADMINISTRATION/ HEALTH SERVICES EXECUTIVE (ELR) 9 Credit Hours
Internship in skilled nursing facility. One 3-hour, on-campus seminar every three weeks (meets four times). Approximately 35 clock hours per week at internship site is required. Students participate in weekly online course discussions and have an on-site visit to their internship site during the semester.
Prerequisite: Minimum B grade in LTCA 43092; and human development and family studies major or long-term care administration; and senior standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 33.33 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

LTCA 44032 LONG-TERM CARE ADMINISTRATION I 3 Credit Hours
(Slashed with LTCA 54032) Presents an overview and introduction to the principles of long-term care administration and other administration options.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LTCA 44033 LONG-TERM CARE ADMINISTRATION II 3 Credit Hours
(Slashed with LTCA 54033) Presents a focus on Assisted Living (AL) and Home and Community Based Services (HCBS) and Supports in long term care to align with accreditation standards for Nursing Home Administration-Health Services Executive (NHA-HSE).
Prerequisite: Minimum B- in LTCA 44032; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LTCA 54032 LONG-TERM CARE ADMINISTRATION I 3 Credit Hours
(Slashed with LTCA 44032) Presents an overview and introduction to the principles of long-term care (LTC) administration and other administration options.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LTCA 54033 LONG-TERM CARE ADMINISTRATION II 3 Credit Hours
(Slashed with LTCA 44033) Presents a focus on Assisted Living (AL) and Home and Community Based Services (HCBS) and Supports in long term care to align with accreditation standards for Nursing Home Administration-Health Services Executive (NHA-HSE).
Prerequisite: Minimum B grade in LTCA 54032; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LTCA 63092 INTERNSHIP IN NURSING HOME ADMINISTRATOR/ HEALTH SERVICES EXECUTIVE I 6 Credit Hours
Internship in skilled nursing facility and other lines of service. Seminar meetings during the semester. Weekly online discussions. Assignments and projects throughout the semester. Minimum 35 clock hours per week at internship site is required.
Prerequisite: Minimum B- grade in LTCA 54032; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 33.33 other
Grade Mode: Standard Letter

LTCA 63192 INTERNSHIP IN NURSING HOME ADMINISTRATOR/ HEALTH SERVICES EXECUTIVE II 6 Credit Hours
Internship in skilled nursing facility and other lines of service. Seminar meetings during the semester. Weekly online discussions. Assignments and projects throughout the semester. Minimum 35 clock hours per week at internship site is required.
Prerequisite: A minimum B grade in both LTCA 54032 and LTCA 63092; and graduate standing; and special approval.
Schedule Type: Practical Experience, Seminar
Contact Hours: 2 lecture, 33.33 other
Grade Mode: Standard Letter

Management (MGMT)

MGMT 24163 PRINCIPLES OF MANAGEMENT 3 Credit Hours
(Equivalent to BMRT 11009) Introductory course in management and organizational design. The leading contributions in the area are reviewed and practical implications are developed. The course covers the principles that most management professors have come to expect in an introductory course: planning, organizing, leading, and controlling. In addition, the students need to be aware of critical issues managers must be aware of to succeed: diversity, globalization, ethics, technology, sustainability among them. The course serves as an introduction to many upper level business courses.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

MGMT 34157 INTRODUCTION TO THE U.S. HEALTHCARE SYSTEM 3 Credit Hours
Provides an overview of the management, economic and policy issues facing the healthcare, pharmaceutical, biotechnology and medical device industries. The course perspective is global, with emphasis on the U.S. as the largest and most profitable market.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34158 HEALTHCARE TECHNOLOGY MANAGEMENT 3 Credit Hours
Introduce the main components of health care information technology, with emphasis on the components that distinguish the health care delivery system from other business enterprises. Prepares students as clinical managers and consultants who must rely upon or manage information technology to accomplish their objectives.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34159 MANAGING HEALTHCARE ORGANIZATIONS 3 Credit Hours
Operational process management, cost-control and productivity is critical to cost-effective healthcare. Covers topics in improving operations such as patient flow, quality (concepts and mechanics) and process improvement. Students become familiar with methods and resources for implementing change in a health care setting, such as a hospital or outpatient clinic. Provides skills to assess current hospital operations and to identify the appropriate tools to address various functional areas, useful for managers, consultants, clinical providers and others. Process improvement methods such as lean thinking, six sigma, statistical tools, flowcharting, queuing models and other tools are covered. Health care settings beyond the hospital, such as outpatient clinics, are included.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34164 ORGANIZATIONAL MENTORING 3 Credit Hours
Course promotes leadership development through the study of leadership principles, styles, and role models. Students will learn through class lecture and discussion as well as hand-on leadership experience in Exploring Business Interactive Business Seminars (i.e., business labs). Students will work with course instructor to develop a personal leadership plan.
Prerequisite: BUS 10123; and minimum 2.000 overall GPA; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MGMT 34165 DYNAMICS OF LEADERSHIP 3 Credit Hours
This course discusses management and leadership concepts and does so by blending theory and practice. The courses uses case studies, practical application approaches, personal assessment and provides opportunities for students to develop individual and group leadership skills. In addition, many organizational behavior concepts are blended throughout the course.
Prerequisite: MGMT 24163 or BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34175 LEARNING TO LEAD 3 Credit Hours
This is a hands-on learning and leadership course. Classroom time occurs over 4 days at a residential camp before the semester begins. Students learn about leadership from professors, experts in the field, and each other through interactive discussions and activities. During the semester students continue their leadership development working with a personal mentor, and practice their skills through community service projects.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34185 ORGANIZATIONAL BEHAVIOR 3 Credit Hours
Determinants of individual and group behavior within work organizations. Topics covered include, motivation, job design, learning, decision making, leadership and group behavior as they relate to performance and other outcomes in work organizations.
Prerequisite: MGMT 24163 or BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34280 ORGANIZATIONAL CHANGE MANAGEMENT 3 Credit Hours
This course focuses on understanding the processes and challenges involved in responsible organizational change management. The course will provide students a blend of both research and best practice professional applications.
Prerequisite: MGMT 24163 or BMRT 11009; and MGMT 34165; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 44009 THE BUSINESS CASE FOR SUSTAINABILITY 3 Credit Hours
(Slashed with MGMT 54009) This course describes major global trends in the environment, society, and technology; and explores how they are transforming business and how they are deeply changing work, careers and our quality of life. We examine global markets and needs, as expressed by the United Nations Sustainable Development Goals (SDGs). Understanding these trends will help you make sense of the world you in which you live and work and provide insight into an array of career and entrepreneurial opportunities.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 44096 INDIVIDUAL INVESTIGATION IN MANAGEMENT 3 Credit Hours
(Repeatable for credit) Presents opportunity to undertake research. Approval of topic and agreement to work with student must be secured from faculty member and the chairperson of the department prior to registration.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

MGMT 44163 GLOBAL BUSINESS MANAGEMENT (WIC) 3 Credit Hours
Provides an overview of contemporary issues and theoretical frameworks in the field of international strategic management using traditional lecture and practical application cases.
Prerequisite: Minimum C grade in ENG 21011, COMM 15000 and MATH 11010; minimum 2.000 overall GPA; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MGMT 44189 INTERNATIONAL MANAGEMENT EXPERIENCE (DIVG) (ELR) 3 Credit Hours
This course focuses on strategy and policy development and execution for gaining and sustaining global competitive advantage. Strategic management of entrepreneurial and well-established firms, and operational and financial structures of international firms and markets are discussed.
Prerequisite: MGMT 24163 with a minimum C grade; and minimum 2.000 overall GPA; and sophomore standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MGMT 44191 SENIOR RESEARCH SEMINAR IN MANAGEMENT 3 Credit Hours
(Repeatable for credit) Combination of individual or group research and class discussion for superior students. Investigations in administration and organization conducted in accordance with scholarly interests of participants.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MGMT 44192 INTERNSHIP IN MANAGEMENT (ELR) 3 Credit Hours
(Repeatable for credit) A supervised field experience requiring a minimum of 145 hours of work at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on the job experiences.
Prerequisite: MGMT 24163 with minimum C grade; and minimum 2.000 overall GPA; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MGMT 44285 STRATEGIC MANAGEMENT 3 Credit Hours
Integration of the functional areas of business in the formulation and implementation of policy. Projects and case analyses of business situations provide students with the opportunity to apply analytical and creative problem solving skills.
Prerequisite: ACCT 23021 and MKTG 25010 and MGMT 24163 and BA 34060 and FIN 26074 and FIN 36053; and minimum 2.000 overall GPA; and major within the Ambassador Crawford College of Business and Entrepreneurship; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 44299 MANAGEMENT CAPSTONE (ELR) (WIC) 3 Credit Hours
Course integrates various management concepts in informing a manager's strategic decision making process. Students use case analyses and class lectures to demonstrate their leadership abilities in different business scenarios.
Prerequisite: ACCT 23021 and FIN 26074 and FIN 36053 and MGMT 24163 and BA 34060 and MKTG 25010; and minimum 2.000 overall GPA; and declared General Business major; and senior standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MGMT 44392 BUSINESS CONSULTING AND PRACTICUM (ELR) 3 Credit Hours
Provides decision-making tools for solving real-world problems by building synergies in prior knowledge to create a synthesis of real life solutions delivery mechanisms underpinning them to pressing problems of the local and international community. The practicum component includes consulting experience with both for profit and not-for-profit business clients.
Prerequisite: MGMT 24163; and minimum 2.000 overall GPA; and senior standing.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MGMT 44395 SPECIAL TOPICS IN MANAGEMENT 3 Credit Hours
(Repeatable for credit) Offered on a semester basis with different management topics and different faculty involved each time the course if offered.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 54009 THE BUSINESS CASE FOR SUSTAINABILITY 3 Credit Hours
(Slashed with MGMT 44009) This course describes major global trends in the environment, society, and technology; and explores how they are transforming business and how they are deeply changing work, careers and our quality of life. We examine global markets and needs, as expressed by the United Nations Sustainable Development Goals (SDGs). Understanding these trends will help you make sense of the world you in which you live and work and provide insight into an array of career and entrepreneurial opportunities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64050 ESSENTIALS OF BUSINESS MANAGEMENT 3 Credit Hours
This is an introductory management course that discusses functional areas of business and their strategic positioning in delivering business solutions.
Prerequisite: Non-ambassador crawford college of business and entrepreneurship majors; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64158 LEADERSHIP 2 Credit Hours
Students develop an understanding of the leadership process. Through critical thinking, class discussions and class activities, they build skills in leading others, leading themselves and teamwork.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MGMT 64160 LEADERSHIP AND ORGANIZATIONAL CHANGE 3 Credit Hours
(Slashed with MGMT 74160) Course provides students in-depth knowledge of leading organization change. Covers analysis of existing conditions, drivers of change and readiness for change along with methods of change and change implementation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

MGMT 64184 INTERNATIONAL BUSINESS 3 Credit Hours
Study of the business firm in a global context. Application of international business theories and practices to international operations of firms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64270 ORGANIZATIONAL ANALYSIS AND DESIGN 3 Credit Hours
(Slashed with MGMT 74270) Course provides students an in-depth examination of the key factors related to the design of organizations and analysis methods. Students will learn about the identification, capturing and assessment of core processes and the organizational structure elements used to design an organization around core processes. Students will learn various methodologies and analytics to analyze organizational effectiveness.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64275 GLOBAL STRATEGIC MANAGEMENT 3 Credit Hours
Global Strategic Management explores the global challenges facing today's manager. The global competition concepts and strategic managerial alternatives within the context of current global dynamics that impact: a) business operations, b) the political, economic and cultural environment, c) centralized versus de-centralized power in managing local, regional and global firms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64399 BUSINESS STRATEGY 3 Credit Hours
Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed; case analysis of actual business situations helps student further develop analytical and communication skills.
Prerequisite: 18 hours of graduate coursework; and admission to MBA or MSA program; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

MGMT 68051 BUSINESS PROFESSIONAL DEVELOPMENT I 1 Credit Hour
Development of professional business skills for the full-time MBA student to use in both the graduate program and career development.
Prerequisite: Admission to MBA program; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MGMT 68052 BUSINESS PROFESSIONAL DEVELOPMENT II 1 Credit Hour
Continuation of development of professional business skills for the full-time MBA student primarily focused on building and strengthening the skills needed by a manager for the workplace.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MGMT 74160 LEADERSHIP AND ORGANIZATIONAL CHANGE 3 Credit Hours
(Slashed with MGMT 64160) Develop understanding of the theories and techniques needed for the successful management of significant organizational change with emphasis on discussion, exercises and case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

MGMT 74185 BUSINESS STRATEGY 3 Credit Hours
Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed case analysis of actual business situations helps student further develop analytical and communication skills.
Prerequisite: Doctoral approval; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 74270 ORGANIZATIONAL ANALYSIS 3 Credit Hours
(Slashed with MGMT 64270) Theoretical basis and research findings are discussed, permitting the student to analyze and understand complex work organizations. Data provided prepares the student to analyze, design and solve organizational problems within the work environment.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

MGMT 84112 RESEARCH METHODOLOGY 3 Credit Hours
The objectives of this course are: to formulate a research problem and develop testable research hypotheses; develop research skills by learning the different research methods and techniques; explain information contained in research statistical outputs such as SAS and SPSS enable students to conduct meaningful and high quality research in their specific field of interest.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84262 THEORY OF THE FIRM 3 Credit Hours
Course focuses on developing a deep understanding of modern strategic theory in relation to other allied fields. Students will review fundamental concepts of strategic thinking and theory development and then move to contemporary theoretical issues including transaction-cost economics, the resource-based view, the emerging theories of real options and of dynamic capabilities, strategic optimization and constraint theory, and dealing with uncertainty through scenario-driven planning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84275 THEORETICAL AND EMPIRICAL GLOBAL STRATEGY 3 Credit Hours
Focuses on review and integration of the several streams of literature dealing with strategy for, and management of, the product-diversified and/or internationally-diversified firm. Also, in order to complement the emphasis of other doctoral offerings on strategy formulation topics, this seminar places a special emphasis on strategy process, organizational structure and administrative mechanisms. In particular, it explores the foundations as well as current research on corporate governance, broadly define. This includes (I) the set of mechanisms available to align the interest of top managers to those of shareowners, as well as (II) the mechanisms available to motivate and control middle managers so that their decisions and behaviors are aligned with intended corporate and/or international strategy and goals.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84277 ORGANIZATIONAL BEHAVIOR AND THEORY 3 Credit Hours
An examination of theory and research on individual and group behavior in organizations. Special attention is given to theories of motivation, job satisfaction, goal setting, task design, feedback systems, group dynamics, power and teams.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84285 TECHNOLOGY AND INNOVATION STRATEGY 3 Credit Hours
Covers topics pertaining to innovation management at micro-level (entrepreneurship, corporate entrepreneurship), meso-level (networks) and macro-level (cross-country and within-country comparisons).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84291 SEMINAR IN MANAGEMENT SYSTEMS 3 Credit Hours
(Repeatable for credit) Intensive investigation of selected topics in organization and strategic management. Student will be expected to undertake research on a topic determined in joint consultation with the instructor.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Marketing (MKTG)

MKTG 25010 PRINCIPLES OF MARKETING 3 Credit Hours
(Equivalent to BMRT 21050) An overview of the processes, activities and problems associated with the conception, planning and execution of the pricing, promotion and distribution of ideas, goods and services to create exchange values in the market.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

MKTG 35030 MARKETING APPLICATIONS 3 Credit Hours
Students learn and apply strategic and financial analysis skills to make real-world marketing decisions. Emphasis on marketing planning and core strategic decisions in marketing, including segmentation, targeting and positioning.
Prerequisite: MKTG 25010 with a minimum C grade; and minimum 2.000 overall GPA; and marketing major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35035 CONSUMER BEHAVIOR 3 Credit Hours
Focus is on the decision-making processes of the individual consumer and the psychological, sociological, cultural and economic factors that influence those choices. Understanding why consumers behave in the way that they do is the heart of the study of consumer behavior and informs the formulation of marketing strategy. Periodically offered as an online course.
Prerequisite: MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35046 PROFESSIONAL SELLING 3 Credit Hours
Introduces students to effective communication, successful selling and persuasion techniques, building customer relationships, ethics, the buying and selling process and developing professional sales calls.
Prerequisite: BMRT 21050 or MKTG 25010 or MKTG 35035.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35050 MARKETING RESEARCH 3 Credit Hours
Learn how to formulate research questions, design a study to identify customer needs, attitudes, beliefs and behaviors utilizing existing and new marketing data and analyze the data and communicate the results.
Prerequisite: MKTG 25010; and MATH 10041 or BA 24056; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35056 SOCIAL MEDIA MARKETING 3 Credit Hours
Explore the various opportunities and risks that social media marketing holds for firms. During the course students will learn about topics such as social media's effect on marketing, creating and managing brand presences on social media, creating and marketing a branded viral video and identifying online influencers.
Prerequisite: MKTG 25010; and minimum GPA 2.000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35061 MARKETING ANALYTICS 3 Credit Hours
This course presents an overview of the process of conducting marketing analytics in a business organization. Broadly, this process encompasses distilling management questions into its causes and consequences, determining data requirements, assembling a data set amenable to analysis, model selection, analysis, and the communication of analytics insights. Consequently, marketing analytics is discussed as a rich, data-driven process to visualize, predict and improve business outcomes, and how to think about analysis and how to communicate its results are emphasized.
Prerequisite: MATH 10041 or BA 24056; and a marketing major or entrepreneurship major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45020 COMPETITIVE MARKET ANALYSIS 3 Credit Hours
Focuses on establishing and maintaining a competitive market position through product and pricing strategies driven by industry and competitive analysis. Students will participate in a marketing simulation where they will make marketing decisions and strive to compete effectively.
Prerequisite: MKTG 25010; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45023 CUSTOMER ANALYSIS 3 Credit Hours
Focuses on the methods marketers use to analyze and understand their customers. Incorporates market segmentation and targeting, understanding consumer and buyer decision-making, and customer relationship management. Students will complete a segmentation plan for a client firm.
Prerequisite: BA 24056 and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45045 ADVERTISING AND PROMOTION MANAGEMENT 3 Credit Hours
Increases students' understanding of advertising concepts as well as structure and functions of different "players" within the industry. Integrates marketing and advertising theory with application in advertising decision-making. Periodically offered as an online course.
Prerequisite: MKTG 25010 or BMRT 21050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45047 ADVANCED PROFESSIONAL SELLING 3 Credit Hours
Builds on the foundation established in Personal Selling and Sales Management (MKTG 45046) by applying sales concepts, participating in live sales calls with Business Partner Company Sales Reps, spending highly focused time in role plays with immediate feedback from the instructors, interacting with guest speakers who are experts in sales, and studying advanced sales and persuasion techniques. Experiential course that requires some flexibility with scheduling for the shadow experiences.
Prerequisite: MKTG 35046 or MKTG 45052 or ENTR 37045; and minimum 2.000 overall GPA.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MKTG 45048 COMPETITIVE SALES SKILLS DEVELOPMENT 1 Credit Hour
(Repeatable for credit) Develops competitive sales skills that will transfer to a professional sales career while learning specific skills to compete in regional, national and international collegiate sales competitions. Experiential course that requires some flexibility with scheduling for the sales competitions and coaching sessions.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MKTG 45049 SALES FORCE LEADERSHIP 3 Credit Hours
Focuses on the strategic areas of contemporary sales force leadership. Emphasis on strategies, leadership skills and management techniques. Provides CRM training and forecasting techniques.
Prerequisite: ENTR 37045 or MKTG 35046.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45051 DIGITAL MARKETING 3 Credit Hours
Understand the important and current applications of digital marketing tools and concepts. This course will cover concepts including customer relationship management, user experience, digital advertising and search engine optimization. We will explore why these are valuable tools and apply them to real-world examples.
Prerequisite: MKTG 25010; and minimum GPA 2.000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45052 SALES AND SALES MANAGEMENT 3 Credit Hours
Focuses on the tactical side of sales management with emphasis on persuasive communication and understanding others' perspectives to reach a "win-win" outcome. Incorporates sales management techniques including effective delegation, team-building and territory management. Students will engage in role playing and simulated selling scenarios.
Prerequisite: MKTG 35046.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45060 INTERNATIONAL MARKETING 3 Credit Hours
(Slashed with MKTG 55060) Examination of international marketing in terms of global markets and trade. Emphasizes differences among markets caused by geography, politics, economics, culture, commercial policy and trade practices.
Prerequisite: BMRT 21050 or MKTG 25010 or MKTG 35035.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45082 SERVICES MARKETING 3 Credit Hours
Provides an integrated understanding of what is required to develop and market a successful service to a chosen target market. Positioning of a service product can be achieved through the "4 Ps" tactics originally used for goods marketing in addition to three new Ps" for services, which include design of the delivery process, recruitment and training of people, and developing appropriate physical evidence. Readings, lectures, tests, and experiential activities are used to develop and assess learning.
Prerequisite: MKTG 25010; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45084 MARKETING POLICIES AND STRATEGIES (ELR) (WIC) 3 Credit Hours
Capstone course for marketing majors. Course deals with marketing policies and strategies with emphasis on managerial decision-making case approach.
Prerequisite: MKTG 35030 with a minimum C grade; and minimum 2.000 overall GPA; and marketing major; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MKTG 45091 MARKETING SEMINAR 1-4 Credit Hours
(Repeatable for credit)Current topics in marketing. Certain sections of this variable topic seminar may require instructor special approval or have further prerequisites. See current schedule of classes.
Prerequisite: MKTG 25010 or BMRT 21050 or MKTG 35035; and minimum 2.000 overall GPA.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MKTG 45095 SPECIAL TOPICS IN MARKETING 1-4 Credit Hours
(Repeatable for credit) Special Topics in Marketing permits the exploration of topics that are not covered, or not covered in as much depth, in scheduled courses. Credit hours depend on the scope of the project. Specific topics may need to request special approval to register for the course. Special approval may include items such as: minimum GPA, course prerequisites and instructor approval. The course schedule will contain the enrollment requirements for a specific special topics course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

MKTG 45096 INDIVIDUAL INVESTIGATION IN MARKETING 1-3 Credit Hours
(Repeatable for credit) Independent investigation of appropriate problem undertaken by a senior marketing major.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter

MKTG 45189 INTERNATIONAL EXPERIENCE IN MARKETING (DIVG) (ELR) 3 Credit Hours
The student will gain firsthand exposure to international businesses and organizations generally relating to business and specifically relating to marketing. The course includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: MKTG 25010; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MKTG 45192 SALES INTERNSHIP (ELR) 3 Credit Hours
Supervised practical experience in sales with a business. An internship application and faculty approval are needed prior to registration for this course.
Prerequisite: MKTG 35046 or MKTG 45052 or ENTR 37045; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MKTG 45292 MARKETING INTERNSHIP (ELR) 3 Credit Hours
Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.
Prerequisite: MKTG 25010 or BMRT 21050 or MKTG 35035; and special approval.
Schedule Type: Individual Investigation, Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MKTG 55060 INTERNATIONAL MARKETING 3 Credit Hours
(Slashed with MKTG 45060) Examination of international marketing in terms of global markets and trade. Emphasizes differences among markets caused by geography, politics, economics, culture, commercial policy and trade practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 65051 MARKETING MANAGEMENT 2 Credit Hours
Analysis of marketing management at a level appropriate to students with limited background in the subject. The course will include lectures, and will integrate a major experiential component (e.g., a marketing simulation, a client-based project, etc.). Services, global marketing, and legal and ethical issues will be integrated across topic areas.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MKTG 65054 INTERNATIONAL MARKETING 3 Credit Hours
Course focuses on the types of marketing decisions facing the international marketing manager or vice president in the multinational firm.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 75050 MODERN ENTREPRENEURIAL MANAGEMENT 3 Credit Hours
Analysis and application of the key elements of both entrepreneurship (new business starts) and entrepreneurship in existing companies.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 85057 RESEARCH DESIGN 3 Credit Hours
Focuses on the construction of a conceptual framework; the design of an experiment sampling plan data collection methods and the application of statistical techniques.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 85060 MARKETING STRATEGY 3 Credit Hours
Examines important topics in marketing management and strategy such as brand equity, competition, channel management, market orientation, product innovation, customer satisfaction and their impact on financial outcomes in the areas of business-to-consumer and business-to-business.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 85063 ANALYTICAL METHODS IN MARKETING RESEARCH 3 Credit Hours
Application of multivariant statistical techniques in marketing research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MKTG 85064 BUYER BEHAVIOR 3 Credit Hours
An analysis of extant and emerging theories, models and concepts of buyer consumer behavior and their development and testing.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MKTG 85066 MARKETING THEORY 3 Credit Hours
The central objective of the course is to develop the doctoral student's background in marketing theory, theory construction and the creation of marketing knowledge.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MKTG 85074 CONSUMER PSYCHOLOGY 3 Credit Hours
Analysis of extant and emerging theories, models and concepts in Consumer Psychology. The course provides coverage of classic and current research related to cognitive and affective processing and their impact on marketing-related outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MKTG 85098 RESEARCH IN MARKETING 3 Credit Hours
(Repeatable for credit) Designed to assist students in developing dissertation topics or to provide an opportunity to study material or topic not covered elsewhere in the program.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

MKTG 85191 SEMINAR IN MARKETING 3 Credit Hours
(Repeatable for credit) Course is designed to provide doctoral students with a broad exposure to a current and substantive topic area in marketing. This course will expose students to classic and new ideas, help them critically analyze these ideas, and provide them with the opportunity to relate these ideas to their own research interests.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Materials Science (MTSC)

MTSC 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a single semester or distributed over two semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MTSC 60299 THESIS II 2 Credit Hours
Thesis students must continually register each semester until all degree requirements are met.
Prerequisite: MTSC 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MTSC 60498 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward meeting degree requirements with department approval. Prerequisite: Graduate standing; and special approval
Schedule Type: Research
Contact Hours: 3-45 other
Grade Mode: Satisfactory/Unsatisfactory

MTSC 62241 STATISTICAL MECHANICS OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 72241) Lectures on order, disorder and phase transitions in soft matter. Materials include magnets, gases, liquids, crystalline and amorphous solids and liquid crystals. Theoretical concepts include order parameters to describe broken symmetry, mean-field theory, Landau theory for uniform and nonuniform systems, elasticity of orientational order and topological defects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 62242 CHARACTERIZATION OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 72242) Course provides students with the fundamentals of the most commonly used techniques for the study and understanding of soft matter at the macroscopic and microscopic level, especially at the nanometer scale. The advancement in basic soft matter research is generally driven by the experimental techniques available and the interdisciplinary knowledge among condensed matter physicists, biologists, synthetic and physical chemists, as well as chemical and polymer engineers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 62245 FUNDAMENTALS OF LIQUID CRYSTAL SCIENCE 4 Credit Hours
(Slashed with MTSC 72245) Basic liquid crystals structures and their main physical properties, such as visco-elastic, electric, magnetic and optical properties, except the nature of their phase transitions. Also discussed are their interactions with surfaces and the structural defects that they can form.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MTSC 62248 LIQUID CRYSTAL OPTICS AND PHOTONICS 4 Credit Hours
(Slashed with MTSC 72248) Optics of cholesterics, liquid crystalline photonic bandgap materials, nonlinear optics of liquid crystals; optomechancial effects in liquid crystal elastomers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MTSC 62249 LABVIEW FOR DATA ACQUISITION AND INSTRUMENT CONTROL 1 Credit Hour
(Slashed with MTSC 72249) Introduction to laboratory data acquisition and instrument control using LabVIEW software.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

MTSC 62335 ADVANCED LIQUID CRYSTALLINE AND POLYMERIC MATERIALS 4 Credit Hours
(Slashed with MTSC 72335) Course introduce students to recent advances in liquid crystals and polymers with emphasis on structure-property relationships, physical and optical properties, and their applications. Liquid crystals and polymers are soft matters of two important disciplines of science and technology. They both have a similar history and are rich in physical and optical properties useful for fundamental and applied research.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 62450 LIQUID CRYSTAL OPTICS I: THEORY 2 Credit Hours
(Slashed with MTSC 72450) Provides an introduction to optical phenomena with an emphasis on liquid crystals, from geometrical optics to Maxwell's equations. Basic principles are used to analyze and solve optics problems arising in liquid crystal engineering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 62452 LIQUID CRYSTAL OPTICS II: OPTICAL SYSTEMS 2 Credit Hours
(Slashed with MTSC 72452) Focuses on the study of practical optical systems with an emphasis on liquid crystals. Students study the principles of optical system design starting with the understanding of basic optical components such as lenses, mirrors, filters and polarizers. Practical concepts and techniques for the implementation of optical instruments and displays are mastered through lectures and lab work.
Prerequisite: MTSC 62450; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 62460 LIQUID CRYSTAL MATERIALS SCIENCE 2 Credit Hours
(Slashed with MTSC 72460) Familiarizes students with the basic, underlying chemical concepts in liquid crystal science. These concepts include molecular structures and properties of liquid crystal molecules, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds including heterocycles and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, and chirality. Other aspects covered in later sections of this course relate to auxiliary and novel materials used in liquid crystal devices such as polymers, carbon nanomaterials, metal and semiconductor nanoparticles and photo-responsive organic materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 62462 LIQUID CRYSTAL SCIENCE: PHYSICAL PROPERTIES 3 Credit Hours
(Slashed with MTSC 72462) Basics of liquid crystal defects and their behavior in magnetic and electric fields.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 62640 LIQUID CRYSTAL, POLYMER AND COLLOID COMPOSITES 4 Credit Hours
(Slashed with MTSC 72640) Interdisciplinary science of systems consisting of liquid crystal, polymer and colloid. Statistical physics of composite systems, mixing free energy, phase separation principle, phase diagrams and phase separation dynamics. States, structures and free energies of liquid crystal, polymer and colloidal systems. Polymer dispersed liquid crystals (PDLC), polymer stabilized liquid crystals (PSCT) and their applications. Laboratory experiments on composite systems and fabrication of PDLC and PSCT light shutters.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 62643 ELECTRO-OPTICS OF LIQUID CRYSTALS: MODELING AND DEVICE DESIGN 3 Credit Hours
(Slashed with MTSC 72643) Apply knowledge of liquid crystals and optics to the design of liquid crystal electro-optical devices. Emphasis is on modeling of devices and the use of that modeling to optimize device characteristics. Several particular device designs are considered to familiarize students with the state of the art in electro-optical applications of liquid crystals and to prepare them to advance the art in future designs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 62647 STRUCTURED FLUIDS 3 Credit Hours
(Slashed with MTSC 72647) The basics of fluids having internal structures, such as long range orientational order and or one and two dimensional positional order. Materials include thermotropic smetic, lamellar lyotropic and columnar liquid crystals, soap films, fluid foams, fluid fibers and Langmuir monolayers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 62650 COMPUTATIONAL MATERIALS SCIENCE 3 Credit Hours
(Slashed with MTSC 72650) Materials modeling at the classical (i.e. non-quantum) level. Monte Carlo methods; molecular dynamics simulation; mesoscale models; numerical methods; case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 62651 NANOBIOTECHNOLOGY 3 Credit Hours
(Slashed with MTSC 72651) Course presents the concepts, principles and the state-of-the-arts of nanotechnologies and their applications in biological and biomedical science and engineering. Focus is on the fundamental physical principles and engineering technologies of device miniaturization and system integration for bioapplications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 63000 PHYSICS OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 73000) Students learn the basics of physics of soft matter, including polymers, liquid crystals, colloids, reduced dimensionality fluids and active matter. Course provides students a coherent and deep understanding of the most important concepts and scientific results of soft matter, such as nano-, and microscopic structures, mechanical, electrical and optical properties.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 63010 LYOTROPIC LIQUID CRYSTALS 3 Credit Hours
(Slashed with MTSC 73010) Course covers the fundamentals and the chemical aspects of different types of lyotropic liquid crystals (organic, inorganic, composites) leading to a discussion of phase diagrams and a comprehensive discussion of the characterization techniques of lyotropic liquid crystals. Focuses on some key aspects related to the use of lyotropic liquid crystals in pharmacological and medical applications such as drug delivery and the use of lyotropic liquid crystals as templates or 'reactors' for nanoscale synthesis and mesoscale manufacturing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 63015 CHEMISTRY OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 73015) Course familiarizes students with the basic underlying chemical concepts in soft matter science, focusing on the most important chemical building blocks in soft matter, IUPAC rules for naming them, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds, including heterocyclic and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, structure-property relationships and all levels of chirality (molecular to supramolecular). Other topics focus on specific types of materials explored in soft matter such as polymers, liquid crystals, carbon nanomaterials, metal and semiconductor nanoparticles and light-responsive organic materials, gels, foams and colloids.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 63020 APPLICATIONS OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 73020) Course covers the applications of soft matter that include electro-optical, sensor and biological applications. Recent developments related to emerging applications are covered.
Prerequisite: MTSC 63000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 63025 ACTIVE MATTER 2 Credit Hours
(Slashed with MTSC 73025) The course is designed to teach the science of active matter which embraces a broad range of dynamic out-of-equilibrium systems comprised of interacting units that are capable of converting stored energy or the energy of the environment into systematic motion. Examples include colloids powered by an electric field, swimming bacteria and living liquid crystals. Theoretical models considered are Vicsek model and Toner-Tu model. The course will provide a coherent picture of the dynamic out-of-equilibrium phenomena.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 63100 EMERGING DISPLAY TECHNOLOGIES 2 Credit Hours
(Slashed with MTSC 73100) This course focuses on the fundamentals and applications of latest display technologies in transmissive, reflective and emissive displays as well as free-space display technologies. This course is aimed for students who wish to learn more, not limited to liquid crystal devices and applications, but also wide ranges of current and future display technologies, and will intergrate among materials science, physics and engineering with display technologies ranging from direct-view, flexible, wearable and free-space displays.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 64491 SEMINAR: LIQUID CRYSTALS 1 Credit Hour
(Repeatable for credit) (Slashed with MTSC 74491) Discussion of current literature or original research in liquid crystals. Participation by students, faculty and guests.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

MTSC 64495 SPECIAL TOPICS IN CHEMICAL PHYSICS 1-3 Credit Hours
(Repeatable for credit)(Slashed with MTSC 74495) Topic varies per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MTSC 65006 LIQUID CRYSTAL DEVICE PROTOTYPING 2 Credit Hours
(Slashed with MTSC 75006) Liquid crystal device prototyping; introduction to liquid crystal device manufacturing methods.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 65008 LIQUID CRYSTAL DEVICE CONSTRUCTION 1 Credit Hour
(Slashed with MTSC 75008) Students acquire the knowledge and experience in basic techniques and procedures for the construction of liquid crystal cells. Students are prepared for successive lab courses and the capstone project based on the clean-room techniques, ITO glass handling, film deposition, surface alignment treatment and cell assembly experienced.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MTSC 65032 SCIENTIFIC COMMUNICATION 1 Credit Hour
(Slashed with MTSC 75032) Course aims to help graduate students in STEM fields improve their skills in scientific writing and presentations. Activities include a mock panel review of scientific proposals. Students produce a final paper that could serve as the introductory chapter of a thesis or dissertation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MTSC 72241 STATISTICAL MECHANICS OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 62241) Lectures on order, disorder and phase transitions in soft matter. Materials include magnets, gases, liquids, crystalline and amorphous solids and liquid crystals. Theoretical concepts include order parameters to describe broken symmetry, mean-field theory, Landau theory for uniform and nonuniform systems, elasticity of orientational order and topological defects.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 72242 CHARACTERIZATION OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 62242) Course provides students with the fundamentals of the most commonly used techniques for the study and understanding of soft matter at the macroscopic and microscopic level, especially at the nanometer scale. The advancement in basic soft matter research is generally driven by the experimental techniques available and the interdisciplinary knowledge among condensed matter physicists, biologists, synthetic and physical chemists, as well as chemical and polymer engineers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 72245 FUNDAMENTALS OF LIQUID CRYSTAL SCIENCE 4 Credit Hours
(Slashed with MTSC 62245) Basic liquid crystals structures and their main physical properties, such as visco-elastic, electric, magnetic and optical properties, except the nature of their phase transitions. Also discussed are their interactions with surfaces and the structural defects that they can form.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MTSC 72248 LIQUID CRYSTAL OPTICS AND PHOTONICS 4 Credit Hours
(Slashed with MTSC 62248) Optics of cholesterics, liquid crystalline photonic bandgap materials, nonlinear optics of liquid crystals; optomechancial effects in liquid crystal elastomers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MTSC 72249 LABVIEW FOR DATA ACQUISITION AND INSTRUMENT CONTROL 1 Credit Hour
(Slashed with MTSC 62249) Introduction to laboratory data acquisition and instrument control using LabVIEW software.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

MTSC 72335 ADVANCED LIQUID CRYSTALLINE AND POLYMERIC MATERIALS 4 Credit Hours
(Slashed with MTSC 62335) Course introduce students to recent advances in liquid crystals and polymers with emphasis on structure-property relationships, physical and optical properties, and their applications. Liquid crystals and polymers are soft matters of two important disciplines of science and technology. They both have a similar history and are rich in physical and optical properties useful for fundamental and applied research.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 72450 LIQUID CRYSTAL OPTICS I: THEORY 2 Credit Hours
(Slashed with MTSC 62450) Provides an introduction to optical phenomena with an emphasis on liquid crystals, from geometrical optics to Maxwell's equations. Basic principles are used to analyze and solve optics problems arising in liquid crystal engineering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 72452 LIQUID CRYSTAL OPTICS II: OPTICAL SYSTEMS 2 Credit Hours
(Slashed with MTSC 62452) Focuses on the study of practical optical systems with an emphasis on liquid crystals. Students study the principles of optical system design starting with the understanding of basic optical components such as lenses, mirrors, filters and polarizers. Practical concepts and techniques for the implementation of optical instruments and displays are mastered through lectures and lab work.
Prerequisite: MTSC 72450; and doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 72460 LIQUID CRYSTAL MATERIALS SCIENCE 2 Credit Hours
(Slashed with MTSC 62460) Familiarizes students with the basic, underlying chemical concepts in liquid crystal science. These concepts include molecular structures and properties of liquid crystal molecules, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds including heterocycles and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, and chirality. Other aspects covered in later sections of this course relate to auxiliary and novel materials used in liquid crystal devices such as polymers, carbon nanomaterials, metal and semiconductor nanoparticles and photo-responsive organic materials.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 72462 LIQUID CRYSTAL SCIENCE: PHYSICAL PROPERTIES 3 Credit Hours
(Slashed with MTSC 62462) Basics of liquid crystal defects and their behavior in magnetic and electric fields.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 72640 LIQUID CRYSTAL, POLYMER AND COLLOID COMPOSITES 4 Credit Hours
(Slashed with MTSC 62640) Interdisciplinary science of systems consisting of liquid crystal, polymer and colloid. Statistical physics of composite systems, mixing free energy, phase separation principle, phase diagrams and phase separation dynamics. States, structures and free energies of liquid crystal, polymer and colloidal systems. Polymer dispersed liquid crystals (PDLC), polymer stabilized liquid crystals (PSLC) and their applications. Laboratory experiments on composite systems and fabrication of PDLC and PSLC light shutters.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 72643 ELECTRO-OPTICS OF LIQUID CRYSTALS: MODELING AND DEVICE DESIGN 3 Credit Hours
(Slashed with MTSC 62643) Apply knowledge of liquid crystals and optics to the design of liquid crystal electro-optical devices. Emphasis is on modeling of devices and the use of that modeling to optimize device characteristics. Several particular device designs are considered to familiarize students with the state of the art in electro-optical applications of liquid crystals and to prepare them to advance the art in future designs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 72647 STRUCTURED FLUIDS 3 Credit Hours
(Slashed with MTSC 62647) The basics of fluids having internal structures, such as long range orientational order and or one and two dimensional positinal order. Such materials include thermotropic smetic, lamellar lyotropic and columnar liquid crystals, soap films, fluid foams, fluid fibers and Langmuir monolayers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 72650 COMPUTATIONAL MATERIALS SCIENCE 3 Credit Hours
(Slashed with MTSC 62650) Materials modeling at the classical (i.e. non-quantum) level. Monte Carlo methods; molecular dynamics simulation; mesoscale models; numerical methods; case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 72651 NANOBIOTECHNOLOGY 3 Credit Hours
(Slashed with MTSC 62651) Course presents the concepts, principles and the state-of-the-arts of nanotechnologies and their applications in biological and biomedical science and engineering. Focus is on the fundamental physical principles and engineering technologies of device miniaturization and system integration for bioapplications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 73000 PHYSICS OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 63000) Students learn the basics of physics of soft matter, including polymers, liquid crystals, colloids, reduced dimensionality fluids and active matter. Course provides students a coherent and deep understanding of the most important concepts and scientific results of soft matter, such as nano-, and microscopic structures, mechanical, electrical and optical properties.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 73010 LYOTROPIC LIQUID CRYSTALS 3 Credit Hours
(Slashed with MTSC 63010) Course covers the fundamentals and the chemical aspects of different types of lyotropic liquid crystals (organic, inorganic, composites) leading to a discussion of phase diagrams and a comprehensive discussion of the characterization techniques of lyotropic liquid crystals. Focuses on some key aspects related to the use of lyotropic liquid crystals in pharmacological and medical applications such as drug delivery and the use of lyotropic liquid crystals as templates or 'reactors' for nanoscale synthesis and mesoscale manufacturing.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 73015 CHEMISTRY OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 63015) Course familiarizes students with the basic underlying chemical concepts in soft matter science, focusing on the most important chemical building blocks in soft matter, IUPAC rules for naming them, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds, including heterocyclic and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, structure-property relationships and all levels of chirality (molecular to supramolecular). Other topics focus on specific types of materials explored in soft matter such as polymers, liquid crystals, carbon nanomaterials, metal and semiconductor nanoparticles and light-responsive organic materials, gels, foams and colloids.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 73020 APPLICATIONS OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 63020) Course covers the applications of soft matter that include electro-optical, sensor and biological applications. Recent developments related to emerging applications are covered.
Prerequisite: MTSC 73000; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 73025 ACTIVE MATTER 2 Credit Hours
(Slashed with MTSC 63025) The course is designed to teach the science of active matter which embraces a broad range of dynamic out-of-equilibrium systems comprised of interacting units that are capable of converting stored energy or the energy of the environment into systematic motion. Examples include colloids powered by an electric field, swimming bacteria and living liquid crystals. Theoretical models considered are Vicsek model and Toner-Tu model. The course will provide a coherent picture of the dynamic out-of-equilibrium phenomena.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 73100 EMERGING DISPLAY TECHNOLOGIES 2 Credit Hours
(Slashed with MTSC 63100)This course focuses on the fundamentals and applications of latest display technologies in transmissive, reflective and emissive displays as well as free-space display technologies. This course is aimed for students who wish to learn more, not limited to liquid crystal devices and applications, but also wide ranges of current and future display technologies, and will intergrate among materials science, physics and engineering with display technologies ranging from direct-view, flexible, wearable and free-space displays.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 74491 SEMINAR: LIQUID CRYSTALS 1 Credit Hour
(Repeatable for credit) (Slashed with MTSC 64491) Discussion of current literature or original research in liquid crystals. Participation by students, faculty and guests.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

MTSC 74495 SPECIAL TOPICS IN CHEMICAL PHYSICS 1-3 Credit Hours
(Repeatable for credit)(Slashed with MTSC 64495) Topic varies per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MTSC 75006 LIQUID CRYSTAL DEVICE PROTOTYPING 2 Credit Hours
(Slashed with MTSC 65006) Liquid crystal device prototyping; introduction to liquid crystal device manufacturing methods.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 75008 LIQUID CRYSTAL DEVICE CONSTRUCTION 1 Credit Hour
(Slashed with MTSC 65008) Students acquire the knowledge and experience in basic techniques and procedures for the construction of liquid crystal cells. Students are prepared for successive lab courses and the capstone project based on the clean-room techniques, ITO glass handling, film deposition, surface alignment treatment and cell assembly experienced.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MTSC 75032 SCIENTIFIC COMMUNICATION 1 Credit Hour
(Slashed with MTSC 65032) Course aims to help graduate students in STEM fields improve their skills in scientific writing and presentations. Activities include a mock panel review of scientific proposals. Students produce a final paper that could serve as the introductory chapter of a thesis or dissertation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MTSC 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun, and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MTSC 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: MTSC 80199 and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MTSC 80498 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral student who has not yet passed candidacy exam. Credit earned may be applied toward degree.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3-45 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Mathematics (MATH)

MATH 00020 PRE-ALGEBRA 2 Credit Hours
Course covers properties of whole numbers, fractions, decimals, percents, signed numbers and order of operations. Mental math and elementary algebraic thinking skills are emphasized. Use of calculators is not allowed. Course does not count toward graduation.
Prerequisite: 0-9 ALEKS math score.
Schedule Type: Emporium
Contact Hours: 2 other
Grade Mode: Standard Letter

MATH 00021 BASIC ALGEBRA I 2 Credit Hours
Course includes operations on integers, fractions, decimals and percents, and properties of real numbers. Introduction to variables, first degree equations and problem-solving with formulas. Equations and inequalities in one variable, linear equations, rate of change and slope, graphing in the cartesian plane. Course does not count toward graduation.
Prerequisite: Minimum 10 ALEKS math score.
Pre/corequisite: MATH 00020 with a minimum C grade.
Schedule Type: Emporium
Contact Hours: 2 other
Grade Mode: Standard Letter

MATH 00022 BASIC ALGEBRA II 2 Credit Hours
Introduction to functions, systems of linear equations, exponents, polynomial operations, scientific notation. Factoring polynomials, solving quadratics by factoring, radicals and rational exponents. Course does not count toward graduation.
Prerequisite: Minimum 25 ALEKS math score; or MATH 00021 with a minimum C grade.
Schedule Type: Emporium
Contact Hours: 2 other
Grade Mode: Standard Letter

MATH 00095 SPECIAL TOPICS IN MATHEMATICS 1-4 Credit Hours
(Repeatable for credit) Topics in mathematics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled. Course does not count toward graduation.
Prerequisite: None.
Schedule Type: Emporium
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MATH 10038 STATISTICAL THINKING 2 Credit Hours
This course is the first of a two-part sequence and provides a pathway for successful completion of MATH 10041 during the subsequent semester. Topics include graphical displays of data, measures of center and variation, linear regression and basic probability. In the context of these statistical concepts, students review basic arithmetic and algebra skills needed to succeed in MATH 10041, including computations and applications of percents and decimals, fractions, proportions, linear equations, areas of geometric figures, slope and intercepts. The development of study strategies, problem-solving skills and reading skills are interwoven throughout the semester. This course is different than basic algebra courses and MATH 10041 because it develops students' fluency within the context of statistical situations and does not cover all topics required in the TMM-011, nor does it cover them in depth. Emphasis is on skill development and foreshadowing statistical concepts through intuitive and informal development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MATH 10040 INTRODUCTORY STATISTICS PLUS (KMCR) 5 Credit Hours
(Equivalent to MATH 10041) An introduction to statistical thinking and statistical methods with a review of basic algebra. Emphasis is on statistical literacy, conceptual understanding and active learning in the classroom. This course also provides just-in-time remediation to help students achieve the same learning outcomes as MATH 10041. No credit earned for this course if a student already earned credit for MATH 10041. Students who do not meet the prerequisites but do have a minimum of 3.0 high school GPA should contact the department for approval to register.
Prerequisite: ALEKS Math score between 25 and 34; or MATH 00021 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, TAG Mathematics, Transfer Module Mathematics

MATH 10041 INTRODUCTORY STATISTICS (KMCR) 4 Credit Hours
(Equivalent to MATH 10040) An introduction to statistical thinking and statistical methods. Emphasis is on statistical literacy, conceptual understanding and active learning in the classroom. No credit earned for this course if a student already earned credit for MATH 10040. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade; or any higher level MATH course.
Schedule Type: Emporium
Contact Hours: 4 other
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 10050 QUANTITATIVE REASONING PLUS (KMCR) 5 Credit Hours
(Equivalent to MATH 10051) In the broadest sense mathematics should provide students the needed quantitative tools, logical reasoning and problem-solving skills, and a sense that quantitative modeling can be used to describe and understand developments in many areas of daily living. Since critical thinking is the primary objective and outcome for our course, in each area of concentration (numeracy, mathematical modeling, and probability and statistics) students will need to read and glean information from the problem situation, convert the information into a usable form, perform any needed routine calculations, make or draw a conclusion, and then communicate the result via explanation using quantitative reasoning by writing coherent statements and paragraphs. This course also provides just-in-time remediation to help students achieve the same learning outcomes as MATH 10051. Students who do not meet the prerequisites but do have a minimum of 3.0 high school GPA should contact the department for approval to register.
Prerequisite: ALEKS Math score between 25 and 34; or MATH 00021 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, TAG Mathematics, Transfer Module Mathematics

MATH 10051 QUANTITATIVE REASONING (KMCR) 4 Credit Hours
(Equivalent to MATH 10050) In the broadest sense, mathematics should provide students the needed quantitative tools, logical reasoning and problem solving skills, and a sense that quantitative modeling can be used to describe and understand developments in many areas of daily living. Since critical thinking is the primary objective and outcome for this course, in each area of concentration (numeracy, mathematical modeling and probability and statistics), students will read and glean information from the problem situation, convert the information into a usable form, perform any needed routine calculations, make or draw a conclusion, and then communicate the result via explanation using quantitative reasoning by writing coherent statements and paragraphs. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade; or any higher level MATH course.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 10475 ALGEBRAIC THINKING 2 Credit Hours
This course includes development of problem-solving skills, including recognizing quantities in real-world scenarios, noting dependency relationships of these quantities, creating accurate diagrams of the varying quantities in scenarios, precisely describing variables and quantities, identifying domains in context and representing the varying relationship of two quantities on a coordinate plane. Algebra skills reviewed include factoring, solving linear and non-linear equations and simplifying rational expressions and expressions with integer and rational exponents. The modeling component includes recognizing linear vs. exponential change and writing function models for linear and exponential growth and decay.
Prerequisite: MATH 00022 with a minimum C grade; or minimum 22 ACT math score; or minimum 530 SAT math score; or ALEKS math score between 35-44.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MATH 10675 ALGEBRA FOR CALCULUS BOOST (KMCR) 5 Credit Hours
(Equivalent to MATH 10775 or MATH 11010) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. The emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component. A two-week review of intermediate algebra skills is included in the course, as is extra time studying quadratic functions, absolute value functions, systems of equations and extended time on logarithms. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 22 ACT math score; or minimum 530 SAT math score; or ALEKS math score between 35-44; or MATH 00022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 10771 BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR) 5 Credit Hours
(Equivalent to MATH 14001) Course covers the development of the real-number system and its sub-systems, open sentences, numeration systems, modular arithmetic and some number theory concepts. Additional concepts covered include place value, logic, equality, properties of the real numbers, multiple representations of operations with numbers, and problem solving. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

MATH 10772 MODELING ALGEBRA PLUS (KMCR) 5 Credit Hours
(Equivalent to MATH 11009) Study of algebra arising in the context of real-world applications, including linear, polynomial, exponential and logarithmic models. Includes a review of factoring and functions. Course is intended for students not planning to take calculus. No credit earned toward a degree for this course if student already earned credit for MATH 11010. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

MATH 10775 ALGEBRA FOR CALCULUS PLUS (KMCR) 4 Credit Hours
(Equivalent to MATH 10675 or MATH 11010) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. The emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component. Skill review is included in the course, as is time studying quadratic functions, absolute value functions, systems of equations and extended time on logarithms.
Prerequisite: ALEKS math score between 45 and 54; or MATH 10772 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 11008 EXPLORATIONS IN MODERN MATHEMATICS (KMCR) 3 Credit Hours
Topics from various branches of mathematics will be chosen to introduce the student to the wide varieties of ways in which mathematics affects everyday life. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 35 ALEKS math score; or minimum 22 ACT math score; or MATH 00022 or any higher MATH course with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

MATH 11009 MODELING ALGEBRA (KMCR) 4 Credit Hours
(Equivalent to MATH 10772) Study of algebra arising in the context of real-world applications, including linear, polynomial, exponential and logarithmic models. Intended for students not planning to take calculus. No credit earned toward a degree for this course if the student already earned credit for MATH 11010.
Prerequisite: Minimum 45 ALEKS math score.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

MATH 11010 ALGEBRA FOR CALCULUS (KMCR) 3 Credit Hours
(Equivalent to MATH 10675 or MATH 10775) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. Emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component.
Prerequisite: Minimum 55 ALEKS math score; or MATH 10772 or MATH 11009 with a minimum B grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 11012 INTUITIVE CALCULUS (KMCR) 3 Credit Hours
Course is designed to give an overview of differential and integral calculus to business and life-science majors. Course does not include trigonometric functions. No credit earned toward a degree for this course if the student already earned credit for MATH 12002.
Prerequisite: Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 11022 TRIGONOMETRY (KMCR) 3 Credit Hours
Solution of triangles, trigonometric equations and identities.
Prerequisite: Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR) 5 Credit Hours
Concepts of limit, continuity and derivative, and the indefinite and definite integral for functions of one real variable. Maximization, related rates, fundamental theorem of calculus. No credit earned toward a degree for this course if the student already earned credit for MATH 12011 and MATH 12012.
Prerequisite: Minimum 78 ALEKS math score; or MATH 11022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II 5 Credit Hours
Continued study of techniques and applications of integration; trigonometric, logarithmic and exponential functions; polar coordinates; vectors; parametric equations; sequences and series.
Prerequisite: MATH 12002 or MATH 12012 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Transfer Module Mathematics

MATH 12011 CALCULUS WITH PRECALCULUS I (KMCR) 3 Credit Hours
Introduction to differential calculus with a review of algebra and trigonometry. Includes exponents, factoring, functions, graphs, tangent lines, limits, continuity, derivatives and related rates. No credit earned toward a degree for this course if the student already earned credit for MATH 12002.
Prerequisite: Minimum 67 ALEKS math score.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 12012 CALCULUS WITH PRECALCULUS II (KMCR) 3 Credit Hours
Development of integral calculus and continued study of differential calculus. Includes curve sketching optimization fundamental theorem of calculus areas between curves, exponential and logarithmic functions. No credit earned toward a degree for this course if student already earned credit for MATH 12002.
Prerequisite: MATH 12011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 12013 BRIEF CALCULUS II 3 Credit Hours
This is a condensed version of MATH 12003 to meet the needs of majors that do not require the full force of MATH 12003. The course starts with integration by parts, approximating integrals, and applications of integrals. It follows with a brief introduction to series, parametric equations and polar coordinates, and finishes with vectors and geometry of space. No credit earned toward a degree for this course if student already earned credit for MATH 12003.
Prerequisite: Minimum C grade in MATH 12002 or MATH 12012 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 12021 CALCULUS FOR LIFE SCIENCES 4 Credit Hours
Differential and integral calculus using examples and problems in life sciences.
Prerequisite: Minimum 78 ALEKS math score; or MATH 11022 or MATH 12011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 12022 PROBABILITY AND STATISTICS FOR LIFE SCIENCES 3 Credit Hours
Probability and statistics with applications in medical and biological sciences.
Prerequisite: Minimum C grade in MATH 12002 or MATH 12012 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 14001 BASIC MATHEMATICAL CONCEPTS I (KMCR) 4 Credit Hours
(Equivalent to MATH 10771) Development of the real number system and its sub-systems, open sentences, numeration systems, modular arithmetic and some number theory concepts.
Prerequisite: MATH 10675 or any higher level MATH course (except MATH 11008) with a minimum C grade; or minimum 45 ALEKS math score.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 14002 BASIC MATHEMATICAL CONCEPTS II (KMCR) 4 Credit Hours
Basic concepts of probability, statistics and geometry.
Prerequisite: MATH 10771 or MATH 14001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 19002 TECHNICAL MATHEMATICS II 4 Credit Hours
Emphasizes advanced topics in algebra and trigonometry, analytic geometry, derivatives and integrals.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 19099 FIELD EXPERIENCE IN MATHEMATICS INSTRUCTION (ELR) 1 Credit Hour
(Repeatable for credit) Learning through tutoring. A supervised lab experience in providing explanations of mathematical concepts.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MATH 20011 DECISION-MAKING UNDER UNCERTAINTY 3 Credit Hours
An introductory course on applied statistics. The course provides a hands-on approach to understanding, quantification and decision-making under various forms of uncertainty. The main topics include visualization of uncertainty, probabilistic quantification of uncertainty, Bayesian and non-Bayesian ways of decision-making under uncertainty. Class activities incorporate active learning elements, including in-classroom computation with professional-grade software for statistical analysis and simulation.
Prerequisite: MATH 12002 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 20095 SPECIAL TOPICS IN MATHEMATICS 1-5 Credit Hours
(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

MATH 21001 LINEAR ALGEBRA 3 Credit Hours
Systems of linear equations and the associated matrix operations, linear transformations, vector spaces, bases, eigenvectors.
Prerequisite: Minimum C grade in MATH 11012 or MATH 12002 or MATH 12012 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Mathematics

MATH 21002 APPLIED LINEAR ALGEBRA 3 Credit Hours
This is an introductory course in linear algebra. The goal of the course is to teach the math fundamentals of linear algebra in a way that focuses more on applications. The topics include systems of linear equations, matrix operations, vector spaces, eigenvalues and eigenvectors, singular value decompositions, and their applications.
Prerequisite: Minimum C grades in MATH 12002 or MATH 11012 or MATH 12012 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 21092 COMPUTER PRACTICUM (ELR) 2 Credit Hours
(Repeatable for credit) Supervised work experience in a computer installation.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MATH 22005 ANALYTIC GEOMETRY AND CALCULUS III 4 Credit Hours
Study of functions of several variables, including partial derivatives and multiple integrals.
Prerequisite: MATH 12003 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Mathematics

MATH 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE 3 Credit Hours
(Cross-listed with CS 23022) Discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling. Specific topics include propositional and predicate logic and logical modeling using Boolean algebra and logical gates, information representation using binary system, sets, functions, relations, logical argumentation, proof techniques, recursion and recursive modeling, sequences and summation, arithmetic and geometric progressions, algorithms, iterative vs recursive algorithms, mathematical and structural induction, recursive structures, counting, permutation and combination, binomial expansion, matrices and matrix-operations, graphs and trees and their traversal, probability and Bayes' theorem, finite state machines, their modeling and applications, Regular grammar, basics of number theory, modeling computation and Turing machines, decidability and halting problem.
Prerequisite: Minimum C grade in MATH 11009 or MATH 11010 or MATH 11022, or ALEKS score of 78.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 30011 BASIC PROBABILITY AND STATISTICS 3 Credit Hours
Analysis and representation of data. Controlled experiments and observations. Measurement errors. Correlation and regression. Sampling. Probability models and tests of models. Inference. This course cannot be used to meet the mathematics requirements for a BA in Mathematics or a BS in Applied Mathematics or Mathematics.
Prerequisite: Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010; or any course MATH 11012 to MATH 12022; or any course MATH 20000 to MATH 49999.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 30055 MATHEMATICAL THEORY OF INTEREST 3 Credit Hours
A calculus-based introduction to the mathematics of finance. Limited to deterministic analysis of interest rates annuities bonds and immunization. Emphasizes the mathematical theory of the subject matter.
Prerequisite: MATH 12003 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 31011 PROOFS IN DISCRETE MATHEMATICS 3 Credit Hours
The study of discrete mathematical structures including sets, functions and relations. The course includes an introduction to logical thinking with an emphasis on proof techniques. The course may include topics in number theory, graph theory and combinatoric.
Prerequisite: MATH 12002 with a minimum C grade.
Pre/corequisite: Minimum C grade in the following courses: MATH 21001 or MATH 21002 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 32044 ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours
An introduction to ordinary differential equations and applications. Topics include solution methods, series solutions, singular points, Laplace transforms and linear systems. Applications include population dynamics, forced oscillations and resonance.
Prerequisite: Minimum C grade in the following courses: MATH 12003 or MATH 12013; and MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Mathematics

MATH 32051 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I 4 Credit Hours
Mathematics background beyond calculus I and II for upper-division courses in the physical sciences. Topics include complex numbers and arithmetic, linear algebra, partial differentiation and multiple integrals.
Prerequisite: MATH 12003 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 32052 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II 4 Credit Hours
Additional mathematics background for upper-division courses in the physical sciences. Topics include vector analysis, Fourier series and transforms ordinary differential equations and partial differential equations.
Prerequisite: MATH 32051 with a minimum C grade; or MATH 21001 and MATH 22005 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 34001 FUNDAMENTAL CONCEPTS OF ALGEBRA 3 Credit Hours
Professionalized course in algebra for prospective secondary teachers. Postulational development of number system of algebra; other systems, related topics, applications. This course cannot be used to meet the mathematical requirements for a BA in Mathematics or a BS in either Applied Mathematics or Mathematics. No credit earned toward a degree for this course if a student already earned credit for MATH 41001.
Prerequisite: MATH 12002 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 34002 FUNDAMENTAL CONCEPTS OF GEOMETRY 3 Credit Hours
Professionalized course in geometry for secondary school teachers. Origin and development of the geometry of Euclid with modern refinements, topics, approaches. Other geometries, applications. This cannot be used to meet the mathematics requirement for a BA in Mathematics or a BS in either Applied Mathematics or Mathematics.
Prerequisite: MATH 12002 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 38001 HANDS-ON MATHEMATICS 3 Credit Hours
Students take turns learning a topic and then teach that topic to the class. No text is required; the students use web resources and materials supplied by the instructor. Many of the topics have a hands-on component. Some examples are two- and three-dimensional tiling problems, the Towers of Hanoi and other problems with an inductive solution, and 'magic tricks' with a basis in algebra, parity or modular arithmetic.
Prerequisite: MATH 12003 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40011 PROBABILITY THEORY AND APPLICATIONS 3 Credit Hours
(Slashed with MATH 50011) Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems.
Prerequisite: MATH 22005 or MATH 32051 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40012 THEORY OF STATISTICS (WIC) 3 Credit Hours
(Slashed with MATH 50012) Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods.
Prerequisite: MATH 40011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MATH 40015 APPLIED STATISTICS 3 Credit Hours
(Slashed with MATH 50015) Course is based on classical linear regression techniques with an emphasis on real data using the principles of sound data analysis. Close attention is given to issues of interpretation, diagnostics, outliers and influential points, goodness of fit and model selection. Topics include simple and multiple linear regression, transformation and modifications of covariates and responses, design matrices, variable selection and logistic regression. Students with statistics courses from other disciplines should consult with the Department of Mathematical Sciences for possible prerequisite overrides.
Prerequisite: MATH 21001 or MATH 21002 with a minimum C grade; and MATH 12022 with a minimum B grade or MATH 20011 with a minimum C grade or MATH 30011 with a minimum B grade or MATH 40012 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40024 COMPUTATIONAL STATISTICS 3 Credit Hours
(Slashed with MATH 50024) This course is about the use of computational tools to manage, explore, summarize and visualize data, as well as the computational underpinnings of fitting statistical models. It uses mostly the statistical computation language R, but also other languages like Python and Matlab. It also covers: simulation and random number generation, computationally intensive methods like the bootstrap and permutation tests, Expectation-Maximization and related algorithms and dimensionality reduction via matrix decomposition. Students with statistics courses from other disciplines should consult with the Department of Mathematical Sciences for possible prerequisite overrides.
Prerequisite: MATH 21001 or MATH 21002 with a minimum C grade; and MATH 12022 with a minimum B grade or MATH 20011 with a minimum C grade or MATH 30011 with a minimum B grade or MATH 40012 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40028 STATISTICAL LEARNING 3 Credit Hours
(Slashed with MATH 50028) This course is about the statistical foundations of modern machine learning techniques. The main focus is classification and prediction using regression-based, tree-based and kernel-based methods. Specific methods include logistic regression, classification and regression trees, random forests and support vector machines. The course also includes an introduction to unsupervised and semi-supervised learning.
Prerequisite: MATH 40015 and MATH 40024 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES 3 Credit Hours
(Slashed with MATH 50051) Topics from conditional expectations, Markov chains, Markov processes, Brownian motion and Martingales and their applications to stochastic calculus.
Prerequisite: MATH 40011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40055 ACTUARIAL MATHEMATICS I (ELR) (WIC) 4 Credit Hours
(Slashed with MATH 50055) Topics from survival models, stochastic analysis of annuities and life insurance and casualty models. .
Prerequisite: MATH 30055 and MATH 40011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 40056 ACTUARIAL MATHEMATICS II 4 Credit Hours
(Slashed with MATH 50056) Benefit premiums, benefit reserves and their analysis, decrement models, joint survivorship, risk models.
Prerequisite: MATH 40055 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 40059 STOCHASTIC ACTUARIAL MODELS 3 Credit Hours
(Slashed with MATH 50059) Topics from investment risk, mean variance analysis, CAPM, financial derivatives, binomial pricing model, stochastic calculus, Black-Scholes pricing model and Greeks.
Prerequisite: MATH 40011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40093 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-6 Credit Hours
(Repeatable for credit) Studies special topics in mathematics. Not acceptable for credit toward a major or minor in math without approval of student's adviser.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 41001 MODERN ALGEBRA I (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 51001) Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms.
Prerequisite: MATH 22005 or MATH 32051 with a minimum C grade; and MATH 31011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 41002 MODERN ALGEBRA II (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 51002) A continuation of MATH 41001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructability.
Prerequisite: Minimum C grade in MATH 41001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 41021 THEORY OF MATRICES 3 Credit Hours
(Slashed with MATH 51021) A rigorous study of the topics introduced in matrix algebra. Topics included are vector space preliminaries, canonical forms of matrices, diagonalizability criteria.
Prerequisite: MATH 21001 and MATH 22005 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 41038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with CS 41038 and PHIL 41038)(Slashed with MATH 51038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics.
Prerequisite: Actuarial Mathematics major or Applied Mathematics major or Applied Mathematics minor or Applied Statistics minor or Mathematics major or Mathematics minor; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42001 ANALYSIS I (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 52001) Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers, continuity, differentiation and Riemann integration.
Prerequisite: MATH 22005 or MATH 32051 with a minimum C grade; and MATH 31011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 42002 ANALYSIS II (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 52002) Topics include further development of integration theory, infinite series, uniform convergence, several variable calculus and metric spaces.
Prerequisite: MATH 42001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 42011 MATHEMATICAL OPTIMIZATION 3 Credit Hours
(Slashed with MATH 52011) Analytic and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered.
Prerequisite: Minimum C grade in MATH 21001 and MATH 22005 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42021 GRAPH THEORY AND COMBINATORICS 3 Credit Hours
(Slashed with MATH 52021) Fundamentals and applications of combinatorial mathematics. Topics include traversability, colorability, networks, inclusion and exclusion, matching and designs.
Prerequisite: Minimum C grade in MATH 12003 or MATH 12013; and MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42024 NUMBERS AND GAMES 3 Credit Hours
(Slashed with MATH 52024) The study of partisan and impartial combinatorial games, games as numbers and Grundy-Sprague theory.
Prerequisite: Minimum C grade in MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS 3 Credit Hours
(Slashed with MATH 52031) Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization, dynamical systems and probability are developed and applied. Modern software tools are utilized.
Prerequisite: Minimum C grade in the following courses: MATH 22005 and MATH 32044; or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42039 MODELING PROJECTS (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 52039) Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports are required.
Prerequisite: MATH 42031 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 42041 ADVANCED CALCULUS 3 Credit Hours
(Slashed with MATH 52041) The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus. Applications to field theories, electricity and magnetism and fluid flow.
Prerequisite: MATH 21001 with a minimum C grade; and MATH 22005 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42045 PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 52045) An introduction to Fourier series, Fourier transforms and partial differential equations. Wave, heat and potential equations of mathematical physics. Additional topics include Green's functions and the method of characteristics for wave equations.
Prerequisite: Minimum C grade in the following courses: MATH 22005 and MATH 32044; or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42048 COMPLEX VARIABLES 3 Credit Hours
(Slashed with MATH 52048) Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications.
Prerequisite: MATH 22005 or MATH 32051 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42201 NUMERICAL LINEAR ALGEBRA 3 Credit Hours
(Cross-listed with CS 42201)(Slashed with CS 52201 and MATH 52201) Fundamentals of numerical linear algebra; solving linear systems; QR factorization and least squares; iterative methods for eigenvalue problems.
Prerequisite: Minimum C grade in the following courses: CS 13001 or (CS 13011 and CS 13012); and MATH 12003 or MATH 12013; and MATH 21001 or MATH 21002 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42202 NUMERICAL APPROXIMATION AND OPTIMIZATION 3 Credit Hours
(Cross-listed with CS 42202)(Slashed with CS 52202 and MATH 52202) This course introduces numerical methods for solving nonlinear equations, optimizing functions, performing interpolation, computing differentiation and integration and solving differential equations.
Prerequisite: Minimum C grade in the following courses: (MATH 22005 and MATH 32044) or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 45011 DIFFERENTIAL GEOMETRY 3 Credit Hours
(Slashed with MATH 55011) Analytic and metric differential geometry of curves and surfaces.
Prerequisite: MATH 22005 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 45021 EUCLIDEAN GEOMETRY 3 Credit Hours
(Slashed with MATH 55021) Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: cross-ratio, groups, constructions, geometric generalizations and inversion.
Prerequisite: Minimum C grade in MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 45022 LINEAR GEOMETRY 3 Credit Hours
(Slashed with MATH 55022) Use of transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry.
Prerequisite: Minimum C grade in MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 46001 ELEMENTARY TOPOLOGY 3 Credit Hours
(Slashed with MATH 56001) Metric spaces, introduction to topological spaces, separation axioms.
Prerequisite: MATH 22005 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 47011 THEORY OF NUMBERS 3 Credit Hours
(Slashed with MATH 57011) Divisibility properties of the integers, prime numbers, congruences, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions and rational approximations.
Prerequisite: Minimum C grade in MATH 12003 or MATH 12013.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 47021 HISTORY OF MATHEMATICS 3 Credit Hours
(Slashed with MATH 57021) Survey from Babylonian and Egyptian mathematics to 20th century mathematics with emphasis on the development of algebra, geometry, calculus, number theory.
Prerequisite: MATH 23022 or higher with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 49992 INTERNSHIP IN MATHEMATICS (ELR) 1-3 Credit Hours
Supervised work experience and training in the mathematical sciences. Since this work will be outside the department a report and final presentation will be required.
Prerequisite: Special Approval.
Schedule Type: Practical Experience
Contact Hours: 0 lecture, 0 lab, 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MATH 49995 SELECTED TOPICS IN MATHEMATICS AND ITS APPLICATIONS 1-4 Credit Hours
(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

MATH 49996 INDIVIDUAL STUDY 1-4 Credit Hours
(Repeatable for credit) Individual investigation in mathematics.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MATH 49998 RESEARCH (ELR) 1-15 Credit Hours
(Repeatable for credit) Research in mathematics.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MATH 50011 PROBABILITY THEORY AND APPLICATIONS 3 Credit Hours
(Slashed with MATH 40011) Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50012 THEORY OF STATISTICS 3 Credit Hours
(Slashed with MATH 40012) Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods.
Prerequisite: MATH 40011 or MATH 50011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50015 APPLIED STATISTICS 3 Credit Hours
(Slashed with MATH 40015) Course is based on classical linear regression techniques with an emphasis on real data using the principles of sound data analysis. Close attention is given to issues of interpretation, diagnostics, outliers and influential points, goodness of fit and model selection. Topics include simple and multiple linear regression, transformation and modifications of covariates and responses, design matrices, variable selection and logistic regression.
Prerequisite: Applied Mathematics major or Data Science major or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50024 COMPUTATIONAL STATISTICS 3 Credit Hours
(Slashed with MATH 40024) This course is about the use of computational tools to manage, explore, summarize and visualize data, as well as the computational underpinnings of fitting statistical models. It uses mostly the statistical computation language R, but also other languages like Python and Matlab. It also covers: simulation and random number generation, computationally intensive methods like the bootstrap and permutation tests, Expectation-Maximization and related algorithms and dimensionality reduction via matrix decomposition.
Prerequisite: Applied Mathematics major or Data Science major or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50028 STATISTICAL LEARNING 3 Credit Hours
(Slashed with MATH 40028) This course is about the statistical foundations of modern machine learning techniques. The main focus is classification and prediction using regression-based, tree-based and kernel-based methods. Specific methods include logistic regression, classification and regression trees, random forests and support vector machines. The course also includes an introduction to unsupervised and semi-supervised learning.
Prerequisite: MATH 40015 or MATH 50015; and MATH 40024 or MATH 50024; and Applied Mathematics major or Data Science major or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES 3 Credit Hours
(Slashed with MATH 40051) Topics from conditional expectations, Markov chains, Markov processes, Brownian Motion and Martingales and their applications to stochastic calculus.
Prerequisite: MATH 50011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50055 ACTUARIAL MATHEMATICS I 4 Credit Hours
(Slashed with MATH 40055) Topics from survival models, stochastic analysis of annuities and life insurance and casualty models.
Prerequisite: MATH 30055 and MATH 50011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 50056 ACTUARIAL MATHEMATICS II 4 Credit Hours
(Slashed with MATH 40056) Benefit premiums, benefit reserves and their analysis; decrement models, joint survivorship, risk models.
Prerequisite: MATH 50055; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 50059 STOCHASTIC ACTUARIAL MODELS 3 Credit Hours
(Slashed with MATH 40059) Topics from investment risk, mean variance analysis, CAPM, financial derivatives, binomial pricing model, stochastic calculus, Black-Scholes pricing model and Greeks.
Prerequisite: MATH 40011 or MATH 50011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 51001 MODERN ALGEBRA I 3 Credit Hours
(Slashed with MATH 41001) Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms.
Prerequisite: MATH 21001 and MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 51002 MODERN ALGEBRA II 3 Credit Hours
(Slashed with MATH 41002) A continuation of MATH 51001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructibility.
Prerequisite: MATH 41001 or MATH 51001; and applied mathematics or pure mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 51021 THEORY OF MATRICES 3 Credit Hours
(Slashed with MATH 41021) A rigorous study of the topics introduced in matrix algebra. Topics included are: canonical forms of matrices, diagonalizability criteria.
Prerequisite: MATH 21001 and MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 51038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with PHIL 51038)(Slashed with CS 41038, MATH 41038 and PHIL 41038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52001 ANALYSIS I 3 Credit Hours
(Slashed with MATH 42001) Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers ,continuity, differentiation and Riemann integration.
Prerequisite: Applied mathematics or pure mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52002 ANALYSIS II 3 Credit Hours
(Slashed with MATH 42002) Topics include further development of integration theory infinite series, uniform convergence, several variable calculus and metric spaces.
Prerequisite: MATH 42001 or MATH 52001; and applied mathematics or pure mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52011 MATHEMATICAL OPTIMIZATION 3 Credit Hours
(Slashed with MATH 42011) Analytical and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered.
Prerequisite: MATH 21001 and MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52021 GRAPH THEORY AND COMBINATORICS 3 Credit Hours
(Slashed with MATH 42021) Fundamentals and applications of combinatorial mathematics. Topics include transversability, colorability, networks, inclusion and exclusion, matching and designs.
Prerequisite: MATH 12003 and MATH 21001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52024 NUMBERS AND GAMES 3 Credit Hours
(Slashed with MATH 42024) The study of partisan and impartial combinatorial games, games as numbers and Grundy-Sprague theory.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS 3 Credit Hours
(Slashed with MATH 42031) Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization, dynamical systems and probability are developed and applied. Modern software tools are utilized.
Prerequisite: MATH 32044; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52039 MODELING PROJECTS 3 Credit Hours
(Slashed with MATH 42039) Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports required.
Prerequisite: MATH 52031 with a minimum C grade; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MATH 52041 ADVANCED CALCULUS 3 Credit Hours
(Slashed with MATH 42041) The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus. Applications to field theories, electricity and magnetism and fluid flow.
Prerequisite: MATH 21001 and MATH 22005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52045 PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 42045) An introduction to Fourier series, Fourier transforms and partial differential equations. Wave, heat and potential equations of mathematical physics. Additional topics include Green's functions and the method of characteristics for wave equations.
Prerequisite: Applied Mathematics or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52048 COMPLEX VARIABLES 3 Credit Hours
(Slashed with MATH 42048) Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications.
Prerequisite: Applied mathematics or pure mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52201 NUMERICAL LINEAR ALGEBRA 3 Credit Hours
(Cross-listed with CS 52201)(Slashed with CS 42201 and MATH 42201) Fundamentals of numerical linear algebra; solving linear systems; QR factorization and least squares; iterative methods for eigenvalue problems.
Prerequisite: Applied Mathematics or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52202 NUMERICAL APPROXIMATION AND OPTIMIZATION 3 Credit Hours
(Cross-listed with CS 52202)(Slashed with CS 42202 and MATH 42202) This course introduces numerical methods for solving nonlinear equations, optimizing functions, performing interpolation, computing differentiation and integration and solving differential equations.
Prerequisite: Applied Mathematics or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 55011 DIFFERENTIAL GEOMETRY 3 Credit Hours
(Slashed with MATH 45011) Analytic and metric differential geometry of curves and surfaces.
Prerequisite: MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 55021 EUCLIDEAN GEOMETRY 3 Credit Hours
(Slashed with MATH 45021) Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: cross-ratio, groups, constructions, geometric generalizations and inversion.
Prerequisite: MATH 21001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 55022 LINEAR GEOMETRY 3 Credit Hours
(Slashed with MATH 45022) Use of transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry.
Prerequisite: MATH 21001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 56001 ELEMENTARY TOPOLOGY 3 Credit Hours
(Slashed with MATH 46001) Metric spaces, introduction to topological spaces, separation axioms.
Prerequisite: MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 57011 THEORY OF NUMBERS 3 Credit Hours
(Slashed with MATH 47011) Divisibility properties of the integers, prime numbers, congruences, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions and rational approximations.
Prerequisite: MATH 12003; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 57021 HISTORY OF MATHEMATICS 3 Credit Hours
(Slashed with MATH 47021) Survey from Babylonian and Egyptian mathematics to 20th-century mathematics with emphasis on the development of algebra, geometry, calculus, number theory.
Prerequisite: One course MATH 23022 or higher; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 57095 SPECIAL TOPICS: MATHEMATICS AND ITS APPLICATIONS 1-3 Credit Hours
(Repeatable for credit) Offered periodically with different topics and different faculty involved.
Prerequisite: Graduate standing or special approval.
Schedule Type: Lecture
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 59893 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-6 Credit Hours
(Repeatable for credit) Studies in special topics in pure and applied mathematics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 60051 PROBABILITY I 4 Credit Hours
(Slashed with MATH 70051) Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers.
Prerequisite: MATH 40011 or MATH 42002 or MATH 50011 or MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 60052 PROBABILITY II 3 Credit Hours
(Slashed with MATH 70052) Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion.
Prerequisite: MATH 60051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 60061 MATHEMATICAL STATISTICS I 4 Credit Hours
(Slashed with MATH 70061) Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems.
Prerequisite: MATH 42002 or MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 60062 MATHEMATICAL STATISTICS II 3 Credit Hours
(Slashed with MATH 70062) Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Non-parametric procedures.
Prerequisite: MATH 60061; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 60070 FINANCIAL MATHEMATICS 3 Credit Hours
(Slashed with MATH 70070) Topics from replication of trading strategies, arbitrage, completeness, Martingale representation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing.
Prerequisite: MATH 50051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 60091 SEMINAR IN STATISTICS AND PROBABILITY 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in statistics and probability.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 60093 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-3 Credit Hours
(Repeatable for credit) Studies of special topics in mathematics. Not acceptable for credit toward a graduate degree in mathematics without approval of the student's adviser.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 60194 COLLEGE TEACHING OF MATHEMATICS--LAB 1 Credit Hour
Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 0 lecture, 2 lab, 0 other
Grade Mode: Standard Letter

MATH 61051 ABSTRACT ALGEBRA I 4 Credit Hours
(Slashed with MATH 71051) Advanced topics in group theory including Sylow Theorems, finite Abelian groups, divisible groups and related concepts. Includes one hour problem session each week.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 61052 ABSTRACT ALGEBRA II 3 Credit Hours
(Slashed with MATH 71052) Advanced topics, commutative ring theory and field theory, including polynomial rings, unique factorization domains, matrix rings, Galois theory.
Prerequisite: MATH 61051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 61091 SEMINAR IN ALGEBRA 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in algebra.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 62041 METHODS OF APPLIED MATHEMATICS I 3 Credit Hours
(Slashed with MATH 72041) Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations).
Prerequisite: MATH 51021 and MATH 52041 and MATH 52045 and MATH 52048; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62042 METHODS OF APPLIED MATHEMATICS II 3 Credit Hours
(Slashed with MATH 72042) Continuation of MATH 62041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation).
Prerequisite: MATH 62041; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62051 FUNCTIONS OF A REAL VARIABLE I 4 Credit Hours
(Slashed with MATH 72051) Introduction to modern concepts of real analysis, including metric spaces, measure and integration theory.
Prerequisite: MATH 42002 or MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 62052 FUNCTIONS OF A REAL VARIABLE II 3 Credit Hours
(Slashed with MATH 72052) A continuation of MATH 62051. Included are basic topics in functional analysis and Hilbert space theory.
Prerequisite: MATH 62051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62151 FUNCTIONS OF A COMPLEX VARIABLE I 4 Credit Hours
(Slashed with MATH 72151) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.
Prerequisite: MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 62152 FUNCTIONS OF A COMPLEX VARIABLE II 3 Credit Hours
(Slashed with MATH 72152) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.
Prerequisite: MATH 62151; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62203 COMPUTATIONAL FINANCE 3 Credit Hours
(Slashed with MATH 72203) Basic numerical methods, (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods), numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs) probabilistic methods.
Prerequisite: MATH 22005 and MATH 21001 and MATH 32044; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62251 NUMERICAL ANALYSIS I 4 Credit Hours
(Slashed with MATH 72251) Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric, spline). Numerical quadrature (Newton-Cotes, Gauss),extrapolation, Romberg integration.
Prerequisite: MATH 42002 or MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 62252 NUMERICAL ANALYSIS II 3 Credit Hours
(Slashed with MATH 72252) Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition.
Prerequisite: MATH 41021 or MATH 51021; and MATH 62251 or MATH 72251; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62261 NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 72261) Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementation software and analysis.
Prerequisite: MATH 32044; and MATH 42202 or MATH 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 72262) Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations.
Prerequisite: MATH 42045 or MATH 52045; and MATH 42202 or MATH 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours
(Slashed with MATH 72263) (Cross-listed with CS 62263 and CS 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.
Prerequisite: MATH 41021 or MATH 51021; and MATH 42202 or MATH 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours
(Cross-listed with CS 62264 and CS 72264) (Slashed with MATH 72264) Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software.
Prerequisite: MATH 42041 or MATH 52041; and MATH 42202 or MATH 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62291 SEMINAR IN COMPUTATIONAL AND APPLIED MATHEMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with MATH 72291) Seminar on current research in computational and applied Mathematics
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MATH 62391 SEMINAR IN MEASURE THEORY 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in measure theory.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 62491 SEMINAR IN NONLINEAR ANALYSIS 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in nonlinear analysis.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 64091 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours
(Repeatable for credit) Studies in geometry, algebra, mathematics for junior and senior high school. Mathematics content professionalized for teachers.
Prerequisite: MATH 34001; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MATH 66051 INTRODUCTION TO TOPOLOGY I 4 Credit Hours
(Slashed with MATH 76051) Set theory, topological spaces, continuity, product spaces, quotient spaces, separation axioms, compactness and metrizability.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 67057 ADVANCED CONCEPTS OF GEOMETRY 3 Credit Hours
This course covers advanced topics in Euclidean geometry, including the Ceva's, Menelaus' and nine-point theorems; mass-point geometry; solid geometry; 2D and 3D analytic geometry; conic sections; geometric inequalities; applications of complex numbers in Euclidean geometry; geometric constructions; and combinatorial geometry.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 67067 ADVANCED CONCEPTS OF PROBABILITY AND STATISTICS 3 Credit Hours
This course covers advanced topics in probability and statistics, including core probability topics: probability axioms, discrete and continuous random variables, independence and conditional probability, inequalities and limit theorems; and main statistics topics sample, sample mean and variance, interval estimators, hypothesis tests and linear regression.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 67077 ADVANCED CONCEPTS OF ALGEBRA 3 Credit Hours
This course covers advanced topics in abstract algebra, including basic number theory; divisibility and congruence of integers; examples and properties of rings; polynomial rings; unique factorization and irreducibility of polynomials; quotient rings; finite fields; examples and basic properties of groups; Cayley tables and isomorphisms; subgroups; cosets; and the theorems of Lagrange, Euler and Fermat.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 67091 SEMINAR IN NUMBER THEORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with MATH 77091) Seminar on current research in number theory.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 67095 SELECTED TOPICS IN MATHEMATICS 1-4 Credit Hours
(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

MATH 67098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of "S" is given.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

MATH 67199 THESIS I 2-6 Credit Hours
Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MATH 67299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: MATH 67199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MATH 69099 CAPSTONE PROJECT 2-3 Credit Hours
The course is an integrative experience that brings together all components of the Masters nonthesis graduate program.
Prerequisite: Graduate standing and special approval.
Schedule Type: Project or Capstone
Contact Hours: 0 lecture, 0 lab, 2-3 other
Grade Mode: Standard Letter-IP

MATH 70051 PROBABILITY I 4 Credit Hours
(Slashed with MATH 60051) Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers.
Prerequisite: MATH 40011 or MATH 50011; or MATH 42002 or MATH 52002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 70052 PROBABILITY II 3 Credit Hours
(Slashed with MATH 60052) Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion.
Prerequisite: MATH 60051 or MATH 70051; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 70061 MATHEMATICAL STATISTICS I 4 Credit Hours
(Slashed with MATH 60061) Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems.
Prerequisite: MATH 42002 or MATH 52002.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 70062 MATHEMATICAL STATISTICS II 3 Credit Hours
(Slashed with MATH 60062) Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Non parametric procedures.
Prerequisite: MATH 60061 or MATH 70061; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 70070 FINANCIAL MATHEMATICS 3 Credit Hours
(Slashed with MATH 60070) Topics from replication of trading strategies, arbitrage completeness, Martingale presentation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing.
Prerequisite: MATH 50051; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 70091 SEMINAR IN STATISTICS AND PROBABILITY 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in statistics and probability.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MATH 70094 COLLEGE TEACHING OF MATHEMATICS 1 Credit Hour
(Repeatable for credit) Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MATH 70095 SELECTED TOPICS IN STATISTICS AND PROBABILITY 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 70051, MATH 70052, MATH 70061 and MATH 70062.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 70194 COLLEGE TEACHING OF MATHEMATICS--LAB 1 Credit Hour
Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 0 lecture, 2 lab, 0 other
Grade Mode: Standard Letter

MATH 71001 STRUCTURE OF RINGS AND ALGEBRAS I 3 Credit Hours
Advanced topics in ring theory, including Artinian rings, Noetherian rings, advanced commutative ring theory.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71002 STRUCTURE OF RINGS AND ALGEBRAS II 3 Credit Hours
Advanced topics in ring theory including an introduction to homological algebra. Includes Dedekind domains, regular rings, torsion theory.
Prerequisite: MATH 71001; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71011 ADVANCED GROUP THEORY 3 Credit Hours
Advanced topics in group theory. Topics include permutation arguments, coprime actions, transfer theorems, nonsimplicity criteria. Properties of families of groups: solvable, p solvable, nilpotent, p groups.
Prerequisite: MATH 61051 or MATH 71051; and MATH 61052 or MATH 71052; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71012 CHARACTERS OF FINITE GROUPS 3 Credit Hours
Development of characters of finite groups, their properties, orthogonality relations, integrality conditions. Applications include Burnside's paqb theorem and existence of Frobenius kernels in Frobenius groups.
Prerequisite: MATH 61051 or MATH 71051; and MATH 61052 or MATH 71052; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71051 ABSTRACT ALGEBRA I 4 Credit Hours
(Slashed with MATH 61051) Advanced topics in group theory, including Sylow theorems, finite Abelian groups, divisible groups and related concepts. Includes one-hour problem session each week.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 71052 ABSTRACT ALGEBRA II 3 Credit Hours
(Slashed with MATH 61052) Advanced topics, commutative ring theory and field theory, including polynomial rings, unique factorization, domains, matrix rings, Galois theory.
Prerequisite: MATH 61051 or MATH 71051; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71091 SEMINAR IN ALGEBRA 1-3 Credit Hours
(Repeatable for credit) (Slashed with MATH 61091) Seminar on current research in algebra.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 71095 SELECTED TOPICS IN ALGEBRA 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 71002, MATH 71051 and MATH 71052.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 72001 FUNCTIONAL ANALYSIS I 3 Credit Hours
A study of principles of linear analysis in the setting of normed linear spaces and topological vector spaces.
Prerequisite: MATH 72052; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72041 METHODS OF APPLIED MATHEMATICS I 3 Credit Hours
(Slashed with MATH 62041) Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations).
Prerequisite: MATH 51021 and MATH 52041 and MATH 52045 and MATH 52048; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72042 METHODS OF APPLIED MATHEMATICS II 3 Credit Hours
(Slashed with MATH 62042) Continuation of MATH 72041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation).
Prerequisite: MATH 62041 or MATH 72041; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72051 FUNCTIONS OF A REAL VARIABLE I 4 Credit Hours
(Slashed with MATH 62051) Introduction to modern concepts of real analysis including metric spaces, measure and integration theory.
Prerequisite: MATH 42002 or MATH 52002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 72052 FUNCTIONS OF A REAL VARIABLE II 3 Credit Hours
(Slashed with MATH 62052). A continuation of MATH 72051. Included are basic topics in functional analysis and Hilbert space theory.
Prerequisite: MATH 62051 or MATH 72051; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72095 SELECTED TOPICS IN REAL ANALYSIS 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72002, MATH 72051 and MATH 72052.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 72151 FUNCTIONS OF A COMPLEX VARIABLE I 4 Credit Hours
(Slashed with MATH 62151) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.
Prerequisite: MATH 52002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 72152 FUNCTIONS OF A COMPLEX VARIABLE II 3 Credit Hours
(Slashed with MATH 62152) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's theorem; Riemann surfaces.
Prerequisite: MATH 72151; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72195 SELECTED TOPICS IN COMPLEX ANALYSIS 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72151 and MATH 72152.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 72203 COMPUTATIONAL FINANCE 3 Credit Hours
(Slashed with MATH 62203) Basic numerical methods, (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods) numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs) probabilistic methods.
Prerequisite: MATH 22005 and MATH 21001 and MATH 32044; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72251 NUMERICAL ANALYSIS I 4 Credit Hours
(Slashed with MATH 62251) Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric spline). Numerical quadrature (Newton-Cotes, Gauss), extrapolation, Romberg integration.
Prerequisite: MATH 42002 or MATH 52002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 72252 NUMERICAL ANALYSIS II 3 Credit Hours
(Slashed with MATH 62252) Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition.
Prerequisite: MATH 41021 or MATH 51021; and MATH 62251 or MATH 72251; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72261 NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 62261) Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementation software and analysis.
Prerequisite: MATH 32044; and MATH 42202 or MATH 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 62262) Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations.
Prerequisite: MATH 42045 or MATH 52045; and MATH 42202 or MATH 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours
(Slashed with MATH 62263) (Cross-listed with CS 62263 and CS 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.
Prerequisite: MATH 41021 or MATH 51021; and MATH 42202 or MATH 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours
(Slashed with MATH 62264) (Cross-listed with CS 62264 and CS 72264) Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software.
Prerequisite: MATH 42041 or MATH 52041; and MATH 42202 or MATH 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72291 SEMINAR IN COMPUTATIONAL AND APPLIED MATHEMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with Math 62291)Seminar on current research in numerical analysis.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 72295 SELECTED TOPICS IN NUMERICAL ANALYSIS 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72251 and MATH 72252.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 72391 SEMINAR IN MEASURE THEORY 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in measure theory.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 72491 SEMINAR IN NONLINEAR ANALYSIS 1-3 Credit Hours
(Repeatable for credit)Seminar on current research in nonlinear analysis.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 76051 INTRODUCTION TO TOPOLOGY I 4 Credit Hours
(Slashed with MATH 66051) Set theory, topological spaces, continuity, product spaces, quotient spaces separation axioms, compactness and metrizability.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 76095 SELECTED TOPICS IN TOPOLOGY 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 76051.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 77011 ALGEBRAIC NUMBER THEORY 3 Credit Hours
Number fields and Dedekind domains; conjugates, norm and trace, discriminant, integral bases; arithmetic or quadraic and cyclotomic number fields; theory of ideals and class group; Dirichlet's thoerem on units.
Prerequisite: MATH 57011; and MATH 61052 or MATH 71052; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 77012 ANALYTIC NUMBER THEORY 3 Credit Hours
Multiplicative functions and summatory functions, Riemann's Zeta function and the prime number theorem, L-functions and Dirichlet's theorem on primes in artithmetic progressions, asymptotic formula for partitions.
Prerequisite: MATH 57011 and MATH 62151 or MATH 72151.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 77091 SEMINAR IN NUMBER THEORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with MATH 67091) Seminar on current research in number theory.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 77095 SELECTED TOPICS IN MATHEMATICS 1-3 Credit Hours
(Repeatable for credit) Course topic varies with each offering.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 77098 RESEARCH I 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of "S" is given.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

MATH 77195 SELECTED TOPICS IN NUMBER THEORY 1-3 Credit Hours
(Repeatable for credit) Content varies with each offering and complements topics covered in MATH 77011 and MATH 77012.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 77198 RESEARCH II 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of "S" is given.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 87098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. Credits earned may be applied toward degree if department approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

MATH 87199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Admission to doctoral candidacy; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MATH 87299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: MATH 87199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Mechanical Engineering and Related Technology (MERT)

MERT 12000 ENGINEERING DRAWING 3 Credit Hours
Engineering drawing principles and techniques: orthographic projection, sketching, sections, auxiliary views, dimensioning and conventional practices.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Engineering Graphics

MERT 12001 COMPUTER-AIDED DESIGN 3 Credit Hours
Introduces 3D modeling techniques to design and draft mechanical components and assemblies.
Prerequisite: MERT 12000 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Mechanical Engineering Technology, ITAG Mechanical Engineering Technology, TAG Engineering Technology

MERT 12004 MANUFACTURING PROCESSES 3 Credit Hours
Introduces students to the various manufacturing processes such as extrusion, molding, forging, casting, stamping, piercing, joining and finishing. Investigates the various ways parts are made from the vast array of materials available.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Mechanical Engineering Technology, TAG Engineering Technology

MERT 12005 PROPERTIES OF MATERIALS 3 Credit Hours
Covers the structure and physical and mechanical properties of engineering materials, such as metals (ferrous and non-ferrous), polymers, ceramics and composites. Students learn the mechanical behavior of materials under different types of loading and testing of mechanical properties including elasticity, yield strength, ultimate tensile strength, shear strength, bending strength and hardness. Heat treatment and the effects of the manufacturing processes on the material properties are also considered.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

MERT 21096 INDIVIDUAL INVESTIGATION IN MECHANICAL ENGINEERING TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Independent in depth research of a mechanical engineering technology topic supervised and coordinated by an engineering technology faculty member.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MERT 22003 COMPUTER-AIDED TOOL DESIGN 3 Credit Hours
Tool design practices and procedures including materials, commercial standards, cutting tools, drill jigs, fixtures, dies and gauges using computer-aided design.
Prerequisite: MERT 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MERT 22005 STATICS 3 Credit Hours
Basic vector mechanics, calculation of reactions from applied forces, drawing free body diagrams, working with equations of equilibrium, analysis of simple structures, calculating mass properties and forces due to friction.
Prerequisite: None.
Corequisite: MATH 11022.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

MERT 22007 STRENGTH OF MATERIALS 3 Credit Hours
Course covers taking the stresses induced into members due to applied loading; and coupled with mass properties of the sections, designing members to safely carry the loads. Types of stresses considered are tensile, compressive, shear, bending, torsional and combined.
Prerequisite: MERT 22005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

MERT 22012 FLUID POWER 3 Credit Hours
Fluid properties, kinematics of fluid flow, momentum, viscosity, conservation of energy in fluid flow, industrial hydraulics and gas laws.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

MERT 22095 SPECIAL TOPICS IN MECHANICAL ENGINEERING TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Special topics in mechanical engineering technology.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MERT 32004 MACHINE DESIGN 3 Credit Hours
This course provides the concepts, procedures, data, and decision analysis techniques necessary to design machine elements commonly found in mechanical devices and systems.
Prerequisite: MERT 12001 and MERT 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MERT 34002 ADVANCED SOLID MODELING 3 Credit Hours
Advance parametric solid modeling using advanced software (CREO) to create and analyze solid models. Includes model creation using advance features, introduction to FEA simulation and manufacturing simulations.
Prerequisite: MERT 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MERT 42000 THERMODYNAMICS FOR ENGINEERING TECHNOLOGY 3 Credit Hours
Includes the study of the first and second laws of thermodynamics with a detailed study of various types of heat engines. Additional topics include principles of heat transfer and energy management.
Prerequisite: PHY 13001; and PHY 13002 or PHY 13012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Media and Journalism (MDJ)

MDJ 10009 ELEMENTS OF FILM, TV AND ANIMATION 3 Credit Hours
An introduction to the theory and conceptual choices in story, picture and sound. This course prepares students for the creative and technical aspects of film, TV and animation work.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 13001 PRODUCTION SAFETY AND SET PROTOCOL 2 Credit Hours
This course will enhance the collaborative experience of multimedia creation by exposing students to the various skill sets and positions in the film and TV industries and familiarize them with industry standards and best practices, especially concerning safety processes.
Prerequisite: School of media and journalism major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MDJ 20001 MEDIA, POWER AND CULTURE (DIVD) (KSS) 3 Credit Hours
Fosters critical understanding of mass media in their historical, ideological, economic and cultural contexts. Examines what forces influence media and how media influence consumers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Communication, Transfer Module Social Sciences

MDJ 20004 ADVERTISING WRITING AND STORYTELLING 3 Credit Hours
Introduces students to writing for advertising. In particular, students will understand how to effectively and strategically communicate to a variety of audiences, including business partners and consumers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 20008 RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours
Understand the ways research is employed and applied in integrated communication, including both primary and secondary research. Students will understand how to use research and insights to develop strategy, or to craft research on business strategy. They also will become thoughtful researchers and consumers of research who are cognizant of the ethical and moral responsibilities associated with human subjects research. Students will be expected to understand and appreciate the diversity of audiences. Finally, students will develop critical thinking and writing skills in order to create and share a well-crafted presentation to clients that reflect a strong understanding of the connections among data, insight and strategy.
Prerequisite: MDJ 21001 or MDJ 28001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 20011 PRODUCTION FUNDAMENTALS 3 Credit Hours
Introductory course offering a conceptual and hands-on approach to understanding digital video and sound recording and editing.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 21001 PRINCIPLES OF ADVERTISING 3 Credit Hours
Advertising history, purposes, techniques, media and research; analysis of functions of advertising organizations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Communication

MDJ 21008 SOCIAL MEDIA STRATEGIES 3 Credit Hours
Designed to help students understand and use social media in critical and strategic ways. Helps students harness the power and potential of the social web, including strategies used to position and market organizations as well as individuals. Exposes students to the latest social-media applications and tools and to critical views of social media's impact on business, society and culture. Students emerge from the class with a strategic plan designed to enhance their lives and their careers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 21015 FOUNDATIONS OF STRATEGY AND COMMUNICATION 3 Credit Hours
This foundational course will establish a strong understanding of what strategy is and how to develop strategy that is grounded in brand values and consumer insights. This information is essential for the development of persuasive messaging and provides a foundation for remaining advertising classes and future careers.
Prerequisite: Minimum C- grade in MDJ 21001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 22004 VISUAL STORYTELLING 3 Credit Hours
Technical and digital skills needed to produce photos that communicate. Course will stress narrative work, detailed caption information and reporting. A GPA of 2.700 is required in the major.
Prerequisite: CCI 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 23004 STORY FOR PICTURE 3 Credit Hours
An introductory course on plot, character development and dramatic structure for narrative scriptwriting.
Prerequisite: Advertising or Digital Media Production or Emerging Media and Technology or Journalism or Public Relations or Visual Journalism or Visual Communication Design major or minor or Animation and Game Design or Fashion Media or Media Literacy minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 23130 DIRECTING FOR PICTURE 3 Credit Hours
A course designed to give students the creative and technical knowledge and skills needed to direct narrative and documentary productions.
Prerequisite: Minimum C- grade in MDJ 20011 and MDJ 23004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 26001 WRITING FOR MEDIA 3 Credit Hours
In this course, students will discover the power of media messages by learning the significant elements of writing for journalistic and public relations media. They will work toward developing a clear, concise writing style that is free from grammar, punctuation, and spelling errors. Students will learn how the purpose of writing informs its execution as well as how to hone their interviewing and research skills to support their key messages and themes. Students will be introduced to the use of social media for the support, dissemination and promotion of their work.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 26005 MULTIMEDIA JOURNALISM 3 Credit Hours
In this course students will learn to use multimedia for storytelling. Through use of different delivery platforms and adherence to deadlines, students will develop a multimedia mindset. Students will develop skills in formatting stories for web and mobile delivery, and will learn to use multimedia tools in breaking news situations. Students will create multimedia features and packages, and will experiment with standalone and complementary stories. Students will develop their skills in capturing and using video, audio and still photos, and will discuss ethical and legal issues surrounding online news reporting and presentation.
Prerequisite: Minimum C- grade in MDJ 26001; and a minimum C- grade in either EMAT 10310 or MDJ 20011.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 26007 REPORTING 3 Credit Hours
This course builds on the skills learned in MDJ 26001 and MDJ 26005 to introduce students to reporting with a text-based focus. Students will engage in the researching, interviewing and reporting skills necessary to cover a variety of news stories, while continuing to hone their journalistic writing skills. As part of the course, students will cover stories on campus and in the community with the opportunity for their work to be disseminated through our student media news outlets.
Prerequisite: A minimum C- grade in MDJ 26005 or MDJ 38002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 26008 BROADCAST REPORTING 3 Credit Hours
The course introduces the fundamentals of writing and reporting the news with a focus on video. Building on skills learned in MDJ 26001 and MDJ 26005, students will engage in the researching, interviewing and reporting skills necessary to cover a variety of news stories using video for TV or other visual platforms. They will also continue to hone their journalistic writing skills with a focus on broadcast style. As part of the course, students will shoot and edit video stories on campus and in the community with the opportunity for their work to be disseminated through our student media news outlets.
Prerequisite: MDJ 26005 or MDJ 38002 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 28001 PRINCIPLES OF PUBLIC RELATIONS 3 Credit Hours
Explores strategic role and function of public relations in business, nonprofit public institutions and society. Covers public relations practice from development to present. This course is the foundational course for students majoring or minoring in public relations and a stimulating elective for students in any major who seek a better understanding of strategic communication and persuasion, how people are informed, influenced and motivated to take action.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 30036 DIGITAL VIDEO EDITING 3 Credit Hours
Intermediate class in editing for single camera and multi-camera productions using Adobe Premiere software.
Prerequisite: Minimum C- grade in MDJ 20011.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 31002 ADVERTISING COPYWRITING (WIC) 3 Credit Hours
Examination and practice in various forms of advertising copywriting and their applications.
Prerequisite: Minimum C- grade in MDJ 31011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MDJ 31003 ADVERTISING MEDIA PLANNING 3 Credit Hours
Analysis, selection and scheduling of advertising media. Examination of advertising research, technique and application.
Prerequisite: MDJ 20004 and MDJ 20008 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 31004 DIGITAL ADVERTISING 3 Credit Hours
Explores digital targeting, advertising and mobilization in detail. Students will learn how to run winning digital advertising campaigns that educate and activate constituents. It is the study of overall strategic creation of digital advertising communication with a focus on copy writing and the implementation of basic production skills.
Prerequisite: MDJ 20004 and MDJ 20008 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 31007 DIGITAL ANALYTICS IN ADVERTISING AND PUBLIC RELATIONS 2 Credit Hours
Explores digital analytics and online measurement. Students will start with planning and setting measurable objectives, finding online audiences, and then design and implement measurement plans. Students will use social media analytics tools and Google analytics to capture data and then determine next steps. JMC 21004 is recommended to be taken prior to registration, but not required.
Prerequisite: Minimum C- grade in MDJ 20008.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MDJ 31011 ADVERTISING STRATEGY DEVELOPMENT 3 Credit Hours
Ad majors learn problem-solving techniques, which they will apply to business and creative proposals designed to promote products and or services. Development of good, clear writing skills is a key component of the course.
Prerequisite: Minimum C- grade in MDJ 20004 and MDJ 20008.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 32001 PHOTOJOURNALISM I 3 Credit Hours
Production of photographs for newspapers, magazines and online news media. A laboratory course emphasizing color and black and white photography. A GPA of 2.700 is required in the major.
Prerequisite: Minimum C- grade in CCI 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Communication

MDJ 32002 PHOTOJOURNALISM II 3 Credit Hours
(Repeatable for credit) Continuation of MDJ 32001. Advanced news and feature photography for newspapers, magazines and online including a collaborative project. A GPA of 2.700 is required in the major.
Prerequisite: A minimum C- grade in MDJ 32001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 33007 PRODUCING FOR PICTURE 3 Credit Hours
A deep and technical look at filmmaking from business, legal and logistical perspectives.
Prerequisite: Minimum C- grade in MDJ 20011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 33024 ON-CAMERA TECHNIQUES FOR MEDIA PROFESSIONALS 3 Credit Hours
Students will learn the fundamentals of appearing on camera for various live and recorded settings including television, digital-native presentations and social media. From professionalism to critical thinking on your feet, students will explore how to successfully navigate on-camera performance for different settings such as interviews, broadcast journalism, news conferences and web and social media videos. In a world where media content is becoming increasingly visual, this course is for any student whose career path might put them in front of a camera to convey information, ask questions, or answer them.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 33033 SOUND FOR PICTURE 3 Credit Hours
An intermediate class for audio and music in film and multimedia. Students learn the entire process of sound for picture workflow, department by department, from pre-production and budgeting through final mixdown.
Prerequisite: Minimum C- grade in MDJ 20011.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter
Attributes: TAG Communication

MDJ 33042 STUDIO TELEVISION 3 Credit Hours
Study of all positions of a live television program including technical directing, floor directing, graphics, digital playback and audio engineering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 33043 DIGITAL CINEMATOGRAPHY 3 Credit Hours
Course focuses on digital cinematography techniques for shooting documentary and narrative fiction.
Prerequisite: Minimum C- grade in MDJ 20011.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 33092 STUDENT MEDIA PRACTICUM IN DIGITAL MEDIA PRODUCTION (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) Performance of assigned activities in radio or television under student media supervision. A GPA of 2.700 is required in the major.
Prerequisite: Minimum 2.000 GPA; and sophomore standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

MDJ 34036 MULTIMEDIA ENGINEERING 3 Credit Hours
Introduction to basic digital media technology and systems, providing students with multimedia engineering knowledge and vocabulary. Overview of broadcast operations and legal viewpoint. Prep for Society of Broadcast Engineer (SBE) operators' certification exam.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 34140 PRODUCTION I 3 Credit Hours
A hands-on introduction to narrative and documentary storytelling. Students write, edit and direct projects emphasizing visual storytelling.
Prerequisite: Minimum C- grade in MDJ 23130.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 36005 EDITING 3 Credit Hours
Students will learn the craft of editing – chiefly improving the writing of other journalists on all platforms. Students will also learn story planning, content creation, writing headlines and organizing stories in digital formats. This course also includes an intensive review of style and grammar.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 36008 FREELANCE JOURNALISM 3 Credit Hours
In an ever-changing media landscape, students need to be able to market themselves and their work. This course provides students the tools, resources and strategies needed to pitch creative work to various media companies. Students will learn how to research markets, craft effective queries and manage the business considerations of being a freelance journalist.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 36010 INTERVIEWING AND DATA FOR JOURNALISTS 3 Credit Hours
This course offers students more practice in interviewing and finding news in numbers. Students will engage in news coverage that allows them to practice interviewing techniques including how to find sources, ask the right questions and use that information to create news content. We will also discuss diversity and its importance in the selection of story topics and sources. This course will also introduce students to finding stories through data and research. Students will learn how to find stories in numbers, how to judge and report on scientific research and how to use visuals to enhance reporting of data.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 36018 FEATURE WRITING 3 Credit Hours
This is a class about writing stories people want to read, not stories they have to read to keep up with the news. You will learn the journalistic and literary tools to write drop-everything, time-melting, hit-share reads. Each feature you produce, even the one written in the first person, must be thoroughly reported, stylishly written and students will be encouraged to submit their work for publication. A special emphasis will be placed on reporting the experiences of communities that have traditionally been ignored or misrepresented in media.
Prerequisite: Minimum C- grade in MDJ 26007 or MDJ 26008.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 36020 AUDIO STORYTELLING AND PODCASTING I 3 Credit Hours
The audio storytelling used in public radio-style stories and podcasts gives audiences an immersive and intimate experience that's available anytime, anywhere. This course will give students the expertise needed to develop and produce broadcast-quality audio content. Students will learn how to write for the ear, interview for audio, as well as edit and mix audio stories that meet professional standards for broadcast.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 38002 PUBLIC RELATIONS CASE STUDIES 3 Credit Hours
Explores the process and practice of public relations by requiring students to analyze real-world case studies and develop an actual public relations plan on behalf of a client organization. Students should expect to spend time outside the classroom working within teams in support of client objectives. A significant amount of writing in multiple formats is required.
Prerequisite: MDJ 28001 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40006 LAW OF MEDIA AND JOURNALISM 3 Credit Hours
(Slashed with MDJ 50006) Students will explore how the law affects media content and the work of its practitioners. Students will learn to identify potential legal issues and apply that knowledge to specific situations likely confronted by working media professionals across a variety of media industries. Students will also gain an appreciation of the history of the First Amendment and examine the role protections for free expression play in a diverse American society.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40010 ETHICS AND ISSUES IN MEDIA AND JOURNALISM (WIC) 3 Credit Hours
This course is about what the media ought to do and the underlying values that frame ethical decision-making. We will use ethics theories and critical thinking to discuss ethical decisions in media and in journalism, as well as explore how benefits and harms affect diversity, equity, inclusion, and belonging in the decisions we make as media practitioners. We'll use theory and moral reasoning to examine media decision-making beyond news judgment and common sense. The course does not attempt to give students rules for ethical behavior; it is an intellectual journey.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MDJ 40011 ETHICAL ISSUES IN INTEGRATED COMMUNICATION 1 Credit Hour
Focuses specifically on the ethical and moral issues affecting Advertising and Public Relations professionals. Focuses solely on Integrated Communications. Students will understand and appreciate the complex moral and ethical decisions that professionals make each day, often under intense deadline pressure. They also acquire their basic problem-solving skills to manage these issues in real time. A GPA of 2.700 is required in the major.
Prerequisite: Minimum C- grade in MDJ 31002 (and MDJ 31003) or MDJ 38002; and minimum 2.000 overall GPA; and advertising or public relations major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 40016 LAW OF ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours
(Slashed with MDJ 50016) Regulation of advertising and corporate speech; first amendement libel and privacy legal problems of new media. A GPA of 2.700 is required in the major.
Prerequisite: 18 hours of MDJ courses all with a minimum C- grade; and minimum C- grade in MDJ 31002 or 31003 or 38002; and minimum 2.000 overall GPA; and advertising or public relations majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40017 MEDIA ENTERPRISE 3 Credit Hours
(Slashed with MDJ 50017) This course will expose students to the business side of the media industry by exploring management issues unique to media organizations and the impact of those issues on the organization's structure, economics and employees. Students will also study the process of monetizing and distributing multimedia content to targeted audiences through various delivery streams. Students will apply entrepreneurial thinking as they explore the importance of promotion, branding and social media in today's media marketplace.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40020 AUDIO AND STILL PHOTO PRODUCTION 3 Credit Hours
(Slashed with MDJ 50020) Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio. A GPA of 2.700 is required in the major.
Prerequisite: MDJ 22001 or CCI 12001 with a minimum C- grade; and minimum 2.000 overall GPA; and school of media and journalism major; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40027 RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES (DIVD) 3 Credit Hours
(Slashed with MDJ 50027) To introduce students to the many facets of diversity in media through the eyes and perspectives of practitioners and audiences. This class takes a critical survey of messages directed at specific members of the mass audience and how these messages help shape the culture through historical, legal, economic, political, social and artistic influences. Media institutions are examined in terms of how and why diverse content is produced and distributed. Special attention is paid to increasing students' level of media literacy by examining these messages.
Prerequisite: MDJ 20001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

MDJ 40037 SCRIPTWRITING FOR VIDEO AND FILM 3 Credit Hours
(Slashed with MDJ 50037) The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs.
Prerequisite: Minimum C- grade in MDJ 23004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40092 INTERNSHIP (ELR) 1-3 Credit Hours
(Repeatable for credit) Experience in a professional setting under professional supervision in student's field of specialization.
Prerequisite: Minimum 23 credit hours of MDJ coursework; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MDJ 40095 SPECIAL TOPICS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Explores selected topics of special interest in media and journalism not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 40096 INDIVIDUAL PROJECTS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Individual research projects in media and journalism.
Prerequisite: Junior or senior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 40099 SENIOR HONORS PROJECT IN MEDIA AND JOURNALISM (ELR) 2-4 Credit Hours
Thesis or other independent study project in media and journalism.
Prerequisite: School of media and journalism majors only; and admitted to the honors college.
Schedule Type: Project or Capstone
Contact Hours: 2-4 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

MDJ 40201 PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS 1 Credit Hour
(Slashed with MDJ 50201) Provides a basic understanding of the public affairs role in public relations. Course specifically examines how external factors surrounding an organization can trigger disruption, opportunity, change, adaptation and evolution. Students explore techniques for anticipating, managing and adapting to or changing those forces. Primary attention is paid to environmental scanning, issue and stakeholder identification and management, lobbying, advocacy and ethical implications of public policy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 40202 PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION 1 Credit Hour
(Slashed with MDJ 50202) Provides a basic understanding of the best practices of crisis planning, preparation, communication and management. Course focuses on the critical capabilities, team work and decision-making skills required of public relations practitioners during periods of intense organizational turbulence, crisis and reputational threat across numerous stakeholder groups. Those groups include internal, external, public, private and legislative audiences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 40295 SELECTED TOPICS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) (Slashed with MDJ 50295) Selected topics of special interest not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: School of Media and Journalism major or minor.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 41002 ADVANCED ADVERTISING COPYWRITING 3 Credit Hours
Advanced copywriting projects in print advertising and corporate communications and execution of the entire print advertising campaigns. A GPA of 2.700 is required in the major.
Prerequisite: MDJ 31002 and 31003 with a minimum C- grade; and minimum 2.000 overall GPA; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 41099 ADVERTISING CAMPAIGNS (ELR) 3 Credit Hours
Capstone course requires student teams to combine research, planning and execution into a single advertising campaign developed for a real world organization. A GPA of 2.700 is required in the major.
Prerequisite: Minimum C- grade in MDJ 31002 and MDJ 31003.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 41111 FASHION PUBLISHING 3 Credit Hours
Introduction to 21st Century Fashion publishing. An overview of the evolution of fashion magazines in print and digital formats, magazine entrepreneurs, the editors role, branding, advertising, circulation, writing and production.
Prerequisite: Minimum C- grade in MDJ 20004 or MDJ 23004 or MDJ 26001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 41192 PRACTICUM IN ADVERTISING AND PUBLIC RELATIONS (ELR) 3 Credit Hours
Designed to provide opportunities for students to engage in applied public relations and advertising projects in collaboration with faculty. This can include such things as competitions and practical experiential learning exercises with on-campus organizations. A 2.700 GPA in the major is required.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 41199 CAPSTONE: CAMPAIGNS IN ADVERTISING AND PUBLIC RELATIONS (ELR) 3 Credit Hours
Capstone course requires student teams to combine research, planning and execution into a single advertising and public relations campaign developed for a real world organization.
Prerequisite: Minimum C- grade in MDJ 31002 (and MDJ 31003) or MDJ 48001 (and MDJ 48002).
Pre/corequisite: Minimum C- in MDJ 48003.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 41395 SELECTED TOPICS IN ADVERTISING AND PUBLIC RELATIONS 1-3 Credit Hours
(Repeatable for credit) Selected topics of interest in advertising and public relations not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Advertising major (or minor) or public relations major (or minor).
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 43034 ADVANCED CINEMATOGRAPHY 3 Credit Hours
This course is designed to build upon the basic methodologies learned in Digital Cinematography. The class will provide a unique opportunity to deepen and advance a student's experience and knowledge in the realm of cinematography, both technically and artistically, and to hone their craft and skills through producing content under the supervision of a professional cinematographer, as it relates to producing content for film, documentaries, online and television broadcast.
Prerequisite: MDJ 33043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 43035 ADVANCED MULTIMEDIA NEWS 3 Credit Hours
In this course, students will participate in telling stories from the surrounding communities in Northeast Ohio. Students will have the opportunity to produce a variety of multimedia content including, video, photo, data visualizations, text, social media stories, live and studio shows. This multimedia content will be distributed online, for television and on social media platforms. Students will increase their skills in one or more areas and will be challenged to expand their skills as well. Though not required, students are encouraged to take MDJ 46003, before taking this course.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C- grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 43395 SELECTED TOPICS IN DIGITAL MEDIA PRODUCTION 1-3 Credit Hours
(Repeatable for credit) Selected topics of interest in digital media production not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Digital Media Production major or minor.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 44036 ADVANCED VIDEO EDITING 3 Credit Hours
In this class, students analyze and assemble dramatic scenes under a variety of conditions and narrative strategies. Editing theories, techniques and procedures, issues of continuity, effects, movement and sound are examined as they relate to the fundamentals of cinematic montage and visual storytelling. This class presents a variety of topics and experiences that are designed to broaden the student's understanding of the art of cinematic storytelling and montage. By the end of the course, students will know how to use Adobe Premiere Pro (CC) to edit their own videos. They will know the software well enough to apply similar techniques and concepts to other Non-Linear Editing systems. The course will also teach students the important role editing plays in telling a story visually as well as broaden their ability to edit their own projects inside and outside of school.
Prerequisite: MDJ 30036.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 44050 POST-PRODUCTION SOUND 3 Credit Hours
(Slashed with MDJ 54050) Creating post-production sound for visual productions, including digital cinema, television and video games.
Prerequisite: Minimum C- grade in MDJ 33033; and minimum C- grade in MDJ 30036 or MDJ 33043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 44055 SUAS AERIAL CINEMATOGRAPHY 3 Credit Hours
(Slashed with MDJ 54055) Prepares interdisciplinary non-aeronautics majors to operate Small Unmanned Aircraft Systems (sUAS) safely and ethically in news gathering, research, cinematography and other digital production.
Prerequisite: Minimum C- grade in MDJ 30036.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 45000 TELEVISION SPORTS GRAPHICS PRODUCTION 3 Credit Hours
Techniques in creating and preparing TV and video graphics for live sports events. A GPA of 2.700 is required in the major.
Prerequisite: Minimum 2.000 overall GPA; and a school of media and journalism major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MDJ 45001 ADVANCED LIGHTING FOR DIGITAL FILM AND TELEVISION 3 Credit Hours
(Slashed with MDJ 55001) Introduction to theory and technique of lighting for video production. Course includes critical analysis of video lighting situations, the various tools available to light various production locations, including interviews and multi-camera narrative scenes. A 2.700 major GPA is required to enroll in the course.
Prerequisite: Minimum C- grade in MDJ 20011; and School of Media and Journalism major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 45005 HISTORICAL DOCUMENTARY PRODUCTION 3 Credit Hours
(Slashed with MDJ 55005) Chronicles the evolution of the historical television documentary and demonstrates the step-by-step production process required to create such a program. Students research and assemble a documentary with an overall appreciation of this genre's purpose in both the television industry and the popular culture. Minimum 2.700 major GPA is required to enroll in the course.
Prerequisite: Minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 46003 PRODUCING TELEVISION NEWS 3 Credit Hours
This course will introduce students to the theory and practice of producing television news and information programs. Students will learn the news philosophies behind pacing, flow, news values and story selection, as well as the finer points of writing for a visual medium like television.
Prerequisite: MDJ 26001 or MDJ 20011 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 46009 REPORTING PUBLIC POLICY 3 Credit Hours
(Slashed with MDJ 56009) Students in this course will learn how to report on all areas of public affairs and societal issues such as, education, government, crime, social justice, and equality. Students will gain an understanding of how government works, and how policy decisions disproportionately affect the population. This course builds on preceding coursework by introducing students to more advanced reporting techniques including explorations of data and visualization tools.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C-grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 46020 MAGAZINE DESIGN 3 Credit Hours
(Slashed with MDJ 56020) Marriage of words and visuals for designing magazine layouts and covers in desktop publishing.
Prerequisite: Minimum C- grade in MDJ 20004 or MDJ 23004 or MDJ 26001.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 46021 ADVANCED MAGAZINE WRITING 3 Credit Hours
(Slashed with MDJ 56021) Great writing comes to us in many ways, just as magazines do now. No longer confined to the printed page, magazine-style writing has found a home in digital environments where the word counts are unlimited and the shareability infinite. Magazines are created for targeted (not general) audiences who want their magazines to inform, amaze, delight, challenge, inspire, connect, surprise and entertain them. We will read instructive magazine-style journalism from the past and present and study its structures, methods and styles. You will produce writing destined for magazines and other outlets that publish original, deeply reported journalism. Though not required, it is recommended that students take MDJ 36018 prior to taking this course.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C- grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 46030 AUDIO STORYTELLING AND PODCASTING II 3 Credit Hours
In this course, students will take the technical and practical skills mastered in Audio Storytelling and Podcasting I to develop and execute a long-form, narrative podcast. Students will learn how to produce a multi-episodic podcast through one-on-one meetings and edits with the instructor and classmates. Students will also learn the ins and outs of the podcast industry, from consumer behavior and industry trends to publishing, promoting and distributing the podcast.
Prerequisite: Minimum C- grade in MDJ 36020.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 46057 MOTION GRAPHICS FOR VIDEO EDITING 3 Credit Hours
(Slashed with MDJ 56057) Covers the creation of motion graphics for video editing from the perspective of a professional editor. Students learn basic video effects such as digital matte creation and layered graphics for video productions. Students also gain a basic understanding of how to convert and compress video files for various deliverable formats. Adobe After Effects is the industry standard software application for creating motion graphics and is used extensively in the course.
Prerequisite: MDJ 20011 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 46395 SELECTED TOPICS IN JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Selected topics of interest in journalism not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Journalism major or minor.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 47003 TEACHING HIGH SCHOOL JOURNALISM 3 Credit Hours
(Slashed with MDJ 57003) Methods and materials for teaching journalism in high school.
Prerequisite: Junior or senior standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 48001 MEDIA RELATIONS AND PUBLICITY (WIC) 3 Credit Hours
(Slashed with MDJ 58001) Strategic planning and tactical preparation of materials for use by the news media and for use by an organization's publics via owned media. The course explores the media relations function, including media monitoring, factual organizational storytelling and informal spokesperson training, along with analyzing the uses and limitations of traditional, digital and social media in public relations practice.
Prerequisite: Minimum C- grade in MDJ 26007 or MDJ 26008; and minimum C- in MDJ 38002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MDJ 48002 PUBLIC RELATIONS TACTICS 3 Credit Hours
(Slashed with MDJ 58002) Planning and preparation of face-to-face public relations tactics, including special event planning, speeches and presentations with visual support and other applications of "writing for the ear." Students learn about enhancing their personal brands through face-to-face, written and digital techniques.
Prerequisite: Minimum C- grade in MDJ 26001.
Pre/corequisite: Minimum C- grade MDJ 38002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 48003 DIGITAL PUBLIC RELATIONS AND SOCIAL MEDIA 3 Credit Hours
(Slashed with MDJ 58003) Explores the basic concepts behind the theory, strategic planning, design and creation of effective websites, blogs, videos, podcasts, and social media. Students study and apply hands-on skills using a full range of digital techniques including search engine optimization, web accessibility, user experience and writing for online audiences.
Prerequisite: Minimum C- grade in MDJ 20008 and MDJ 31007 and MDJ 38002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 48006 PUBLIC RELATIONS PUBLICATIONS 3 Credit Hours
(Slashed with MDJ 58006) Planning, writing and design of organizational publications, including newsletters, brochures, fliers, promotional mailers and websites. Course also explores the print production process.
Prerequisite: Minimum C- grade in MDJ 26001; and Public Relations major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 48099 CAPSTONE: PUBLIC RELATIONS CAMPAIGNS (ELR) 3 Credit Hours
Capstone course requires student teams to combine research, planning and execution into a single public relations campaign developed for a real world organization.
Prerequisite: Minimum C- grade in MDJ 48001 and MDJ 48002.
Pre/corequisite: Minimum C- grade in MDJ 48003.
Schedule Type: Project or Capstone, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 49099 PRODUCTION II (ELR) 3 Credit Hours
In this course, each student will bring together the creative, technical, and project management skills they acquired in prior coursework to conceive, produce, and edit a senior capstone video or multimedia project. Students are encouraged to share their finished work with faculty, peers and external audiences such as film festivals.
Prerequisite: A minimum C- grade in MDJ 34140; and senior standing.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 50006 LAW OF MEDIA AND JOURNALISM 3 Credit Hours
(Slashed with MDJ 40006) Students will explore how the law affects media content and the work of its practitioners. Students will learn to identify potential legal issues and apply that knowledge to specific situations likely confronted by working media professionals across a variety of media industries. Students will also gain an appreciation of the history of the First Amendment and examine the role protections for free expression play in a diverse American society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50012 ONLINE JOURNALISM 3 Credit Hours
Study and evaluation of online news and news sites; reporting and writing for online news media; design, production and maintenance of an online news site; ethical, legal and economic issues related to online news.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50017 MEDIA ENTERPRISE 3 Credit Hours
(Slashed with MDJ 40017) This course will expose students to the business side of the media industry by exploring management issues unique to media organizations and the impact of those issues on the organization's structure, economics and employees. Students will also study the process of monetizing and distributing multimedia content to targeted audiences through various delivery streams. Students will apply entrepreneurial thinking as they explore the importance of promotion, branding and social media in today's media marketplace.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50020 AUDIO AND STILL PHOTO PRODUCTION 3 Credit Hours
(Slashed with MDJ 40020) Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio.
Prerequisite: Media and journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50027 RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES 3 Credit Hours
(Slashed with MDJ 40027) To introduce students to the many facets of diversity in media through the eyes and perspectives of practitioners and audiences. This class takes a critical survey of messages directed at specific members of the mass audience and how these messages help shape the culture through historical, legal, economic, political, social and artistic influences. Media institutions are examined in terms of how and why diverse content is produced and distributed. Special attention is paid to increasing students' level of media literacy by examining these messages.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50037 SCRIPTWRITING FOR VIDEO AND FILM 3 Credit Hours
(Slashed with MDJ 40037) The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50201 PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS 1 Credit Hour
(Slashed with MDJ 40201) Provides a basic understanding of the public affairs role in public relations. Course specifically examines how external factors surrounding an organization can trigger disruption, opportunity, change, adaptation and evolution. Students explore techniques for anticipating, managing and adapting to or changing those forces. Primary attention is paid to environmental scanning, issue and stakeholder identification and management, lobbying, advocacy and ethical implications of public policy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 50202 PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION 1 Credit Hour
(Slashed MDJ 40202) Provides a basic understanding of the best practices of crisis planning, preparation, communication and management. Course focuses on the critical capabilities, team work and decision-making skills required of public relations practitioners during periods of intense organizational turbulence, crisis and reputational threat across numerous stakeholder groups. Those groups includ internal, external, public, private and legislative audiences.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 50295 SELECTED TOPICS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) (Slashed with MDJ 40295) Selected topics of special interest not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Media and journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 54050 POST-PRODUCTION SOUND 3 Credit Hours
(Slashed with MDJ 44050) Creating post-production sound for visual productions, including digital cinema, television and video games.
Prerequisite: Media and Journalism major; and graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 54055 SUAS AERIAL CINEMATOGRAPHY 3 Credit Hours
(Slashed with MDJ 44055) Prepares interdisciplinary non-aeronautics majors to operate Small Unmanned Aircraft Systems (sUAS) safely and ethically in news gathering, research, cinematography and other digital production.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 55001 ADVANCED LIGHTING FOR DIGITAL FILM AND TELEVISION 3 Credit Hours
(Slashed with MDJ 45001) Introduction to theory and technique of lighting for video production. Includes critical analysis of video lighting situations, the various tools available to light various production locations, including interviews and multi-camera narrative scenes.
Prerequisite: Media and Journalism major; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 55005 HISTORICAL DOCUMENTARY PRODUCTION 3 Credit Hours
Chronicles the evolution of the historical television documentary and demonstrates the step-by-step production process required to create such a program. Students research and assemble a documentary with an overall appreciation of this genre's purpose in both the television industry and the popular culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 56009 REPORTING PUBLIC POLICY 3 Credit Hours
(Slashed with MDJ 46009) Students in this course will learn how to report on all areas of public affairs and societal issues such as, education, government, crime, social justice and equality. Students will gain an understanding of how government works and how policy decisions disproportionately affect the population. This course builds on preceding coursework by introducing students to more advanced reporting techniques including explorations of data and visualization tools.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 56020 MAGAZINE DESIGN 3 Credit Hours
(Slashed with MDJ 46020) Marriage of words and visuals for designing magazine layouts and covers in desktop publishing.
Prerequisite: MDJ 56016; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 56021 ADVANCED MAGAZINE WRITING 3 Credit Hours
(Slashed with MDJ 46021) Great writing comes to us in many ways, just as magazines do now. No longer confined to the printed page, magazine-style writing has found a home in digital environments where the word counts are unlimited and the shareability infinite. Magazines are created for targeted (not general) audiences who want their magazines to inform, amaze, delight, challenge, inspire, connect, surprise and entertain them. We will read instructive magazine-style journalism from the past and present and study its structures, methods and styles. You will produce writing destined for magazines and other outlets that publish original, deeply reported journalism.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 56057 MOTION GRAPHICS FOR VIDEO EDITING 3 Credit Hours
(Slashed with MDJ 46057) Covers the creation of motion graphics for video editing from the perspective of a professional editor. Students learn basic video effects such as digital matte creation and layered graphics for video productions. Students also gain a basic understanding of how to covert and compress video files for various deliverable formats. Adobe After Effects is the industry standard software application for creating motion graphics and is used extensively in the course.
Prerequisite: Media and Journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 57003 TEACHING HIGH SCHOOL JOURNALISM 3 Credit Hours
(Slashed with MDJ 47003) Methods and materials for teaching journalism in high school.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 58001 MEDIA RELATIONS AND PUBLICITY 3 Credit Hours
(Slashed with MDJ 48001) Strategic planning and tactical preparation of materials for use by the news media and for use by an organization's publics via owned media. The course explores the media relations function, including media monitoring, factual organizational storytelling and informal spokesperson training, along with analyzing the uses and limitations of traditional, digital and social media in public relations practice.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 58002 PUBLIC RELATIONS TACTICS 3 Credit Hours
(Slashed with MDJ 48002) Planning and preparation of face-to-face public relations tactics, including special event planning, speeches and presentations with visual support and other applications of "writing for the ear." Students learn about enhancing their personal brands through face-to-face, written and digital techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 58003 DIGITAL PUBLIC RELATIONS AND SOCIAL MEDIA 3 Credit Hours
(Slashed with MDJ 48003) Explores the basic concepts behind the theory, strategic planning, design and creation of effective websites, blogs, videos, podcasts, and social media. Students study and apply hands-on skills using a full range of digital techniques including search engine optimization, web accessibility, user experience and writing for online audiences.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 58006 PUBLIC RELATIONS PUBLICATIONS 3 Credit Hours
(Slashed with MDJ 48006) Planning, writing and design of organizational publications, including newsletters, brochures, fliers, promotional mailers and websites. Course also explores the print production process.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60003 TEACHING JOURNALISM ETHICS 3 Credit Hours
Study of ethical problems of mass media in society; analysis of media policies; performance evaluation.
Prerequisite: Media and Journalism major and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60009 SOCIAL ROLE OF THE MASS MEDIA 3 Credit Hours
Application of professional, theoretical, historical, economic and political perspectives to examine the role of mass media in society both in terms of structure and function.
Prerequisite: Media and Journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60011 THEORY AND SOCIETAL ROLE OF MEDIA AND JOURNALISM 3 Credit Hours
(Slashed with MDJ 80011) "Social role" of media is not about social media. It is about the role of media in contemporary society. The two concepts are not the same. Instead of Tweeting and Facebooking, this course covers the historical and political roles of the media: responsibility to society through roles the media exhibit. Terms like gatekeeping, literacy, leadership and enabling citizen involvement are rooted in social responsibility and will be the focus in this course about how to empower the youth of today – who are the leaders of tomorrow – with media tools and ideas that best fulfill the historical and future roles society most needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60012 MEDIA LAW AND ETHICS 3 Credit Hours
(Slashed with MDJ 80012) In this course, students will develop an understanding of the rule of law and the American judicial system; origins of the First Amendment; First Amendment theory; the special case of scholastic journalism; Categories of speech; Censorship; Libel; Privacy; Information gathering; Social norms and the law; Intellectual property; Regulation of advertising and broadcasting; Theories of ethical decision making; Ethical decision-making tools.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60021 LITERARY JOURNALISM 3 Credit Hours
Research, interviewing, writing and marketing major magazine articles for online and print publications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60096 INDIVIDUAL INVESTIGATION IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Individual investigation of selected area or problem approved by graduate faculty.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Maximum of 3 hours may be applied to degree if school approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

MDJ 60195 SPECIAL TOPICS SEMINAR IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Study of selected topics of special interest in media and journalism not covered in depth in existing courses; offered as resources permit.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 60196 READINGS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Students pursue course of readings approved by instructor to cover a subject specialty in media and journalism they cannot obtain from formal course offerings.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MDJ 60295 SPECIAL TOPICS IN COMPUTER LAB 1-3 Credit Hours
(Repeatable for credit) Selected topics of special interest not covered in depth in existing courses; offered as resources permit.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 1-3 lab
Grade Mode: Standard Letter

MDJ 60299 THESIS II 2 Credit Hours
Thesis student must continue registration each semester until all degree requirements are met.
Prerequisite: MDJ 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MDJ 60399 MASTER'S PROFESSIONAL PROJECT 3 Credit Hours
Completion and defense of a substantial professional project in one of the fields of media and journalism.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MDJ 60701 ADVISING STUDENT MEDIA 3 Credit Hours
In this course, students learn that an adviser should advise, not edit or create content, and in learning this, students will discern the difference between the roles of adviser and student editor. Students will create sample forms, such as advertising contracts and beat sheets; develop a staff manual; and construct an editorial policy that values students' right to make content decisions.#They will also cover the challenges of dealing with other stakeholders, especially school administrators.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 61001 PRINCIPLES AND PRACTICES OF DIGITAL MEDIA 3 Credit Hours
Explores the history and philosophies of online communities and what makes them work. Examines how professionals integrate digital thinking into an organization's communication. Covers best practices for producing social media content that will lead to effective engagement.
Prerequisite: Media and Journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 64036 DIGITAL VIDEO EDITING 3 Credit Hours
Focus is on editing workflow and techniques for both non-fiction and fiction video production.
Prerequisite: Media and Journalism major; and graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 66010 SPECIALIZED REPORTING 3 Credit Hours
Newsgathering techniques in specialty areas such as politics, labor, medicine, business and technology techniques of team reporting.
Prerequisite: MDJ 56009; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 66011 REPORTING, WRITING AND EDITING FOR MEDIA 3 Credit Hours
This course is the foundation of all content for student media and shifts the emphasis of writing from creating for a teacher to creating for an audience. Focus will be on news values and how#these values guide#much of what and how journalists produce;#news gathering using both live and print sources; coaching, editing and revising to meet the needs and wants of the audience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 66092 INTERNSHIP IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Experience in a department or company involving supervised professional responsibilities in media and journalism.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 67067 TEACHING MEDIA LITERACY 3 Credit Hours
This course explores the foundations of media literacy, pedagogical applications in the journalism classroom, and its place among concomitant literacies (specifically media and information literacy). By emphasizing the importance of quality information, exploring changes and challenges to the news industry, and advocating for a critical consumer approach to news media, this course prepares journalism educators to better meet the needs of students in a digital world. Students in the course will also develop curriculum and lesson materials in media literacy topics for their own current and future classroom use.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 67075 MEDIA CONTENT CREATION 3 Credit Hours
Introduction to recognizing and producing some of the basic linear and non-linear journalistic multimedia tools used for content creation, including audio, video and still images.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 67085 TEACHING PHOTOJOURNALISM 3 Credit Hours
Examines the components of photojournalism and prepares instructors to teach those components to their students. In addition to traditional assignments and projects, instructors and students maintain a weekly dialog. Students gain the following skills necessary to teach their classes: basic operation of a digital camera, essential components of good photography, how to capture images that tell a story, strategies for covering news, features and sporting events as well as portraits and group shots, strategies for organizing and archiving images and ethical practices for capturing images and using them in publication work.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 67087 ADVISING YEARBOOK 3 Credit Hours
Students gain contextual information regarding yearbook roles in history and memory along with practical skills for recruitment, staff organization, staffing and production; and incorporating the creation of the yearbook into a classroom setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 80011 THEORY AND SOCIETAL ROLE OF MEDIA AND JOURNALISM 3 Credit Hours
(Slashed with MDJ 60011) "Social role" of media is not about social media. It is about the role of media in contemporary society. The two concepts are not the same. Instead of Tweeting and Facebooking, this course covers the historical and political roles of the media: responsibility to society through roles the media exhibit. Terms like gatekeeping, literacy, leadership and enabling citizen involvement are rooted in social responsibility and will be the focus in this course about how to empower the youth of today – who are the leaders of tomorrow – with media tools and ideas that best fulfill the historical and future roles society most needs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 80012 MEDIA LAW AND ETHICS 3 Credit Hours
(Slashed with MDJ 60012) In this course, students will develop an understanding of the rule of law and the American judicial system; origins of the First Amendment; First Amendment theory; the special case of scholastic journalism; categories of speech; censorship; libel; privacy; information gathering; social norms and the law; intellectual property; regulation of advertising and broadcasting; theories of ethical decision making; ethical decision-making tools.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 80195 SPECIAL TOPICS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours
(Repeatable for credit) Study of important topics in mass communication. Offered irregularly in response to existing interests and opportunities.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 88001 PUBLIC RELATIONS MANAGEMENT 3 Credit Hours
(Slashed with MDJ 68001) Perspectives, skills needed to manage an organization's PR function, particularly strategic planning, implementation and evaluation. Emphasis on managerial aspects of negotiating organizational relationships with the public.
Prerequisite: A major in the College of Communication and Information; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Medical Assisting (MA)

MA 10001 FUNDAMENTALS OF MEDICAL ASSISTING 1 Credit Hour
Introduction to the fundamental responsibilities and skills of the medical assistant, including concepts of medical asepsis, nutritional care, positioning and draping, vision and hearing screening. Emphasis is placed on incorporating knowledge of the role of the medical assistant, professional communication and associated ethical/legal considerations.
Prerequisite: AHS 24010 or HED 14020; and BSCI 10001 or BSCI 11010.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MA 10002 MEDICATION ADMINISTRATION FOR MEDICAL ASSISTANTS 1 Credit Hour
Course develops mathematical competence to safely administer medications via parenteral and non-parenteral routes of administration. Emphasis is placed on integrating knowledge of commonly used medications and principles of safe patient care and monitoring.
Prerequisite: AHS 24010 or HED 14020; and BSCI 10001 or BSCI 11010.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MA 10003 PHLEBOTOMY FOR MEDICAL ASSISTANTS 1 Credit Hour
Course provides students with foundational knowledge and skill development to identify principles and steps of specimen collection of blood samples and to incorporate quality assurance practices, standard precautions, infections control procedures and CLIA-waived testing.
Prerequisite: AHS 24010 or HED 14020; and BSCI 10001 or BSCI 11010.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MA 10004 ELECTROCARDIOGRAM FUNDAMENTALS FOR MEDICAL ASSISTANTS 1 Credit Hour
Course provides theory and practice for completion of 12 lead electrocardiogram and allows students to demonstrate recognition of normal electrocardiograms, procedural steps of the diagnostic test, application of the understanding of the cardiovascular system and concepts of safe patient care.
Prerequisite: AHS 24010 or HED 14020; and BSCI 10001 or BSCI 11010.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MA 10005 BASIC CLINICAL MEDICAL ASSISTING PROCEDURES 3 Credit Hours
Course provides students with a foundational overview and practice of basic procedures completed in the physician's office and outpatient health care settings. It incorporates concepts of critical thinking, safety, infection control and appropriate communication and patient education expected of the medical assistant during procedures. Emphasis is placed on laboratory testing, associated pathology, collection and processing of specimens aligned with the Occupational Health and Safety Administration (OSHA) and Clinical Laboratory Improvement Amendment (CLIA) regulations and guidelines as applicable. Laboratory testing includes basic urinalysis, microbiology testing, serological testing, hematology testing and point0of-care testing.
Prerequisite: AHS 24010 or HED 14020; and BSCI 10001 or BSCI 11010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MA 10006 REIMBURSEMENT FOR PHYSICIAN SERVICES 3 Credit Hours
Introduction to basic medical practice finances, including insurance forms, common terminology and basic coding processes used in the health care setting. Students understand the aspects of third-party reimbursement processes in the medical office.
Prerequisite: MA 10001 and MA 10002 and MA 10003 and MA 10004 and MA 10005 and OTEC 26635.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MA 10007 ADVANCED CLINICAL MEDICAL ASSISTING 4 Credit Hours
Course provides students with theory and practice of advanced procedures that medical assistants encounter or complete in outpatient health care settings, including physician offices and outpatient settings. It incorporates concepts of critical thinking, safety, infection control and appropriate communication during procedures. Students practice application of theory to various diagnostic tests and procedures in the following specialty areas: ophthalmology, otology, gastroenterology, genitourinary, obstetrics/gynecology, pediatrics, orthopedics, neurology, mental health, endocrinology and pulmonary.
Prerequisite: MA 10001 and MA 10002 and MA 10003 and MA 10004 and MA 10005 and OTEC 26635.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 4 lab
Grade Mode: Standard Letter

MA 10092 MEDICAL ASSISTING PRACTICUM (ELR) 3 Credit Hours
Capstone course in medical assisting with supervised clinical experience in an ambulatory healthcare setting. Students perform and participate in clinical and administrative activities that allow demonstration of knowledge and skills of a medical assistant. Minimum 160 clock hours. This course requires students to be at least 18 years of age.
Prerequisite: MA 10001 and MA 10001 and MA 10003 and MA 10004 and MA 10005 and OTEC 26635.
Pre/corequisite: MA 10006 and MA 10007.
Schedule Type: Practical Experience
Contact Hours: 10.66 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

Middle Childhood Education (MCED)

MCED 20000 LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION 3 Credit Hours
This course introduces Middle Childhood Education (MCED) teacher candidates to the cultural, community, social, emotional, cognitive, physical and moral development of early adolescents. It offers MCED candidates the opportunity to immerse themselves in a grades 4-9 clinical experience while exploring the experiences of early adolescence.
Prerequisite: CULT 29535.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MCED 30001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I 3 Credit Hours
Examine issues and trends in mathematics and mathematics education. Theories of the teaching and learning of mathematics will be addressed within the context of problem solving, communications, reasoning and connections with other disciplines.
Prerequisite: EPSY 29525; and MATH 14001 and MATH 14002; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 30002 INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD 3 Credit Hours
Introductory methods course integrating social studies and science. Emphasis on principles of teaching and learning as applied to teaching to social issues and problems appropriate for middle childhood students.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 31000 TEACHING AND LEARNING IN MIDDLE CHILDHOOD 3 Credit Hours
This course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planning, teaching strategies, assessment, classroom management, and effective classroom instructions. In a concurrent clinical field experience, teacher candidates will apply teaching methods in intermediate-middle school classrooms. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching internship will take place.
Prerequisite: Admission to advanced study; and middle childhood education major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MCED 40001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II 3 Credit Hours
To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-9 and develop skill in their use.
Prerequisite: MCED 30001; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40002 TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II 3 Credit Hours
This course is designed to provide pre-service teachers with meaningful and practical learning experiences that will prepare them to create effective science learning environments for grade 4-9 students. This course includes 40 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which clinical hours will take place.
Prerequisite: MCED 30002; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40003 TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II 3 Credit Hours
Advanced methods course. Examines the purpose of citizenship education and understanding the role of history and the social sciences. Applying the principles of powerful teaching. Includes a major field experience at the student teaching site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: MCED 30002; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40005 EFFECTIVE USE OF PHONICS IN READING 3 Credit Hours
The influence of theoretical perspectives on word identification instruction, an examination of the role of phonics in reading and writing strategies for effective phonics instruction and assessment.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40006 READING AND WRITING IN MIDDLE CHILDHOOD (WIC) 6 Credit Hours
Understanding of literacy learning in the middle childhood (classrooms grades 4-9) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment and teaching children who struggle as readers.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 6 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MCED 40007 TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD 3 Credit Hours
The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program.
Prerequisite: MCED 40006; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40045 TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5 3 Credit Hours
To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-5 and develop skill in their use.
Prerequisite: ECED 40147 with a minimum grade of C.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 41000 CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD 3 Credit Hours
This course is designed to enhance knowledge, skills, and dispositions about curriculum history and organization of middle level schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. Additionally, this course is also designed to extend knowledge, skills, techniques, and professional dispositions as related to middle school students' experiences, and differentiate curriculum and assessment for diverse learners. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching internship will take place.
Prerequisite: Admission to advanced study; and MCED 31000; and middle childhood education major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MCED 41192 MIDDLE CHILDHOOD EDUCATION GENERALIST PRACTICAL EXPERIENCE (ELR) 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within Middle Childhood Education Science or Social Studies.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MCED 42392 STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR) 9 Credit Hours
(Slashed with MCED 52392) Full-time student teaching for sixteen weeks in two selected concentrations (mathematics, science, language arts, social studies) and reading in grades 4-5 or grades 6-7-8. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: MCED 41000 and MCED 40007; and admission to advanced study.
Corequisite: MCED 49525.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MCED 46645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4 3 Credit Hours
Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 47745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5 3 Credit Hours
Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 49525 INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD 3 Credit Hours
A seminar linked to student teaching with an emphasis on action research as professional development; completion of professional portfolios; professional ethics; and legal, medical and ethical issues in teaching.
Prerequisite: MCED 41000 and MCED 40007.
Corequisite: MCED 42392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50002 TEACHING SCIENCE IN MIDDLE CHILDHOOD II 3 Credit Hours
(Slashed with MCED 40002) This course is designed to provide pre-service teachers with meaningful and practical learning experiences that will prepare them to create effective science learning environments for grade 4-9 students. This course includes 40 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which clinical hours will take place.
Prerequisite: MCED 30002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50003 TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II 3 Credit Hours
Advanced methods course. Examines the purpose of citizenship education and understanding the role of history and the social sciences. Applying the principles of powerful teaching. Includes a major field experience at the student teaching site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.
Prerequisite: MCED 30002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50005 EFFECTIVE USE OF PHONICS IN READING 3 Credit Hours
The influence of theoretical perspectives on word identification instruction, an examination of the role of phonics in reading and writing, strategies for effective phonics instruction and assessment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50006 READING AND WRITING IN MIDDLE CHILDHOOD 6 Credit Hours
Understanding of literacy learning in the middle childhood (classrooms grades 4-9) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment and teaching children who struggle as readers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 6 lecture
Grade Mode: Standard Letter

MCED 50007 TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD 3 Credit Hours
The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program.
Prerequisite: MCED 50006; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50045 TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5 3 Credit Hours
To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-5 and develop skill in their use.
Prerequisite: ECED 40147 with a minimum C grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 52392 STUDENT TEACHING IN MIDDLE CHILDHOOD 9 Credit Hours
(Slashed with MCED 42392) Full-time student teaching for sixteen weeks on an interdisciplinary team in two selected concentrations (mathematics, language arts, social studies, science) and reading in grades 4-9. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Graduate standing.
Corequisite: MCED 59525.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MCED 56645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4 3 Credit Hours
Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 57745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5 3 Credit Hours
Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 59525 INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD 3 Credit Hours
A seminar linked to student teaching with an emphasis on action research as professional development, completion of professional portfolios, professional ethics and legal, medical and ethical issues in teaching.
Prerequisite: CI 67107 and MCED 50007 with a minimum C grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 60115 SCIENCE TECHNOLOGY ENGINEERING AND MATH FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION 3 Credit Hours
(Cross-listed with ECED 60115) This course introduces early and middle childhood educators to STEM (Science, Technology, Engineering, Mathematics) for students in K-6 classrooms. This includes a foundation and overview of the what, how, and why STEM is included in K-6 classrooms. As a foundation course, students will gain exposure to integrating the STEM disciplines, assessment of mathematics and science in STEM, and aspects of developmentally appropriate STEM for early and middle childhood settings.
Prerequisite: ECED 50404 and ECED 50304 and ECED 50303; and graduate standing.
Pre/corequisite: ECED 50203.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Military Science (MSCI)

MSCI 10180 INTRODUCTION TO LEADERSHIP I 1 Credit Hour
Focuses on introduction to the Army and basic Soldier skills. It introduces Cadets to the Army and the Profession of Arms. Students will examine the Army Profession and what it means to be a professional in the U.S. Army. The overall focus is on developing basic knowledge and understanding of the Reserve Officers' Training Corps (ROTC) program, its purpose in the Army field environment to support their development as an Army leader. Included is a weekly lab facilitated by MSIII Cadets, supervised by MSIV's and cadre.
Corequisite: MSCI 10191.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MSCI 10185 INTRODUCTION TO LEADERSHIP II 1 Credit Hour
Introduces Cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn personal development of life skills such as critical thinking, time management, goal setting and communication. Cadets learn the basics of the communications process and the importance for leaders to develop the essential skills to effectively communicate in the Army. Cadets will begin learning the basics of squad level tactics that will be reinforced during a weekly lab facilitated by MSIII Cadets and supervised by MSIV's and Cadre.
Corequisite: MSCI 10191.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MSCI 10191 LEADERSHIP SEMINAR I 1 Credit Hour
(Repeatable for a total of 2 credit hours) Instructional program preparing individuals to undertake the broad range of tasks associated with the dimensions of leadership. Stresses decision-making roles of leaders in planning and executing organizational programs.
Corequisite: MSCI 10180 or MSCI 10185.
Schedule Type: Field Experience, Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

MSCI 10195 SPECIAL TOPICS IN MILITARY SCIENCE 1-3 Credit Hours
(Repeatable for credit) Variable topics in military science.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MSCI 20181 LEADERSHIP ASSESSMENT I 2 Credit Hours
This course focuses on leadership and ethics. The course adds depth to the Cadets' knowledge of the different leadership styles. Cadets will conduct a leadership analysis of famous leaders and self-assessment of their own leadership style. The Army Profession is also stressed through understanding values, ethics and how to apply both to different situations they may encounter as a leader. Army Values and Ethics and their relationship to the Law of Land Warfare and philosophy of military service are also stressed. Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during a weekly lab facilitated by MSIII cadets, supervised by MSIV's and Cadre.
Corequisite: MSCI 20191.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MSCI 20183 LEADERSHIP ASSESSMENT II 2 Credit Hours
This course focuses on Army Doctrine and Decision Making. The course begins with analytical techniques, creative thinking skills and the Army problem solving process as related to situations faced by leaders when making decisions. TLPs and OPORD will lead Cadets to an understanding of Army Doctrine and Symbology. Squad tactics will be covered in classes on Unified Land Operations, Offensive Operations and Defensive Operations. Cadets are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during a weekly lab facilitated by MSIII Cadets and supervised by MSIV's and Cadre.
Corequisite: MSCI 20191.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MSCI 20191 LEADERSHIP SEMINAR II 1 Credit Hour
(Repeatable for a total of 2 credit hours) Instructional program preparing individuals to undertake the broad range of tasks associated with the dimensions of leadership. Stresses decision-making roles of leaders in planning and executing organizational programs.
Corequisite: MSCI 20181 or MSCI 20183.
Schedule Type: Field Experience, Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

MSCI 20195 SPECIAL TOPICS IN MILITARY SCIENCE 1-3 Credit Hours
(Repeatable for credit) Variable topics in military science.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MSCI 20196 INDIVIDUAL RESEARCH 1-2 Credit Hours
(Repeatable for credit) Individual research projects in leadership, management techniques and mode program. Used only for selected personnel for entry into the advanced program.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-2 other
Grade Mode: Standard Letter

MSCI 30160 LEADERSHIP DEVELOPMENT 2 Credit Hours
This course is an academically challenging course where students will study, practice and apply the fundamentals of Army Leadership, the Profession, Army Values and Ethics, Personal Development and small unit tactics at the platoon level. At the conclusion of this course, students will be capable of planning, coordinating, navigating, motivating and leading a squad and platoon in the execution of a mission during a classroom PE, a Leadership Lab, or during a Field Training Exercise (FTX). Students will be required to write peer evaluations and receive feedback on their abilities as a leader and how to improve those leader skills that can further develop you into a successful officer. This course includes reading assignments, homework assignments, small group assignments, briefings, case studies and practical exercises, a mid-term exam, and a final exam. You will receive systematic and specific feedback on your leader attributes, values and core leader competencies from your instructor, other ROTC cadre and MSIV cadets who will evaluate you using the Cadet Officer Evaluation System (COER). Successful completion of this course will help prepare you for the SROTC Advanced Camp, which you will attend in the Summer at Fort Knox, KY.
Prerequisite: Special approval.
Corequisite: MSCI 30191.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MSCI 30170 ORGANIZATIONAL LEADERSHIP 2 Credit Hours
This course focuses on applied leadership in small unit operations. It is an academically challenging course where students will study, practice and apply the fundamentals of direct level leadership and small unit tactics at the platoon level. At the conclusion of this course, students will be capable of planning, coordinating, navigating, motivating and leading a platoon in the execution of a mission. Includes a lab per week using peer facilitation overseen by MSIVs, supervised by ROTC Cadre. Successful completion of this course will help prepare students for the Cadet Summer Training Advance Camp, which students will attend in the summer at Fort Knox, KY.
Prerequisite: Special approval.
Corequisite: MSCI 30191.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MSCI 30180 AMERICAN MILITARY OPERATIONS 3 Credit Hours
History of the United States Army from colonial times through the global war on terrorism.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MSCI 30191 LEADERSHIP SEMINAR III 1 Credit Hour
(Repeatable for credit) Instructional program preparing individuals to undertake the broad range of tasks associated with the dimensions of leadership stresses decision-making roles of leaders in planning and executing organizational programs.
Corequisite: MSCI 30160 or MSCI 30170.
Schedule Type: Field Experience, Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

MSCI 30195 SPECIAL TOPICS IN MILITARY SCIENCE 1-3 Credit Hours
(Repeatable for credit) Variable topics in military science.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MSCI 40160 MILITARY MANAGEMENT AND ETHICS 2 Credit Hours
This course focuses on development of the Army Officer. It is an academically challenging course where students will develop knowledge, skills and abilities to plan, resource and assess training at the small unit level. Students will also learn about Army programs that support counseling subordinates and evaluating performance, values and ethics, career planning, and legal responsibilities. At the conclusion of this course students will be familiar with how to plan, prepare, execute and continuously assess the conduct of training at the company or field grade officer level. Includes a lab per week overseeing MSIII lesson facilitation and supervised by ROTC Cadre. Three hours lecture and leadership lab MSCI 40191 per week.
Prerequisite: Special approval.
Corequisite: MSCI 40191.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MSCI 40170 THE PROFESSIONAL MILITARY OFFICER, MANAGEMENT AND LAW 2 Credit Hours
This course focuses on professional competence, adaptability, teamwork, critical thinking and the final preparation for commissioning as an Army Lieutenant. There is a combination of courses and labs that focus on leadership, professional competence, adaptability, teamwork and the Army profession to further your leader development and preparation as a future Army leader. This semester is the last one left for us to directly assist students in their pursuit of becoming a future military leader. This last semester of ROTC is an opportunity for students to dedicate themselves to do everything they can to mentally prepare themselves for their upcoming commissioning and their entry into our profession.
Prerequisite: Special approval.
Corequisite: MSCI 40191.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MSCI 40191 LEADERSHIP SEMINAR IV 1 Credit Hour
(Repeatable for credit)Instructional program preparing individuals to undertake the broad range of tasks associated with the dimensions of leadership. Stresses decision-making roles of leaders in planning and executing organizational programs.
Corequisite: MSCI 40160 or MSCI 40170.
Schedule Type: Field Experience, Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

MSCI 40195 SPECIAL TOPICS IN MILITARY SCIENCE 1-3 Credit Hours
(Repeatable for credit) Variable topics in military science.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MSCI 40196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit)Individual research projects, reports and readings.
Prerequisite: Advanced program standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Modern and Classical Language Studies (MCLS)

MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS 3 Credit Hours
Prepares students for successful study of a foreign language; includes introduction to basic grammatical concepts such as use of verb tenses, personal pronouns, etc., as well as strategies for learning a foreign language efficiently.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 10095 SPECIAL TOPICS IN ELEMENTARY FOREIGN LANGUAGE STUDY 1-3 Credit Hours
(Repeatable for credit) Study of a foreign language at the elementary level (Elementary I or II) or intermediate level (Intermediate I or II) as determined appropriate by the department. No proficiency needed for work at the Elementary I level; proficiency equivalent of Elementary I for work at the Elementary II level, at Elementary II for the Intermediate I level, and at Intermediate I for the Intermediate II level.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MCLS 14421 INTRODUCTION TO YIDDISH LANGUAGE AND CULTURE 3 Credit Hours
This course is an introduction to the Yiddish language and the culture of Eastern European Jewry. The objectives of the course are twofold. The first is linguistic. Students should be able to read and write basic Yiddish and understand the fundamentals of Yiddish grammar. The second important objective of this course is to offer students an introduction to the richness of Yiddish culture of the past two centuries. This component of the course will include lectures and readings in English, films (documentary and dramatic), poetry, short fiction along with folk tales in English translation and the singing of Yiddish folk songs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 20001 GLOBAL LITERACY AND CULTURAL AWARENESS (KADL) 3 Credit Hours
Introduction to dimensions of cultural identity and parameters of cultural expression, with a focus on fostering cultural awareness skills. By exploring the ways in which culture shapes us, students gain a better understanding of the dynamics shaping their world, the world of others, and their respective places in it. Discussion of real-world critical incidents, authentic cultural ethnographies, and case studies provide students with concrete examples and contexts to solve problems linked to encounters with persons of different linguistic and cultural backgrounds.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Additional

MCLS 20089 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) A study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. This course includes some language skill development content during the international experience, varying as appropriate on a case by case basis.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES 3 Credit Hours
(Repeatable for credit) In-depth study of the interaction between two or more cultures of the world, focusing on the impact of linguistic and other cultural differences. Topics will vary.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG) 3 Credit Hours
This course examines how issues of diversity have shaped German culture and traces the country's transformation into a postnational, multicultural society. Taught in English; knowledge of German not necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

MCLS 21420 WOMEN OF ARAB SOCIETIES 3 Credit Hours
This course will consider questions and lead to fruitful discussions about the changing roles and representation of women in contemporary Arab societies. It will highlight the social forces behind Arab women's status in society. It will also enable a better understanding of how Arab women are perceived in local, regional, and global contexts. The course is taught in English, does not presume prior knowledge in Arabic, and is open to all students in any program.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 22217 DIVERSITY IN TODAY'S RUSSIA (DIVG) 3 Credit Hours
This course examines how issues of diversity have shaped Russian culture and traces Russia's attempts at transition to a postnational, multicultural society. Taught in English; knowledge of Russian not necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

MCLS 28403 HISPANICS IN THE UNITED STATES 3 Credit Hours
An introduction to historic and cultural aspects of Latino experiences in the United States using a comparative approach focusing on Mexicans, Puerto Ricans, Cubans, Central Americans and other immigrants from other Latin American countries, living in the United States. The course is taught in English.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG) 3 Credit Hours
An introduction to various aspects of contemporary Latin American societies and cultures. Taught in English; knowledge of a foreign language is not necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

MCLS 30089 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) A Kent State faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. This course includes some language skill development content during the international experience, varying as appropriate on a case by case basis.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MCLS 30096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual research on a topic dealing with modern and classical language topics carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

MCLS 30420 FOREIGN LANGUAGES AND CULTURE STUDIES 3 Credit Hours
Examines the anthropological, linguistic and cultural dimensions involved in language interactions. Students acquire the skills necessary to analyze language and culture "in action" from verbal and non-verbal perspectives, and to identify and reflect on the distinctive viewpoints of other cultures and speakers of other languages. Interactive lectures, discussions and application activities build on students' current linguistic and cultural competence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 30660 ORIENTATION TO SECOND LANGUAGE PEDAGOGY 3 Credit Hours
Theories of human development and learning, second language acquisition research and second language methodology form the basis for classroom practices. Peer-teaching and 30 hours of field experience required.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 39597 INTRADEPARTMENTAL COLLOQUIUM 1-4 Credit Hours
(Repeatable for credit)Permits students to explore areas of special interest not usually covered in standard departmental courses, e.g. movies and literature, women in literature.
Prerequisite: None.
Schedule Type: Colloquium
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MCLS 40093 VARIABLE TITLE WORKSHOP IN MODERN AND CLASSICAL LANGUAGE STUDIES 1-6 Credit Hours
(Repeatable for credit)Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies.
Prerequisite: Departmental special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MCLS 40095 SELECTED TOPICS 1-3 Credit Hours
(Repeatable for credit when topic varies) Topic to be announced in the schedule of classes.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MCLS 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual research on a topic dealing with modern and classical language topics carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

MCLS 40510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with CS 40510)(Slashed with CS 50510, CS 70510, MCLS 50510 and MCLS 70510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 40525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
Foreign language teaching as a profession and the teacher as disciplined investigator. The final seminar of four it is conducted during the student teaching semester with emphasis on collaborative and individual classroom problem solving.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 40654 TECHNOLOGY AND SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Slashed with MCLS 50654) During this course, students explore the use of current technology, its implementation in the classroom and its integration with second language skills. This course is designed for future teachers or any student interested in technology and second language acquisition.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 40660 METHODS OF TEACHING FOREIGN LANGUAGE 3 Credit Hours
Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels. Peer-teaching and 30 hours of field experience required.
Prerequisite: MCLS 30660; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 40692 STUDENT TEACHING OF A SECOND LANGUAGE (ELR) 3-9 Credit Hours
(Repeatable for credit) Supervised practicum in the teaching of a second language, grades K-12.
Prerequisite: MCLS 30660 and MCLS 40660; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MCLS 50093 VARIABLE TITLE WORKSHOP IN MODERN AND CLASSICAL LANGUAGE STUDIES 1-6 Credit Hours
(Repeatable for credit)Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MCLS 50095 SELECTED TOPICS 1-3 Credit Hours
(Repeatable for credit when topic varies)Topic to be announced in the schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MCLS 50510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with CS 50510)(Slashed with CS 40510, CS 70510, MCLS 40510 and MCLS 70510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 50654 TECHNOLOGY AND SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Slashed with MCLS 40654) During this course, students explore the use of current technology, its implementation in the classroom and its integration with second language skills. This course is designed for future teachers or any student interested in technology and second language acquisition.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 50660 METHODS OF TEACHING FOREIGN LANGUAGES 3 Credit Hours
Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels. Peer teaching 30 hours of field experience and curriculum guide required.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60094 COLLEGE TEACHING OF FOREIGN LANGUAGES 1 Credit Hour
(Repeatable for credit)An introduction to current principles and issues in the teaching of foreign languages at the college elementary and intermediate levels. Required of departmental teaching assistants.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

MCLS 60098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic related to modern and classical language studies carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

MCLS 60330 APPROACHES TO LITERATURE AND CULTURE 3 Credit Hours
Introduction to the major critical theories used for the analysis of literature and culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60601 LINGUISTICS FOR THE LANGUAGE PROFESSIONS 3 Credit Hours
(Cross-listed with ENG 63040) Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60622 TEACHING LITERATURE AND CULTURE 3 Credit Hours
(Cross-listed with ENG 63038) Students explore theories of literature and culture teaching as well as strategies for teaching literature and culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60623 SOCIOCULTURAL THEORY AND FOREIGN AND SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Cross-listed with ENG 63048) The foundations of sociocultural theory and its applications to the second and foreign language classroom.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60624 HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING 3 Credit Hours
(Cross-listed with ENG 63047) Theory and practice in language education of heritage language speakers. Ethnic, minority, ancestral, and community languages and language practices will be explored with implications for second and additional language learning in English, foreign language, bilingual education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60625 SOCIOLINGUISTICS 3 Credit Hours
(Cross-listed with ENG 63034)(Slashed with ENG 73034) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60661 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Slashed with ENG 63033 and ENG 73033) This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60663 SECOND LANGUAGE CURRICULUM AND ASSESSMENT 3 Credit Hours
(Cross-listed with ENG 63039) Students study second language curriculum and assessment design and current issues, including oral proficiency testing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60664 SECOND LANGUAGE READING 3 Credit Hours
(Cross-listed with ENG 63044) This course addresses a wide variety of topics related to second language reading, including theoretical perspectives, the process of learning to read, models of how reading happens, comprehension, fluency, discourse structures, strategy use, and vocabulary acquisition. Teaching issues related to second language reading will also be addressed directly, namely assessment and curriculum building.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60665 SECOND LANGUAGE WRITING 3 Credit Hours
(Cross-listed with ENG 63043) Theory and practice in teaching second language writing. Topics will include current and historic approaches to second language writing, approaches to tutoring international students in writing centers, teacher and peer response, error correction and technology in second language writing instruction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 63049 SECOND LANGUAGE RESEARCH METHODS 3 Credit Hours
(Cross-listed with ENG 63049) This course provides students with skills for reading, interpreting and conducting research studies investigating second/foreign language teaching, learning and/or use. Students learn about quantitative and qualitative research methods commonly used in second language research. Students also conduct a research project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 70510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with CS 70510)(Slashed with CS 40510, CS 50510, MCLS 40510 and MCLS 50510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Multidisciplinary Social Sciences and Humanities (MSSH)

MSSH 20071 INTRODUCTION TO GENDER AND SEXUALITY STUDIES 3 Credit Hours
Provides an introduction to the interdisciplinary study of gender and sexuality, with particular focus on the tenants of the field (e.g., intersectionality, anti-oppression, social justice).
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MSSH 30171 THEORIES OF GENDER AND SEXUALITY 3 Credit Hours
Provides students the opportunity to explore in finer detail the theories and approaches used in the study of gender and sexuality (including feminisms, queer theory, critical theories, intersectionality, anti-oppression, social justice), and to address the influence of such theoretical approaches in further research on the subjects of gender and sexuality and by informing social change and deliberations by individuals and movements concerning gender and sexuality.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MSSH 40089 STUDY ABROAD (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) A Kent State faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MSSH 40090 STUDY AWAY (ELR) 1-4 Credit Hours
(Repeatable for credit) Faculty-led and other study away opportunities in the School of Multidisciplinary Social Sciences and Humanities.
Prerequisite: None.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MSSH 40092 INTERNSHIP (ELR) 1-6 Credit Hours
(Repeatable for credit) In consultation with a faculty member, the student arranges a substantive internship in a relevant area. The student also typically provides a journal of the experience, as well as a written analysis comparing the practice of the internship to an example of relevant scholarship in the area.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MSSH 40095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Topics vary depending on instructor and current interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

Music (MUS)

MUS 11110 MUSIC FUNDAMENTALS 3 Credit Hours
Introduction to the pitch and rhythmic aspects of music. Emphasis on aural skills and music notation. Prepares students for MUS 11111. No credit toward graduation for music majors or minors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 11111 MUSIC RUDIMENTS 3 Credit Hours
Introduction to the pitch and rhythmic aspects of music. Emphasis on aural/oral skills and music notation.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MUS 11121 THEORY I 4 Credit Hours
Basic elements of music--harmonic, melodic, rhythmic--studied through analysis, composition, keyboard and ear training. Diatonic materials emphasized.
Prerequisite: Music Theory Placement Test, score of 02.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 11122 THEORY II 4 Credit Hours
Continuation of basic elements of music--harmonic, melodic, rhythmic--studied through analysis, composition, keyboard, singing and ear training. Chromatic materials emphasized.
Prerequisite: MUS 11121 with a C grade.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 16000 APPLIED MUSIC 1 Credit Hour
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower-division study. Individual study. An audition is required. This course is not part of the ODHE Transfer Assurance guides.
Prerequisite: Music major or minor; and special approval.
Schedule Type: Private Lesson
Contact Hours: .5 other
Grade Mode: Standard Letter

MUS 16001 APPLIED MUSIC JAZZ 1 Credit Hour
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower-division jazz study. Individual study. An audition is required. This course is not part of the ODHE Transfer Assurance Guides.
Prerequisite: Jazz Studies minor or non-music major; and special approval.
Schedule Type: Private Lesson
Contact Hours: .5 other
Grade Mode: Standard Letter

MUS 16914 ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles.
Prerequisite: None.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 16915 ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles.
Prerequisite: None.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 17011 PIANO CLASS FOR NONMUSIC STUDENTS 2 Credit Hours
Development of basic skills required in playing piano, including familiarity with the keyboard and music notation.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 17012 PIANO CLASS FOR NONMUSIC STUDENTS 2 Credit Hours
Development of basic skills required in playing piano, including familiarity with the keyboard and music notation.
Prerequisite: MUS 17011.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 17013 FUNDAMENTALS OF JAZZ PIANO 1 Credit Hour
Focus on the fundamentals of jazz piano chord voicings and accompanying, playing scales related to jazz theory and learning jazz repertoire on the piano. Additional skills related to becoming a well-rounded jazz improviser, composer and educator.
Prerequisite: MUS 17111 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 17111 PIANO CLASS I 1 Credit Hour
Preparatory piano. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 17112 PIANO CLASS II 1 Credit Hour
Preparatory piano. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation.
Prerequisite: MUS 17111 with a minimum C grade; and special approval.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 17512 WIND TECHNIQUES I 1 Credit Hour
Study of fundamental performance and pedagogical aspects of woodwind instruments. Content includes performance skill development and exposure to materials suitable for class and private instruction at the elementary and secondary school levels.
Prerequisite: Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 18611 SINGER'S DICTION I 1 Credit Hour
Foundational training and performance practice in phonetics and singing diction for the vocal repertoire of English, Italian and selected other languages.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 18612 SINGER'S DICTION II 1 Credit Hour
Foundational training and performance practice in phonetics and singing diction for the vocal repertoire of French, German and selected other languages.
Prerequisite: MUS 18611 with a C grade; and music major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 20295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours
(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MUS 21111 THEORY III 4 Credit Hours
Study of Western art music from the sixteenth through eighteenth centuries. Emphasis on analytical, aural, compositional, and keyboard components of music theory.
Prerequisite: MUS 11122 with a minimum C grade.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 21112 THEORY IV 4 Credit Hours
Study of Western art music from the nineteenth and early twentieth centuries. Emphasis on analytical, aural, compositional and keyboard components of music theory.
Prerequisite: MUS 21111 with a minimum C grade.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 21113 MUSIC PRODUCTION I 3 Credit Hours
A practical introduction to digital audio production, study of basic computer assisted recording, editing and music production.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 21114 MUSIC PRODUCTION II 3 Credit Hours
A practical study of computer-assisted composition and arranging covering MIDI, sequencing, synthesis, sampling and video synchronization.
Prerequisite: MUS 21113 and MUS 21221 with a minimum C grade; and Music Technology major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 21213 CLASS COMPOSITION I 2 Credit Hours
Introduction to beginning concepts involved with composing. Students in non-music majors may register for the course with departmental approval.
Prerequisite: Music major, Music Education major or Music Technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 other
Grade Mode: Standard Letter

MUS 21214 CLASS COMPOSITION II 2 Credit Hours
Application of beginning concepts involved with composing.
Prerequisite: Minimum C grade in MUS 21213.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 other
Grade Mode: Standard Letter

MUS 21221 AUDIO RECORDING I 3 Credit Hours
A study of fundamental studio recording technology, theory and techniques, including signal flow, microphone theory, the human auditory system, analog audio consoles and standard industry digital audio workstations (DAWs).
Prerequisite: MUS 21113 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 21222 AUDIO RECORDING II 3 Credit Hours
A continuation of audio theory and techniques addressed during MUS 21221. This includes study of the decibel, digital audio theory, microphone techniques and fundamental multitrack recording techniques, as well as DAW session setup, file management and recording session etiquette.
Prerequisite: MUS 21221 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 21341 CONTEMPORARY POPULAR MUSIC THEORY 3 Credit Hours
Application of the knowledge gained from music theory (MUS 11121 and MUS 11122) to the study of popular music through practical applications, particularly with regard to composition and improvisation.
Prerequisite: MUS 11122 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 22111 UNDERSTANDING WESTERN MUSIC (KFA) 3 Credit Hours
A listening approach for the understanding of Western art music, folk and jazz. Particular attention is paid to musical style forms and compositional techniques as related to music history.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts, Transfer Module Fine Arts

MUS 22121 MUSIC AS A WORLD PHENOMENON (DIVG) (KFA) 3 Credit Hours
An introduction to music as a world phenomenon. Study of selected art, folk and popular music from world cultures through live performances, tapes, films, video tapes and readings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

MUS 22131 SURVEY OF ROCK MUSIC HISTORY (DIVD) 3 Credit Hours
A survey of Rock Music History from the 1950s through the twentieth century to today. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Modern media, especially the Internet, is an integral component of the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

MUS 23241 MUSIC TEACHING AS A PROFESSION 2 Credit Hours
Basic teaching strategies and techniques; an overview of music teaching as a career; diversity, integration, curriculum technology, classroom management, legal issues, personal skills and portfolio. Twenty (20) field hours required.
Prerequisite: Music or music education major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 25011 UNIVERSITY CHORUS 1 Credit Hour
(Repeatable for credit) Choral ensemble which studies and performs sacred and secular music for mixed voices. Activities include performance on and off campus.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 25225 UNIVERSITY BAND 1 Credit Hour
(Repeatable for credit) Study and performance of music literature for wind band appropriate for music majors and non-majors.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

MUS 25311 CHAMBER MUSIC 1 Credit Hour
(Repeatable for credit) The study and performance of music for small ensembles.
Prerequisite: Permission.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

MUS 26111 APPLIED MUSIC PIANO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Must Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 26311 APPLIED MUSIC VOICE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 26411 APPLIED MUSIC - VIOLIN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26412 APPLIED MUSIC - VIOLA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26413 APPLIED MUSIC - CELLO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26414 APPLIED MUSIC DOUBLE BASS 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 26511 APPLIED MUSIC - FLUTE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26512 APPLIED MUSIC - OBOE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26513 APPLIED MUSIC - CLARINET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26514 APPLIED MUSIC - BASSOON 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26515 APPLIED MUSIC - SAXOPHONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26611 APPLIED MUSIC - TRUMPET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26612 APPLIED MUSIC - HORN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26613 APPLIED MUSIC - TROMBONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26614 APPLIED MUSIC - EUPHONIUM 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26615 APPLIED MUSIC - TUBA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26711 APPLIED MUSIC PERCUSSION 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 26912 APPLIED MUSIC GUITAR 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 27111 PIANO CLASS III 2 Credit Hours
Continuation of piano classes. Credit acceptable on music major and minor sequences.
Prerequisite: MUS 17112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 27112 PIANO CLASS IV 2 Credit Hours
Continuation of piano classes. Credit acceptable on music major and minor sequences.
Prerequisite: MUS 27111 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 27512 WIND TECHNIQUES II 1 Credit Hour
Study of fundamental performance and pedagogical aspects of brass instruments. Content includes performance skill development and exposure to materials suitable for class and private instruction at the elementary and secondary school levels.
Prerequisite: Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 27513 PERCUSSION TECHNIQUES 1 Credit Hour
Study of various percussion instruments (mallets, snare drum, timpani and auxiliary) and techniques of performance. Designed for music educators with no previous percussion experience.
Prerequisite: Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 31113 MUSIC PRODUCTION III 3 Credit Hours
Continuation of MUS 21114. Advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on arranging.
Prerequisite: Minimum C grade in the following courses: MUS 11121 and MUS 21114 and MUS 21222.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 31114 MUSIC PRODUCTION IV 3 Credit Hours
Continuation of Music Production III. Arranging for acoustic and electronic instruments as applied to music production. Development of MIDI programming skills and use of sample sets.
Prerequisite: MUS 31113 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 31211 COMPOSITION 2-4 Credit Hours
(Repeatable for credit) Original composition for instrumental and vocal solos and small ensembles using shorter musical forms.
Prerequisite: MUS 21214 with a minimum C grade; and Music major or Music Education major.
Schedule Type: Private Lesson, Studio
Contact Hours: 7.5-15 other
Grade Mode: Standard Letter

MUS 31221 AUDIO RECORDING III 3 Credit Hours
A study of advanced recording and record production techniques. Topics include pre-production planning, instrument-specific single and multi-mic techniques, re-amping and other techniques.
Prerequisite: Minimum C grade in the following courses: MUS 11121 and MUS 21114 and MUS 21222.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 31222 AUDIO RECORDING IV 3 Credit Hours
A detailed study of the tools, techniques and critical listening decisions required in creating a professional audio mx.
Prerequisite: MUS 31221 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 31230 GUITAR TECHNOLOGY 2 Credit Hours
Lectures, demonstrations and hands-on assignments geared to develop basic maintenance skills and an understanding of the different types of amps and common outboard effects.
Prerequisite: MUS 21114.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 31260 VOCAL PERFORMANCE TECHNIQUES 2 Credit Hours
Students will learn to use technology to explore their personal artistic creativity and design and market themselves as a performer. Students will have the opportunity to practice and perform with various accompaniments in all current genres and styles. Microphone techniques will also be studied.
Prerequisite: MUS 21114.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 32211 WESTERN MUSIC HISTORY I 3 Credit Hours
A study of Western music history from the early Christian chants through early classical style.
Prerequisite: MUS 11122 with a minimum C grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 32212 WESTERN MUSIC HISTORY II (WIC) 3 Credit Hours
A study of Western music history from the classical style period to the present.
Prerequisite: MUS 32211 with a minimum C grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MUS 32230 NAVIGATING THE MUSIC INDUSTRY 3 Credit Hours
An overview and study of the music industry. Current practices are examined including artist contracts, music copyright and licensing, and revenue flow from music consumers to content creators. Special emphasis is placed on entrepreneurial activity within the music industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 33211 ELEMENTARY AND SECONDARY GENERAL MUSIC 4 Credit Hours
Kodaly, Orff, Dalcroze and current strategies appropriate for early childhood K-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience in the teaching of general music in the schools. Forty (40) field hours required.
Prerequisite: Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and junior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 1 lab
Grade Mode: Standard Letter

MUS 33214 MUSIC EDUCATION TECHNOLOGY TECHNIQUES 1 Credit Hour
The application of technologies specific to music instruction and learning for music education majors. Emphasis is placed on project-based instruction focusing on the practical uses of technology in school settings. Engagement in standard arranging practices and arranging music for various school settings.
Prerequisite: Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 33231 ELEMENTARY AND SECONDARY CHORAL MUSIC 4 Credit Hours
Methods, materials, and literature used in elementary and secondary choral music programs; designing a choral curriculum, advocacy and assessment, lesson planning, program organization, budget. Clinical experience in the teaching of choral music. Forty (40) field hours required.
Prerequisite: Admission to advanced study; and MUS 23241 and 34111 with a minimum C grade; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

MUS 33314 PROGRESSIVE AND VERNACULAR MUSIC METHODS 2 Credit Hours
Elementary through secondary instruction of music methods related to vernacular and popular music styles. Students gain experience with lesson planning, program organization, recruiting and performing with ensembles that exist outside the band-orchestra-chorus model including, but not limited to, rock bands, technology-based ensembles and other non-traditional ensembles. Experiences focus on popular and vernacular music-making techniques, facilitating small- and large-group instruction and incorporating these experiences within the traditional school music setting.
Prerequisite: MUS 23241 with a minimum C grade; and admission to advanced study; and completion of the music education professional evaluation; and Music Education major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 33315 GENERAL MUSIC METHODS 2 Credit Hours
Kodály, Orff, Dalcroze, Music Learning Theory and current strategies appropriate for early childhood and P-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience for the teaching of general music in schools. 30 field hours required. A current FBI/BCI background check is required.
Prerequisite: MUS 23241 with a minimum C grade; and admission to advanced study; and completion of the music education professional evaluation; and Music or Music Education major; and junior standing.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

MUS 33316 CHORAL MUSIC METHODS 2 Credit Hours
Study and practice of implementing traditional and contemporary choral methods, materials and literature within elementary and secondary choral music programs. Course includes, but is not limited to, experiencing designing a K-12 vocal and choral curriculum, advocacy and assessment specific to choral music, lesson planning, program organization, budget and exposure to philosophical perspectives toward teaching P-12 choral music. 20 clinical field experience hours within choral music teaching are required. Pre/corequisites:
Prerequisite: MUS 11122 and MUS 17111 and MUS 23241; and admission to advanced study; and Music Education major.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

MUS 34111 INTRODUCTION TO CONDUCTING 1 Credit Hour
Introduction to and study of conducting: beat patterns, baton techniques, score reading, analysis and interpretive elements.
Prerequisite: MUS 11122 with a minimum C grade; and junior standing.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 34121 CONDUCTING AND LEADERSHIP IN SCHOOLS 1 Credit Hour
Advanced study of and practice with instrumental and choral conducting, guiding general music environments and leadership of K-12 music classrooms and related settings. Skills and knowledge include conducting gesture, running rehearsals, score study and arranging, working with groups of students, understanding the young mindset of school-based musical groups, listening and responding to musical activities and navigating musical experiences in schools. The course includes additional work with leading groups other than secondary choral and instrumental groups, such as elementary ensembles, modern bands, non-Western ensembles and other ensemble leadership that falls outside of traditional band, orchestra and choir models.
Prerequisite: MUS 21111; and Music or Music Education major; and junior standing.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 34211 ELEMENTARY AND SECONDARY GENERAL MUSIC 2 Credit Hours
Kodaly, Orff, Dalcroze, and current strategies appropriate for early childhood K-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience in the teaching of general music in the schools. Thirty (30) field hours required.
Prerequisite: Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and completion of the music education professional evaluation; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

MUS 34212 ELEMENTARY AND SECONDARY CHORAL MUSIC 2 Credit Hours
Methods, materials, and literature used in elementary and secondary choral music programs; designing a choral curriculum, advocacy and assessment, lesson planning, program organization, budget. Clinical experience in the teaching of choral music. Thirty (30) field hours required.
Prerequisite: Admission to advanced study; and MUS 23241 and 34111 with a minimum C grade; and completion of the music education professional evaluation; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

MUS 35213 STUDIO ENSEMBLE 1 Credit Hour
(Repeatable for a maximum of 16 credit hours) Development of ensemble skills through small group experience performing diverse popular styles from notation, developing improvisation skills and creating arrangements from lead charts. Students must audition for the director prior to registration for the course.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 36011 APPLIED MUSIC JAZZ 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 36111 APPLIED MUSIC PIANO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36311 APPLIED MUSIC VOICE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36411 APPLIED MUSIC VIOLIN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36412 APPLIED MUSIC VIOLA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36413 APPLIED MUSIC CELLO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36414 APPLIED MUSIC DOUBLE BASS 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36511 APPLIED MUSIC FLUTE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36512 APPLIED MUSIC OBOE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36513 APPLIED MUSIC CLARINET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36514 APPLIED MUSIC BASSOON 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36515 APPLIED MUSIC SAXOPHONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36611 APPLIED MUSIC TRUMPET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36612 APPLIED MUSIC HORN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36613 APPLIED MUSIC TROMBONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36614 APPLIED MUSIC EUPHONIUM 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36615 APPLIED MUSIC TUBA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36711 APPLIED MUSIC PERCUSSION 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36912 APPLIED MUSIC GUITAR 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36913 APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours
(Repeatable for a maximum of 16 credit hours) Development of performance proficiency in contemporary popular music styles appropriate for the performance idiom through individual instruction. Students must audition for the director prior to registration for the course.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36914 ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music and music technology majors; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36915 ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles.
Prerequisite: Music and music technology majors.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36916 DRUM SET PERCUSSION APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music and music technology majors; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36917 KEYBOARD APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music and music technology majors; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36918 CONTEMPORARY VOICE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music and music technology majors; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36919 FLUTE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36920 CLARINET APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36921 SAXOPHONE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36922 TRUMPET APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36923 HORN APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36924 TROMBONE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 37111 CONTEMPORARY POPULAR PIANO 2 Credit Hours
Development of keyboard applications in contemporary popular music styles with a focus on music theory.
Prerequisite: MUS 17112 with a minimum C grade.
Corequisite: MUS 21341.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 37113 PIANO SKILLS FOR THE CHORAL/GENERAL MUSIC EDUCATOR 2 Credit Hours
Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals.
Prerequisite: MUS 11121 and MUS 17111 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 37114 PIANO SKILLS FOR THE INSTRUMENTAL MUSIC EDUCATOR 1 Credit Hour
Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals.
Prerequisite: MUS 11121 and MUS 17111 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 37512 STRING TECHNIQUES 1 Credit Hour
Discussion and practice of basic principles surrounding classroom string playing, instrumental pedagogy and group process as applied to public school music settings. This course is devoted to string teaching and learning for pre-service music education training.
Prerequisite: Music or Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 37514 VOICE TECHNIQUES 1 Credit Hour
Class instruction covering the fundamentals of singing including breathing, tone, posture, resonance, diction and vocal health. Other topics include anatomy and physiology of the voice.
Prerequisite: Music or Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 38599 RECITAL (ELR) 1 Credit Hour
A culminating educational experience for students to demonstrate their musical understanding and application of ideas, techniques and musical interpretation. This course focuses on the study of a wide range of repertoire and public performance within the student's chosen performing medium.
Prerequisite: Junior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

MUS 40092 MUSIC TECHNOLOGY INTERNSHIP (ELR) 2 Credit Hours
(Repeatable for a maximum of 4 credit hours) On-the-job experience with cooperating business in the field of music technology and preparation of a final report or an applicable project. Students must have a minimum 2.250 major GPA to register for the course.
Prerequisite: MUS 31114 or MUS 31222 with a minimum C grade; and Music Technology major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

MUS 40295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours
(Slashed with MUS 50295 and MUS 70295)(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MUS 40296 INDEPENDENT STUDY:MUSIC 1-3 Credit Hours
(Repeatable for credit)Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses.
Prerequisite: Music or music education major; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 41010 DOUBLE REED DESIGN AND PRODUCTION 1 Credit Hour
(Slashed with MUS 51010)(Repeatable for credit) This course is an in-depth study of double reed design and production. This course is designed for double reed oboe students and music education students who have completed the woodwind technique course. The students of this course learn to grow and harvest the raw material (Arundo-Donax cane) and age the raw material in a climate-controlled area. The students learn to design and craft double reeds and produce marketable products to meet the highest performance standards.
Prerequisite: Music major or Music minor or Music Education major or Music Technology major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41091 MUSIC LEARNING THEORY APPROACH 3 Credit Hours
(Slashed with MUS 51091 and MUS 71091)(Repeatable for credit) Through the lens of Gordon's Music Learning Theory, the course is focused on P-6 general music and developing effective strategies for learner-centered growth, musicianship, movement, curriculum, inclusion and assessment. This course is offered in conjunction with the Gordon Institute for Music Learning (GIML) and satisfies requirements for GIML PDLC EGM level 1.
Prerequisite: None.
Schedule Type: Laboratory, Seminar
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 41112 WESTERN MUSIC SINCE 1945 1 Credit Hour
The study of Western art music since 1945 from historical and theoretical viewpoints. Emphasis on analysis, composition, listening and intellectual understanding.
Prerequisite: MUS 21112 and MUS 32212 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41113 MUSIC PRODUCTION V 3 Credit Hours
Continuation of Music Production IV, create music to accompany a visual medium by learning fundamental to more advanced film scoring techniques.
Prerequisite: MUS 31114 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41114 MUSIC PRODUCTION VI 3 Credit Hours
Continuation of Music Production V, advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on original music.
Prerequisite: MUS 41113 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41131 KEYBOARD HARMONY 3 Credit Hours
Theoretical skills demonstrated at the keyboard: harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41141 SIXTEENTH-CENTURY COUNTERPOINT 3 Credit Hours
Two-, three -and four part vocal counterpoint in 16th century style.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41151 EIGHTEENTH-CENTURY COUNTERPOINT 3 Credit Hours
Technique of writing counterpoint in 18th-century style, especially that of J. S. Bach.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41161 ADVANCED MUSICAL ANALYSIS 3 Credit Hours
A study of recent approaches to tonal and nontonal musical analysis. Emphasis on familiarity with styles, nomenclature and appropriate graphic techniques.
Prerequisite: MUS 41112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41181 ACOUSTICS AND TECHNOLOGY IN MUSIC 2 Credit Hours
An introduction to acoustics and psychoacoustics in direct relationship to music, and an introduction to uses of technology in music composition, performance, notation, theory, history and pedagogy.
Prerequisite: Music technology major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 41211 COMPOSITION 2,4 Credit Hours
(Repeatable for credit) Study of the materials and techniques of musical composition culminating in original works based upon observable principles of unity and variety.
Prerequisite: Composition or music or music education major.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 41221 AUDIO RECORDING V 3 Credit Hours
A continuation of Audio Recording IV. Covered topics include advanced mixing techniques using analog console automation, mixing for surround sound, and fundamentals of audio mastering.
Prerequisite: MUS 31222 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41222 AUDIO RECORDING VI 3 Credit Hours
A comprehensive record production experience from pre-production through recording, editing, mixing and mastering a complete audio project. Alternatively, students may opt to complete a research-based thesis document.
Prerequisite: MUS 41221 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41240 AUDIO ELECTRONICS I 3 Credit Hours
This course grants students the opportunity to explore electronics with a focus on applications in audio. Fundamental concepts like Ohm's Law, Joule's Law, resistance, capacitance and AC rectification will be covered, followed by basic transistor, operational amplifier (op amp) and vacuum tube circuits. The course will also visit resonant circuits and filters, transformers, and impedance. Hands-on skills like soldering, breadboarding and circuit simulation will culminate in an individual project in which students will assemble a microphone cable or instrument cable and their choice of microphone or guitar effects pedal from a kit.
Prerequisite: MUS 31221.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MUS 41250 LIVE SOUND PRODUCTION 2 Credit Hours
Students will learn how to spec, assemble, operate and maintain small-to-medium-scale professional public address systems for live concert audio production. The course will culminate in the class providing sound reinforcement for Kent State University at Stark's end-of-semester ensemble concerts.
Prerequisite: MUS 21222.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 41255 MUSIC PRODUCTION SEMINAR 1 Credit Hour
Required for students in the music production sequence, this is a traditional weekly one credit hour seminar course where students will workshop and share their projects, see faculty projects in process, familiarize themselves with vital recent historical works in their area and analyze and discuss fascinating new efforts in the realm of music production and composition.
Prerequisite: MUS 21114.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41291 SEMINAR IN POST-TONAL AND RECENT MUSIC 3 Credit Hours
(Slashed with MUS 51291 and MUS 71291) Seminar covering selected topics about music theory from the early 20th century to recent decades, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 41299 SENIOR PROJECT:MUSIC COMPOSITION (ELR) 2 Credit Hours
(Repeatable for credit)The final composition experience prior to graduation: a recital of individually composed works must be presented.
Prerequisite: MUS 41211 with a minimum C grade.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MUS 41321 ORCHESTRATION 3 Credit Hours
Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41341 JAZZ IMPROVISATION I 1 Credit Hour
(Slashed with MUS 51341) A beginner's introduction to jazz improvisation. Theory and daily playing are enhanced by ear training.
Prerequisite: Music major or minor.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41342 JAZZ COMPOSING AND ARRANGING 2 Credit Hours
(Slashed with MUS 51342) Composing and arranging for the large and small jazz ensemble.
Prerequisite: Jazz Studies concentration within the Music major or Jazz Studies minor.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 41351 JAZZ IMPROVISATION II 1 Credit Hour
(Slashed with MUS 51351) The presentation of a methodical approach to learning standard jazz repertoire.
Prerequisite: MUS 41341 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41391 SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY 3 Credit Hours
(Slashed with MUS 51391 and MUS 71391) Seminar covering selected topics about music theory from the high Renaissance to late Romantic period, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 42101 ROOTS OF ROCK 3 Credit Hours
Roots of Rock is a comprehensive survey of the various genres of American music in the 20th century that contributed to the development of rock music. Important performers in various styles and their contributions to the art form are explored. Pioneers in the fields of recording, artist management and production are studied. Rock music's contributions to the emergence of American culture are viewed in the context of social, racial and political changes. The impact of technological advances in radio, recording and television are also studied.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42111 AFRICAN MUSIC AND CULTURES 3 Credit Hours
African music as related to social sciences and humanities. Oral traditions. Use of music recordings, tapes, musical instruments, participation in performance and group work involvement.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42131 MUSIC OF THE UNITED STATES 3 Credit Hours
(Slashed with MUS 52131 and MUS 72131) Historical survey of music in the United States including Native American music, minstrelsy, New England psalmody, jazz and Latin American influences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42141 FOLK MUSIC OF EUROPE AND NORTH AMERICA 3 Credit Hours
(Slashed with MUS 52141) Study of selected music cultures of Eastern and Western Europe, and South, Central and North America.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42151 ASIAN MUSICS 3 Credit Hours
Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42161 HISTORY OF JAZZ (DIVD) 3 Credit Hours
(Slashed with MUS 52161 and MUS 72161) The evolution of jazz from its origin to present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

MUS 42162 JAZZ STYLES AND ANALYSIS 3 Credit Hours
(Slashed with MUS 52162) An approach to jazz history from the perspective of major artists such as: Louis Armstrong, Duke Ellington, Charlie Parker, Miles Davis and John Coltrane.
Prerequisite: Jazz Studies concentration within the Music major or Jazz Studies minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42165 HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC) 3 Credit Hours
A study of popular music from the 1950s to the present. Course content will highlight significant artists, examine important style elements, and expose students to a variety of repertoire. This course will emphasize music theory and orchestration to understand and differentiate style. An overview of the history and development of recording technology is an important component of this course.
Prerequisite: MUS 21341.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Writing Intensive Course

MUS 42181 POPULAR WORLD MUSIC (DIVG) 3 Credit Hours
(Slashed with MUS 52181 and MUS 72181) A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Modern media, especially the Internet, is an integral component of the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

MUS 42221 SYMPHONIC LITERATURE 3 Credit Hours
(Slashed with MUS 52221) Historical and stylistic survey of music for large instrumental ensemble.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42227 WIND BAND LITERATURE 3 Credit Hours
(Slashed with MUS 52227 and MUS 72227) Historical survey of wind band literature and the development of the ensemble.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42232 PIANO LITERATURE I 2 Credit Hours
Survey of keyboard suites, sonatas and concerti from the 16th century to the present. Emphasis on performing, listening, and analysis.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 42241 PIANO LITERATURE 3 Credit Hours
(Slashed with MUS 52241) Survey of keyboard and piano literature from the 16th century to the present; study of related forms and styles. Emphasis on performing, listening and analysis.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42242 PIANO LITERATURE II 2 Credit Hours
Survey of character pieces and variations from the 16th century to the present. Emphasis on performing, listening, and analysis.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 42251 SONG LITERATURE 3 Credit Hours
A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.
Prerequisite: MUS 22111 with a minimum C grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42261 VOCAL LITERATURE 3 Credit Hours
(Slashed with MUS 52261) The historical development of opera from the 17th century to the present. Detailed analysis of representative works.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42271 CHORAL LITERATURE 3 Credit Hours
(Slashed with MUS 52271 and MUS 72271) Study of Western European choral literature from approximately 1450 to the early 19th century, i.e., Renaissance, Baroque and Classical periods.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42272 CHORAL LITERATURE II 3 Credit Hours
(Slashed with MUS 52272) Continuation of Choral Literature I. A study of Western European and North American choral music of the early 19th century to the present (roughly 1830 to the present).
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42291 SEMINAR IN MUSIC HISTORY AND LITERATURE 3 Credit Hours
(Slashed with MUS 52291 and MUS 72291)(Repeatable for credit) Selected problems of research for music history and literature. Each student is responsible for presenting papers for discussion.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 42345 ORFF SCHULWERK TEACHER EDUCATION LEVEL I 3 Credit Hours
(Slashed with MUS 52345 and MUS 72345)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level I is designed as an introductory experience to Orff Schulwerk pedagogy and is appropriate for anyone with a music degree.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 42346 ORFF SCHULWERK TEACHER EDUCATION LEVEL II 3 Credit Hours
(Slashed with MUS 52346 and MUS 72346)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level II is designed as an intermediate experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level I at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 42345.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 42347 ORFF SCHULWERK TEACHER EDUCATION LEVEL III 3 Credit Hours
(Slashed with MUS 52347 and MUS 72347)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level III is designed as an advanced experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level II at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 42346.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 42392 STUDENT TEACHING (ELR) 9 Credit Hours
Provides a 16-week student teaching experience. Off-campus arrangements are handled by the College of Education, Health and Human Services and the School of Music.
Prerequisite: Music education major; official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching; and special approval.
Corequisite: MUS 49525.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MUS 43241 MARCHING BAND TECHNIQUES AND LITERATURE 1 Credit Hour
Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles, literature and show design.
Prerequisite: Music education major; and sophomore standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lab
Grade Mode: Standard Letter

MUS 43242 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 2 Credit Hours
Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation jazz styles and rehearsal techniques taught through laboratory experience.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 43243 CONTEMPORARY CHORAL METHODS IN THE SCHOOLS 3 Credit Hours
(Slashed with MUS 53243) Basic techniques and materials for teaching vocal jazz and musical theatre in the schools. Administration, organization and publicity for productions as well as literature for these performing groups will be explored.
Prerequisite: Music education major or music major; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 43245 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 1 Credit Hour
(Slashed with MUS 53245) Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation of jazz styles and rehearsal techniques taught through laboratory experiences. One hour of field observation is required.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 43264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 53264 and MUS 73264) In this course, students participate in small rock ensembles and examine the pedagogy of that type of ensemble. Lectures and demonstrations include topics such as equipment selection, repertoire selection and performance techniques. The course also emphasizes techniques for amplifying rock ensembles, and students learn fundamental techniques for recording rock ensembles.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 43265 METHODS IN JAZZ PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 53265) In this course, students will participate in immersive experiences in various aspects of vocal and instrumental jazz: solo performing, ensemble rehearsal techniques, repertoire selection and sources, jazz theory, improvisation, working with a rhythm section, and sound reinforcement. Students will also participate in a workshop ensemble to experience the art form as a member of a jazz ensemble.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 44111 ADVANCED CHORAL CONDUCTING 2 Credit Hours
Continued development of conducting technique, score reading analysis, styles, interpretation, rehearsal procedure, diction issues as they relate to conducting and pedagogy.
Prerequisite: Minimum C grade in MUS 21111, MUS 34111 and MUS 37113.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 44121 ADVANCED INSTRUMENTAL CONDUCTING 2 Credit Hours
Continued development of conducting technique, score reading analysis, styles, interpretation and rehearsal procedures.
Prerequisite: MUS 21111 and MUS 34111 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 44210 INSTRUMENTAL MUSIC METHODS 2 Credit Hours
Study and practice of traditional and contemporary instrumental methods, materials and literature within elementary and secondary band and orchestra programs. The course includes, but is not limited to, experience designing a K-12 instrumental music curriculum, advocacy and assessment, lesson planning, program organization, budget and exposure to philosophical perspectives toward teaching P-12 instrumental music. 20 clinical field hours within instrumental music teaching are required.
Prerequisite: MUS 11122 and MUS 17111 and MUS 23241; and admission to advanced study; and Music Education major.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

MUS 44211 INSTRUMENTAL METHODS I 2 Credit Hours
Elementary and middle school instrumental instruction, program organization, rehearsal teaching techniques, lesson plans, literature, assessment, scheduling, recruiting, modeling and interactive teaching. Clinical experience in the teaching of music. Thirty (30) field hours required.
Prerequisite: MUS 23241 with a minimum C grade; and minimum C grade in and 2 credit hours of the following courses: MUS 37512 or MUS 47512 or MUS 47513 or MUS 47612 or MUS 47712; and admission to advanced study; and completion of the music education professional evaluation; and Music or Music Education major; and junior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

MUS 44212 INSTRUMENTAL METHODS II 2 Credit Hours
Secondary instrumental instruction; program organization, budget, advocacy, assessment, rehearsal planning, literature and teaching techniques. Clinical experience in the teaching of music. Thirty (30) field hours required.
Prerequisite: Minimum C grade in the following courses: MUS 23241 and MUS 34111 and MUS 44211; and MUS 37512 or MUS 47512 or MUS 47612 or MUS 47712; and admission to advanced study; and completion of the music education professional evaluation; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

MUS 45121 KENT CHORUS 1 Credit Hour
(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45131 KENT STATE OPERA THEATRE WORKSHOP 1 Credit Hour
(Repeatable for credit) Training in methods and skills necessary to the art of the singer-actor. Opera performed and prepared via study, observation and rehearsal.
Prerequisite: Audition.
Schedule Type: Studio
Contact Hours: 9.5 other
Grade Mode: Standard Letter

MUS 45141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour
(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles with appropriate accompaniment sung in the original language. An audition is required before registering for this course.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4.5 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45142 CORO CANTARE 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 55142) A chorus of tenor, baritone and bass voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for tenor, baritone and bass voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45143 CANTIQUE 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 55143) A chorus of soprano and alto voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for soprano and alto voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45151 KENT STATE UNIVERSITY GOSPEL CHOIR 1 Credit Hour
(Repeatable for credit) Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45212 ORCHESTRA 1 Credit Hour
(Slashed with MUS 55212 and MUS 75212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45221 SYMPHONY BAND 1 Credit Hour
(Repeatable for credit) Study and performance of music literature for wind band.
Prerequisite: Audition.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45222 MARCHING BAND 1 Credit Hour
(Repeatable for credit) Study and performance of literature and maneuvers for marching band.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45223 WIND ENSEMBLE 1 Credit Hour
(Slashed with MUS 55223 and MUS 75223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45224 FLASHER BRASS 1 Credit Hour
(Repeatable for credit) Study and performance of music for Flasher Brass.
Prerequisite: Audition.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

MUS 45225 UNIVERSITY BAND 1 Credit Hour
(Repeatable for credit) Study and performance of music literature for wind band appropriate for non-music majors, and for music education majors performing on secondary instruments.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45231 JAZZ ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music literature in the jazz idiom.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 7.5 other
Grade Mode: Standard Letter

MUS 45241 TROMBONE ENSEMBLE 1 Credit Hour
(Repeatable for credit) A thorough study of trombone performance in various sized ensembles. Emphasis on original literature from over four centuries.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 45251 PERCUSSION ENSEMBLE 1 Credit Hour
(Repeatable for credit) A comprehensive study of percussion performance in various-sized ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

MUS 45261 BASSOON ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing interpretation leadership skills and arranging techniques.
Prerequisite: Permission audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 45271 NEW MUSIC ENSEMBLE 1 Credit Hour
(Repeatable for credit)(Slashed with MUS 55271 and MUS 75271) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 45301 AFRICAN ENSEMBLE (DIVG) 1 Credit Hour
(Slashed with MUS 55301 and MUS 75301)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with traditional and popular music and dance from Africa and the African diaspora. Specific traditions studied may include, but are not limited to, Ghana, Guinea, Senegal, Nigeria, Haiti, Cuba, Puerto Rico, Trinidad and Tobago and the United States. This course is performance and community focused.
Prerequisite: None.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Diversity Global

MUS 45302 CARIBBEAN STEELBAND (DIVG) 1 Credit Hour
(Slashed with MUS 55302 and MUS 75302)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with steelband traditions of Trinidad and Tobago. Specific traditions and genres studied may include, but are not limited to, pan, calypso, soca, Latin, bomb tunes, carnival and tamboo-bamboo. This ensemble is performance and community focused.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Diversity Global

MUS 45311 CHAMBER MUSIC 1,2 Credit Hour
(Repeatable for credit) The study and performance of music for small ensembles. Music minors and other non-music majors may take this course with permission.
Prerequisite: Music major or music education major.
Schedule Type: Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 45312 JAZZ COMBO DEVELOPMENT 1 Credit Hour
(Repeatable for a total of 8 credit hours) The study of Jazz combo performance through rehearsal.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

MUS 45313 NOVA JAZZ SINGERS 1 Credit Hour
(Repeatable for credit) The Kent State Nova Jazz Singers is a select vocal jazz ensemble. Repertoire consists of arrangements of American popular music from the 1930s to today, covering all contemporary styles. Nova Jazz Singers is open to all Kent State students by audition.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 45314 WORLD MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 55314 and MUS 75314)(Repeatable for maximum of 8 credit hours) This course teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming, Thai Piphat. Specific traditions studied include areas of specialization of instructors and/or advanced student participants.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 45315 ASIAN MUSIC ENSEMBLE (DIVG) 1 Credit Hour
(Slashed with MUS 55315 and MUS 75315)(Repeatable for credit) This course teaches performance practice and cultural etiquette associated with traditional and popular Asian music genres, e.g., Thai, Chinese and Indian classical music.
Prerequisite: None.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Diversity Global

MUS 45321 ACCOMPANYING 1,2 Credit Hour
(Repeatable for credit) Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly.
Prerequisite: Permission.
Schedule Type: Private Lesson, Studio
Contact Hours: 1-2 other
Grade Mode: Standard Letter

MUS 46111 APPLIED MUSIC PIANO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46311 APPLIED MUSIC VOICE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46411 APPLIED MUSIC VIOLIN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46412 APPLIED MUSIC VIOLA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46413 APPLIED MUSIC CELLO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46414 APPLIED MUSIC DOUBLE BASS 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46511 APPLIED MUSIC FLUTE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46512 APPLIED MUSIC OBOE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46513 APPLIED MUSIC CLARINET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46514 APPLIED MUSIC BASSOON 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46515 APPLIED MUSIC SAXOPHONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46611 APPLIED MUSIC TRUMPET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46612 APPLIED MUSIC HORN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46613 APPLIED MUSIC TROMBONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46614 APPLIED MUSIC EUPHONIUM 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46615 APPLIED MUSIC TUBA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46711 APPLIED MUSIC PERCUSSION 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 47012 CLASS GUITAR I 2 Credit Hours
Development of basic guitar performance skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 47013 CLASS GUITAR II 2 Credit Hours
Continued development of acoustic guitar performance skills, study of performance related theory and related topics.
Prerequisite: MUS 47012.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 47311 VOICE CLASS FOR THE INSTRUMENTALIST 1 Credit Hour
Class instruction in the fundamentals of correct breathing, tone production and diction.
Prerequisite: Music or music education major.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 47312 VOICE CLASS FOR NON-MUSIC STUDENTS 1 Credit Hour
Class instruction in the fundamentals of correct breathing, tone production and diction.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 47512 WIND TECHNIQUES - FRENCH HORN AND DOUBLE REEDS 1 Credit Hour
The study of the fundamental principles of playing and teaching French horn, oboe, and bassoon. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary levels.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 47513 WIND TECHNIQUES - FLUTE, CLARINET, SAXOPHONE 1 Credit Hour
The study of the fundamental principles of playing and teaching flute, clarinet, and saxophone. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary levels.
Prerequisite: Music or music education.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 47612 WIND TECHNIQUES - TRUMPET AND LOW BRASS 1 Credit Hour
The study of the fundamental principles of playing trumpet, trombone, tuba, and euphonimum. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary school levels.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 47712 PERCUSSION CLASS 1 Credit Hour
Study of various percussion instruments (mallets, snare drum, timpani and auxiliary) and techniques of performance. Designed for music educator with no previous percussion experience.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 47811 INSTRUMENT CLASS FOR THE CHORAL/GENERAL MUSIC EDUCATOR 1 Credit Hour
Class instruction in the basic playing skills of band and orchestral instruments intended to provide familiarity with the common school instruments for the choral-general music major. Ten (10) hours of field experience required.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 48221 ELEMENTS OF ACCOMPANYING I 2 Credit Hours
Techniques of accompanying; selected overview of art song literature including Italian, German, French and English songs development of playing at sight skills.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48222 ELEMENTS OF ACCOMPANYING II 2 Credit Hours
Continuation of accompanying techniques including opera accompanying, orchestral reductions and selected overview of literature for solo instrument and piano; continuation of playing-at-sight skills.
Prerequisite: MUS 48221 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48231 INSTRUMENTAL PEDAGOGY FOR THE CHORAL GENERAL MUSIC EDUCATOR 2 Credit Hours
Knowledge and techniques for building and maintaining an instrumental music program within the K-12 school setting for the choral general music education major. Ten (10) hours of field experience required.
Prerequisite: MUS 47811 with a minimum C grade; and music education major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48232 GENERAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST 1 Credit Hour
General music pedagogy techniques for the instrumental music education major. Clinical experiences in the teaching of general music. Ten (10) field hours required.
Prerequisite: MUS 37114 with a minimum C grade; and music education major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 48233 CHORAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST 1 Credit Hour
Choral pedagogy techniques and choral program development for the instrumental music education major. Clinical experiences in the teaching of choral music. Ten (10) field hours required.
Prerequisite: MUS 47311 with a minimum C grade; and music education major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 48241 VOICE PEDAGOGY 2 Credit Hours
Survey of techniques, practices and materials of teaching voice.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48250 PEDAGOGY OF MUSIC 3 Credit Hours
Study of pedagogical methodologies and practices. Drawing on discoveries in cognitive neuroscience, this course explores the connection between the human brain and music making, teaching and learning. The course content covers a range of topics, such as the ways that the brain processes musical learning, practical approaches to music teaching, pedagogical challenges in the digital age, understanding emotion and empathy and developing interdisciplinary teaching strategies.
Prerequisite: MUS 11122 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MUS 48251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours
(Slashed with MUS 58251 and MUS 78251) The principles and techniques of teaching music theory.
Prerequisite: MUS 21112 with a minimum C grade; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48257 PEDAGOGY-INSTRUMENTAL 2 Credit Hours
Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice. Offered as needed for strings woodwinds brass percussion organ, or guitar.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48311 PIANO PEDAGOGY I 2 Credit Hours
Individual and group piano teaching including teaching methods and the history of piano pedagogy.
Prerequisite: Music or music education major; and junior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48312 PIANO PEDAGOGY II 2 Credit Hours
Individual and group piano teaching. Building an independent studio and career networking.
Prerequisite: MUS 48311 with a minimum C grade; and music major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 48512 IMPROVISATION 1 Credit Hour
The development of musical improvisation skills not tied to any particular music style. Students will perform on their own applied instrument(s).
Prerequisite: MUS 21111 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 48598 MUSIC RESEARCH (ELR) 2,3 Credit Hours
(Repeated registration permitted) Research or individual investigation for undergraduate students.
Prerequisite: Permission.
Schedule Type: Research
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

MUS 48599 CAPSTONE RECITAL (ELR) 1 Credit Hour
A culminating educational experience for students to demonstrate their musical understanding and application of ideas, techniques and musical interpretation. This course focuses on the study of a wide range of repertoire and public performance within the student's chosen performing medium.
Prerequisite: Senior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

MUS 48610 SINGER'S DICTION 3 Credit Hours
(Slashed with MUS 58610) Foundational training and performance practice with phonetics and lyric diction for English, Italian, German and French vocal repertoire.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 48699 COMPOSITION RECITAL (ELR) 2 Credit Hours
A culminating educational experience for students to demonstrate the application of ideas, performance and composition techniques, focusing on the creation of original musical works, presentation of the works during a short lecture and public performance. The student presenter must participate in the performance of at least one of the works.
Prerequisite: Senior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

MUS 49525 SEMINAR FOR STUDENT TEACHING (ELR) 3 Credit Hours
(Slashed with MUS 59525) A capstone discussion of principles of music teaching and pragmatic understanding of school music settings. Seminar serves as the companion course to Student Teaching for the purpose of self-observation, reflection, and analysis. Development of edTPA and portfolio.
Prerequisite: Music education major; and senior standing; and special approval.
Corequisite: MUS 42392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MUS 50295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours
(Slashed with MUS 40295 and MUS 70295)(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.
Prerequisite: Music major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MUS 50296 INDEPENDENT STUDY:MUSIC 1-3 Credit Hours
(Repeatable for credit) Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses.
Prerequisite: Music major; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 51010 DOUBLE REED DESIGN AND PRODUCTION 1 Credit Hour
(Slashed with MUS 41010)(Repeatable for credit) This course is an in-depth study of double reed design and production. This course is designed for double reed oboe students and music education students who have completed the woodwind technique course. The students of this course learn to grow and harvest the raw material (Arundo-Donax cane) and age the raw material in a climate-controlled area. The students learn to design and craft double reeds and produce marketable products to meet the highest performance standards.
Prerequisite: School of Music major; and graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 51011 INTRODUCTION TO TONAL AURAL SKILLS 1 Credit Hour
Focus on solfege singing, ear training and aural analysis in preparation for graduate level music theory coursework.
Prerequisite: Music major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MUS 51012 INTRODUCTION TO TONAL MUSIC ANALYSIS 1 Credit Hour
Focus on harmony, counterpoint and written analysis in preparation for graduate level music theory coursework.
Prerequisite: Music major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MUS 51091 MUSIC LEARNING THEORY APPROACH 3 Credit Hours
(Slashed with MUS 41091 and MUS 71091)(Repeatable for credit) Through the lens of Gordon's Music Learning Theory, the course is focused on P-6 general music and developing effective strategies for learner-centered growth, musicianship, movement, curriculum, inclusion and assessment. This course is offered in conjunction with the Gordon Institute for Music Learning (GIML) and satisfies requirements for GIML PDLC EGM level 1.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Seminar
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 51131 KEYBOARD HARMONY 3 Credit Hours
Theoretical skills demonstrated at the keyboard. Harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 51141 16TH-CENTURY COUNTERPOINT 3 Credit Hours
Two-, three- and four-part vocal counterpoint in 16th century style.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 51151 18TH-CENTURY COUNTERPOINT 3 Credit Hours
Technique of writing counterpoint in 18th-century style especially that of J. S. Bach.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 51211 COMPOSITION 2 Credit Hours
(Repeatable for credit) Study of the materials and techniques of composition culminating in original compositions based upon observable principles of unity and variety.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 51291 SEMINAR IN POST-TONAL AND RECENT MUSIC 3 Credit Hours
(Slashed with MUS 41291 and MUS 71291) Seminar covering selected topics about music theory from the early 20th century to recent decades, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 51321 ORCHESTRATION 3 Credit Hours
Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 51341 JAZZ IMPROVISATION I 1 Credit Hour
(Slashed with MUS 41341) A beginner's introduction to jazz improvisation. Theory and daily playing are enhanced by ear training.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 51342 JAZZ COMPOSING AND ARRANGING 2 Credit Hours
(Slashed with MUS 41342) Composing and arranging for the large and small jazz ensemble.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 51351 JAZZ IMPROVISATION II 1 Credit Hour
(Slashed with MUS 41351) The presentation of a methodical approach to learning standard jazz repertoire.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 51391 SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY 3 Credit Hours
(Slashed with MUS 41391 and MUS 71391) Seminar covering selected topics about music theory from the high Renaissance to late Romantic period, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 52111 AFRICAN MUSIC AND CULTURES 3 Credit Hours
African music as related to social sciences and humanities. Oral traditions. Use of music recordings, tapes, musical instruments. Participation in performance and group work involvement.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52131 MUSIC OF THE UNITED STATES 3 Credit Hours
(Slashed with MUS 42131 and MUS 72131) Historical survey of music in the United States including Native American music, minstrelsy, New England psalmody, jazz and Latin American influences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52141 FOLK MUSIC OF EUROPE AND NORTH AMERICA 3 Credit Hours
(Slashed with MUS 42141) Study of selected music cultures of Eastern and Western Europe, and South, Central and North America.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52151 ASIAN MUSICS 3 Credit Hours
Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52161 HISTORY OF JAZZ 3 Credit Hours
(Slashed with MUS 42161 and MUS 72161) The evolution of jazz from its origin to present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52162 JAZZ STYLES AND ANALYSIS 3 Credit Hours
(Slashed with MUS 42162) An approach to jazz history from the perspective of major artists such as: Louis Armstrong, Duke Ellington, Charlie Parker, Miles Davis and John Coltrane.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52181 POPULAR WORLD MUSIC 3 Credit Hours
(Slashed with MUS 42181 and MUS 72181) A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Graduate level introduces cultural theory related to popular studies. Modern media, especially the Internet, is an integral component of the course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52221 SYMPHONIC LITERATURE 3 Credit Hours
(Slashed with MUS 42221) Historical and stylistic survey of music for large instrumental ensemble.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52227 WIND BAND LITERATURE 3 Credit Hours
(Slashed with MUS 42227 and MUS 72227) Historical survey of wind band literature and the development of the ensemble.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52241 PIANO LITERATURE 3 Credit Hours
(Slashed with MUS 42241) Survey of keyboard and piano literature from the 16th century to the present; study of related forms and styles. Emphasis on performing, listening and analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52242 PIANO LITERATURE II 2 Credit Hours
Survey of character pieces and variations from the 16th century to the present. Emphasis on performing, listening and analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 52251 SONG LITERATURE 3 Credit Hours
A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52261 VOCAL LITERATURE 3 Credit Hours
(Slashed with MUS 42261) The historical development of opera from the 17th century to the present. Detailed analysis of representative works.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52271 CHORAL LITERATURE 3 Credit Hours
(Slashed with MUS 42271 and MUS 72271) Study of Western European choral literature from approximately 1450 to the early 19th century, i.e., Renaissance, Baroque and Classical periods.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52272 CHORAL LITERATURE II 3 Credit Hours
(Slashed with MUS 42272) Continuation of Choral Literature I. A study of Western European and North American choral music of the early 19th century to the present (roughly 1830 to present).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52291 SEMINAR IN MUSIC HISTORY AND LITERATURE 3 Credit Hours
(Slashed with MUS 42291 and MUS 72291)(Repeatable for credit) Selected problems of research for music history and literature. Each student is responsible for presenting papers for discussion.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 52345 ORFF SCHULWERK TEACHER EDUCATION LEVEL I 3 Credit Hours
(Slashed with MUS 42345 and MUS 72345)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level I is designed as an introductory experience to Orff Schulwerk pedagogy and is appropriate for anyone with a music degree.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 52346 ORFF SCHULWERK TEACHER EDUCATION LEVEL II 3 Credit Hours
(Slashed with MUS 42346 and MUS 72346)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level II is designed as an intermediate experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level I at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 52345; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 52347 ORFF SCHULWERK TEACHER EDUCATION LEVEL III 3 Credit Hours
(Slashed with MUS 42347 and MUS 72347)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level III is designed as an advanced experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level II at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 52346; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 52392 STUDENT TEACHING 9 Credit Hours
Provides a 16-week student teaching experience. Off-campus arrangements are handled by the College of Education, Health and Human Services and the School of Music and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE. Training must be presented to the campus office of clinical experience as prerequisite for student teaching.
Prerequisite: Graduate standing; and special approval.
Corequisite: MUS 59525.
Schedule Type: Practical Experience
Contact Hours: 35 other
Grade Mode: Standard Letter

MUS 53241 MARCHING BAND TECHNIQUES AND LITERATURE 1 Credit Hour
Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles, literature and show design.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 1 lab
Grade Mode: Standard Letter

MUS 53242 JAZZ ENSEMBLE TECHNIQUES 2 Credit Hours
Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation, jazz styles and rehearsal techniques taught through laboratory experience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 53243 CONTEMPORARY CHORAL METHODS IN THE SCHOOLS 3 Credit Hours
(Slashed with MUS 43243) Basic techniques and materials for teaching vocal jazz and musical theatre in the schools. Administration, organization and publicity for productions as well as literature for these performing groups will be explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 53245 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 1 Credit Hour
(Slashed with MUS 43245) Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation, jazz styles, and rehearsal techniques taught through laboratory experience. One hour of field observation is required.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 53264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 43264 and MUS 73264) In this course, students participate in small rock ensembles and examine the pedagogy of that type of ensemble. Lectures and demonstrations include topics such as equipment selection, repertoire selection and performance techniques. The course also emphasizes techniques for amplifying rock ensembles, and students learn fundamental techniques for recording rock ensembles.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 53265 METHODS IN JAZZ PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 43265) In this course, students will participate in immersive experiences in various aspects of vocal and instrumental jazz: solo performing, ensemble rehearsal techniques, repertoire selection and sources, jazz theory, improvisation, working with a rhythm section, and sound reinforcement. Students will also participate in a workshop ensemble to experience the art form as a member of a jazz ensemble.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 55121 KENT CHORUS 1 Credit Hour
(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 other
Grade Mode: Standard Letter

MUS 55131 KENT STATE OPERA THEATRE WORKSHOP 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 45131 and MUS 75131) A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 9.5 other
Grade Mode: Standard Letter

MUS 55141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour
(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. An audition in required before registering for this course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4.5 other
Grade Mode: Standard Letter

MUS 55142 CORO CANTARE 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 54142) A chorus of tenor, baritone and bass voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for tenor, baritone and bass voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 55143 CANTIQUE 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 45143) A chorus of soprano and alto voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for soprano and alto voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 55151 KENT STATE UNIVERSITY GOSPEL CHOIR 1 Credit Hour
(Repeatable for credit) Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55212 ORCHESTRA 1 Credit Hour
(Slashed with MUS 45212 and MUS 75212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

MUS 55221 SYMPHONY BAND 1 Credit Hour
(Repeatable for credit) Study and performance of music literature for wind band.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

MUS 55222 MARCHING BAND 1 Credit Hour
(Repeatable for a maximum of 6 credit hours) Study and performance of literature and maneuvers for marching band.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

MUS 55223 WIND ENSEMBLE 1 Credit Hour
(Slashed with MUS 45223 and MUS 75223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. An audition in required before registering for this course.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

MUS 55231 JAZZ ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music literature in the jazz idiom.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 7.5 other
Grade Mode: Standard Letter

MUS 55241 TROMBONE ENSEMBLE 1 Credit Hour
(Repeatable for credit) A thorough study of trombone performance in various size ensembles. Emphasis on original literature from over four centuries.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55251 PERCUSSION ENSEMBLE 1 Credit Hour
(Repeatable for credit) A comprehensive study of percussion performance in various size ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

MUS 55261 BASSOON ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing, interpretation, leadership skills and arranging techniques.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55271 NEW MUSIC ENSEMBLE 1 Credit Hour
(Repeatable for credit)(Slashed with MUS 45271 and MUS 75271) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 55301 AFRICAN ENSEMBLE 1 Credit Hour
(Slashed with MUS 45301 and MUS 75301)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with traditional and popular music and dance from Africa and the African diaspora. Specific traditions studied may include, but are not limited to, Ghana, Guinea, Senegal, Nigeria, Haiti, Cuba, Puerto Rico, Trinidad and Tobago and the United States. This course is performance and community focused.
Prerequisite: Graduate standing.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55302 CARIBBEAN STEELBAND 1 Credit Hour
(Slashed with MUS 45302 and MUS 75302)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with steelband traditions of Trinidad and Tobago. Specific traditions and genres studied may include, but are not limited to, pan, calypso, soca, Latin, bomb tunes, carnival and tamboo-bamboo. This ensemble is performance and community focused.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55311 CHAMBER MUSIC 1,2 Credit Hour
(Repeatable for credit) The study and performance of music for small ensembles.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 55314 WORLD MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 45314 and MUS 75314)(Repeatable for maximum of 8 credit hours) This course teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming, Thai Piphat. Specific traditions studied include areas of specialization of instructors and/or advanced student participants.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55315 ASIAN MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 45315 and MUS 75315)(Repeatable for credit) This course teaches performance practice and cultural etiquette associated with traditional and popular Asian music genres, e.g., Thai, Chinese and Indian classical music.
Prerequisite: Graduate standing.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55321 ACCOMPANYING 1,2 Credit Hour
(Repeatable for credit) Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1-2 other
Grade Mode: Standard Letter

MUS 58241 VOICE PEDAGOGY 2 Credit Hours
Survey of techniques, practices and materials of teaching voice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 58251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours
(Slashed with MUS 48251 and MUS 78251) The principles and techniques of teaching music theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 58257 PEDAGOGY-INSTRUMENTAL 2 Credit Hours
Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice. Offered as needed for strings, woodwinds, brass, percussion, organ or guitar.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 58393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 58610 SINGER'S DICTION 3 Credit Hours
(Slashed with MUS 48610) Foundational training and performance practice with phonetics and lyric diction for English, Italian, German and French vocal repertoire.
Prerequisite: Performance major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 58611 ADVANCED SINGER'S DICTION I 1 Credit Hour
Advanced training and performance practice in phonetics and singing diction for English and Italian vocal repertoire. Emphasis on learning and application of International Phonetic Alphabet symbols.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 58612 ADVANCED SINGER'S DICTION II 1 Credit Hour
Advanced training and performance practice in phonetics and singing diction for German and French vocal repertoire. Emphasis on learning and application of International Phonetic Alphabet symbols.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 59525 SEMINAR FOR STUDENT TEACHING 3 Credit Hours
(Slashed with MUS 49525) A capstone discussion of principles of music teaching and pragmatic understanding of school music settings. Seminar serves as the companion course to Student Teaching for the purpose of self-observation, reflection, and analysis. Development of edTPA and portfolio.
Prerequisite: Graduate standing; and special approval.
Corequisite: MUS 52392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61121 HISTORY OF MUSIC THEORY 3 Credit Hours
(Slashed with MUS 71121) A study of the history of Western music theory from the ancient Greeks to the twentieth century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61131 SCHENKERIAN ANALYSIS 3 Credit Hours
An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61170 MUSIC ANALYSIS 3 Credit Hours
Selected analytical techniques applied to music from the tonal and post-tonal repertoire. Emphasis on the development of harmonic language and overall formal structures.
Prerequisite: Music education major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61173 WORLD MUSIC ANALYSIS 3 Credit Hours
Analysis of world music traditions. Analyze and articulate knowledge regarding musical elements, such as timbre, tuning, improvisation, sound patterns, compositional form, and performance techniques of music genres studied. Development of listening and transcription skills as they relate to world music.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61174 ANALYSIS OF WESTERN ART MUSIC 3 Credit Hours
(Slashed with MUS 71174) Application of standard analytical techniques to Western art music of Baroque, Classical, Romantic and early 20th - century period music. Analytical focus given to study of the standard musical forms and compositional procedures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61181 POST-TONAL THEORY 3 Credit Hours
A study of the analysis, theories, and compositional strategies applied to the music composed after 1900.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61191 SEMINAR IN MUSIC SINCE 1900 3 Credit Hours
(Slashed with MUS 71191) (Repeatable for a maximum of 6 credit hours) Study of analytical techniques and procedures appropriate for the major musical styles of the period. Study of representative compositions through applied analysis. Individual projects in areas of particular interest to the student.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 61211 APPLIED MUSIC - GRADUATE COMPOSITION 2,4 Credit Hours
(Repeatable for credit) Original composition using longer forms of music for diverse media, including multimedia and electronic composition.
Prerequisite: Composition concentration within the Performance major; and graduate standing.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 61331 BAND ARRANGING 2 Credit Hours
Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62171 MUSIC FROM WORLD CULTURES 3 Credit Hours
(Slashed with MUS 82171) Study of selected art, folk and popular music from world cultures with emphasis on listening skills, cultural context, function, organology and technical matters of style.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62411 MUSIC BIBLIOGRAPHY AND RESEARCH METHODS 2 Credit Hours
(Slashed with MUS 82411) Study of techniques of music research and creative musical writing including special projects, reports and readings. This is a hybrid course consisting of both in-class meetings and discussions, as well as online interaction and discussion boards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 62412 INTRODUCTION TO ETHNOMUSICOLOGY 3 Credit Hours
A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription, analysis and bibliography.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62414 ISSUES AND TRENDS IN ETHNOMUSICOLOGY 3 Credit Hours
This course studies various issues and trends in the field of ethnomusicology, from its inception to present. The focus centers on intensive discussion of theories, philosophies and paradigms that have dominated the scrutiny of music over the decades and their application in analysis, fieldwork and lab method.
Prerequisite: MUS 62412; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62511 MUSIC HISTORY I 2 Credit Hours
A study of Western music history from Jewish and medieval Roman practices through Josquin, as well as selected common-practice period applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62521 MUSIC HISTORY II 2 Credit Hours
A study of Western music history from the Reformation and Counter-Reformation through Bach and Handel.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62531 MUSIC HISTORY III 2 Credit Hours
A study of Western music history in the Rococo, Classical, and Romantic periods through Brahms and Wagner.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62541 MUSIC HISTORY IV 2 Credit Hours
A study of Western music from Debussy and Mahler through the major trends and composers of the recent past.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62601 SEMINAR IN MUSICS OF AFRICA 3 Credit Hours
(Slashed with MUS 72601) Specialized investigations of music cultures of Africa.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 62602 SEMINAR IN MUSICS OF THE AMERICAS 3 Credit Hours
Specialized investigation of music cultures of the Americas.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 62603 SEMINAR IN MUSICS OF THE MIDDLE EAST 3 Credit Hours
(Slashed with MUS 72603) Specialized investigation of music cultures of the Middle East.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 62604 SEMINAR IN MUSICS OF EAST ASIA 3 Credit Hours
Specialized investigation of music cultures of East Asia.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 62606 SEMINAR IN MUSICS OF SOUTHEAST ASIA 3 Credit Hours
(Slashed with MUS 72606) Specialized investigation of music cultures in Southeast Asia.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 63099 CAPSTONE PROJECT 4 Credit Hours
(Repeatable for credit) Working under the supervision of a capstone advisor, students demonstrate synthesis of knowledge through the development of curricular project applicable to student's area of teaching.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

MUS 63241 INQUIRY IN MUSIC TEACHING I 3 Credit Hours
Conducting and presenting assessment, evaluation, and research of music teaching and learning with emphasis on quantitative methodologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63242 INQUIRY IN MUSIC TEACHING AND LEARNING II 3 Credit Hours
Conducting and presenting assessment, evaluation and research of music teaching and learning with emphasis on qualitative methodologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63261 ADVANCED STUDIES IN TEACHING CHORAL MUSIC 3 Credit Hours
Development of teaching materials, an annotated choral repertory list and instructional strategies for choral music with emphasis on rehearsal procedures and analytical techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63262 ADVANCED STUDIES IN TEACHING INSTRUMENTAL MUSIC 3 Credit Hours
Development of teaching materials, an annotated instrumental repertory list and instructional strategies for instrumental music with emphasis on rehearsal procedures and analytical techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63263 ADVANCED STUDIES IN TEACHING GENERAL MUSIC 3 Credit Hours
Program development, inclusion, instructional materials and innovative teaching techniques for general music programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63272 LEARNING THEORIES IN MUSIC 3 Credit Hours
Application of current theories of learning to the teaching and learning of music.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63273 PSYCHOLOGY OF MUSIC 3 Credit Hours
The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63274 FOUNDATIONS OF MUSIC EDUCATION 3 Credit Hours
Study of the field of music education from perspectives of sociology, psychology, philosophy, curriculum, history and comparative curricula.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63283 RESEARCH IN MUSIC EDUCATION 3 Credit Hours
Introduction to research techniques in music education including topic selection, data collection analysis and interpretation, and presentation of information in written form.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63284 HISTORY OF MUSIC EDUCATION 3 Credit Hours
Study of historical approaches to music education with emphasis on significant people, places and events that have influenced music teaching and learning music.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63285 PHILOSOPHY OF MUSIC EDUCATION 3 Credit Hours
(Slashed with MUS 73285) Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63286 SOCIOLOGY OF MUSIC EDUCATION 3 Credit Hours
Sociology in Music Education focuses on sociocultural issues in music teaching and learning. Students consider contexts of society, background, race, ethnicity, culture, diversity, and pluralism as applicable in music education situations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 64111 CONDUCTING PROJECTS:CHORAL 2 Credit Hours
(Repeatable for credit) Choral conducting techniques, score analysis, rehearsal procedures and study of musical style.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 64121 CONDUCTING PROJECTS:BAND 2 Credit Hours
(Repeatable for credit) Band conducting techniques, score analysis rehearsal procedures and study of musical style.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 64131 CONDUCTING PROJECTS:ORCHESTRA 2 Credit Hours
(Repeatable for credit) Orchestra conducting techniques, score analysis, rehearsal procedures and study of musical style. The course will focus on score study, advanced conducting technique and preparations for graduate school conducting programs around the county.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66111 APPLIED MUSIC-GRADUATE PIANO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 66191 SEMINAR IN ACCOMPANYING 2 Credit Hours
(Repeatable for credit) Studio performances of standard repertoire for piano and voice or instruments; investigation of other topics relating to the accompanying of the repertoire.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 66311 APPLIED MUSIC-GRADUATE VOICE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66411 APPLIED MUSIC-GRADUATE VIOLIN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66412 APPLIED MUSIC-GRADUATE VIOLA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66413 APPLIED MUSIC-GRADUATE CELLO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66414 APPLIED MUSIC-GRADUATE DOUBLE BASS 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66511 APPLIED MUSIC-GRADUATE FLUTE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66512 APPLIED MUSIC-GRADUATE OBOE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66513 APPLIED MUSIC-GRADUATE CLARINET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66514 APPLIED MUSIC-GRADUATE BASSOON 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66515 APPLIED MUSIC-GRADUATE SAXOPHONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66611 APPLIED MUSIC-GRADUATE TRUMPET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66612 APPLIED MUSIC-GRADUATE HORN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66613 APPLIED MUSIC-GRADUATE TROMBONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66615 APPLIED MUSIC-GRADUATE TUBA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66711 APPLIED MUSIC-GRADUATE PERCUSSION 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66811 APPLIED MUSIC - GRADUATE CONDUCTING 2,4 Credit Hours
(Repeatable for credit) This course is designed to provide graduate students with advanced training in the art of conducting. Building upon foundational conducting techniques, students delve deeper into repertoire analysis, score study, rehearsal strategies and performance practice. Emphasis is placed on developing a refined conducting style, effective communication with musicians and a comprehensive understanding of the unique challenges and opportunities presented by this medium.
Prerequisite: Conducting concentration within the Performance major; and graduate standing.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 67243 TECHNOLOGY FOR MUSIC TEACHING 3 Credit Hours
Study of a variety of music software and hardware; students design and implement a project pertaining to their professional interest.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 68092 GRADUATE INTERNSHIP 2-6 Credit Hours
(Repeatable for credit) The culminating experience for students in the ethnomusicology graduate program. Students pursue an internship with area organizations focused on cultural studies where music is a fundamental component. Entrepreneurial projects associated with ethnomusicological research and activities may substitute for the internship experience. Students submit a substantial written report associated with the internship/project and complete a final oral exam.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68099 CAPSTONE PROJECT 2-6 Credit Hours
(Repeatable for credit) The culminating experience for students in the ethnomusicology graduate program. Students complete a curricular project focusing on world music or a series of papers focusing on performance practices of varying world musics. Students complete a final oral exam covering their research. Students pursuing the performance focus will also complete a lecture recital.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68214 PIANO PEDAGOGY I 2 Credit Hours
Individual and group piano teaching, including teaching methods and the history of piano pedagogy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 68215 PIANO PEDAGOGY II 2 Credit Hours
Individual and group piano teaching. Building an independent studio and career networking.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 68299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: MUS 68199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68598 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for master's level graduate students.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

MUS 68687 RECITAL 1-3 Credit Hours
(Repeatable for credit) The culminating experience required of all performance and conducting majors.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68698 ESSAY 1-3 Credit Hours
(Repeatable for credit)Required of performance majors and music education majors who choose the recital and essay option.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 70295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours
(Slashed with MUS 40295 and MUS 50295)(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.
Prerequisite: Music major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MUS 71091 MUSIC LEARNING THEORY APPROACH 3 Credit Hours
(Slashed with MUS 41091 and MUS 51091)(Repeatable for credit) Through the lens of Gordon's Music Learning Theory, the course is focused on P-6 general music and developing effective strategies for learner-centered growth, musicianship, movement, curriculum, inclusion and assessment. This course is offered in conjunction with the Gordon Institute for Music Learning (GIML) and satisfies requirements for GIML PDLC EGM level 1.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Seminar
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 71121 HISTORY OF MUSIC THEORY 3 Credit Hours
A study of the history of Western music theory from the ancient Greeks to the twentieth century.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71131 SCHENKERIAN ANALYSIS 3 Credit Hours
An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71141 16TH-CENTURY COUNTERPOINT 3 Credit Hours
Two-, three- and four-part vocal counterpoint in 16th century style.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71151 18TH-CENTURY COUNTERPOINT 3 Credit Hours
Technique of writing counterpoint in 18th-century style especially that of J. S. Bach.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71171 ANALYTICAL TECHNIQUES I 2 Credit Hours
The application of standard analytical techniques to works of various style periods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71172 ANALYTICAL TECHNIQUES II 2 Credit Hours
The application of standard analytical techniques to works of various style periods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71181 POST-TONAL THEORY 3 Credit Hours
A study of the analysis, theories, and compositional strategies applied to the music composed after 1900.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71191 SEMINAR IN MUSIC SINCE 1900 3 Credit Hours
(Slashed with MUS 61191) (Repeatable for a maximum of 6 credit hours) Study of analytical techniques and procedures appropriate for the major musical styles of the period. Study of representatives compositions through applied analysis. Individual projects in areas of particular interest to the student.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 71195 SPECIAL PROJECTS IN THEORETICAL STUDIES 3 Credit Hours
(Repeatable for credit) Individual and class investigation into specific methods of analysis and their application to music in various styles.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71291 SEMINAR IN POST-TONAL AND RECENT MUSIC 3 Credit Hours
(Slashed with MUS 41291 and MUS 51291) Seminar covering selected topics about music theory from the early 20th century to recent decades, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 71331 BAND ARRANGING 2 Credit Hours
Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71391 SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY 3 Credit Hours
(Slashed with MUS 41391 and MUS 51391) Seminar covering selected topics about music theory from the high Renaissance to late Romantic period, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72131 MUSIC OF THE UNITED STATES 3 Credit Hours
(Slashed with MUS 42131 and MUS 52131) Historical survey of music in the United States including Native American music, minstrelsy, New England psalmody, jazz and Latin American influences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72161 HISTORY OF JAZZ 3 Credit Hours
(Slashed with MUS 42161 and MUS 52161) The evolution of jazz from its origin to present.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72181 POPULAR WORLD MUSIC 3 Credit Hours
(Slashed with MUS 42181 and MUS 52181) A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Graduate level introduces cultural theory related to popular studies. Modern media, especially the Internet, is an integral component of the course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72227 WIND BAND LITERATURE 3 Credit Hours
(Slashed with MUS 42227 and MUS 52227) Historical survey of wind band literature and the development of the ensemble.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72271 CHORAL LITERATURE 3 Credit Hours
(Slashed with MUS 42271 and MUS 52271) Study of Western European choral literature from approximately 1450 to the early 19th century, i.e., Renaissance, Baroque and Classical periods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72291 SEMINAR IN MUSIC HISTORY AND LITERATURE 3 Credit Hours
(Slashed with MUS 42291 and MUS 52291)(Repeatable for credit) Selected problems of research for music history and literature. Each student is responsible for presenting papers for discussion.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72345 ORFF SCHULWERK TEACHER EDUCATION LEVEL I 3 Credit Hours
(Slashed with MUS 42345 and MUS 52345)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level I is designed as an introductory experience to Orff Schulwerk pedagogy and is appropriate for anyone with a music degree.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 72346 ORFF SCHULWERK TEACHER EDUCATION LEVEL II 3 Credit Hours
(Slashed with MUS 42346 and MUS 52346)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level II is designed as an intermediate experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level I at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 72345; and doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 72347 ORFF SCHULWERK TEACHER EDUCATION LEVEL III 3 Credit Hours
(Slashed with MUS 42347 and MUS 52347)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level III is designed as an advanced experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level II at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 72346; and doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 72412 INTRODUCTION TO ETHNOMUSICOLOGY 3 Credit Hours
A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription analysis and bibliography.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72511 MUSIC HISTORY I 2 Credit Hours
A study of Western music history from Jewish and medieval Roman practices through Josquin, as well as selected common-practice period applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72521 MUSIC HISTORY II 2 Credit Hours
A study of Western music history from the Reformation and Counter-Reformation through Bach and Handel.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72531 MUSIC HISTORY III 2 Credit Hours
A study of Western music history in the Rococo, Classical, and Romantic periods through Brahms and Wagner.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72541 MUSIC HISTORY IV 2 Credit Hours
A study of Western music from Debussy and Mahler through the major trends and composers of the recent past.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72601 SEMINAR IN MUSICS OF AFRICA 3 Credit Hours
(Slashed with MUS 62601) Specialized investigations of music cultures of Africa.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72602 SEMINAR IN MUSICS OF THE AMERICAS 3 Credit Hours
Specialized investigation of music cultures of the Americas.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72603 SEMINAR IN MUSICS OF THE MIDDLE EAST 3 Credit Hours
(Slashed with MUS 62603) Specialized investigation of music cultures of the Middle East.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72604 SEMINAR IN MUSICS OF EAST ASIA 3 Credit Hours
Specialized investigation of music cultures of East Asia.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72606 SEMINAR IN MUSICS OF SOUTHEAST ASIA 3 Credit Hours
(Slashed with MUS 62606) Specialized investigation of music cultures in Southeast Asia.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72691 SEMINAR IN ETHNOMUSICOLOGY 3 Credit Hours
(Repeatable for credit)Specialized topics in ethnomusicology for advanced students.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 73261 ADVANCED STUDIES IN SECONDARY CHORAL AND GENERAL MUSIC 3 Credit Hours
Review curriculum in secondary general music and development of innovative teaching materials and strategies. Analytical techniques, rehearsal procedures, repertory suitable for secondary school choral ensembles.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73262 ADVANCED STUDIES IN INSTRUMENTAL MUSIC 3 Credit Hours
Study of curriculum, method techniques and materials in school instrumental music education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73263 ADVANCED STUDIES IN GENERAL MUSIC FOR CHILDREN 3 Credit Hours
Study of trends in philosophy, curriculum and program development, instructional materials and innovative teaching techniques for elementary school and early childhood general music.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 43264 and MUS 53264) In this course, students participate in small rock ensembles and examine the pedagogy of that type of ensemble. Lectures and demonstrations include topics such as equipment selection, repertoire selection and performance techniques. The course also emphasizes techniques for amplifying rock ensembles, and students learn fundamental techniques for recording rock ensembles.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73272 LEARNING THEORIES IN MUSIC 3 Credit Hours
Application of current theories of learning to the teaching and learning of music.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73273 PSYCHOLOGY OF MUSIC 3 Credit Hours
The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73274 FOUNDATIONS OF MUSIC EDUCATION 3 Credit Hours
Study of the influences on the field of music education, including sociology, psychology, philosophy, curriculum and history.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73283 RESEARCH IN MUSIC EDUCATION 3 Credit Hours
Introduction to research techniques in music education including topic selection, data collection analysis and interpretation and presentation of information in written form.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73284 HISTORY OF MUSIC EDUCATION 3 Credit Hours
Study of historical approaches to music education with emphasis on significant people, places and events that have influenced teaching and learning music.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73285 PHILOSOPHY OF MUSIC EDUCATION 3 Credit Hours
(Slashed with MUS 63285) Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73286 SOCIOLOGY OF MUSIC EDUCATION 3 Credit Hours
Sociology in Music Education focuses on sociocultural issues in music teaching and learning. Students consider contexts of society, background, race, ethnicity, culture, diversity and pluralism as applicable in music education situations.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73295 SPECIAL TOPICS IN MUSIC EDUCATION 3 Credit Hours
(Repeatable for credit)Advanced study in selected topics that will vary from semester to semester depending on needs and interests of students.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 74111 CONDUCTING PROJECTS:CHORAL 2 Credit Hours
(Repeatable for credit) Choral conducting techniques, score analysis, rehearsal procedures and study of musical style.
Prerequisite: Doctoral standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 74121 CONDUCTING PROJECTS:BAND 2 Credit Hours
(Repeatable for credit) Band conducting techniques, score analysis, rehearsal procedures and study of musical style.
Prerequisite: Doctoral standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 74131 CONDUCTING PROJECTS:ORCHESTRA 2 Credit Hours
(Repeatable for credit) Orchestra conducting techniques, score analysis rehearsal procedures and study of musical style.
Prerequisite: Doctoral standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 75131 KENT STATE OPERA THEATRE WORKSHOP 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 43131 and MUS 53131) A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 9.5 other
Grade Mode: Standard Letter

MUS 75141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour
(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. An audition in required before registering for this course.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4.5 other
Grade Mode: Standard Letter

MUS 75212 ORCHESTRA 1 Credit Hour
(Slashed with MUS 45212 and MUS 55212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

MUS 75223 WIND ENSEMBLE 1 Credit Hour
(Slashed with MUS 45223 and MUS 55223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

MUS 75231 JAZZ ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music literature in the jazz idiom.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 7.5 other
Grade Mode: Standard Letter

MUS 75271 NEW MUSIC ENSEMBLE 1 Credit Hour
(Repeatable for credit)(Slashed with MUS 45271 and MUS 55271) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 75301 AFRICAN ENSEMBLE 1 Credit Hour
(Slashed with MUS 45301 and MUS 55301)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with traditional and popular music and dance from Africa and the African diaspora. Specific traditions studied may include, but are not limited to, Ghana, Guinea, Senegal, Nigeria, Haiti, Cuba, Puerto Rico, Trinidad and Tobago and the United States. This course is performance and community focused.
Prerequisite: Doctoral standing.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 75302 CARIBBEAN STEELBAND 1 Credit Hour
(Slashed with MUS 45302 and MUS 55302)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with steelband traditions of Trinidad and Tobago. Specific traditions and genres studied may include, but are not limited to, pan, calypso, soca, Latin, bomb tunes, carnival and tamboo-bamboo. This ensemble is performance and community focused.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 75311 CHAMBER MUSIC 1,2 Credit Hour
(Repeatable for credit) (Slashed with MUS 45311 and MUS 55311) The study and performance of music for small ensembles.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 75314 WORLD MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 45314 and MUS 55314)(Repeatable for maximum of 8 credit hours) This course teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming, Thai Piphat. Specific traditions studied include areas of specialization of instructors and/or advanced student participants.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 75315 ASIAN MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 45315 and MUS 55315)(Repeatable for credit) This course teaches performance practice and cultural etiquette associated with traditional and popular Asian music genres, e.g., Thai, Chinese and Indian classical music.
Prerequisite: Doctoral standing.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 78251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours
(Slashed with MUS 48251 and MUS 58251) The principles and techniques of teaching music theory.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 78393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 81174 ANALYSIS OF WESTERN ART MUSIC 3 Credit Hours
Applicaon of standard analycal techniques to Western art music of Baroque, Classical, Romanc and early 20th -century period music. Analycal focus given to study of the standard musical forms and composional procedures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 81196 INDIVIDUAL INVESTIGATION IN MUSIC THEORY 1-6 Credit Hours
(Repeatable for credit)Intensive research or readings on selected topic beyond normal course coverage.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 81211 COMPOSITION 2,4 Credit Hours
(Repeatable for credit) Refinement of compositional techniques culminating in large-scale works for media of student's choice.
Prerequisite: Doctoral standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 82171 MUSIC FROM WORLD CULTURES 3 Credit Hours
(Slashed with MUS 62171) Study of selected art, folk and popular music from world cultures with emphasis on listening skills, cultural context, function, organology and technical matters of style.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 82291 SEMINAR IN MUSICOLOGY 3 Credit Hours
(Repeatable for credit) Examination into primary sources, treatises and writings in selected areas in Western music. Topics selected range from medieval period to present.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 82396 INDIVIDUAL INVESTIGATION IN MUSICOLOGY 1-6 Credit Hours
(Repeatable for credit)Intensive research or readings on selected topic beyond normal course coverage.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 82411 MUSIC BIBLIOGRAPHY AND RESEARCH METHODS 2 Credit Hours
(Slashed with MUS 62411) Study of techniques of music research and creative musical writing including special projects, reports and readings. This is a hybrid course consisting of both in-class meetings and discussions, as well as online interaction and discussion boards.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 82696 INDIVIDUAL INVESTIGATION IN ETHNOMUSICOLOGY 1-6 Credit Hours
(Repeatable for credit) Intensive research or readings on selected topic beyond normal course coverage.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 83196 INDIVIDUAL INVESTIGATION IN MUSIC EDUCATION 1-6 Credit Hours
(Repeatable for credit)Intensive research or readings on selected topic beyond normal course coverage.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 86001 SEMINAR IN MUSIC EDUCATION I 3 Credit Hours
This courses prepares students for doctoral study in music education. Topics include understanding tasks and skills necessary for PhD study in music education, along with navigating this study at Kent State. Students interact in seminar format as part of a cohort of students pursuing the study of music teaching and learning.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 86002 SEMINAR IN MUSIC EDUCATION II 3 Credit Hours
This doctoral level course is designed to ready students for final activities of PhD study in music education. Goals include preparation for qualifying exams, understanding of the research proposal process, and exploration of advanced research methodologies and protocols necessary to undertake a dissertation and or significant research project.
Prerequisite: CI 87000 and MUS 86001 and RMS 75510; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 88199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Pass candidacy examination; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 88299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: MUS 88199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 88598 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy examinations.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

Neuroscience (NEUR)

NEUR 10100 SEMINAR IN NEUROSCIENCE 1 Credit Hour
Course provides an overview of the neuroscience field, including areas of neuroscience research, foundational principles in neuroscience, current questions and techniques, career possibilities and examples of research being conducted by neuroscience faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

NEUR 30100 NEUROSCIENCE I 3 Credit Hours
(Crosslisted with BSCI 30100) Course covers basic principles in neuroscience, from the cellular to systems levels. Provides students a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems and motor pathways.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NEUR 30200 NEUROSCIENCE II 3 Credit Hours
(Cross-listed with BSCI 30200) Course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. Course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control and higher order cognitive functioning.
Prerequisite: NEUR 30100 or BSCI 30100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NEUR 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour
(Cross-listed with BSCI 30300) Accompanying laboratory for NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception. .
Prerequisite: NEUR 30100 or BSCI 30100 with minimum C grade.
Pre/corequisite: NEUR 30200 or BSCI 30200.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

NEUR 30889 BEAUTY AND THE BRAIN: EXPLORING FLORENCE THROUGH THE SENSES (DIVG) (ELR) 3 Credit Hours
(Cross-listed with BSCI 30889) This is an introductory sensory neuroscience course for undergraduate students. By exploring the sensory richness of Florence, Italy, students delve into the biology of their sensory systems. Through a combination of field trips, laboratory exercises, lectures and presentations, students learn how our sensory systems function to change diverse environmental signals into information that can be interpreted by the brain. Site visits are used to highlight specific sensory systems and laboratories/lectures provide the conceptual framework. Together, these experiences lay the foundation for students' understanding of vision, taste, smell, touch and hearing in the unique environment of Florence, Italy.
Prerequisite: Special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

NEUR 40192 INTERNSHIP IN NEUROSCIENCE (ELR) 3-12 Credit Hours
Work experience and training in neuroscience under the supervision of appropriate personnel in a government agency, nonprofit organization or business.
Prerequisite: NEUR 30200; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-36 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NEUR 40195 SPECIAL TOPICS IN NEUROSCIENCE 1-3 Credit Hours
Topics in neuroscience vary per course offering.
Prerequisite: NEUR 30200.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-3 lecture, 2-6 lab
Grade Mode: Standard Letter

NEUR 40196 INDIVIDUAL INVESTIGATION IN NEUROSCIENCE 1-3 Credit Hours
(Repeatable for credit) Research study under the guidance of a neuroscience faculty member and under the direction of a Biological Sciences faculty mentor.
Prerequisite: NEUR 30200; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

NEUR 40385 CURRENT TOPICS IN NEUROSCIENCE 3 Credit Hours
(Cross-listed with BSCI 40385)(Slashed with BSCI 50385 and BSCI 70385) This is a discussion- and readings-based course that focuses on cellular and molecular mechanisms underpinning functions of the central nervous system. Topics covered include synaptic plasticity; neuron-glia interactions; gene-environment interactions involved in learning, memory and disease; big data in neuroscience; and more. During this course, students develop knowledge and understanding of communication between brain cells; how gene-environment interactions impact learning and memory, behavior and disease; and modern techniques used in neuroscience research. Students read, summarize and discuss primary research papers in the context of neuroscience-related topics.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NEUR 40429 NEURAL CONTROL OF REPRODUCTIVE FUNCTION 2 Credit Hours
(Cross-listed with BSCI 40429) (Slashed with BSCI 50429 and BSCI 70429) Course explores the role of the brain in regulating functions that are essential to ensure successful reproduction. Topics covered include an overview of the endocrine and neuroendocrine systems involved in reproduction, as well as regulation of puberty, fertility, pregnancy and lactation. The course also explores disorders, such as polycystic ovary syndrome, affecting the central regulation of reproduction.
Prerequisite: BSCI 30130 or BSCI 40430 or NEUR 30100.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NEUR 47387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours
(Cross-listed with PSYC 47387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. This course introduces students to the behavioral effects of psychoactive therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Nursing (NURS)

NURS 10060 INTRODUCTION TO PROFESSIONAL NURSING PRACTICE 3 Credit Hours
Focus on nursing's development as a discipline and profession. The art and science of nursing including the Scope and Standards of Practice, nursing theory, evidence based practice, and therapeutic communication will be explored.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 20005 CLINICAL CALCULATIONS IN NURSING I 1 Credit Hour
This course focuses on essential mathematical and reasoning skills that are required for clinical nursing care. Content includes converting units of measure, calculating dosages and interpreting the language of medication administration. Students must be admitted to the professional nursing sequence.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NURS 20015 CLINICAL CALCULATIONS IN NURSING II 2 Credit Hours
Clinical Calculations II continues to focus on essential mathematical and reasoning skills that are required for clinical nursing care including safe medication administration. Introduces calculations required for parenteral medication administration and beginning competencies for clinical application.
Prerequisite: NURS 20005 and NURS 20020 with a minimum grade of C.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 20020 FOUNDATIONS OF ASSESSMENT AND COMMUNICATION IN NURSING 3 Credit Hours
Individuals are assessed as members of families and community members. Communication in nursing is explored. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

NURS 20025 PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING I 3 Credit Hours
Introduction to the basic principles of pathophysiology and pharmacology. Course offers a general understanding of pathophysiologic processes of body systems and the major classes of pharmacotherapeutic agents that are used to treat these pathophysiologic processes. The course focuses on mechanisms of action, effects of medications, pharmacodynamics, pharmacokinetics, as well as principles that guide the administration of medications, dosage and nursing responsibilities. Age and cultural differences related medication administration are addressed throughout the course. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: NURS 20020 or NURS 20040 (as a corequisite); and Nursing major; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 20030 FOUNDATIONS OF NURSING INTERVENTIONS 5 Credit Hours
Foundations of nursing interventions enables students to continue to develop nursing knowledge and skills to improve the health of individuals. It requires the use of evidence-based practice, professional communication, safety principles, clinical judgment and the nursing process. This course introduces person-centered care to adults in a clinical setting.
Prerequisite: NURS 20020 with minimum C grade.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 2 lecture, 2.4 lab, 5.2 other
Grade Mode: Standard Letter

NURS 20035 ACCELERATED CLINICAL CALCULATIONS 2 Credit Hours
This course focuses on essential mathematical and reasoning skills that are required for safe clinical practice. Content includes converting units of measure, calculating dosages, interpreting the language of medication administration, calculations required for parenteral medication administration, and competencies for clinical application.
Pre/corequisite: NURS 20040.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 20040 FUNDAMENTALS OF NURSING 8 Credit Hours
Course focuses on selected aspects of nursing care to improve the health of individuals within families and communities. Individuals are assessed as members of families and community members. Communication in nursing is explored. Principles of the interpersonal process, nursing process and professional nursing are utilized. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: CHEM 10050 or CHEM 10055 or CHEM 10060; and BSCI 21010 and BSCI 21020; and BSCI 20021 or BSCI 30171; and special approval.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 4 lecture, 4 lab, 6 other
Grade Mode: Standard Letter

NURS 20950 HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS 3 Credit Hours
Examines theoretical principles and concepts of human growth and development throughout the life cycle applicable to personal and professional activities essential to the accurate assessment of human needs and understanding human behaviors.
Prerequisite: PSYC 11762; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Nursing/Associate Degree, ITAG Nursing/Associate Degree

NURS 21095 SPECIAL TOPICS IN NURSING 2-4 Credit Hours
(Repeatable for credit)Scheduled topics of interest to faculty and students.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter

NURS 21096 INDIVIDUAL INVESTIGATION IN NURSING 2-4 Credit Hours
(Repeatable for credit) Designed for the student interested in exploration and research of material not covered in required nursing courses.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-4 other
Grade Mode: Standard Letter

NURS 30010 PARENT AND NEWBORN NURSING 4 Credit Hours
This course prepares students to deliver high-quality and safe nursing care to the childbearing person, family and neonate. It integrates the nursing process, evidence-based practice, critical thinking, interprofessional partnerships, social determinants of health and person-centered culturally sensitive care. A holistic approach is used to implement the nursing process for obstetrical and neonatal populations. Course content ranges from pre-conception to the postpartum and neonatal periods. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: Minimum C grade in NURS 20020 and NURS 20030 or in NURS 20040; and NURS 20950.
Corequisite: NURS 30020.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 2 lecture, .8 lab, 4 other
Grade Mode: Standard Letter

NURS 30015 PHARMACOLOGY FOR INFANTS, CHILDREN AND MATERNAL CHILD HEALTH 3 Credit Hours
(Repeatable for credit) Provides additional information to better understand the complexity of pediatric medications and their safe delivery to pediatric patients of all ages. Also, identifies safe practices for medication administration to mothers and their newborns.
Pre/corequisite: NURS 30010 or NURS 30020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 30020 HEALTH CARE OF CHILDREN 4 Credit Hours
Course prepares students to provide comprehensive healthcare to a diverse population of children and their families through the incorporation of developmental theories and evidence-based concepts specific to children.
Prerequisite: Minimum C grade in NURS 20020 and NURS 20030 or in NURS 20040.
Corequisite: NURS 30010.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 2 lecture, .53 lab, 4 other
Grade Mode: Standard Letter

NURS 30025 PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING II 3 Credit Hours
This course is a continuation of the study of pathophysiology and pharmacology for nursing students. It provides a deeper understanding of pathophysiologic processes of body systems, the management of disease states, interpretation of lab values and the analysis of symptomology and nursing indicators to allow students to initiate appropriate nursing actions as related to pharmacology and pathophysiology. This course explores assessment of therapeutic effects, side effects and adverse reactions of medications; it presents teaching skills needed to enhance patient education and pharmacologic literacy. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: NURS 20025 with a minimum C grade; and Nursing major; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 30035 NURSING OF ADULTS ACROSS THE LIFESPAN 9 Credit Hours
Course emphasizes the care of adults, focused on health promotion, prevention of episodic illness and maintenance of health status. Gerontologic changes and rehabilitation needs are addressed. Utilizes nursing process as a foundation to provide nursing care. Course is composed of classroom and clinical experience in the acute, chronic and rehabilitation care settings. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able to register for this course.
Prerequisite: Minimum C grade in the following courses: (NURS 20005 and NURS 20015) or NURS 20035; and (NURS 20020 and NURS 20030) or NURS 20040; and NURS 20950.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 5 lecture, 1.6 lab, 8 other
Grade Mode: Standard Letter

NURS 30050 BASIC NURSING INFORMATICS 2 Credit Hours
Focuses on the use of nursing informatics for clinical nursing practice, inquiry and communication. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: NURS 20020 with a minimum C grade; and NURS 20030 or NURS 20040 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 30070 HEALTH CARE POLICY (WIC) 3 Credit Hours
This course looks at the organizational and societal context in which health care is delivered in the United States. The course is a comprehensive introduction to health policy that prepares students to participate in eliminating health inequity through the application of the policy process and advocacy skills beyond the bedside. It focuses on the role of the nurse in advocating for individuals using effective professional written and oral communication at the organizational, state and federal levels. The course explores the distinction between regulations, laws and policies through the exploration of contemporary and historical health policy considerations that impact the cost, quality and access to healthcare. The course emphasizes the use of various professional and public resources and evidence from the profession of nursing to inform policy.
Prerequisite: NURS 20030 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

NURS 30071 HEALTH CARE POLICY FOR THE B.S.N. NURSE 2 Credit Hours
This course looks at the organizational and societal context in which health care is delivered in the United States. The course is a comprehensive introduction to health policy that prepares students to participate in eliminating health inequity through the application of the policy process and advocacy skills beyond the bedside. It focuses on the role of the nurse in advocating for individuals using effective professional written and oral communication at the organizational, state and federal levels. The course explores the distinction between regulations, laws and policies through the exploration of contemporary and historical health policy considerations that impact the cost, quality and access to healthcare. The course emphasizes the use of various professional and public resources and evidence from the profession of nursing to inform policy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 31010 APPLICATIONS FOR STATISTICAL FINDINGS FOR EVIDENCE BASED PRACTICE 3 Credit Hours
An introduction to statistical techniques with an emphasis on application in the health care setting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 31095 SPECIAL TOPICS IN NURSING 2-4 Credit Hours
(Repeatable for credit)Scheduled topics of interest to faculty and students.
Prerequisite: NURS 20950.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter

NURS 31096 INDIVIDUAL INVESTIGATION 2-4 Credit Hours
(Repeatable for credit)Designed for the student interested in exploration and research of material not covered in required nursing courses.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-4 other
Grade Mode: Standard Letter

NURS 32060 TRANSCULTURAL NURSING ADVANCING CULTURAL HUMILITY 2 Credit Hours
This course provides students with the opportunity to explore and understand the role of the transcultural nurse and the significance of cultural humility. Cultural humility serves as the basis for good moral education toward optimal healthcare and culturally competent and effective nursing care. Cultural humility recognizes that growth toward intercultural competence requires a lifelong journey of learning about and experiencing other cultures.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Laboratory, Combined Lecture and Lab, Seminar
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

NURS 35020 TRANSCULTURAL NURSING AND HEALTH CARE 3 Credit Hours
Provides students with the opportunity to explore and understand the role of the transcultural nurse in the care of patients from multiple and diverse cultural groups.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 35040 COMPLEMENTARY AND INTEGRATIVE HEALTH 3 Credit Hours
(Repeatable for credit) Explores and critically analyzes complementary and integrative health therapies, products, and supplements primarily being used in the United States through the review of evidenced based research and case studies. Synthesizing the exploration of complementary and integrative health practices that are often used in conjunction with traditional Western medicine, students examine the evolving Integrative Health, which has also been called Integrative Medicine, or Complementary and Alternative Medicine.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 35050 ADVANCED MEDICAL SURGICAL SIMULATION 3 Credit Hours
Provides students opportunities for critical thinking and decision making through the use of human patient simulation. Theory, content and hands on application advance students' clinical judgement and competence in caring for patients of advancing complexity and those in crisis situations.
Prerequisite: NURS 20030 with a minimum C grade.
Corequisite: NURS 30010, NURS 30020 and NURS 30035.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 lecture, 1.5 lab
Grade Mode: Standard Letter

NURS 35060 CRITICAL THINKING AND TEST TAKING SKILLS 2 Credit Hours
(Repeatable once for credit) The focus of this course is to understand the art of analyzing and evaluating one's thinking. The focus is on how a person thinks and how they can improve their thinking. This course is designed for nursing students seeking to expand their critical thinking ability and improve studying and test taking skills. This course promotes analysis and evaluation of problem solving abilities and requires self-directed, self-disciplined and corrective thinking. The student will explore and develop individual plans with the course faculty person to improve their studying and test taking skills.
Prerequisite: Enrolled in the college of nursing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 35065 STUDENTS HELPING STUDENTS: A STUDENT MENTORING COURSE 2 Credit Hours
(Repeatable once for credit) This course is designed for the junior or senior student that has demonstrated a strong understanding of one or more course topics and who desires to function in the role of a mentor or tutor. Throughout the course the student will utilize skills learned in the course while engaging in a mentor tutor relationship with students of a lower class rank in need of mentoring and or tutoring.
Prerequisite: Nursing major; and junior and senior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 35070 NURSING ETHICS IN CLINICAL PRACTICE 3 Credit Hours
This course focuses on the principles and the theories related to the ethical challenges faced by today's health care professionals. It explores the ethical obligations of the professional nurse's role as a member of the interdisciplinary team, provider, leader and manager of care. This course further emphasizes methods of analyzing and resolving moral dilemmas using clinical decision making skills that can be applied to the clinical setting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 35075 INTRODUCTION TO FORENSIC NURSING 3 Credit Hours
This course will explore the basic concepts and foundations of forensic nursing in both criminal and civil contexts. The different roles and responsibilities of the forensic nurse in the investigation of violence and trauma, as well as the integration of scientific, ethical and legal principles into the acute care and community nursing practice will be examined. Providing specialized, holistic care of victims and families will be stressed. Students will review victimology, evaluate prevalent population-based health issues and explore forensic nursing interventions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 35080 CONTEMPORARY ISSUES IN NURSING PRACTICE AND HEALTH CARE 3 Credit Hours
This course provides the student an opportunity to focus on diverse contemporary issues in professional nursing practice and the health care environment. Content promotes critical thinking pertaining to emerging issues in society and how the topics impact practicing nurses, the nursing profession, the delivery of care, and the health-wellness continuum. This course will encompass evidence-based theory, which correlates with the relevant issues and explores avenues for improved health care.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 40003 COMPARATIVE HEALTH CARE: NURSING IN NORTHERN IRELAND 2-3 Credit Hours
Includes a 2 week intensive study abroad that is conducted in Northern Ireland and includes seminars at the University of Ulster and in select clinical settings. Students examine the cultural, political and economic forces influencing health care and nursing needs; status of nursing education, licensure and practice; and health disparities in Northern Ireland and compare them to the United States. An additional 1 credit hour web-based option is offered the week immediately following the 2 weeks in Northern Ireland for students who choose the 3 credit hour option.
Prerequisite: Minimum 2.750 overall GPA; and special approval.
Schedule Type: Clinical Laboratory, Seminar
Contact Hours: 2-3 other
Grade Mode: Standard Letter

NURS 40005 PROFESSIONAL NURSING DEVELOPMENT 3 Credit Hours
This course focuses on professional development and transition from student to graduate nurse. Emphasis is on professional role development through exploration of contemporary nursing issues in healthcare economics; diversity, equity and inclusion of the workforce; nursing theory; the future of nursing and health care; and the importance of self-care and lifelong learning. Students are encouraged to apply critical thinking strategies and self-reflection during classroom discussions, assignments and presentations.
Prerequisite: NURS 30010 and NURS 30020 with minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 40010 NURSING OF THE CRITICALLY ILL 4 Credit Hours
This course integrates nursing concepts to prepare students to deliver person centered care through interprofessional partnerships to promote culturally sensitive and appropriate care in the critical care setting. A holistic approach is used to implement the nursing process for critically ill persons.
Prerequisite: Minimum C grade in NURS 30010 and NURS 30020 and NURS 30025 and NURS 30035 and NURS 30050.
Schedule Type: Clinical Laboratory, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, .53 lab, 4 other
Grade Mode: Standard Letter

NURS 40020 COMMUNITY HEALTH NURSING (DIVG) 4 Credit Hours
Course presents concepts of community health nursing with an emphasis on health protection, promotion and prevention of population-based health problems. This course integrates concepts to prepare students to deliver culturally congruent care. Students gain insight into the health problems facing diverse, vulnerable populations; they explore those populations' social determinants of health. Students use an epidemiologic approach to assess community health and identify aggregates within a community that are at risk for disease, disability and premature death. Concepts covered throughout this course are applied locally (town, county, state and country) and globally. Students must be admitted to the Professional Nursing Sequence to be able to register for this course. Students are responsible for their transportation to field experience.
Prerequisite: Minimum C grade in NURS 30010 and NURS 30020 and NURS 30025 and NURS 30035 and NURS 30050.
Pre/corequisite: NURS 40030.
Schedule Type: Clinical Laboratory, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2.3 lecture, .5 lab, 3.2 other
Grade Mode: Standard Letter
Attributes: Diversity Global

NURS 40025 PROFESSIONAL AND EVIDENCE-BASED PRACTICE 3 Credit Hours
This course introduces the student to the process of identifying quality research studies and applying the findings to nursing practice to improve patient outcomes. This course also focuses on professional development and the transition from student to graduate nurse, including interviewing techniques and resume preparation. Explores health care economics and policy, political activism, cultural competence, nursing theory, leadership of meetings and managing group dynamics, the future of nursing and health care, nursing practice opportunities, role development, professional nursing organizations, graduate education and specialty certification. Students have the opportunity to attend a professional nursing organization meeting. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: NURS 30010 and NURS 30050 with a minimum C grade; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 40026 PROFESSIONAL AND EVIDENCE-BASED PRACTICE FOR THE ACCELERATED B.S.N. (WIC) 3 Credit Hours
Course introduces students to the process of identifying quality research studies and applying the findings to nursing practice to improve patient outcomes. The course also focuses on professional development and the transition from student to graduate nurse, including interviewing techniques and resume preparation. Explores health care economics and policy, political activism, cultural competence, nursing theory, leadership of meetings and managing group dynamics, the future of nursing and health care, nursing practice opportunities, role development, professional nursing organizations, graduate education and specialty certification.
Pre/corequisite: NURS 30010 and NURS 30050 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

NURS 40030 PSYCHIATRIC MENTAL HEALTH NURSING 4 Credit Hours
Focuses on the development of therapeutic relationships with individuals, families and vulnerable populations across the lifespan who have potential and or identified mental health needs. Students learn and apply theory about mental health and illness and demonstrate psychiatric nursing skills and interventions in caring for persons living with mental illness. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care.
Prerequisite: Minimum C grade in NURS 30010 and NURS 30020 and NURS 30025 and NURS 30035 and NURS 30050.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 2 lecture, .4 lab, 4 other
Grade Mode: Standard Letter

NURS 40035 SENIOR LEVEL SKILL COMPETENCY LABORATORY 1 Credit Hour
This course continues the development of essential skills and care to improve the health of individuals within families and groups. The patient care skills taught in this course prepare students for clinical practice and care for complex patients in a variety of settings.
Pre/corequisite: NURS 30010 and NURS 30020 and NURS 30035.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

NURS 40036 SENIOR COMPETENCY LABORATORY 2 Credit Hours
This course continues the development of essential skills, clinical judgement and care to improve the health of individuals within families and groups. The patient care skills taught in this course prepare students for clinical practice and care for complex patients in a variety of settings.
Prerequisite: NURS 30035.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

NURS 40045 INTEGRATION OF LEADERSHIP AND MANAGEMENT IN NURSING (ELR) 6 Credit Hours
Course provides students with the opportunity to analyze the concepts of leadership and management in health care. The course focuses on health systems, including organizational culture and structure, leading high performing teams, human and capital resource management, delegation, clinical judgement and outcome evaluation. Course provides students with a practicum immersion experience with a preceptor in a health care setting allowing the opportunity to synthesize their nursing knowledge in preparation for their professional nursing role.
Prerequisite: Minimum C grade in NURS 30010 and NURS 30020 and NURS 30025 and NURS 30035; and senior standing.
Schedule Type: Clinical Laboratory, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2.75 lecture, .2 lab, 9.5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NURS 40075 INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS 3 Credit Hours
(Cross-listed with RSPC 40075). Focuses on the use of information management and information systems, technology and the human technology interface utilized in healthcare. Students taking this course must be registered nurses. This course is designated for Nursing for Registered Nurses students with a current or verifiable nursing license only. Please see your academic advisor for special approval to register for this course.
Prerequisite: Nursing for Registered Nurses major; and special approval.
Pre/corequisite: A minimum C grade in NURS 41000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 40085 INQUIRY AND RESEARCH FOR PROFESSIONAL NURSING PRACTICE 3 Credit Hours
Introduction to clinical inquiry and research for the professional nurse. Theoretical frameworks appropriate to nursing are addressed in relation to research development. A nursing Evidence Based Practice project is developed.
Pre/corequisite: MATH 10041 or PSYC 21621; or SOC 32220 and 32221; GEOG 39002, BMRT 21004, MATH 30011, BA 24056 and PH 30002; and nursing major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 40089 INTERNATIONAL HEALTH CARE POLICIES (DIVG) (ELR) (WIC) 3 Credit Hours
This course looks at the organizational and societal context in which health care is delivered in specific countries worldwide. A historical perspective is developed early in the semester. Building on this, the course explores existing health care policies in a specific population or county. This course further examines existing health networks, forms of care delivery, consumer needs and economics and funding for an identified population.
Prerequisite: NURS 20030; and special approval.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement, Writing Intensive Course

NURS 40092 NURSING PRACTICE INTERNSHIP (ELR) 1-4 Credit Hours
Opportunity for professional nursing practice is expanded to a selected population with complex health care needs. Focus is on increasing theoretical knowledge base and using knowledge in complex care situations with patients and their families. Clinical practice will be guided by a clinical preceptor.
Prerequisite: NURS 30035 with a minimum C grade; and special approval.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NURS 40872 INTRODUCTION TO EVIDENCE-BASED PRACTICE 3 Credit Hours
Course introduces students to the process of identifying quality research studies and applying the findings to nursing practice to improve patient outcomes. The course integrates concepts to prepare students to deliver culturally congruent and appropriate care.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 40873 INTRODUCTION TO EVIDENCE BASED PRACTICE FOR REGISTERED NURSES 3 Credit Hours
This course introduces the student to the process of identifying quality research studies and applying the findings to nursing practice to improve patient outcomes.
Pre/corequisite: Minimum C grade in NURS 41000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 40874 EVIDENCE-BASED PRACTICE FOR NURSES (WIC) 3 Credit Hours
Course equips students with the skills to identify, critically evaluate and apply high-quality research evidence to nursing practice. Students explore various research methodologies and assess their impact on patient outcomes, honing their ability to make evidence-based decisions in diverse clinical settings. Emphasizing the importance of cultural humility and sensitivity, the course prepares students to reflect on personal biases while striving to implement inclusive and effective nursing interventions.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

NURS 41000 CONCEPTS AND ISSUES FOR PROFESSIONAL NURSING PRACTICE 3 Credit Hours
Focuses on nursing concepts and theory, nursing process and the history of nursing as it relates to the development of professional nursing and the role of the professional nurse. Students taking this course must be registered nurses with a current or verifiable nursing license only.
Prerequisite: Nursing for Registered Nurses major; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 41089 INTERNATIONAL EXPERIENCE HEALTH CARE POLICES (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) This course looks at the organizational and societal context in which health care is delivered in specific countries worldwide. A historical perspective is developed early in the semester. Building on this, the course explores existing health care policies in specific countries with comparison analysis to domestic policy.
Prerequisite: NURS 20030; and special approval.
Schedule Type: International Experience
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

NURS 41095 SPECIAL TOPICS 2-4 Credit Hours
(Repeatable for credit) Scheduled topics of interest to faculty and students. Topics to be announced when scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter

NURS 41096 INDIVIDUAL INVESTIGATION 2-4 Credit Hours
(Repeatable for credit) Designed for the student interested in exploration and research of material not covered in required nursing courses.
Prerequisite: None.
Schedule Type: Individual Investigation
Contact Hours: 4 other
Grade Mode: Standard Letter

NURS 42000 LEADERSHIP AND MANAGEMENT FOR PROFESSIONAL NURSING PRACTICE 3 Credit Hours
Allows the registered nurse (RN) to utilize personal and professional knowledge and experiences in the study of leadership and management. Facilitates discovery of how nursing and leadership theories define and enhance practice. Assists the RN in analyzing the relationship between nursing, the professional nurse's leadership management roles, and the articulation between nursing research and practice. Students taking the course must be registered nurses with a current or verifiable nursing license only.
Prerequisite: Nursing for Registered Nurses major; and special approval.
Pre/corequisite: Minimum C grade in NURS 41000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 43001 HEALTH PROMOTION IN PROFESSIONAL NURSING PRACTICE (ELR) 3 Credit Hours
This course utilizes the nursing process to explore health promotion and disease prevention across the lifespan and healthcare settings. Theories and models are used to understand health behaviors. The course includes the role of the nurse; national health objectives; health literacy; education; counseling; transcultural considerations; factors affecting health promotion; and specific health promotion strategies. Student must be a registered nurse with a current or verifiable nursing license only.
Prerequisite: Nursing for Registered Nurses major; and special approval.
Pre/corequisite: NURS 41000 with a minimum C grade.
Schedule Type: Clinical Laboratory, Lecture
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NURS 44001 POPULATION-BASED NURSING FOR PROFESSIONAL NURSING PRACTICE (DIVG) 3 Credit Hours
Focuses on concepts of population-based nursing practice with emphasis on improving the health of diverse communities and populations, both locally and around the world. Students will gain insight into the health disparities facing diverse populations and cultures in the United States and throughout the world. Students will use an epidemiologic approach to assess community health and identify subgroups within the community or globally that are at risk for disease, disability, and premature death. Students taking this course must be registered nurses. This course is designated for Nursing for Registered Nurses students with a current or verifiable nursing license only. Please see your academic advisor for special approval to register for this course.
Prerequisite: Nursing for registered nurses major; and special approval.
Pre/corequisite: A minimum C grade in NURS 43001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

NURS 45000 HEALTH MAINTENANCE AND RESTORATION FOR PROFESSIONAL NURSING PRACTICE 3 Credit Hours
Focuses on issues related to health maintenance and restoration for individuals and families experiencing illness. Students taking this course must be registered nurses with a current or verifiable nursing license only.
Prerequisite: Nursing for Registered Nurses major; and special approval.
Pre/corequisite: NURS 43001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 45010 HEALTHCARE POLICY AND DELIVERY SYSTEMS 3 Credit Hours
Web-based course looks at the organizational and societal context in which health care is delivered in the U.S. An historical perspective is developed early in the semester. Building on this, the course explores existing health care policy and delivery systems, including legislation, the professional disciplines, organizations and health networks, forms of care delivery, consumer needs, and economics and funding. The ability of the current health care system to serve all segments of the U.S. population is examined in depth. Global health needs are examined as a minor theme. Ends with a focus on future forms of delivery that would improve the health care status of the American population as a whole. This course is not included in the BSN curriculum.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 45020 CRITICAL APPLICATION OF NURSING IN PHARMACOLOGY 3 Credit Hours
Enhances application and analysis of pharmacology in nursing. Explores assessment of therapeutic effect, side effects and adverse reactions of medications. Analyzes pathophysiological symptoms, lab values and nursing indicators in order to allow students to initiate appropriate nursing actions as related to pharmacology. Further, course presents teaching skills needed to enhance patient education and pharmacologic literacy.
Prerequisite: NURS 20020 and 20030; and nursing major; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 45050 LEGAL ISSUES FOR NURSES 3 Credit Hours
This online course explores legal concepts and regulations that guide nursing practice and examines concepts, theories, and values applied in decision making that are related to a variety of legal concepts in nursing practice and health concepts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 45060 NCLEX REVIEW PREPARATION 3 Credit Hours
This course reviews nursing concepts and content important for a registered nurse to make safe clinical judgments. Specific study strategies for passing the national licensure exam are reviewed. Students practice answering NCLEX-style questions. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: NURS 30035; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 45070 HEALTH CARE NEEDS FOR INDIVIDUALS WITH DISABILITIES 3 Credit Hours
(Slashed with NURS 55070) Healthcare Needs for Individuals with Disabilities focuses on the developmental, physical, and mental needs of the individual with disabilities. Strategies to identify and safely manage the unique needs of individuals with disabilities will be provided.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 45075 NCLEX SUCCESS 2 Credit Hours
This course reviews nursing concepts and content important for a registered nurse to make safe, clincal judgments. Specific study strategies for passing the national licensure exam are reviewed. Students practice answering NCLEX style questions. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: Senior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 45080 INTERDISCIPLINARY APPROACHES TO PALLIATIVE AND END OF LIFE CARE 3 Credit Hours
This course focuses on the care of people with a life-limiting illness, their families, and caregivers. Students will explore key concepts related to end of life care including the history and philosophical underpinnings of the hospice movement, spiritual, cultural, psychosocial, physical, legal, ethical and social considerations of dying in a contemporary society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 46000 HEALTH CARE POLICY 3 Credit Hours
Examines the organizational and societal context in which health care is delivered. Existing health care policy and delivery systems are examined, including historical perspectives, legislation, professional disciplines, organizations, health networks, forms of care delivery, consumer needs, economics and funding. The ability of the current health care system to serve all segments of the U.S. population is examined in depth, as well as future forms of health care delivery. Global perspectives are also studied. Students must be registered nurses with a current or verifiable nursing license only.
Prerequisite: Nursing for Registered Nurses major; and special approval.
Pre/corequisite: NURS 43001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 47000 CAPSTONE CLINICAL FOR PROFESSIONAL NURSING PRACTICE (WIC) 3 Credit Hours
Allows RNs to apply previously learned nursing theory and clinical knowledge with their baccalaureate education in the identification and implementation of a scholarly nursing project. This project utilizes, but is not limited to, previously learned knowledge of leadership skills, principles of teaching/learning, health care policy, change process, group process, team building, collaboration, healthcare policy and delivery systems, quality improvement, evidence-based care, diversity, nursing roles, information technology and systems, population-based care and ethical/legal issues. Students taking this course must be registered nurses.
Prerequisite: NURS 40075 and 41000.
Pre/corequisite: NURS 40085 and 42000 and 44001 and 45000 and 46000 and nursing major.
Schedule Type: Clinical Laboratory, Lecture
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

NURS 47099 CAPSTONE FOR PROFESSIONAL NURSING PRACTICE (ELR) (WIC) 3 Credit Hours
Course allows registered nurses to apply previously learned nursing theory and clinical knowledge with their baccalaureate education in the identification and implementation of a scholarly nursing project. This project utilizes, but is not limited to, previously learned knowledge of leadership skills, principles of teaching learning, health care policy, change process, group process, team building, collaboration, healthcare policy and delivery systems, quality improvement, evidence-based care, diversity, nursing roles, information technology and systems, population-based care and ethical legal issues. Students taking this course must be registered nurses and have a current/verifiable nursing license.
Prerequisite: A minimum C grade in NURS 40075 and NURS 41000 and NURS 42000; and Nursing for Registered Nurses major; and special approval.
Pre/corequisite: A minimum C grade in NURS 40873 and NURS 43001 and NURS 44001 and NURS 45000 and NURS 46000.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

NURS 50003 COMPARATIVE HEALTH CARE: NURSING IN NORTHERN IRELAND 2-3 Credit Hours
Includes a 2 week intensive study abroad that is conducted in Northern Ireland and includes seminars at the University of Ulster and in select clinical settings. Students examine the cultural, political and economic forces influencing health care and nursing needs; status of nursing education, licensure and practice; and health disparities in Northern Ireland and compare them to the United states. An additional 1 credit hour web-based option is offered the week immediately following the 2 weeks in Northern Ireland for students who choose the 3 credit hour option.
Prerequisite: Minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Clinical Laboratory, Seminar
Contact Hours: 2-3 other
Grade Mode: Standard Letter

NURS 50089 INTERNATIONAL HEALTH CARE POLICIES 3 Credit Hours
(Slashed with NURS 40089 and NURS 70089)(Repeatable for credit) This course looks at the organizational and societal context in which health care is delivered in specific countries worldwide. A historical perspective is developed early in the semester. Building on this, the course explores existing health care policies in a specific population or county. This course further examines existing health networks, forms of care delivery, consumer needs and economics and funding for an identified population.
Prerequisite: Master of Science in Nursing degree or graduate nursing certificate; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 55070 HEALTH CARE NEEDS FOR INDIVIDUALS WITH DISABILITIES 3 Credit Hours
(Slashed with NURS 45070) Healthcare Needs for Individuals with Disabilities focuses on the developmental, physical, and mental needs of the individual with disabilities. Strategies to identify and safely manage the unique needs of individuals with disabilities will be provided.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60010 ADVANCED NURSING INFORMATICS 3 Credit Hours
(Slashed with NURS 70010) Course focuses on the role of informatics in advanced nursing practice through examination and application of theories, trends and policies for generation, storage, retrieval and analysis of health information. Students examine the use of information structures, processes and technology to support clinical decision-making to achieve patient and healthcare outcomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60012 ADVANCED MENTAL HEALTH ASSESSMENT AND PSYCHOPATHOLOGY 4 Credit Hours
In this course, students gain the knowledge and skills necessary to conduct a holistic psychiatric and mental health assessment and diagnostic evaluation. Through a combination of theoretical learning and practical experiences, students develop an understanding of psychopathology and develop competence in differential diagnosis.
Prerequisite: Nursing major or Psychiatric Mental Health Nurse Practitioner graduate certificate; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

NURS 60014 LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT 3 Credit Hours
Course provides an introduction to nursing and health care management with a focus on the nursing and health care manager competencies and skills. Concepts explored include leadership and management theories as they relate to the functions and responsibilities of nursing and health care administrator roles, analysis of leadership style and professional competencies for nurses and health care managers and administrators.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60015 ADVANCED HEALTH ASSESSMENT 3 Credit Hours
Course comprises foundational skills, including the comprehensive history, physical and psychological assessment of diverse patient populations across the lifespan. Students apply the diagnostic reasoning process to initiate a plan of care for patients in a variety of settings.
Prerequisite: Graduate standing.
Pre/corequisite: NURS 60045.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60016 ADVANCED ASSESSMENT, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE NURSE LEADER 3 Credit Hours
(Slashed with NURS 70016) Course explores concepts of advanced assessment, pathophysiology and pharmacology topics to meet the complex needs of diverse patient populations and prepare learners to use this knowledge in the role of a nurse leader.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60020 LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS 3 Credit Hours
(Slashed with NURS 70020) This course focuses on legal and regulatory structures and issues and explores the impact of these topics on health care environments. Concepts and processes of accreditation, magnet designation, licensure and government regulation are explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60024 HEALTH CARE ORGANIZATION, STRUCTURE AND BEHAVIOR 3 Credit Hours
(Slashed with NURS 70024) Course focuses on the structures and behaviors common in health care organizations. Historical perspectives, organizational theories and types and characteristics of health care organizations are explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60025 HEALTH POLICY AND ADVANCED NURSING PRACTICE 3 Credit Hours
Course focuses on the role of the advanced practice nurse in healthcare policy-making, advocacy and analysis. Students analyze historical and current policy initiatives that influence healthcare funding and delivery, considering the roles of government, organizations, the discipline of nursing, health care leaders and individuals in setting policy. Students apply the nursing lens in advocating for policy advocacy considering the social determinants of health, vulnerable populations and ethics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60045 PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE 3 Credit Hours
Provides graduate nursing students with a theoretic foundation of human physiology and the phenomena that produce alterations or pathology in human physiologic function; and an understanding of the basis of disease processes across the lifespan.
Prerequisite: Graduate standing in Nursing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60051 NEUROBIOLOGY AND PSYCHOPHARMACOLOGY OF MAJOR PSYCHIATRIC DISORDERS 4 Credit Hours
In this course, students gain the evidence-based neurobiological knowledge of major psychiatric disorders necessary to prescribe psychotropic medications based on patient needs and symptomatology.
Prerequisite: Nursing major or Psychiatric Mental Health Nurse Practitioner graduate certificate; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

NURS 60101 THEORETICAL BASIS FOR NURSING PRACTICE 3 Credit Hours
(Slashed with NURS 70101) Course incorporates nursing theories, science and evidence-based practice to enhance clinical judgements that promote compassionate, person-centered care.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60110 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I 3 Credit Hours
Introduction to the clinical nurse specialist (CNS) role to develop a foundation for equitable, evidence-based, person-centered advanced nursing care within the patient sphere of impact. Students explore the scientific and theoretical basis for interventions for health promotion and illness care in adults and gerontological patients across the care continuum. The CNS role within nursing and systems spheres of impact is introduced. S.N. degree or the Adult Gerontology Clinical Nurse Specialist graduate certificate; and graduate standing.
Prerequisite: NURS 60015; and admitted to the Adult Gerontology Clinical Nurse Specialist concentration in the M.
Pre/corequisite: NURS 60441 and NURS 60506.
Corequisite: NURS 61192.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60120 ADULT GERONTOLOGY PRIMARY CARE I 3 Credit Hours
Introduction to the care of adult-gerontology primary care patients. Identification and examination of evidence-based primary health care problems, needs and interventions. Course focuses on biological and behavioral parameters at primary, secondary and tertiary levels of prevention.
Prerequisite: NURS 60015 and NURS 60441; and Nursing major or Nurse Educator graduate certificate; and graduate standing.
Pre/corequisite: NURS 60506.
Corequisite: NURS 61292.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60125 FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE 1 Credit Hour
This course continues to develop competencies of the Family and Adult-Gero Nurse Practitioner including requirements for practice, and prescribing. Quality of health care delivery is examined.
Prerequisite: NURS 60120 and NURS 61292; and graduate standing.
Corequisite: NURS 61892.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NURS 60126 FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE AND PROCEDURES 2 Credit Hours
Examination of the nurse practitioner role in the healthcare profession. Introduction to basic procedures and diagnostic interpretation used in developing clinical judgement for the care of adult gerontology and family patients.
Prerequisite: NURS 60120 and NURS 61292; or NURS 60129 and NURS 61092; and graduate standing.
Pre/corequisite: NURS 61392 or NURS 61892.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 60129 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I 3 Credit Hours
Introduction to the care of the adult or gerontology patient with chronic illness, acute illness and acute exacerbation of chronic illness. Identification of primary and acute health care problems, communication with diverse populations and examination of evidence-based practice to develop clinical judgment.
Prerequisite: NURS 60015; and graduate standing.
Pre/corequisite: NURS 60506.
Corequisite: NURS 61092.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60130 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER II 1 Credit Hour
This course continues the introduction to the acute APRN care of the adult - gero patient with chronic illness, acute illness, and acute exacerbation of chronic illness. Identification and examination of evidence-based acute health care problems, needs, and interventions.
Prerequisite: NURS 60129 and NURS 60441 and NURS 61092; and graduate standing.
Corequisite: NURS 61392.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NURS 60151 INDIVIDUAL PSYCHOTHERAPY 3 Credit Hours
In this course, students gain the skills necessary to use knowledge of relevant biological, psychosocial and developmental theories, as well as best available research evidence, to select psychotherapeutic approaches based on patient needs.
Prerequisite: NURS 60012 and NURS 60051; and Nursing major; and graduate standing.
Corequisite: NURS 61592.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60160 PRIMARY CARE PEDIATRICS 3 Credit Hours
Introduction to the care of pediatric patients in a primary care setting. Identification and examination of evidence-based primary health care problems, needs and interventions. Course focus is on health promotion, acute and chronic illness management and age and developmentally appropriate anticipatory guidance for infants and children.
Prerequisite: NURS 60015 and NURS 60441; and graduate standing.
Pre/corequisite: NURS 60506.
Corequisite: NURS 61692.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60170 PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSES 3 Credit Hours
Initial pediatric assessment course emphasizes primary care of the infants, children and teens with a holistic approach to well-child development, health promotion, illness prevention and management of developmental challenges with a family centered approach.
Prerequisite: Graduate standing.
Pre/corequisite: NURS 60015.
Corequisite: NURS 61792.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 credit hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Guidelines are established by the College of Nursing.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NURS 60210 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II 3 Credit Hours
Application and further development of the clinical nurse specialist (CNS) role introduced in NURS 60110, within adult and gerontological populations. The focus is on continued development of CNS competencies within the patient sphere of impact to promote equitable, evidence-based, person-centered advanced nursing care. Students develop CNS competencies in the nurse sphere of impact involving mentoring, coaching, role modeling and education with the interdisciplinary health care team. Evaluation of gaps and outcomes of care, including quality and safety, are examined.
Prerequisite: NURS 60110 and NURS 61192; and graduate standing.
Pre/corequisite: NURS 60403.
Corequisite: NURS 62192.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60220 PRIMARY CARE II: CHRONICALLY ILL ADULTS 3 Credit Hours
Introduction to the complexity of chronic care conditions of adult-gerontology primary care patients. Identification and examination of evidence-based primary health care problems, needs and interventions, with a focus on collaboration and consultation within a interprofessional team. Continue to address health promotion with primary, secondary and tertiary levels of prevention.
Prerequisite: NURS 60126 and NURS 61892; and graduate standing.
Corequisite: NURS 62292.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60230 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III 4 Credit Hours
Care of the critically ill adult or gerontology patient with chronic illness, acute illness and acute exacerbation of chronic illness. Identification and examination of critical care problems, appropriate communication with diverse populations and application of evidence-based practice to develop clinical judgment.
Prerequisite: NURS 60126 and NURS 61392; and graduate standing.
Corequisite: NURS 62392.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

NURS 60251 FAMILY AND GROUP PSYCHOTHERAPY 3 Credit Hours
Students study family and group psychotherapeutic treatment modalities and gain the knowledge and skills necessary to assess interactions among family and group systems and their relationship to mental health functioning. Through a combination of theoretical learning and practical experiences, students learn to apply therapeutic communication strategies based on theories and research evidence to reduce emotional distress, facilitate cognitive and behavioral change and foster growth and resilience.
Prerequisite: NURS 62592; and graduate standing.
Corequisite: NURS 63592.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60270 PEDIATRIC NURSE PRACTITIONER I 3 Credit Hours
Emphasizes the development of competent advanced practice nursing skills and comprehensive knowledge of acute physical and psychosocial illnesses in children, including diagnoses, management and evaluation in primary care.
Prerequisite: NURS 60015 and NURS 60170 and NURS 61792; and graduate standing.
Corequisite: NURS 62792.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: NURS 60199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NURS 60310 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III 3 Credit Hours
Students develop clinical nurse specialist (CNS) competencies in the nurse and system spheres of impact, including leadership and interprofessional collaboration. Course addresses project development and evaluation to promote equitable, evidence-based, person-centered advanced nursing care.
Prerequisite: NURS 60210 and NURS 62192; and graduate standing.
Corequisite: NURS 63192.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60315 BUDGETARY AND FISCAL MANAGEMENT FOR NURSES 3 Credit Hours
(Slashed with NURS 70315) Course examines management of fiscal resources in nursing service settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60320 ADULT GERONTOLOGY PRIMARY CARE III 3 Credit Hours
Continuation of evaluation and management of complex chronic care conditions of adult gerontology primary care patients while transitioning to the professional role of the advanced practice registered nurse. Students learn to synthesize evidence-based practice through comprehensive care in the primary care setting, with multidisciplinary collaboration and consultation, to improve patient care and healthcare outcomes
Prerequisite: NURS 60220 and NURS 62292; and graduate standing.
Corequisite: NURS 63692.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60325 PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS 4 Credit Hours
This comprehensive course completes the evaluation and management of acute and chronic conditions in primary care patients, including common chronic pediatric conditions; promotion of health and wellness of women during the reproductive years; and additional focus on family assessment and counseling. Students synthesize evidence-based practice through comprehensive care while transitioning to the professional role of the advanced practice registered nurses in the family primary care setting, with interprofessional collaboration and consultation, to improve patient care and healthcare outcomes.
Prerequisite: NURS 60220 and NURS 62292; and graduate standing.
Corequisite: NURS 63292.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

NURS 60330 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV 2 Credit Hours
Introduction to specialty care of the adult gerontology patient with chronic illness, acute illness and acute exacerbation of chronic illness. Identification of specialty acute health care problems, communication with diverse populations and examination of evidence-based practice to develop clinical judgment.
Prerequisite: NURS 60230 and NURS 62392; and graduate standing.
Corequisite: NURS 63392.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 60353 INDIVIDUAL, ORGANIZATION AND COMMUNITY CONSULTATION 3 Credit Hours
In this course, students gain the knowledge and skills necessary to perform a community needs assessment and organizational analysis. Students learn how to be an effective interprofessional partner across the care continuum to integrate foundational nurse practitioner knowledge into culturally competent practices to increase health promotion and disease prevention strategies and effect the care of populations. Students learn the knowledge and skills necessary to effectively and proactively coordinate resources to provide safe, quality and equitable care to diverse populations.
Prerequisite: NURS 60251; and graduate standing.
Pre/corequisite: NURS 63592.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60370 PEDIATRIC NURSE PRACTITIONER II 1 Credit Hour
Focuses on continued development of advanced practice nursing assessment skills for well and-or acute care of infants, children and adolescents.
Prerequisite: NURS 60270 and NURS 62792; and graduate standing.
Corequisite: NURS 63792.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NURS 60372 ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD 3 Credit Hours
Emphasizes the development of competent advanced practice nursing skills and comprehensive knowledge of chronic illness-conditions in children, including diagnoses, management and evaluation in primary care. Concepts of chronic illness and interventions for families are explored.
Prerequisite: NURS 60370 and NURS 63792; and graduate standing.
Corequisite: NURS 63992.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60403 METHODS OF INQUIRY 3 Credit Hours
(Slashed with NURS 70403) Course covers surveys types of research designs and methods that produce evidence contributing to positive patient outcomes. For each design, students learn essential elements, appropriate use and the criteria for rigor within the context of patient outcomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60441 PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE 3 Credit Hours
A survey course addressing the fundamental principles of clinical judgement in medication prescribing and administration necessary for diverse populations by nurses in advanced practice. This course addresses pharmacodynamics, pharmacokinetics and pharmacotherapeutics of broad categories of medications, as well as patient safety, social determinants of health and legal requirements.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60470 PEDIATRIC NURSE PRACTITIONER III 2 Credit Hours
Focus on synthesizing pediatric nurse practitioner knowledge and skills to provide expert care to a selected population of pediatric clients.
Prerequisite: NURS 60372 and NURS 63992; and graduate standing.
Corequisite: NURS 64792.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 60496 INDEPENDENT STUDY 1-4 Credit Hours
(Repeatable for credit) Readings and/or research supervised by a member of graduate faculty. Provides students the opportunity to explore a content area in depth.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

NURS 60498 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation supervised by a graduate faculty member. Repeat registration permitted. Maximum of 9 credit hours may apply toward degree.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

NURS 60506 CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES 3 Credit Hours
Introduces the selection, use and interpretation of laboratory and diagnostic testing for patient-centered care, through synthesis of evidence-based practice in the evaluation and management of acute and chronic conditions. The concepts of diagnostic and laboratory stewardship are introduced, and clinical judgement is developed through integration of patient health data and diagnostic findings.
Prerequisite: Graduate standing.
Pre/corequisite: NURS 60015 and NURS 60045.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60592 NURSING EDUCATION PRACTICUM 3 Credit Hours
(Repeatable for credit) This course prepares students with practical experiences in curriculum design, implementation, evaluation and instruction with an experienced nurse educator in the academic and/or nursing professional development setting.
Prerequisite: NURS 60601 and NURS 60602 and NURS 60605; and graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 10 other
Grade Mode: Standard Letter

NURS 60601 CURRICULUM AND INSTRUCTION IN NURSING EDUCATION 3 Credit Hours
This is a foundational course for students preparing for the role of nurse educator. Theoretical examination and practical application of curriculum planning, design, development, implementation and evaluation in nursing education in the academic and nursing professional development settings are addressed.
Prerequisite: Graduate standing.
Pre/corequisite: NURS 60101.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

NURS 60602 ROLES AND EVALUATION FOR NURSING EDUCATION CURRICULA 3 Credit Hours
This course focuses on education role development and theory, history, current issues and trends of evaluation for nurse educators in academic and nursing professional development settings.
Prerequisite: NURS 60601; and graduate standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

NURS 60605 NURSING EDUCATION WITH TECHNOLOGY 2 Credit Hours
This course focuses on theory, concepts and evidence related to the use of technology in nursing education. Students gain an understanding of integrating a variety of technology tools to deliver education in academic and nursing professional development settings.
Prerequisite: Graduate standing.
Pre/corequisite: NURS 60601.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

NURS 60607 CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA 2 Credit Hours
This course focuses on exploration of clinical issues applicable to nursing practice. Students develop in-depth knowledge and expertise in their area of clinical specialty and analyze how this expertise impacts their role as nurse educators. Project development to promote equitable, evidence-based and person-centered nursing care is addressed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 61092 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I PRACTICUM 2 Credit Hours
(Repeatable for credit) Students apply in the clinical setting the concepts introduced in NURS 60129. Students must complete 150 practicum hours. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: Graduate standing; and special approval.
Corequisite: NURS 60129.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 61095 SPECIAL TOPICS IN NURSING 2-6 Credit Hours
(Repeatable for credit) Topics in nursing such as holistic health, selected pathological alterations and recent developments. May include clinical practicum. May be repeated three times with approval for a maximum of 12 credits applied toward the degree.
Prerequisite: Graduate standing in Nursing.
Schedule Type: Lecture
Contact Hours: 2-6 lecture
Grade Mode: Standard Letter

NURS 61192 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I PRACTICUM 2 Credit Hours
(Repeatable for credit) Clinical practicum of 150 hours to apply clinical nurse specialist (CNS) competencies introduced in NURS 60110.
The student acquires direct care CNS competencies within adult and gerontological populations. Competencies within nursing and systems spheres of impact are explored. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: Graduate standing; and special approval.
Corequisite: NURS 60110.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 61292 ADULT GERONTOLOGY PRIMARY CARE I PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum to integrate the concepts introduced in NURS 60120 with a focus on health promotion, acute illness and common primary care conditions. Students complete 150 hours of practicum. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 60015; and graduate standing; and special approval.
Corequisite: NURS 60120.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 61392 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER II PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum for application of the concepts introduced in didactic nurse practitioner course work. Students complete 150 hours of practicum.
Prerequisite: NURS 60129 and NURS 61092; and graduate standing.
Pre/corequisite: NURS 60126.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 61592 PRACTICUM I: INDIVIDUAL THERAPY 2 Credit Hours
In this practicum course, students gain the knowledge and skills necessary to demonstrate mental health assessments, individual psychotherapy and psychopharmacologic therapies with individuals experiencing chronic or acute mental illness. Group supervision is provided. A minimum of 150 practicum hours is required. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 60012 and NURS 60051; and graduate standing; and special approval.
Corequisite: NURS 60151.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 61692 PRIMARY CARE PEDIATRICS PRACTICUM 1-2 Credit Hours
(Repeatable for credit) Practicum to integrate the concepts introduced in NURS 60160 with a focus on health promotion, acute illness and common primary care conditions. Students complete 150 hours of practicum to earn 2 credit hours. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 60015; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 5-10 other
Grade Mode: Standard Letter

NURS 61792 PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSE PRACTICUM 2 Credit Hours
(Repeatable for credit) This course is the clinical application of concepts introduced in NURS 60170. Students complete 150 hours of practicum. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 60045 and NURS 60101; and graduate standing; and special approval.
Pre/corequisite: NURS 60015.
Corequisite: NURS 60170.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 61892 FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE PRACTICUM 1 Credit Hour
(Repeatable for credit) Practicum for the concepts introduced in NURS 60126 and continued from NURS 61292. Students complete 75 hours of practicum.
Prerequisite: NURS 60120 and NURS 61292; and graduate standing.
Corequisite: NURS 60126.
Schedule Type: Practical Experience
Contact Hours: 5 other
Grade Mode: Standard Letter

NURS 62095 SPECIAL TOPICS IN NURSING 1-4 Credit Hours
(Repeatable for credit) Topics in nursing such as holistic health, selected pathological alterations and recent developments.
Prerequisite: Graduate standing in Nursing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

NURS 62192 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II PRACTICUM 2-3 Credit Hours
(Repeatable for credit) Clinical practicum to apply clinical nurse specialist (CNS) competencies introduced in NURS 60210. Students acquire CNS competencies in the patient, nurse and systems spheres of impact with adult and gerontological populations. Students complete 225 practicum hours of practicum to earn 3 credit hours or 150 practicum hours to earn 2 credit hours.
Prerequisite: NURS 60110 and NURS 61192; and graduate standing.
Corequisite: NURS 60210.
Schedule Type: Practical Experience
Contact Hours: 10-15 other
Grade Mode: Standard Letter

NURS 62292 PRIMARY CARE II PRACTICUM: CHRONICALLY ILL ADULTS 2 Credit Hours
(Repeatable for credit) Practicum to integrate the concepts from NURS 60220 focusing on chronic illness and complex care in collaboration with an interprofessional team while continuing to address health promotion and wellness. Students complete 150 hours of practicum. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 60126 and NURS 61892; and graduate standing.
Corequisite: NURS 60220.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 62392 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum for application of the concepts introduced in NURS 60230. Students complete 150 hours of practicum.
Prerequisite: NURS 60126 and NURS 61392; and graduate standing.
Corequisite: NURS 60230.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 62592 PRACTICUM II: MEDICATION MANAGEMENT AND INDIVIDUAL THERAPY 2 Credit Hours
In this practicum course, students gain the knowledge and skills necessary to demonstrate pharmacological and biological interventions with applied clinical skills to restore the patient to health and prevent further disability. Through a combination of theoretical learning and practical experiences, students learn how to use prescriptive authority, procedures, referrals, treatments and therapies in accordance with state and federal laws and regulations. Group supervision is provided. A minimum of 150 practicum hours is required.
Prerequisite: NURS 61592 and NURS 60151; and graduate standing.
Pre/corequisite: NURS 60441.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 62792 PEDIATRIC NURSE PRACTITIONER I PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum for the concepts introduced in NURS 60270. Students complete 150 hours of practicum.
Prerequisite: NURS 60015 and NURS 60170; and graduate standing.
Corequisite: NURS 60270.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 63192 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III PRACTICUM 2-3 Credit Hours
(Repeatable for credit) Clinical practicum that expands on the CNS competencies acquired in NURS 61192 and NURS 62192 with a primary focus on the nurse and systems spheres of impact for adult and gerontological populations. Students complete 150 hours of clinical practicum to earn 2 credit hours or 225 hours to earn 3 credit hours.
Prerequisite: NURS 60210 and NURS 62192; and graduate standing.
Corequisite: NURS 60310.
Schedule Type: Practical Experience
Contact Hours: 10-15 other
Grade Mode: Standard Letter

NURS 63292 PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum for the concepts introduced throughout the primary care courses and in NURS 60325 for comprehensive care across the lifespan. Students complete 150 hours of practicum. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 60220 and NURS 62292; and graduate standing.
Corequisite: NURS 60325.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 63392 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum for application of the concepts introduced in NURS 60330. Students complete 150 hours of practicum.
Prerequisite: NURS 60230 and NURS 62392; and graduate standing.
Corequisite: NURS 60330.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 63592 PRACTICUM III: FAMILY AND GROUP THERAPY 2 Credit Hours
In this practicum course, students gain the knowledge and skills necessary to demonstrate a multigenerational family assessment, family and/or group psychotherapy and psychopharmacologic therapies with individuals experiencing chronic or acute mental illness. Group supervision is provided. A minimum of 150 practicum hours is required.
Prerequisite: NURS 62592; and graduate standing.
Corequisite: NURS 60251.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 63692 ADULT GERONTOLOGY COMPREHENSIVE PRIMARY CARE III PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum for the comprehensive concepts introduced throughout the adult gerontology primary care courses. Students complete 150 hours of practicum.
Prerequisite: NURS 60220 and NURS 62292; and graduate standing.
Corequisite: NURS 60320.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 63792 PEDIATRIC NURSE PRACTITIONER II PRACTICUM 1 Credit Hour
(Repeatable for credit) Practicum for the concepts introduced in NURS 60370. Students complete 75 hours of practicum.
Prerequisite: NURS 60270 and NURS 62792; and graduate standing.
Corequisite: NURS 60370.
Schedule Type: Practical Experience
Contact Hours: 5 other
Grade Mode: Standard Letter

NURS 63992 ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum for the concepts introduced in NURS 60372. Students complete 150 hours of practicum.
Prerequisite: NURS 60270; and graduate standing.
Corequisite: NURS 60372.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 64002 PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS 3 Credit Hours
(Slashed with NURS 74002) Course focuses on processes for planning, developing and evaluating programs in health care. Students consider analysis of theories, models, issues and challenges related to program planning, development and evaluation relevant to the nurse administrator.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 64202 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I SEMINAR 2 Credit Hours
Course is the first of two capstone seminars with a practicum in a health care organization. Students integrate and apply leadership and management knowledge and are coached in professional roles by established health care leaders.
Prerequisite: NURS 60014 and NURS 60020 and NURS 60024 and NURS 60315; and graduate standing.
Corequisite: NURS 64292.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 64292 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM 2 Credit Hours
(Repeatable for credit) Application of principles of leadership and management introduced in NURS 64202 and in other program courses. Students acquire competencies related to leading others in a health care organization. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 60014 and NURS 60020 and NURS 60024 and NURS 60315; and graduate standing; and special approval.
Corequisite: NURS 64202.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 64302 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP SEMINAR 2 Credit Hours
(Slashed with NURS 74302) Capstone seminar with a practicum in a health care organization. Students further integrate and apply management knowledge and their professional roles coached by established health care leaders.
Prerequisite: NURS 60016 or NURS 64202; and NURS 64292; and graduate standing.
Corequisite: NURS 64392.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 64392 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II PRACTICUM 2 Credit Hours
Capstone clinical practicum with application of principles of leadership and management introduced in NURS 64392 and throughout the program. Students acquire competencies in leadership in health care organizations.
Prerequisite: NURS 64202 and NURS 64292; and graduate standing.
Corequisite: NURS 64302.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 64592 PRACTICUM IV: NURSE PRACTITIONER ROLE 2 Credit Hours
In this final practicum course, students gain the knowledge, skills and experiences necessary to begin demonstrating the full scope of practice for a psychiatric mental health nurse practitioner. The immersive experience focuses on all aspects of the nurse practitioner role and demonstrates integration of program competencies into practice. A minimum of 225 hours is required.
Prerequisite: NURS 63592; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 64792 PEDIATRIC NURSE PRACTITIONER III PRACTICUM 1 Credit Hour
(Repeatable for credit) Practicum for the concepts introduced in NURS 60470. Students complete 75 hours of practicum.
Prerequisite: NURS 60372 and NURS 63992; and graduate standing.
Corequisite: NURS 60470.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 66100 WOMEN'S HEALTH NURSE PRACTITIONER I 3 Credit Hours
Development of the foundation for gynecological care, from adolescence to post-menopause, for competent clinical practice in women's health. There is an emphasis on the menstrual cycle, fertility control and differentiation between normal and abnormal gynecological conditions. This course also emphasizes the coordination of care needed within the clinical setting through the diagnostic, planning, evaluation and management pertinent to nurse practitioner practice.
Prerequisite: NURS 60015 and NURS 60045; and graduate standing.
Pre/corequisite: NURS 60506.
Corequisite: NURS 66192.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 66192 WOMEN'S HEALTH NURSE PRACTITIONER I PRACTICUM 2 Credit Hours
Practicum for concepts of gynecological care introduced in NURS 66100. Course requires 150 clinical hours.
Prerequisite: Graduate standing.
Corequisite: NURS 66100.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 66200 WOMEN'S HEALTH NURSE PRACTITIONER II 2 Credit Hours
Further development of a foundation for competent clinical practice within a health care setting. Advances the student's practice of women's primary health care of patients from adolescence to post-menopause. Included are principles of growth and development, health promotion, disease prevention and management of common acute and chronic health problems. Pathophysiology, assessment and diagnostic techniques specific to acute and common problems are stressed. Strategies for enhancing, maintaining, and restoring health are emphasized. Coordination of care with an interdisciplinary team for collaboration and the use of community resources are also emphasized.
Prerequisite: NURS 60441 and NURS 60506 and NURS 66100 and NURS 66192; and graduate standing.
Corequisite: NURS 66292.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 66292 WOMEN'S HEALTH NURSE PRACTITIONER II PRACTICUM 2 Credit Hours
Clinical application of concepts introduced in NURS 66200.
Prerequisite: Graduate standing.
Corequisite: NURS 66200.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 66300 WOMEN'S HEALTH NURSE PRACTITIONER III 3 Credit Hours
The focus of this course is the application of evidence-based practice and research in the promotion of the health and wellness of patients during their reproductive years by women's health nurse practitioners. The emphasis is on preconception counseling, normal pregnancy focusing on prevention and health promotion, as well as the management of deviations from normal. Clinical assessment skills is emphasized, including diagnosis, treatment and evaluation. The nurse practitioner student is expected to concentrate efforts in the attainment and safe execution of skills pertinent to pregnant patients and their family.
Prerequisite: NURS 66200 and NURS 66292; and graduate standing.
Corequisite: NURS 66392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 66392 WOMEN'S HEALTH NURSE PRACTITIONER III PRACTICUM 2 Credit Hours
Practicum for concepts of care during reproductive years is implemented under supervision in a variety of clinical setting in NURS 66300. This course has 150 practicum hours.
Prerequisite: Graduate standing.
Corequisite: NURS 66300.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 66400 WOMEN'S HEALTH NURSE PRACTITIONER IV 2 Credit Hours
This course prepares the student for fully integrated practice as a women's health nurse practitioner. This course is a refinement of women's health nurse practitioner skills and expansion of knowledge related to women's health in selected areas of concentration. These areas will include gynecological and obstetrical complications, infertility, and reproductive men's health. The professional, social, political, legal, ethical, economic and financial factors that affect advanced nursing practice are analyzed. Knowledge is further integrated by 3 National Credentialing Center blueprint comprehensive exams.
Prerequisite: NURS 66300 and NURS 66392; and graduate standing.
Corequisite: NURS 66492.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 66492 WOMEN'S HEALTH NURSE PRACTITIONER IV PRACTICUM 2 Credit Hours
Practicum for concepts in specialized populations introduced in NURS 66400. This course has 150 practicum hours.
Prerequisite: Graduate standing.
Corequisite: NURS 66400.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 67092 CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA PRACTICUM 2 Credit Hours
This practicum course allows students to apply concepts introduced in NURS 60607 to develop in-depth knowledge and expertise in a chosen area of clinical specialty. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: (NURS 60015 and NURS 60045 and NURS 60441) or (NURS 60016); and graduate standing.
Pre/corequisite: NURS 60607.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 67100 ADULT/ADOLESCENT SEXUAL ASSAULT NURSE EXAMINER TRAINING 3 Credit Hours
Course provides basic knowledge, skills and judgement to provide competent, comprehensive, patient-centered and coordinated care to individuals being evaluated for sexual assault or suspected of having been sexually assaulted.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 67192 SEXUAL ASSAULT NURSE EXAMINER I PRACTICUM 1 Credit Hour
Students apply knowledge and skills gained from NURS 67100 in a clinical setting that provides treatment and care to victims of sexual assault. Students must complete 105 practicum hours.
Prerequisite: Graduate standing.
Pre/corequisite: NURS 67100.
Schedule Type: Practical Experience
Contact Hours: 7 other
Grade Mode: Standard Letter

NURS 67200 SEXUAL ASSAULT NURSE EXAMINER ADMINISTRATIVE CONCEPTS AND EVALUATION 3 Credit Hours
Concepts related to the administration and evaluation of programs that treat and care for victims of sexual assault are taught, including working with the criminal justice system, evidence collection and documentation, health care cost, leadership and mentoring and trauma informed care.
Prerequisite: NURS 67100; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 67292 SEXUAL ASSAULT NURSE EXAMINER II PRACTICUM 1 Credit Hour
Students continue to apply knowledge, hone skills and gain competencies related to the role of a sexual assault nurse examiner in a clinical setting that provides treatment and care to victims of sexual assault. Students must complete 105 practicum hours.
Prerequisite: NURS 67100 and NURS 67192; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 7 other
Grade Mode: Standard Letter

NURS 67300 POPULATION HEALTH AND SEXUAL ASSAULT 3 Credit Hours
Course covers topics and concepts that include a quality care model and self-care for the sexual assault nurse examiner; victim population; human trafficking; victim health; rape trauma syndrome; post-traumatic stress disorder (PTSD); healing; substance abuse; pharmacology for sexually transmitted disease; access and barriers to care; and working within an interprofessional team.
Prerequisite: NURS 67100; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 67392 SEXUAL ASSAULT NURSE EXAMINER III PRACTICUM 1 Credit Hour
Students continue to develop competencies in a clinical setting that provides treatment and care to victims of sexual assault. Students must complete 105 practicum hours.
Prerequisite: NURS 67100 and NURS 67292; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 7 other
Grade Mode: Standard Letter

NURS 70010 ADVANCED NURSING INFORMATICS 3 Credit Hours
(Slashed with NURS 60010) Course focuses on the role of informatics in advanced nursing practice through examination and application of theories, trends and policies for generation, storage, retrieval and analysis of health information. Students examine the use of information structures, processes and technology to support clinical decision-making to achieve patient and healthcare outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70016 ADVANCED ASSESSMENT, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE NURSE LEADER 3 Credit Hours
(Slashed with NURS 60016) Course explores concepts of advanced assessment, pathophysiology and pharmacology topics to meet the complex needs of diverse patient populations and prepare learners to use this knowledge in the role of a nurse leader.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70020 LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS 3 Credit Hours
(Slashed with NURS 60020) This course focuses on legal and regulatory structures and issues and explores the impact of these topics on health care environments. Concepts and processes of accreditation, magnet designation, licensure and government regulation are explored.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70024 HEALTH CARE ORGANIZATION, STRUCTURE AND BEHAVIOR 3 Credit Hours
(Slashed with NURS 60024) Course focuses on the structures and behaviors common in health care organizations. Historical perspectives, organizational theories and types and characteristics of health care organizations are explored.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70089 INTERNATIONAL HEALTH CARE POLICIES 3 Credit Hours
(Slashed with NURS 40089 and NURS 50089)(Repeatable for credit) This course looks at the organizational and societal context in which health care is delivered in specific countries worldwide. A historical perspective is developed early in the semester. Building on this, the course explores existing health care policies in a specific population or county. This course further examines existing health networks, forms of care delivery, consumer needs and economics and funding for an identified population.
Prerequisite: Nursing major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70101 THEORETICAL BASIS FOR NURSING PRACTICE 3 Credit Hours
(Slashed with NURS 60101) Course incorporates nursing theories, science and evidence-based practice to enhance clinical judgements that promote compassionate, person-centered care.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70292 INTEGRATION OF CLINICAL EXPERTISE INTO THE HEALTHCARE MANAGEMENT ROLE PRACTICUM 2 Credit Hours
This practicum course provides students with the opportunity to apply advanced concepts in assessment, pathophysiology and pharmacology within the nurse administrator role in real-world healthcare settings. Through hands-on experiences, students work with interdisciplinary healthcare professionals to address population-specific health challenges. Successful completion of this course requires full compliance with the College of Nursing Clinical Compliance Policy. Completion of 150 practicum hours is required.
Prerequisite: NURS 70621 and NURS 70711; and doctoral standing.
Pre/corequisite: NURS 70016.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 70315 BUDGETARY AND FISCAL MANAGEMENT FOR NURSES 3 Credit Hours
(Slashed with NURS 60315) Course examines management of fiscal resources in nursing service settings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70403 METHODS OF INQUIRY 3 Credit Hours
(Slashed with NURS 60403) Course covers surveys types of research designs and methods that produce evidence contributing to positive patient outcomes. For each design, students learn essential elements, appropriate use and the criteria for rigor within the context of patient outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70592 DOCTORAL NURSING PRACTICE PRACTICUM 1-2 Credit Hours
(Repeatable for credit) This course will be repeated beginning the second semester of enrollment until the completion of the scholarly project. The student will design a scholarly project, complete the project proposal defense, successfully obtain IRB approval if needed, implement the scholarly project and successfully defend the completed scholarly project. A minimum of 7 credit hours of this course, which equals 525 practicum hours, are required for these scholarly project activities. The Project Chair will be responsible for the oversight of these activities. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 70630 and NURS 70620; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 5-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NURS 70620 DOCTOR OF NURSING PRACTICE SEMINAR 3 Credit Hours
This course is an introduction and overview of the DNP degree as the foundation for translational science in healthcare organizations. DNP Essentials and the associated competencies will be explored (i.e., DNP scholarly inquiry, interdisciplinary collaboration, systems thinking, and organizational leadership). The structure and function of the DNP committee and the requirements for the final scholarly project will be discussed. A complete and thorough literature review to support the DNP Scholarly Project will be a requirement. A Committee Chair will be assigned. The role of the academic advisor and committee chairperson will be explained.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70621 D.N.P. ROLE DEVELOPMENT AND PROFESSIONAL LEADERSHIP 1 Credit Hour
This course introduces students to the role of the Doctor of Nursing Practice within various healthcare settings. It provides an overview of the D.N.P. role of leadership, policy advocacy, interprofessional collaboration and the integration of evidence-based practice into clinical decision-making. Students differentiate the role of the D.N.P.- and Ph.D.- prepared nurse, as well as describe the collaborative opportunities for D.N.P.- and Ph.D.- prepared nurses to impact health outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NURS 70630 RESEARCH METHODS FOR EVIDENCE BASED PRACTICE 3 Credit Hours
The focus of this course is to provide instruction regarding concepts related to statistical methods and their application in evidence-based practice. Essentials of research methods in evidence-based practice will also be covered. Students will learn to critically analyze and synthesize research findings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70635 APPLICATION OF EVIDENCE BASED PRACTICE 3 Credit Hours
Focus of course is on the concepts, models, and methods for implementation of evidence-based nursing practice at both individual clinician and system levels. Students will learn to design, implement and evaluate processes and programs at the practice and organizational level to improve healthcare outcomes. Leadership attributes necessary to lead change in practice will be discussed. Factors that facilitate and impede implementing and sustaining evidence-based practice are considered.
Prerequisite: NURS 70630; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70640 ADVANCED LEADERSHIP IN HEALTHCARE 3 Credit Hours
Advanced competencies of the doctoral-prepared advanced practice nurse for transformational leadership in healthcare to improve patient and population health outcomes are addressed. Five key leadership competencies including creating and leading change; self-knowledge; strategic vision; interpersonal communication; and organizational effectiveness are presented with examples and case studies. Transcending themes of ethics, research, interprofessional collaboration, creativity, and insuring accountability are addressed throughout the course. Students conduct a self-assessment, and develop and implement individualized action plans for advanced competency in interprofessional healthcare leadership.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70641 EXECUTIVE LEADERSHIP IN NURSING 3 Credit Hours
This course prepares the nurse to serve at the highest level of healthcare organizations. Students will be challenged to develop communication skills that lead to effective interprofessional collaboration across the health care system, design and oversee dynamic practice environments, develop skills to analyze and address complex organizational situations, influence organizational decisions, and lead change through innovation and evidence-based practice to enhance patient/client outcomes while ensuring organizational financial integrity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70650 ORGANIZATIONAL SYSTEMS 3 Credit Hours
Building on the skills in Advanced Leadership for Healthcare Providers, students will gain an understanding of organizational culture and management structures that contribute to the design and delivery of healthcare. Economic, political and cultural aspects of organizational systems will be discussed.
Prerequisite: NURS 70640; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70651 ADVANCED LEGAL, REGULATORY AND POLICY CONSIDERATIONS FOR NURSE 3 Credit Hours
This course focuses on legal, regulatory, and policy considerations that impact health care delivery. Theory and application are integrated and focus the student on preparing to assume an executive-level doctor of nursing practice role.
Prerequisite: NURS 60020; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70670 QUALITY IMPROVEMENT IN HEALTHCARE DELIVERY 3 Credit Hours
Focus on the design, implementation and evaluation of quality and patient safety initiatives to improve healthcare delivery at the individual patient and system levels. Data necessary to support quality initiatives will be considered as well as policy, legal and ethical implications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70680 POPULATION HEALTH 3 Credit Hours
Students will explore care delivery models and strategies for health promotion and disease prevention in individuals, aggregates and populations. Gaps in care and healthcare access will be explored, including social, cultural, economic, and policy and political barriers. The role of genomics in healthcare delivery of populations will be discussed. Students will develop skills to design and evaluate health promotion and disease prevention programs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70685 HEALTHCARE FINANCE AND ECONOMIC POLICY 3 Credit Hours
Students will gain an understanding of healthcare finance, economics and policy on healthcare delivery systems. The impact of current healthcare laws-policies (Affordable Care Act, HCAHPS, and other care delivery and reimbursement strategies) will be discussed. The DNP prepared nurses' role in patient advocacy and policy development will be discussed. Student will gain an understanding of cost-benefit analyses and creating budgets to support the design, implementation and sustainability of healthcare delivery initiatives.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70686 APPLIED ECONOMIC AND FINANCIAL PRINCIPLES FOR THE NURSE EXECUTIVE 3 Credit Hours
Students apply economic, financial principles and the impact of regulation to the development, evaluation and monitoring of health care delivery systems and practice. Theory and application are integrated and focus the student on preparing to assume an executive-level doctor of nursing practice role.
Prerequisite: NURS 70651; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70710 HISTORY AND PHILOSOPHY OF NURSING SCIENCE 2 Credit Hours
This course takes a historical approach to explore the development of natural philosophy to modern science, with an emphasis on nursing science under the influence of Western ideas. It emphasizes how ontological and epistemological values have shaped the scientific method during the pre-modern, modern and post-modern periods. Additionally, it delves into emerging philosophical concepts such as artificial intelligence, moral and ethical development and health equity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 70711 SCIENTIFIC WRITING 3 Credit Hours
Courses covers the knowledge and skills needed for scientific writing. Students engage in several types of scientific writing. The course includes understanding of the scientific norms associated with scientific writing, publishing and dissemination. Types of scientific literature review are discussed. Students will conduct a literature review relevant to their research interest, synthesize the literature, identify gaps, and write a synthesis of the literature that will be included the final project. Ethical issues and authorship considerations are discussed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70712 RESEARCH DESIGN FUNDAMENTALS 3 Credit Hours
The course focuses on learning fundamental methodological concepts and tools that enable an understanding of research problems and serve as a basis for conducting quantitative and qualitative research. There is emphasis on linking theoretical concepts and research models to research questions, hypotheses and designs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70713 ADVANCED STATISTICS I 3 Credit Hours
This course focuses on learning introductory descriptive, parametric and non-parametric statistical models. Students learn how to enter, clean and handle missing data, as well as perform analyses using SPSS. Expected outcomes are a conceptual understanding of statistical models covered in the course, interpretation of output of statistical analyses and communication of findings in oral and written work.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70714 LEADERSHIP FOR NURSING SCIENCE 3 Credit Hours
This course focuses on the development of the nurse scientist as a leader across health care and higher educational systems, as well as in influencing and formulating healthcare policy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70715 THEORY CONSTRUCTION AND DEVELOPMENT IN NURSING 3 Credit Hours
This course examines strategies for theory development, including logical-empirical-deductive and inductive approaches. A thorough examination of the theoretical literature is required to explore the existing gaps in theoretical frameworks, including identifying gaps related to health equity concepts. Emphasis is on elements and strategies used in theory building.
Prerequisite: Doctoral standing.
Pre/corequisite: NURS 70710.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70716 INNOVATION AND INTERVENTION RESEARCH 3 Credit Hours
By the end of this course, students are able to apply human-centered design thinking principles in combination with scientifically grounded research methods to develop, prototype and test innovative solutions addressing complex healthcare problems, while demonstrating the ability to balance creative problem-solving with academic rigor.
Prerequisite: NURS 70712 and NURS 70713; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70718 ROLES AND EVALUATION 3 Credit Hours
To prepare individuals in their role as an academician in nursing and promote the transmission of science through mentorship and service. This course prepares individuals for the role as nursing faculty. This course also addresses social, legal and ethical issues in nursing education especially related to creating a sense of belonging and addressing structural inequities.
Prerequisite: Doctoral standing.
Pre/corequisite: NURS 70710 and NURS 70715.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70739 RESEARCH IN HEALTH DISPARITIES 3 Credit Hours
This course focuses on the definition, principles and concepts for health disparities research and minority health outcomes. The goal is to explore the different government agencies that lay the groundwork for the development of the science related to health disparities. Students understand some of the social determinants that cause, sustain or mitigate health disparities, and how the knowledge will translate into interventions in reducing these disparities.
Prerequisite: NURS 70712, NURS 70713 and NURS 70715; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70740 ADVANCED STATISTICS II 3 Credit Hours
This course provides in-depth knowledge of multivariate data analysis, including statistical tests used to determine the degree of relationship, analysis of group differences, prediction of group membership, data structure techniques and internal reliability. Course outcomes include a conceptual understanding of these models and the ability to conduct and interpret output of statistical analyses and communicate findings in oral and written work. Knowledge of SPSS is required.
Prerequisite: NURS 70713; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70741 ADVANCED STATISTICS III 3 Credit Hours
This course focuses on more advanced statistical models used in nursing, including but not limited to, confirmatory factor analysis, path analysis and structural equation modeling. Course outcomes are a conceptual understanding of these models and ability to interpret output of statistical analyses and communicate findings in oral and written work.
Prerequisite: NURS 70740; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70742 ADVANCED QUALITATIVE METHODS FOR HEALTH SCIENCES 4 Credit Hours
Selected qualitative research methods used to study nursing phenomena. Students analyze the following with regard to nursing phenomena: philosophical bases; design, sampling, recruitment, data collection and analysis and evaluation of rigor.
Prerequisite: NURS 70710 and NURS 70712; and doctoral standing.
Pre/corequisite: NURS 70715.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

NURS 70743 ADVANCED QUANTITATIVE METHODS FOR HEALTH SCIENCES 4 Credit Hours
This course extends knowledge of quantitative methodology that focuses on the integration and application of elements of components of quantitative research design in nursing through the application of multivariate design principles. Advanced topics in methods, sampling, data collection, measurement and data management are addressed. Students are able to apply quantitative principles and methods consistent with theoretical and empirical knowledge to address scientific rigor, health and healthcare equity with diverse populations.
Prerequisite: NURS 70710 and NURS 70712 and NURS 70715; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

NURS 70744 DISSERTATION FOUNDATIONS 3 Credit Hours
In this course, students develop skills to make a persuasive, ethical, theoretical, philosophical and methodologically sound argument addressing at least one critical gap in nursing science by drafting the first three chapters of their dissertation. The course emphasizes the clear and persuasive communication of scientific knowledge, demonstrating the student's readiness for the oral candidacy exam.
Prerequisite: NURS 70740 and NURS 70743; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

NURS 70750 D.N.P. DATA SCIENCE FOR HEALTHCARE QUALITY 3 Credit Hours
Course focuses on using data science to drive quality improvement in healthcare. Students learn how to harness nursing data to transform complex healthcare data into actionable insights, enabling real-time decisions that directly influence quality improvements. Students explore nursing data science techniques to set benchmarks for quality and safety. Through practical applications and real-world examples, students develop the expertise to implement nursing solutions that elevate both care quality, patient safety and operational efficiency within healthcare systems.
Prerequisite: NURS 70403 or NURS 70630; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70753 DATA SCIENCE AND NURSING 3 Credit Hours
This course provides students with a rigorous understanding of health informatics and data science at the doctoral level, focusing on big data sets in healthcare. Students learn core principles of health informatics and explore its practical applications, including identifying innovative research models for analyzing large-scale data to evaluate patient health outcomes. Emphasis is placed on selecting measurable constructs and applying statistical analysis to identify factors that significantly influence overall patient health outcomes.
Prerequisite: NURS 70712 and NURS 70740; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70791 VARIABLE CONTENT SEMINAR: EMERGING ISSUES IN NURSING SCIENCE AND RESEARCH 3 Credit Hours
(Repeatable for credit) This seminar course will examine in-depth current scientific trends and emerging topics in nursing research.
Prerequisite: NURS 70742 and NURS 70743; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70795 SPECIAL TOPICS IN NURSING 2-6 Credit Hours
(Repeatable for credit) Study of important topics in nursing practice, research on the profession. Offering in response to existing interests and opportunities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2-6 lecture
Grade Mode: Standard Letter

NURS 70796 INDIVIDUAL INVESTIGATION IN NURSING 1-3 Credit Hours
(Repeatable for credit)Individual enrollment for independent study in nursing carried out by student under supervision of a doctoral faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

NURS 70798 RESEARCH IN NURSING 1-5 Credit Hours
(Repeatable for credit) Research activities are carried out by a student under faculty supervision, including but not limited to, data collection, coding, entry and analysis, inter-professional teamwork and preparation and submission of research presentations and manuscripts.
Prerequisite: NURS 70742; and doctoral standing.
Pre/corequisite: NURS 70743.
Schedule Type: Research
Contact Hours: 6-15 other
Grade Mode: Satisfactory/Unsatisfactory

NURS 72692 D.N.P. PROJECT I: EVIDENCE-BASED PRACTICE PROJECT PLANNING AND PROPOSAL 3 Credit Hours
Students design an evidence-based practice (EBP) project for implementation in a healthcare and /or community setting. Students evaluate and apply EBP models to real-world clinical problems, emphasizing the integration of research findings into practice. Key topics include formulating the clinical PICO(T) question, conducting systematic reviews and utilizing advanced search strategies for literature retrieval. Students assess the quality of evidence and apply it to health care settings, enhancing decision-making skills and promoting quality improvement in diverse healthcare environments. Course concludes with successful passage of the D.N.P. project proposal. Course includes a required 150-hour practicum.
Prerequisite: Doctoral standing and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 10 other
Grade Mode: Standard Letter

NURS 72792 D.N.P. PROJECT II: IMPLEMENTATION AND EVALUATION OF EVIDENCE-BASED INTERVENTIONS 3 Credit Hours
Course focuses on the implementation and evaluation of evidence-based interventions in healthcare and/or community settings. Students collaborate with the healthcare or community setting to complete an Institutional Review Board (IRB) review and implement the evidence-based practice project. Students apply change management and nursing theories, strategies for overcoming barriers to implementation and methods for evaluating the effectiveness of interventions. Course includes a required 250-hour practicum.
Prerequisite: NURS 72692; and doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: .67 lecture, 16.67 other
Grade Mode: Standard Letter

NURS 72892 D.N.P. PROJECT III: DATA ANALYSIS AND INTERPRETATION FOR EVIDENCE-BASED PRACTICE 3 Credit Hours
This course is the culmination of the D.N.P. curriculum as demonstrated in the evidence-based practice (EBP) project. Students develop advanced skills in data analysis and interpretation essential for D.N.P.-prepared practice. Emphasis is placed on statistical techniques, data management and interpretation of results. Students disseminate their findings from the EBP project in a defense presentation and scholarly writing. Course includes a required 150-hour practicum.
Prerequisite: NURS 72792; and doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 10 other
Grade Mode: Standard Letter

NURS 74002 PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS 3 Credit Hours
(Slashed with NURS 64002) Course focuses on processes for planning, developing and evaluating programs in health care. Students consider analysis of theories, models, issues and challenges related to program planning, development and evaluation relevant to the nurse administrator.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 74292 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM 2 Credit Hours
(Repeatable for credit) Application of principles of leadership and management introduced in NURS 74202 and in other program courses. Students acquire competencies related to leading others in a health care organization. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course. Students complete 150 practicum hours.
Prerequisite: NURS 70016 and NURS 70292; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 74302 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP SEMINAR 2 Credit Hours
(Slashed with NURS 64302) Capstone seminar with a practicum in a health care organization. Students further integrate and apply management knowledge and their professional roles coached by established health care leaders.
Prerequisite: NURS 74292; and doctoral standing.
Pre/corequisite: NURS 74692.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 74692 EXECUTIVE LEADERSHIP PRACTICUM 3 Credit Hours
(Repeatable for credit) Course prepares the nurse to serve at the highest level of healthcare organizations. Students are challenged to develop communication skills that lead to effective interprofessional collaboration across the health care system; design and oversee dynamic practice environments; develop skills to analyze and address complex organizational situations; influence organizational decisions; and lead change through innovation and evidence-based practice to enhance patient/client outcomes while ensuring organizational financial integrity.
Prerequisite: Doctoral standing.
Pre/corequisite: NURS 74302.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter-IP

NURS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Independent doctoral research for the dissertation under faculty supervision. Registration of at least two semesters is require, continuing until completion of 30 credit hours. Akron 8200:899.
Prerequisite: Admission to doctoral candidacy; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NURS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration of research, after initial 30 hours of Dissertation I.
Prerequisite: 30 hours of NURS 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Nursing Technology (NRST)

NRST 10001 FOUNDATIONS OF NURSING AGENCY 5 Credit Hours
Development of basic nursing skills and physical assessment. Students begin implementation of the nursing process using universal self-care requisites as an organizational framework.
Prerequisite: Admission to technical study; and nursing ADN major.
Schedule Type: Clinical Laboratory, Combined Lecture and Lab
Contact Hours: 2 lecture, 4.67 lab, 4.33 other
Grade Mode: Standard Letter
Attributes: CTAG Nursing/Associate Degree, ITAG Nursing/Associate Degree

NRST 10003 NURSING AGENCY I 6 Credit Hours
Emphasizes broad concepts common to nursing practice. Increasingly complex skills are introduced. Care focuses on simple therapeutic self-care demands.
Prerequisite: Minimum C grade in the following: BSCI 11010 and CHEM 10055 (or CHEM 10050) and NRST 10001 and UC 10001 and one from the Kent Core Mathematics and Critical Reasoning category; and nursing ADN major; and minimum 2.000 overall GPA.
Schedule Type: Clinical Laboratory, Combined Lecture and Lab
Contact Hours: 3.5 lecture, 3 lab, 4.5 other
Grade Mode: Standard Letter
Attributes: CTAG Nursing/Associate Degree, ITAG Nursing/Associate Degree

NRST 10006 LPN TO ASSOCIATE DEGREE IN NURSING TRANSITION 3 Credit Hours
Course is designed for the advanced placement of licensed practical nurses (LPN) to the nursing program. Course includes content areas from all first-year nursing courses, with both theory and lab. Orem's theory is introduced, emphasizing the assessment of the client's self-care assets and self-care deficits.
Prerequisite: Nursing ADN major; and minimum 2.700 overall GPA; and admission to technical study; and minimum C grade in the following: BSCI 11010 and CHEM 10055 (CHEM 10050) and UC 10001 and one from Kent Core Mathematics and Critical Reasoning category.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

NRST 10008 PARAMEDIC TO ASSOCIATE DEGREE IN NURSING TRANSITION 5 Credit Hours
Course serves to validate prior learning, update and enhance the student's knowledge, begin the process of role transition and prepare students for advanced placement into the Nursing program.
Prerequisite: Minimum 2.700 cumulative GPA; and Nursing ADN major; and admission to technical study; and minimum C grade in the following: BSCI 11010 and CHEM 10055 (CHEM 10050) and UC 10001 and one from Kent Core Mathematics and Critical Reasoning category.
Schedule Type: Clinical Laboratory, Lecture
Contact Hours: 3.5 lecture, 1.83 lab, 2.67 other
Grade Mode: Standard Letter

NRST 10009 BASIC PRINCIPLES OF PHARMACOLOGY 2 Credit Hours
Students identify and apply the basic principles of pharmacology to client care. In addition, they explore pharmaceutics, pharmacokinetics, pharmacodynamics, pharmacology-related math, drug classification, and safe preparation and administration of medications.
Prerequisite: Major in one of the following: Nursing ADN, Nursing BSN, Radiologic Technology, Respiratory Therapy Technology, Physical Therapist Assistant Technology or Occupational Therapy Assistant Technology.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NRST 10010 THERAPEUTIC USE OF SELF 1 Credit Hour
Course focus is on the self-care of individuals, with emphasis on understanding human relationships in the promotion of self-care. Culture, values and past experiences as factors in communication are explored.
Prerequisite: NRST 10001 with a minimum C grade; and minimum 2.000 overall GPA; and nursing ADN major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NRST 10011 FUNDAMENTALS OF NURSING 5 Credit Hours
Course is designed to develop fundamental nursing skills and physical assessment. The student will acquire knowledge to be able to demonstrate implementation of the nursing process using Quality and Safety Education for Nurses (QSEN) concepts as the organizing framework. Emphasis is placed on a beginning nursing student who performs as a provider of care.
Prerequisite: Nursing ADN major; and admission to NRST technical course sequence.
Pre/corequisite: Minimum C in the following courses NRST 10012 or NRST 10016 or NRST 10018.
Schedule Type: Clinical Laboratory, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab, 3 other
Grade Mode: Standard Letter
Attributes: CTAG Nursing/Associate Degree, ITAG Nursing/Associate Degree

NRST 10012 PROFESSIONAL COMMUNICATION FOR NURSING 1 Credit Hour
Course is designed to facilitate integration of basic knowledge, interpersonal skills, attitudes and beliefs in human relationships with an emphasis on professional and caring communication as an essential dimension in nursing practice.
Prerequisite: Nursing ADN major; and admission to NRST technical course sequence; and minimum 2.000 overall GPA.
Corequisite: Minimum C grade in the following courses NRST 10011 or NRST 10016 or NRST 10018.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: CTAG Nursing/Associate Degree, ITAG Nursing/Associate Degree

NRST 10013 NURSING I 6 Credit Hours
Course is to facilitate integration of knowledge, skills, attitudes and clinical decision making in the nursing care of patients with acute health care needs.
Prerequisite: Minimum of C grade in BSCI 11010 and NRST 10011 and NRST 10012 and NRST 10014; and minimum 2.000 overall GPA; and Kent Core Mathematics and Critical Reasoning course; and nursing ADN major.
Schedule Type: Clinical Laboratory, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3.5 lecture, 3 lab, 4.5 other
Grade Mode: Standard Letter
Attributes: CTAG Nursing/Associate Degree, ITAG Nursing/Associate Degree

NRST 10014 PHARMACOLOGY FOR NURSING I 1 Credit Hour
Course is to introduce the science of pharmacology and consider the role of the registered nurse in the preparation, management and administration of medications. The course provides a working description of the principles of pharmacodynamics and pharmacokinetics.
An emphasis is on understanding the action of medications, safe administration practices and competence in drug calculations.
Prerequisite: Minimum 2.000 overall GPA; and Nursing ADN major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NRST 10016 LPN TO ADN TRANSITION 3 Credit Hours
Course is to integrate the knowledge, skills, attitudes and clinical decision making in the nursing care of acute patients transitioning the knowledge of the LPN to RN practice.
Prerequisite: Minimum C grade in the following: BSCI 11010 and UC 10001 and one course from Kent Core Mathematics and Critical Reasoning category; and minimum 2.700 overall GPA; Nursing ADN major; and admission to technical study; and special approval from the nursing director.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, .5 lab, .5 other
Grade Mode: Standard Letter

NRST 10018 PARAMEDIC TO ADN TRANSITION 5 Credit Hours
Course is to integrate the knowledge, skills, attitudes and clinical decision-making in the nursing care of acute patients transitioning the knowledge of the Paramedic to RN practice.
Prerequisite: Minimum C grade in the following: BSCI 11010 and UC 10001 and one course from Kent Core Mathematics and Critical Reasoning category; and minimum 2.700 overall GPA; Nursing ADN major; and admission to technical study; and special approval from the nursing director.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab, 3 other
Grade Mode: Standard Letter

NRST 20015 MENTAL HEALTH NURSING 3 Credit Hours
The focus of this course is to facilitate the integration of knowledge, skills, attitudes, and clinical decision making when providing mental health nursing care for patients, families, and the community.
Prerequisite: Minimum C grade in the following NRST 10011 and NRST 10012 and PSYC 11762; and minimum 2.000 overall GPA; and nursing ADN major.
Schedule Type: Clinical Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2.2 lecture, .3 lab, 2.1 other
Grade Mode: Standard Letter

NRST 20022 NURSING II 6 Credit Hours
Course is designed to facilitate integration of knowledge, skills, attitudes and clinical decision making in the nursing care of individuals and groups of patients with complex health care needs.
Prerequisite: Minimum C grade in the following courses BSCI 11020; and NRST 10013; and NRST 20214; and NRST 20015; and NUTR 23511 or NUTR 33512; and minimum 2.000 overall GPA; and Nursing ADN major.
Pre/corequisite: BSCI 20021 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 1.5 lab, 7.5 other
Grade Mode: Standard Letter

NRST 20023 NURSING III 6 Credit Hours
Course is designed to facilitate the integration of knowledge, skills, attitudes and clinical decision making in the nursing care of individuals and groups of patients with critical health care needs.
Prerequisite: NRST 20022 with minimum C grade; and minimum 2.000 overall GPA; and Nursing ADN major.
Schedule Type: Clinical Laboratory, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 1.5 lab, 7.5 other
Grade Mode: Standard Letter

NRST 20092 ADN NURSING PRACTICE INTERNSHIP (ELR) 1-4 Credit Hours
Opportunity for nursing practice is expanded to a selected population with complex health care needs. Focus is on increasing theoretical knowledge and using knowledge in complex care situations with patients and their families. Clinical practice will be guided by a clinical preceptor and assigned nursing faculty.
Prerequisite: NRST 10003 and NRST 10010 with a minimum C grade; and nursing adn major; and special approval.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NRST 20205 PSYCHOSOCIAL SELF CARE DEFICITS 3 Credit Hours
Course focus is on providing mental health nursing care utilizing the nursing process for the emotionally ill client, family and community with psychiatric mental health needs. Emphasis is placed on understanding holistic human needs and promotion of the professional therapeutic nurse-client relationship.
Prerequisite: Minimum C grade in BSCI 11020, NRST 10003, NRST 10010, NUTR 23511 (or NUTR 33512) and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 2 lecture, .333 lab, 2.667 other
Grade Mode: Standard Letter

NRST 20206 NURSING AGENCY II 5 Credit Hours
Course focuses on nursing care of adults with intermediate therapeutic self-care demands. Emphasis is placed on the nurse as a provider of care.
Prerequisite: Minimum C grade in BSCI 11020, BSCI 20021, NRST 10003, NRST 10010, NUTR 23511 (or NUTR 33512) and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 2.5 lecture, 1.5 lab, 6 other
Grade Mode: Standard Letter

NRST 20207 PSYCHOSOCIAL SELF-CARE DEFICITS 4 Credit Hours
Course focus is on providing mental health nursing care utilizing the nursing process for the emotionally ill client, family and community with psychiatric mental health needs. Emphasis is placed on understanding holistic human needs and promotion of the professional therapeutic nurse-client relationships.
Prerequisite: Minimum C grade in NRST 10003, NUTR 33512 and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.
Schedule Type: Clinical Laboratory, Lecture
Contact Hours: 3 lecture, .333 lab, 2.667 other
Grade Mode: Standard Letter

NRST 20208 NURSING AGENCY III 6 Credit Hours
Course covers nursing care of individuals with complex therapeutic self-care demands. Emphasis is placed on the nurse as provider and manager of patient care.
Prerequisite: Minimum C grade in NRST 20205, NRST 20206 and NURS 20950; and nursing ADN major; and minimum 2.000 overall GPA.
Schedule Type: Clinical Laboratory, Combined Lecture and Lab
Contact Hours: 3 lecture, .5 lab, 8.5 other
Grade Mode: Standard Letter

NRST 20209 MATERNAL/NEWBORN DEVELOPMENT SELF-CARE 2 Credit Hours
Course covers nursing care of the expectant and newly-delivered family. The nursing approach acknowledges the mother's self-care abilities and dependent care agent role. Health deviations related to childbearing are incorporated.
Prerequisite: BSCI 11020, BSCI 20021, NRST 10003, NRST 10010, NURS 20950, NUTR 23511 (or NUTR 33512) and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 1 lecture, 3 other
Grade Mode: Standard Letter

NRST 20210 CHILD AND FAMILY DEVELOPMENT SELF-CARE 2 Credit Hours
Course covers family-centered nursing care of children. Developmental self-care requisites and common health deviations are emphasized.
Prerequisite: Minimum C grade in NRST 20205, NRST 20206 and NURS 20950; and minimum 2.000 overall GPA.
Schedule Type: Clinical Laboratory, Combined Lecture and Lab
Contact Hours: 1 lecture, .4 lab, 2.6 other
Grade Mode: Standard Letter

NRST 20214 PHARMACOLOGY FOR NURSING II 2 Credit Hours
Course is to expand the understanding of science of pharmacology and consider the role of the registered nurse in the preparation, management and administration of advanced medications. The course provides an in-depth description of the principles of pharmacodynamics and pharmacokinetics of advanced medications. The course will expand on understanding the action of advanced medications, safe administration practices and competence in drug calculations acquired in Pharmacology for Nursing I.
Prerequisite: NRST 10011 and NRST 10014 with a minimum C grade; and minimum 2.000 overall GPA; and Nursing ADN major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NRST 20217 MATERNAL CHILD AND FAMILY NURSING 4 Credit Hours
Course is to facilitate the integration of complex knowledge, skills, attitudes and clinical decision making in the nursing care of patients in maternal, child and family settings with an emphasis placed on prevalent and critical problems.
Prerequisite: Minimum grade of C in the following courses NRST 10013 and NRST 20214 and BSCI 11020; and NUTR 23511 or NUTR 33512; and minimum 2.000 overall GPA; and nursing ADN major.
Pre/corequisite: NURS 20950 and BSCI 20021 with a minimum C grade.
Schedule Type: Clinical Laboratory, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, .75 lab, 5.25 other
Grade Mode: Standard Letter

NRST 20219 TRANSITION TO NURSING PRACTICE 2 Credit Hours
Course is to facilitate the student's transition into the profession of nursing and enhance student preparation to take the NCLEX-RN examination.
Prerequisite: NRST 20022 with a minimum C grade; and minimum 2.000 overall GPA; and nursing ADN major.
Pre/corequisite: NRST 20023 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NRST 21095 SPECIAL TOPICS 2-4 Credit Hours
(Repeatable for credit) Scheduled topic of interest to students and faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter

NRST 21096 INDIVIDUAL INVESTIGATION IN NURSING 1-3 Credit Hours
(Repeatable for a total of 18 hours) Readings and/or investigation of nursing topics supervised by nursing faculty.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

Nutrition (NUTR)

NUTR 10011 NUTRITIONAL OUTREACH: A HOW-TO FOR LIFE-LONG HEALTHY EATING 1 Credit Hour
Teaches basic nutrition information for healthy eating, including the important nutritional aspects of cooking, shopping, dining and disease prevention related to dietary intake.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 23012 INTRODUCTORY FOOD SCIENCE 3 Credit Hours
(Cross-listed with HEM 23212) Principles of food preparation and quality evaluation, with an emphasis on food science concepts, nutrition, food consumption trends and government regulation.
Prerequisite: NUTR 23511.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

NUTR 23016 WORLD FOOD CUSTOMS AND NUTRITION 3 Credit Hours
The course explores cultural foods of diverse populations and focuses on understanding the interrelationship between food and agricultural practices of racial, ethnic and religious populations within the United States and globally.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 23112 INTRODUCTION TO THE PROFESSION: NUTRITION AND DIETETICS 1 Credit Hour
Discusses academic requirements for the Nutrition major, the history of the nutrition profession as well as current credentialing and licensing requirements. Explores the opportunities within the field of dietetics. Teaches methods to document academic, personal and professional skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 23510 QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY 3 Credit Hours
(Cross-listed with HM 23510) The application of management principles in quantity food production and service systems, including safety and sanitation; production forecasting and management; distribution; and service, commercial equipment and physical facilities. Introduction to inventory, recipe standardization and considerations of nutrition, quality and sustainability in quantity production.
Prerequisite: NUTR 23112.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

NUTR 23511 SCIENCE OF HUMAN NUTRITION (KBS) 3 Credit Hours
Basic concepts and principles in the science of human nutrition, energy balance and weight control, individual nutrient needs, diet selection, nutrition related metabolism and physiological functions, nutritional diseases and current human nutrition controversies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Health

NUTR 23520 SPORTS NUTRITION 3 Credit Hours
Teaches basic sports nutrition as well as practical applications of sports nutrition principles for students majoring in various healthcare related fields.
Prerequisite: NUTR 23511.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 33512 INTERMEDIATE NUTRITION SCIENCE 3 Credit Hours
Functions, sources, utilization and interactions of essential nutrients and associated physiology. Principles of designing a healthy diet using dietary standards and guidelines while considering nutrient needs of different populations.
Pre/corequisite: CHEM 20481 or CHEM 30481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 33522 INTRODUCTION TO NUTRITION ASSESSMENT 3 Credit Hours
Application of nutrition principles, including nutrition-focused physical assessment, dietary intake assessment, nutrition surveys, introduction to medical records, nutrition interviewing, dietary standards and food exchange lists.
Prerequisite: NUTR 23511; and nutrition major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

NUTR 33532 BUSINESS AND MANAGEMENT OF NUTRITION SERVICES 3 Credit Hours
Course explores the business management side of dietetics. Covers application of management theories, from dietetic programs and services to budgeting, billing and coding, in addition to quality improvement in dietetics programs and departments.
Prerequisite: NUTR 23511.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 35319 NUTRITION, HEALTH AND SOCIETY 3 Credit Hours
Course explores the role of environment, food, nutrition and lifestyle choices in promoting health and preventing disease. Focus is on the fundamentals of public policy, including legislative and regulatory basis of nutrition and dietetics practices.
Prerequisite: NUTR 23511.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 41095 SPECIAL TOPICS IN NUTRITION 1-4 Credit Hours
(Repeatable for credit)(Slashed with NUTR 51095) Discussion of a major topic within a specific field in nutrition and dietetics. Topic varies per curse offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

NUTR 41096 INDIVIDUAL INVESTIGATION IN NUTRITION 1-3 Credit Hours
(Repeatable for credit) Students undertake an independent study in an area of nutrition and dietetics that is not covered by a regular course offering, with the guidance of a Kent State faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

NUTR 43013 RESEARCH AND STATISTICAL METHODS IN NUTRITION AND DIETETICS (WIC) 3 Credit Hours
(Slashed with NUTR 53013) Student gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing.
Prerequisite: NUTR 33512.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

NUTR 43030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours
(Slashed with HTM 53030 and NUTR 53030)(Cross-listed with HEM 43030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.
Prerequisite: HEM 23212 or NUTR 23012; and HEM 23510 or NUTR 23510.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43512 MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours
(Slashed with NUTR 53512) Course explores the mechanisms through which the macronutrients meet biological needs and how these related to applied human nutrition.
Prerequisite: (ATTR 25057 (or EXSC 25057) and ATTR 25058 (or EXSC 25058)) or (BSCI 21010 and BSCI 21020); and NUTR 33512; and NUTR 33522; and CHEM 20481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43513 MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours
(Slashed with NUTR 53513) Course explores the mechanisms through which micronutrients meet human biological needs in the relationship to underlying applied human nutrition.
Prerequisite: (EXSC 25057 and EXSC 25058) or (ATTR 25057 and ATTR 25058) or (BSCI 21010 and BSCI 21020); and CHEM 20481; and NUTR 33512; and NUTR 33522.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43515 COMMUNITY NUTRITION (ELR) 3 Credit Hours
(Slashed with NUTR 53515) Introduction to nutrition problems and practices in the community. Principles and techniques of effective education, learning and behavior change theories and techniques. Includes an experiential laboratory component with a focus on planning, implementation, evaluation and outcomes in nutrition education, as well as nutrition communication, programming and counseling techniques.
Prerequisite: NUTR 33512 and NUTR 33522 and NUTR 33532.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NUTR 43518 LIFECYCLE NUTRITION 3 Credit Hours
(Slashed with NUTR 53518) Explores the nutrition needs through growth, development and aging. Focus is on nutritional needs and issues during conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood and older adulthood.
Prerequisite: NUTR 33512.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43522 INTEGRATIVE AND FUNCTIONAL NUTRITION 2 Credit Hours
(Slashed with NUTR 53522) Introduces the foundations of integrative and functional medicine as it relates to nutrition. Includes personalized nutrition, nutrigenomics, complementary and alternative therapies, nutraceuticals and functional foods, in addition to the interaction of food on supplement and drug efficacy.
Prerequisite: NUTR 33512.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NUTR 43523 NUTRITION AND DIETETICS: PROFESSIONAL PRACTICE 1 Credit Hour
Development of professional awareness. Evaluation of professional growth and formulation of plans for continued growth.
Prerequisite: Nutrition major; and senior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 43524 NUTRITION AND DIETETICS: PROFESSIONAL PRACTICE 2 Credit Hours
Development of professional awareness, leadership and career goals. Evaluation of professional growth and formulation of plans for continued growth in the profession of nutrition and dietetics.
Prerequisite: Nutrition major; and senior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NUTR 43532 METHODS AND EXPERIENCES IN NUTRITION OUTREACH 3 Credit Hours
(Slashed with NUTR 53532) Students learn methods for development and evaluation techniques used for nutrition outreach programming; the role of community nutrition education in public health; and the impact of nutrition programming on disease prevention and management. Students engage in service learning opportunities in community nutrition education.
Prerequisite: Special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 4 other
Grade Mode: Standard Letter

NUTR 43540 MEDICAL NUTRITION THERAPY I 3 Credit Hours
(Slashed with NUTR 53540) Exploration of the nutrition care process, including documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs. Students engage in case studies and nutrition assessment exercises.
Prerequisite: (ATTR 25057 and ATTR 25058) or (BSCI 21010 and BSCI 21020) or (EXSC 25057 AND EXSC 25058); and CHEM 20481; and NUTR 33512; and NUTR 33522; and senior standing.
Corequisite: NUTR 43541.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43541 MEDICAL NUTRITION THERAPY I LABORATORY 1 Credit Hour
(Slashed with NUTR 53541) Simulated laboratory experiences of the nutrition care process, including documentation, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs related to behavioral nutrition, gastrointestinal disorders, obesity, diabetes, cardiovascular disease and anemia. Students will engage in simulated case studies.
Prerequisite: CHEM 20481; and NUTR 33512; and NUTR 33522; and senior standing.
Corequisite: NUTR 43540.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

NUTR 43542 MEDICAL NUTRITION THERAPY II 3 Credit Hours
(Slashed with NUTR 53542) Continued exploration of the nutrition care process, including relevant documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutritional needs. Students engage in case studies and nutritional assessments.
Prerequisite: NUTR 43540.
Corequisite: NUTR 43543.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43543 MEDICAL NUTRITION THERAPY II LABORATORY 1 Credit Hour
(Slashed with NUTR 53543) Simulated laboratory experiences of the nutrition care process, including documentation, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs related to wounds and burns, renal diseases, immune disorders, oncology, eating disorders, pediatrics and those requiring nutrition support. Students will engage in simulated case studies.
Prerequisite: NUTR 43511; and senior standing.
Corequisite: NUTR 43542.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

NUTR 45092 PRACTICUM IN NUTRITION (ELR) 1-3 Credit Hours
Application of education in pre-professional experience in clinical, community and nutrition foodservice environments. Combination of nutrition experiences throughout the semester.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NUTR 45098 RESEARCH IN NUTRITION (ELR) 1-3 Credit Hours
Students engage in research under the supervision of a nutrition faculty member. Students may develop a research idea or work on faculty-led research.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NUTR 51095 SPECIAL TOPICS IN NUTRITION 1-4 Credit Hours
(Repeatable for credit)(Slashed with NUTR 41095) Discussion of a major topic within a specific field in nutrition and dietetics. Topic varies per curse offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

NUTR 51096 INDIVIDUAL INVESTIGATION IN NUTRITION 1-3 Credit Hours
(Repeatable for credit) Students undertake an independent study in an area of nutrition and dietetics that is not covered by a regular course offering, with the guidance of a Kent State faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

NUTR 53013 RESEARCH AND STATISTICAL METHODS IN NUTRITION 3 Credit Hours
(Slashed with NUTR 43013) Students gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours
(Slashed with NUTR 43030)(Cross-listed with HEM 43030 and HTM 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53512 MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours
(Slashed with NUTR 43512) Course explores the mechanisms through which the macronutrients meet biological need and how these related to applied human nutrition.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53513 MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours
(Slashed with NUTR 43513) Course explores the mechanisms through which micronutrients meet human biological needs in the relationship to underlying applied human nutrition.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53515 COMMUNITY NUTRITION 3 Credit Hours
(Slashed with NUTR 43515) Introduction to nutrition problems and practices in the community. Principles and techniques of effective education, learning and behavior change theories and techniques. Includes an experiential laboratory component with a focus on planning, implementation, evaluation and outcomes in nutrition education, as well as nutrition communication, programming and counseling techniques.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

NUTR 53518 LIFECYCLE NUTRITION 3 Credit Hours
(Slashed with NUTR 43518) Explores the nutrition needs through growth, development and aging. Focus is on nutritional needs and issues during conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood and older adulthood.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53522 INTEGRATIVE AND FUNCTIONAL NUTRITION 2 Credit Hours
(Slashed with NUTR 43522) Introduces the foundations of integrative and functional medicine as it relates to nutrition. Includes personalized nutrition, nutrigenomics, complementary and alternative therapies, nutraceuticals and functional foods, in addition to the interaction of food on supplement and drug efficacy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NUTR 53532 METHODS AND EXPERIENCES IN NUTRITION OUTREACH 3 Credit Hours
(Slashed with NUTR 43532) Students learn methods for development and evaluation techniques used for nutrition outreach programming; the role of community nutrition education in public health; and the impact of nutrition programming on disease prevention and management. Students engage in service learning opportunities in community nutrition education.
Prerequisite: Nutrition major; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 4 other
Grade Mode: Standard Letter

NUTR 53540 MEDICAL NUTRITION THERAPY I 3 Credit Hours
(Slashed with NUTR 43540) Exploration of the nutrition care process, including documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs. Students engage in case studies and nutrition assessment exercises.
Prerequisite: Graduate standing.
Corequisite: NUTR 53541.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53541 MEDICAL NUTRITION THERAPY I LABORATORY 1 Credit Hour
(Slashed with NUTR 43541) Simulated laboratory experiences of the nutrition care process, including documentation, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs related to behavioral nutrition, gastrointestinal disorders, obesity, diabetes, cardiovascular disease and anemia. Students will engage in simulated case studies.
Prerequisite: Graduate standing.
Corequisite: NUTR 53540.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

NUTR 53542 MEDICAL NUTRITION THERAPY II 3 Credit Hours
(Slashed with NUTR 43542) Continued exploration of the nutrition care process, including relevant documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutritional needs. Students engage in case studies and nutritional assessments.
Prerequisite: Graduate standing.
Corequisite: NUTR 53543.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53543 MEDICAL NUTRITION THERAPY II LABORATORY 1 Credit Hour
(Slashed with NUTR 43543) Simulated laboratory experiences of the nutrition care process, including documentation, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs related to wounds and burns, renal diseases, immune disorders, oncology, eating disorders, pediatrics, and those requiring nutrition support. Student will engage in simulated case studies.
Prerequisite: Graduate standing.
Corequisite: NUTR 53542.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

NUTR 61015 NUTRITION AND DISEASE 3 Credit Hours
This course will overview the physiologic and metabolic process of organ systems that are integral to diseases related to nutrition. The treatment methods for these diseases will also be introduced.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 61016 RESEARCH METHODS IN NUTRITION I 3 Credit Hours
Introduces the foundations of research methods and statistics in nutrition sciences. Students are exposed to basic research methods related to quantitative and qualitative methods with an emphasis on quantitative methods. Basic statistical concepts are introduced with a focus on descriptive and inferential statistic common in nutrition science research. During the course, students start developing their thesis or research project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 61017 RESEARCH METHODS IN NUTRITION II 3 Credit Hours
Course builds upon NUTR 61016 and develops understanding on important aspects of research methods and statistical tests used in nutrition and dietetics.
Prerequisite: NUTR 61016; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 61098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's-level students. Credit earned may be applied toward meeting degree requirements with school approval.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

NUTR 61099 MASTER'S PROJECT 2-6 Credit Hours
(Repeatable for credit) (Cross-listed with HDFS 61099) Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NUTR 63199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NUTR 63299 THESIS II 2 Credit Hours
Students must continue registration each semester until all degree requirements are met.
Prerequisite: NUTR 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NUTR 63518 ADVANCED SPORTS NUTRITION 3 Credit Hours
Course focuses on nutritional concepts and principles related to athletic performance including energy needs, metabolism, and utilization in sports, macronutrient needs and metabolism, micronutrient needs of athletes, nutrient timing considerations, hydration needs and practices and other special considerations.
Prerequisite: Graduation standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63519 ADVANCED STUDY OF MICRONUTRIENTS 3 Credit Hours
Course covers intake, digestion and absorption of nutrients.
Prerequisite: Nutrition major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63520 MACRONUTRIENT NUTRITION 3 Credit Hours
Course covers metabolic utilization of macronutrients for body processes.
Prerequisite: Nutrition major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63521 NUTRITION AND DISEASE: CLINICAL APPLICATIONS 3 Credit Hours
Recent trends and concepts in research and practice of therapeutic dietetics.
Prerequisite: NUTR 61015; and nutrition major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63522 COMMUNICATION, MANAGEMENT AND PROFESSIONALISM IN DIETETICS 3 Credit Hours
Explores the importance of communication in a variety of medias as it relates to leadership and management and overall professionalism in nutrition. The areas of management focus include foodservice, community and clinical nutrition management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63524 PERSPECTIVE ON PREVENTION AND PRACTICE IN COMMUNITY NUTRITION 3 Credit Hours
Explores the relationship between nutritional epidemiology and the research, policies and programs for the successful treatment and prevention of nutrition related disease in the United States. Focuses on the behavioral and learning theories used in successful nutrition interventions and grant writing to sustain community programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63525 DIETETIC PRACTICE: COMMUNITY 1 Credit Hour
Discussion focusing on nutrition care in the community setting. Evaluation and interpretation of the scientific literature.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 63526 DIETETIC PRACTICE: MANAGEMENT 1 Credit Hour
Discussion focusing on the management of food and nutrition services. Evaluation and interpretation of the scientific literature.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 63527 DIETETIC PRACTICE: CLINICAL 1 Credit Hour
Discussion focusing on nutrition care in the acute practice setting. Evaluation and interpretation of the scientific literature.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 63591 NUTRITION SEMINAR 1-3 Credit Hours
(Repeatable for credit) Evaluation and interpretation of recent literature in an area of nutrition. Topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

NUTR 63592 DIETETIC INTERNSHIP 1-4 Credit Hours
(Repeatable for credit) Supervised practice component of dietetic internship.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 12-48 other
Grade Mode: Satisfactory/Unsatisfactory

Occupational Therapy Assistant (OTA)

OTA 10000 FOUNDATIONS IN OCCUPATIONAL THERAPY 2 Credit Hours
Introduction to basic theoretical concepts, professional development, profession of occupational therapy, its place in the health care system and the role and function of the Occupational Therapist and Occupational Therapist Assistant.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

OTA 10002 OCCUPATIONAL PERFORMANCE IN PSYCHOSOCIAL HEALTH 4 Credit Hours
Application of occupational therapy assessment, skills and techniques in treatment programs concerned with psychosocial health.
Prerequisite: OTA 10003 with a minimum C grade.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

OTA 10003 OCCUPATIONAL THERAPY INTERVENTIONS FOR PRACTICE I 1 Credit Hour
Development of basic assessment and intervention skills as related to clients with physical and mental disabilities.
Prerequisite: Admission to technical study; and occupational therapist assistant major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

OTA 10010 OCCUPATIONAL THERAPY INTERVENTIONS FOR PRACTICE II 3 Credit Hours
Course emphasizes development of occupation therapy intervention skills for health including vision, cognition, functional mobility, sensation, pain and feeding. Content will include basic documentation and therapeutic use of crafts while implementing intervention skills to promote functional performance.
Prerequisite: OTA 10003 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

OTA 10192 FIELDWORK 1A (ELR) 1 Credit Hour
During this Level I fieldwork experience, the student will observe and participate in learning opportunities to apply the knowledge, skills and techniques acquired in OTA Occupational Performance courses. These experiences may include: simulated environments, standardized patients, faculty-led site visits and/or supervision by a qualified fieldwork educator in a practice environment.
Prerequisite: OTA 10003 with a minimum C grade.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

OTA 20001 OCCUPATIONAL THERAPY MANAGEMENT AND LEADERSHIP SKILLS 2 Credit Hours
Introduction to management and leadership issues in occupational therapy practice, including ethics, licensure, reimbursement related to practice settings, research and skills required for performance of administrative tasks in an occupational therapy department.
Prerequisite: OTA 10002.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

OTA 20002 OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH 3 Credit Hours
Application of occupational therapy assessment, skills and techniques in treatment program specifically concerned with physical health.
Prerequisite: OTA 10010 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

OTA 20003 OCCUPATIONAL THERAPY INTERVENTIONS FOR PRACTICE III 3 Credit Hours
Development of the occupational therapy practice skills including therapeutic use of occupation, leisure, adapting equipment and environment, therapeutic exercises, activity analysis and documentation.
Prerequisite: OTA 10002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

OTA 20004 OCCUPATIONAL PERFORMANCE IN PEDIATRIC POPULATIONS 3 Credit Hours
Application of occupational therapy assessment, skills and techniques applied to pediatric populations and conditions.
Prerequisite: OTA 20002.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

OTA 20006 OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH II 3 Credit Hours
Continued application of occupational therapy assessment, skills and techniques in treatment programs related to physical health.
Prerequisite: OTA 20002 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

OTA 20392 FIELDWORK 1B (ELR) 1 Credit Hour
During this Level I fieldwork experience, the student will observe and participate in learning opportunities to apply the knowledge, skills and techniques acquired in OTA Occupational Performance courses. These experiences may include: simulated environments, standardized patients, faculty-led site visits and/or supervision by a qualified fieldwork educator in a practice environment.
Prerequisite: OTA 10000 and OTA 10002.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

OTA 20492 FIELDWORK 1C (ELR) 1 Credit Hour
During this Level I fieldwork experience, the student will observe and participate in learning opportunities to apply the knowledge, skills and techniques acquired in OTA Occupational Performance courses. These experiences may include: simulated environments, standardized patients, faculty-led site visits and/or supervision by a qualified fieldwork educator in a practice environment.
Prerequisite: OTA 20002.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

OTA 21000 OCCUPATIONAL THERAPY LICENSURE PREPARATION 1 Credit Hour
Students in the course are informed on how to prepare for their national certification exam and apply for licensure in preparation for practice as occupational therapy assistants. Content includes a brief review of occupational therapy concepts and theories, test taking, study strategies and practice of simulated exam questions.
Prerequisite: OTA 20006.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

OTA 21092 CLINICAL APPLICATIONS I (ELR) 4 Credit Hours
Under the supervision of personnel in selected healthcare agencies, the student will apply knowledge, skills and techniques acquired in prior OTA courses.
Prerequisite: Minimum C grade in OTA 10000 and OTA 10002 and OTA 20002 and OTA 20001 and OTA 20003 and OTA 20006.
Schedule Type: Field Experience
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

OTA 21095 SPECIAL TOPICS IN OCCUPATIONAL THERAPIST ASSISTANT 1-4 Credit Hours
(Repeatable for credit) Special topics in Occupational Therapy Assistant; topics announced when scheduled.
Prerequisite: OTA 10003.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

OTA 21096 INDIVIDUAL INVESTIGATION IN OCCUPATIONAL THERAPIST ASSISTANT 1-4 Credit Hours
(Repeatable for credit) Individual study in Occupational Therapy Assistant and related fields; open to OTA majors.
Prerequisite: OTA 10003.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

OTA 21192 CLINICAL APPLICATIONS II (ELR) 4 Credit Hours
Under the supervision of personnel in selected healthcare agencies, the student will apply knowledge, skills and techniques acquired in prior OTA courses.
Prerequisite: OTA 10000 and OTA 10002 and OTA 10010 and OTA 20001 and OTA 20002 and OTA 20003 and OTA 20006.
Schedule Type: Practical Experience
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

Office of Global Education (OGE)

OGE 10095 SPECIAL TOPICS: STUDY ABROAD (DIVG) (ELR) 0 Credit Hours
(Repeatable for credit) This course provides a vehicle for registering students enrolled in study-abroad programs involving Kent State University-approved exchanges with foreign universities.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 0 lecture
Grade Mode: Transfer
Attributes: Diversity Global, Experiential Learning Requirement

Office Technology (OTEC)

OTEC 16620 WORD PROCESSING I 3 Credit Hours
Builds expertise in creating business documents applying the basic features of popular word processing software. Emphasis on hands on experience.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16621 WORD PROCESSING II 3 Credit Hours
Design and create documents by using advanced features of word processing software.
Prerequisite: OTEC 16620.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16625 BUSINESS PRESENTATIONS 3 Credit Hours
Development and production of professional computer-projected presentation materials using popular software. Includes use of graphic design techniques, color layout design principles and transparencies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16638 GOOGLE APPLICATIONS FOR ADMINISTRATIVE PROFESSIONALS 3 Credit Hours
Introduction to Google Applications. Students will learn to create, modify and manage the various Google Applications; utilize Google Drive; and learn to apply Google Application skills in the work environment and for personal use.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16639 DATABASE APPLICATIONS 3 Credit Hours
Concepts, terminology and use of current database software to manage and retrieve business information. Emphasis on hands-on experiences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16640 ADVANCED DATABASE APPLICATIONS 3 Credit Hours
Provides the student with the skills and knowledge on creating advanced queries, forms and reports. Students learn how to customize, automate and secure the database structure.
Prerequisite: OTEC 16639.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16680 COMPUTER KEYBOARDING 1 Credit Hour
Basic keyboarding course using computers for students having no previous keyboarding instruction or a speed of less than 30 words a minute. To pass the course students, must keyboard above 30 words a minute for three minutes with no more than three errors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

OTEC 26611 SPREADSHEET APPLICATIONS 3 Credit Hours
Use of electronic spreadsheets from beginning to advanced applications that may prepare for software certification.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26622 DESKTOP PUBLISHING I 3 Credit Hours
Study and application of the principles of proper document design using high-end desktop publishing software for newsletters, brochures, reports, forms and other computer-based business documents.
Prerequisite: OTEC 16620.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26623 DESKTOP PUBLISHING II 3 Credit Hours
High-end layout design and illustration software. Includes advanced documents, Web publishing, makeovers, computer graphic concepts and formatting, image editing techniques and the use of color.
Prerequisite: OTEC 26622.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26635 ADMINISTRATIVE RESOURCE MANAGEMENT 3 Credit Hours
Explores how office professionals can apply resource management skills to the areas of space/workflow, forms, budgetary control, staff and materials supplies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26636 PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS 1 Credit Hour
Provides the basic tools needed to effectively manage projects and to automate and streamline such functions as resource allocation, work scheduling and communication. Project management software is used in the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

OTEC 26638 BUSINESS COMMUNICATIONS 3 Credit Hours
Theory and application of oral and written business communication with emphasis on business letters, reports, employment process, visual presentations, and digital communications. Students will learn how to develop proper communication skills including- proper grammar/spelling, punctuation and word usage. Basic word processing skills are suggested.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26640 CURRENT TECHNOLOGIES 3 Credit Hours
Current trends and technology for the marketplace from an end user perspective.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26650 MEDICAL BILLING PROCEDURES (ELR) 3 Credit Hours
Introductory course in the preparation of various medical documents and forms in the health care industry. Use of computers and various word processing software is included. This course requires a 40 clock hour internship.
Prerequisite: OTEC 26655 and OTEC 26656.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

OTEC 26655 ICD CODING 3 Credit Hours
Basic medical coding using the current version of the ICD classification system and nomenclature.
Prerequisite: HED 14020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26656 CURRENT PROCEDURAL TERMINOLOGY (CPT) CODING 3 Credit Hours
Introduction to coding rules for the CPT and Level II coding systems, incorporating and applying ICD rules to code patient services.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26691 SEMINAR FOR OFFICE TECHNOLOGY 3 Credit Hours
(Repeatable for Credit) Refines job search strategies, integrates coursework with realistic office settings, presents interpersonal and ethical issues, provides outreach activities and emphases career management.
Prerequisite: Sophomore standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

OTEC 26692 INTERNSHIP FOR OFFICE TECHNOLOGY (ELR) 2-3 Credit Hours
(Repeatable for Credit) Supervised field experience of ten hours per week paid or seven hours per week unpaid in a business environment functioning as an administrative professional.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

OTEC 26695 SPECIAL TOPICS IN OFFICE TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Special topics in office technology.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

OTEC 26696 INDIVIDUAL INVESTIGATION: OFFICE TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Independent, in-depth research of an office technology topic supervised and coordinated by a program faculty member.
Prerequisite: 12 credit hours of OTEC courses; and special approval from a full-time office technology faculty member.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Paralegal Studies (PLST)

PLST 18000 INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS 3 Credit Hours
An overview of the legal system and the role of a paralegal professional. Includes legal terminology, types of laws, research, litigation, interviewing and office management.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 28001 LEGAL RESEARCH AND WRITING 3 Credit Hours
In-depth analysis of the legal research process, development of legal writing skills, opportunities to utilize research and writing skills are integrated into the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 28003 FAMILY LAW AND PROCEDURE 3 Credit Hours
Designed to acquaint the student with family law substance and practice. Covers definitions, terminology, topical areas and the philosophy underlying family law practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 28004 CIVIL PROCEDURE 3 Credit Hours
Provides an introduction to the rules of civil procedure, statutes of limitation and discovery. Included in this course is a discussion of the role of the paralegal in preparation for litigation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 28007 ESTATE AND PROBATE ADMINISTRATION 3 Credit Hours
A study of legal principles applicable to wills, organization and jurisdiction of probate court, estate administration in probate and tax considerations in estate administration.
Prerequisite: PLST 18000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 30000 ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT 3 Credit Hours
The Federal and State environmental regulations including the National Environmental Policy Act, the Clean Air Act, the Clean Water Act, Solid and Hazardous Waste regulations (RCRA) and the Superfund Legislation require the utilization of trained environmental professionals to conduct Environmental Site Assessments (ESAs). The focus of this course is to introduce students to the methods and approaches for conducting environmental research and study of industrial sites with respect to environmental policies and regulations. The enforcement of regulations utilize environmental professionals who serve in governmental agencies, work in private environmental companies that provide assessments and consultations for industries, and who are employed by industries that seek qualified employees to conduct assessments, and provide professional guidance for industrial regulatory compliance.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 35001 ENVIRONMENTAL LAW FOR PARALEGALS 3 Credit Hours
Acquaints the student with the various federal and state statutes, administrative rules and case law that govern environmental regulation. International environmental law is also studied.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 35003 HEALTH LAW 3 Credit Hours
Makes the student familiar with legal topics in the field of health care including federal and state statutes governing the health care industry in the United States. Specific topics include insurance, privacy, malpractice, fraud, Medicare, Medicaid, health records, labor law-related issues and clinical research.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 35005 LABOR AND EMPLOYMENT LAW FOR PARALEGALS 3 Credit Hours
Provides a foundation in the areas of labor law, employment law, and employment discrimination law. Requires in-depth study of constitutional, statutory, administrative, and case law at both the federal and state level.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 35007 ENERGY AND NATURAL RESOURCES LAW 3 Credit Hours
Acquaints the student with the various sources of law that govern energy production and the harvesting of natural resources in the United States. Statutory, administrative, and case law at the federal and state levels are explored.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 36001 LAW OFFICE TECHNOLOGY 3 Credit Hours
This course introduces students to computer hardware and software that apply to the legal environment. Students learn Microsoft Office components including Teams, Word, Excel, OneNote, PowerPoint and Outlook, and the Windows operating system as they are used in the day-to-day life of paralegals. Students also explore legal specific software including TrialDirector, Clio, NetDocuments, Workshare, iManage and Concordance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 36792 INTERNSHIP IN PARALEGAL (ELR) 3-12 Credit Hours
(Repeatable for credit) Work experience under the direction of supervising faculty members in the following entities: private law firms, legal service/legal aid offices, law departments or corporations and government agencies.
Prerequisite: PLST 18000 and PLST 28001 and PLST 28004.
Schedule Type: Practical Experience
Contact Hours: 21-84 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PLST 38003 ADMINISTRATIVE LAW AND PROCESS 3 Credit Hours
The substantive and procedural aspects of administrative law are covered in this course. Specific topics include the regulation of public utilities, transportation agencies, employment, food and drugs and the environment.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 38005 TORT LAW 3 Credit Hours
Focus is on tort and personal injury law. Specific topics include intentional torts, negligent torts, strict liability, vicarious liability, product liability and business torts. Defenses to tort and product liability are also discussed.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 38006 APPLIED LEGAL RESEARCH AND LITIGATION (WIC) 3 Credit Hours
Provides for intense case analysis and preparation of argumentative memorandum, including writing of factual memoranda, file summaries and advocacy letters.
Prerequisite: PLST 28001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PLST 40095 SPECIAL TOPICS IN PARALEGAL STUDIES 1-3 Credit Hours
(Repeatable for credit) Topics vary depending on instructor and current legal issues in the area of paralegal studies and the law.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PLST 42701 EVIDENCE AND E-DISCOVERY 3 Credit Hours
Addresses the various issues concerning the use of evidence in the pre-trial, trial, and post-trial phases of litigation. The course will address the traditional rules and issues associated with litigation practice as well as the new issues concerning electronic discovery of evidence and the use of that evidence.
Prerequisite: PLST 28001 and PLST 28004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 42705 BANKRUPTCY LAW I: BASIC FUNDAMENTALS 3 Credit Hours
Provides an outlay of the fundamentals of bankruptcy law including the basic rules of the Chapter 7, Chapter 11, and Chapter 13 forms of bankruptcy. This course will also cover other topics such as the bankruptcy petition, the role of the bankruptcy trustee, and discharge from bankruptcy.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 42706 BANKRUPTCY LAW II: CREDITOR-DEBTOR RELATIONS 3 Credit Hours
Addresses issues not addressed in PLST 42705 including Chapter 9, Chapter 12, and Chapter 15 bankruptcy as well as the problems associated with gaining and collecting on a judgment. International bankruptcy issues will also be addressed.
Prerequisite: PLST 42705.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 42708 REAL ESTATE LAW 3 Credit Hours
Provides a general outlay of real estate law in the United States. Students will learn the substantive and procedural aspects of gaining and protecting property rights. Real estate contracts, financing, zoning, and landlord-tenant issues will also be covered.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48002 CONTRACT LAW 3 Credit Hours
Intended to provide the student with an in-depth analysis of basic contract law as such related to contact information, performance and remedies. Also intended to familiarize the student with the sources of law that define contracts with an emphasis on reading and understanding case law. The student also develops a vocabulary of legal terms so that the student may assist the legal practitioner in the representation of clients in business transactions and in disputes.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48300 LAW OF CORPORATIONS AND OTHER ASSOCIATIONS 3 Credit Hours
Covers the formation, operation and dissolution of various kinds of business organizations. Subjects covered include sole proprietorships, corporations, partnerships, the law of agency and employment agreements.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48401 PATENT LAW 3 Credit Hours
Provides the student with an in-depth analysis of the law pertaining to patents, stressing the ability of the owner to protect their rights through filing, registration and use. International issues concerning registration, use, and trade agreements are also covered.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48403 PATENT PROSECUTION 3 Credit Hours
Students learn to craft patent claims in various types of patent applications that would be submitted to the U.S. Patent and Trademark Office. Students also learn the mechanics of various types of patent applications including traditional applications, provisional applications, divisional applications and continuing applications. Students also gain an understanding of the various post-grant proceedings.
Prerequisite: PLST 48401; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48404 COPYRIGHT LAW I 3 Credit Hours
(Slashed with PLST 58404) Intended to provide the student with an in-depth analysis of the foundations of the law pertaining to copyrights. Stresses the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law, trademark law and the law of trade secrets.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48407 TRADEMARK LAW 3 Credit Hours
(Slashed with PLST 58407) Intended to provide the student with an in-depth analysis of the law pertaining to trademarks and trade secrets. Stresses the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law and copyright law.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48408 TRADEMARK PROSECUTION 3 Credit Hours
Covers the substantive and procedural aspects of trademark prosecution at the state, federal, and international levels. Special attention will be paid to the topics of drafting the trademark application and conducting searches of existing trademarks in the United States and abroad.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 58404 COPYRIGHT LAW I 3 Credit Hours
(Slashed with PLST 48404) Intended to provide the student with an in-depth analysis of the foundations of the law pertaining to copyrights. Stress the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law, trademark law and the law of trade secrets.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 58407 TRADEMARK LAW 3 Credit Hours
(Slashed with PLST 48407) Intended to provide the student with an in-depth analysis of the law pertaining to trademarks and trade secrets. The course will stress the ability of the owner to protect such rights through use and registration. The course will also discuss the links to patent law and copyright law.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Peace and Conflict Studies (PACS)

PACS 11001 INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS) 3 Credit Hours
Introduces key elements of conflict management theory and peacebuilding practice such as conflict styles, active listening, assertion, collaborative problem solving, principled negotiation, mediation and nonviolent conflict intervention. These are essential "life skills" useful in personal, social and professional contexts. Includes conflict communication skills development and practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences

PACS 30000 MAY 4 1970 AND ITS AFTERMATH 3 Credit Hours
(Cross-listed with POL 30000) Study of the events of the 1960s in the US leading up to May 4, 1970 when the Ohio National Guard killed and wounded KSU students protesting the US war in Vietnam and Cambodia. Topics are considered within their cultural, historical, social and political contexts. Also examines the aftermath of May 4th, including the controversy over constructing the Gym Annex on the May 4th site, the legal trials, the role of commemorations and memorials and the politics of remembering May 4, 1970.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 31002 GENDER, POWER AND CONFLICT 3 Credit Hours
Examines gender roles and power imbalances in interpersonal relationships, group settings, and on the structural level and the various manifestations of violence that may result, considering some of the ways in which these imbalances are developed, maintained and constructively addressed and potentially redressed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 31003 NONVIOLENCE: THEORY AND PRACTICE 3 Credit Hours
Social conflicts can be intensified and waged in a constructive manner through nonviolent action. Examines how nonviolent action methods bring about social and political change. Explores the theory and philosophy underlying strategies of nonviolent action. Utilizes a wide variety of historical and contemporary case examples of nonviolent struggles from across the globe.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 31010 CONFLICT THEORY 3 Credit Hours
Explores the theoretical foundations of conflict and conflict management to provide a greater understanding of the nature, sources and dynamics of various types of conflict, the special challenges faced in addressing those conflicts, and the theory underlying various approaches to conflict management and resolution.
Prerequisite: PACS 11001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 32020 STRATEGIC PLANNING 3 Credit Hours
Provides training in the principles and tactics of strategic planning for individuals, organizations, agencies and institutions. Students learn to apply the principles of conflict management to strategic planning, including assessing the current environment, developing goals and objectives and establishing a timeline for acting on a strategic plan.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 32030 INTERNATIONAL CONFLICT RESOLUTION (DIVG) 3 Credit Hours
Examines causes, expressions and consequences of international conflicts, exploring mechanisms of their prevention, management and resolution. Includes the appearance and development of these conflicts and early warning, negotiation, and peacekeeping and peacebuilding. Covers international and civil wars and topics such as international terrorism.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

PACS 32040 CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG) 3 Credit Hours
Examines cultural components of conflicts in diverse, multi-cultural settings with special emphases on the nature and sources of cross-cultural conflicts, conflict escalation and de-escalation, and the roles of power disparities. Students examine their own cultural assumptions in order to better understand the multiple effects that cultural dynamics have in conflicts. Case analyses will include conflict resolution techniques respectful of the cultural values of the parties in conflict.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

PACS 33030 CONFLICT IN THE WORKPLACE 3 Credit Hours
Explores the causes, impact and dynamics of conflict in the workplace. Issues explored include personality conflict, incivility, ethics, teams, management style, diversity, legal issues, alternative dispute resolution, union environments and workplace violence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 34010 CAREER PATHWAYS IN PEACE AND CONFLICT STUDIES 3 Credit Hours
So what does one do with a major or minor in peace and conflict studies? How does one find a job or internship in the field? This course encourages students to explore and critically examine how the skills and knowledge learned in Peace and Conflict Studies courses can be utilized and applied in real-world settings. Students will interact with alumni and professionals working in a variety of careers that utilize conflict management and related skills. They will learn how to do professional networking, create a career plan, develop job search strategies, and learn how to market their skills and knowledge. Students will complete the course with a career plan, a detailed identification and exploration of options, or another career-related project.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 35050 ENVIRONMENTAL CONFLICT RESOLUTION 3 Credit Hours
(Cross-listed with POL 30350) Examines environmental conflicts, such as land use disputes and resource conflicts, and conflict resolution theory and processes applicable to environmental disputes, especially biodiversity conservation and natural resource conflicts. Students learn about environmental conflict analysis, multistakeholder environmental dispute resolution, dialogue processes, conflict-sensitivity, and environmental cooperation among others. Case studies of environmental conflicts and participatory simulations are used.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 35092 INTERNSHIP IN PEACE AND CONFLICT STUDIES (ELR) 1-9 Credit Hours
(Repeatable for credit) Students work as interns with an organization, group or business, utilizing and enhancing their skills in conflict management and applied peace studies. Three hours of internship are required for the Peace and Conflict Studies major, and an elective for the Negotiation, Mediation and Conflict Management minor.
Prerequisite: Two Peace and Conflict Studies (PACS) upper-division (30000- or 40000-level) courses; and junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PACS 35095 SPECIAL TOPICS IN PEACE AND CONFLICT STUDIES 3 Credit Hours
(Repeatable for credit) Designed to provide an in-depth examination of topics and issues of interest to faculty and students. Specific topics are announced in the Schedule of Classes and on the School of Peace and Conflict Studies web site.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 36096 INDIVIDUAL INVESTIGATION IN PEACE AND CONFLICT STUDIES 3 Credit Hours
(Repeatable for credit) Individualized program of study and literature review in area of particular interest to the student.
Prerequisite: Two upper-division PACS courses; and junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

PACS 40089 INTERNATIONAL EXPERIENCE: PEACE AND CONFLICT STUDIES (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) (Slashed with PACS 50089) A Kent State faculty-led study abroad experience in peace and conflict studies that provides students with learning through experiential activities and site visits outside the United States.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

PACS 40090 STUDY AWAY: PEACE AND CONFLICT STUDIES (ELR) 1-4 Credit Hours
(Repeatable for credit) (Slashed with PACS 50090) A Kent State faculty-led study away experience in peace and conflict studies that provides students with learning experiences within the United States outside of Kent State University.
Prerequisite: None.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PACS 41010 RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC) 3 Credit Hours
"Transitional justice" refers to civil and political processes used to move from violence and tyranny to peace and democracy. War crimes tribunals, truth and reconciliation commissions, apologies, forgiveness, reparations and memorials are examined.
Prerequisite: One Peace and Conflict Studies (PACS) upper-division (30000 or 40000 level) course; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Writing Intensive Course

PACS 44040 NEGOTIATION 3 Credit Hours
(Slashed with PACS 54040) Effective negotiation skills are essential for success in both our professional and personal lives. This course explores in an engaging and interactive way negotiation theories, strategies and techniques. Students will enhance their negotiation skills by learning to plan for an effective negotiation, to elicit information effectively, to build relationships, to improve their communication and persuasive abilities and to deal with a variety of situations and circumstances. There will be several opportunities to practice negotiation skills in class, to experiment with different approaches, and to develop the skills and confidence to be able to negotiate effectively and constructively.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 45050 COMMUNITY ORGANIZING: PEOPLE, POWER AND PEACEFUL CHANGE 3 Credit Hours
Mobilizing communities for positive and peaceful social change requires thoughtful leaders equipped with the skills to organize people and power. Organizing can make a difference in addressing major public challenges that demand full engagement of community, especially those whose voices are not heard unless they organize. Leadership is accepting responsibility to enable others to achieve shared purpose in the face of uncertainty. Organizing is a way to lead by identifying, recruiting and developing more leaders; building community around that leadership; and building power from the resources of that community.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 45060 ENVIRONMENTAL JUSTICE 3 Credit Hours
(Slashed with PACS 55060) This course traces the linking of environment and social justice movements, initially in the U.S. and then internationally, to cover a range of issues that now fall under the banner of environmental justice. It includes theories of justice and environmental protection; issues and critiques of social injustices in environmental movements, including NIMBY ("not in my backyard"), climate justice and mainstream conservation; and case studies demonstrating the need and means to promote just conservation and sustainable development in a politically and economically divided world. Students learn collaborative, non-violent, decolonial approaches to environmental justice action, dialogues and policymaking.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 45093 VARIABLE TOPIC WORKSHOP IN PEACE AND CONFLICT STUDIES 1-6 Credit Hours
(Repeatable for credit) Variable topic offered as need arises. Specific topics will be announced in the Schedule of Classes and on the School of Peace and Conflict Studies website.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PACS 48080 MEDIATION: THEORY AND TRAINING 3 Credit Hours
(Slashed with PACS 58080) Provides training in mediation skills, principles and methods in an interactive way. Students examine the historical development of mediation and the uses of mediation in various contexts including family, business, labor-management, civil, community, and workplace disputes.
Prerequisite: PACS 11001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 49091 VARIABLE CONTENT SEMINAR IN PEACE AND CONFLICT STUDIES 1-3 Credit Hours
(Slashed with PACS 59091) (Repeatable for maximum of 3 credit hours) Seminar devoted to detailed study of various topics in the field of peace and conflict studies. Specific topics are announced in schedule of classes and on the School of Peace and Conflict Studies website.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PACS 50089 INTERNATIONAL EXPERIENCE: PEACE AND CONFLICT STUDIES 1-4 Credit Hours
(Repeatable for credit) (Slashed with PACS 40089) A Kent State faculty-led study abroad experience in peace and conflict studies that provides students with learning through experiential activities and site visits outside the United States.
Prerequisite: Graduate standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter

PACS 50090 STUDY AWAY: PEACE AND CONFLICT STUDIES 1-4 Credit Hours
(Repeatable for credit) (Slashed with PACS 40090) A Kent State faculty-led study away experience in peace and conflict studies that provides students with learning experiences within the United States outside of Kent State University.
Prerequisite: Graduate standing.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter

PACS 54040 NEGOTIATION 3 Credit Hours
(Slashed with PACS 44040) Effective negotiation skills are essential for success in both our professional and personal lives. This course explores in an engaging and interactive way negotiation theories, strategies and techniques. Students will enhance their negotiation skills by learning to plan for an effective negotiation, to elicit information effectively, to build relationships, to improve their communication and persuasive abilities and to deal with a variety of situations and circumstances. There will be several opportunities to practice negotiation skills in class, to experiment with different approaches, and to develop the skills and confidence to be able to negotiate effectively and constructively.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 55060 ENVIRONMENTAL JUSTICE 3 Credit Hours
(Slashed with PACS 45060) This course traces the linking of environment and social justice movements, initially in the U.S. and then internationally, to cover a range of issues that now fall under the banner of environmental justice. It includes theories of justice and environmental protection; issues and critiques of social injustices in environmental movements, including NIMBY ("not in my backyard"), climate justice and mainstream conservation; and case studies demonstrating the need and means to promote just conservation and sustainable development in a politically and economically divided world. Students learn collaborative, non-violent, decolonial approaches to environmental justice action, dialogues and policymaking.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 58080 MEDIATION: THEORY AND TRAINING 3 Credit Hours
(Slashed with PACS 48080) Provides training in mediation skills, principles and methods through cooperative, participatory, interactive, skills-building pedagogies. Students examine the historical development of mediation and the uses of mediation in various contexts including family, business, labor-management, civil, community, and workplace disputes.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 59091 VARIABLE CONTENT SEMINAR IN PEACE AND CONFLICT STUDIES 1-3 Credit Hours
(Slashed with PACS 49091) (Repeatable for maximum of 3 credit hours) Seminar devoted to detailed study of various topics in the field of peace and conflict studies. Specific topics are announced in schedule of classes and on the School of Peace and Conflict Studies website.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PACS 60000 FOUNDATIONS OF CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Cross-listed with POL 60901)(Slashed with POL 70901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60001 ADVANCED NEGOTIATION 3 Credit Hours
Conflict and negotiation are normal and unavoidable parts of life. This course goes beyond basic negation concepts like principled negotiation, focusing on topics including the psychology of negotiation, power, international relations, technology and other advanced topics. We cover issues of information asymmetry; power; ethics; and multi-party, iterative and collaborative negotiations. We use research in negotiation and research on prior case studies to illustrate topics. This course is highly interactive, focusing on experiential learning and education. Evaluation of performance includes experiential exams, reflection papers and written understanding and analysis of real-world negotiations. Simulations and games are used in class frequently to illustrate concepts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60002 ADVANCED MEDIATION 3 Credit Hours
This course provides students with a conceptual understanding of mediation as well as practical mediation skills. It enables them to work as intermediaries who can assist conflict parties to reflect on the sources and dynamics of their conflict; develop mutually acceptable solutions and foster constructive, sustainable relationships. The course starts with essential concepts and skills for mediating small-scale interpersonal conflicts. It then addresses more complex inter-group, multiparty conflicts as well as deep-rooted structural conflicts. Through class discussions on readings and simulation exercises, students tackle questions such as how to work on conflicts in which there are many competing issues, goals and priorities involved; how to mediate enduring, intractable conflicts over identity, value and social structure; and how to respond to serious ethical dilemmas and power asymmetry. To meet these challenges, students not only critique the popularized framework of interest-based principled negotiation/mediation, but also develop holistic, creative third-party contributions to systemic social change.
Prerequisite: PACS 60000; and PACS 60001; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60003 COMMUNITY-BASED CONFLICT TRANSFORMATION 3 Credit Hours
This course is designed to expand your knowledge of and practice competency in group and community level dynamics and peacebuilding techniques, giving you the skills and knowledge to turn divisive situations into strengthened and connected communities. The course begins by introducing theories of group processes, engagement and peace building. It then focuses on using case studies and experiential learning to master the skills and understand the applications of group and community peace building techniques. Case studies range across the areas of education, democracy, leadership, restorative justice, community conflict resolution and institutional change. Examples of topics include: theories of group process, engagement, participation, efficacy, dynamics and contact; community conflict resolution process such as inter-group dialogue and race dialogue; institutional change and strategic planning including evaluation and intervention for institutions, facilitation, stakeholder identification, planning, best practices and consensus decision making, ground rules, fishbowls and debriefs; and democracy and restorative justice practices including deliberative democracy, circle process and alternatives to violence project (AVP). The final course project involves students in applying these skills in partnership with a local community organization, group or neighborhood to address a community need or conflict. This class is taught in a flipped format.
Prerequisite: Graduate standing.
Corequisite: PACS 60000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60004 ORGANIZATIONAL CONFLICT AND COOPERATION 3 Credit Hours
This course examines organizational conflict, cooperation and partnership. Whether volunteering with a community-based organization, managing a team in a highly bureaucratized institution, joining a student group or organizing a coalition, navigating organizational dynamics (culture) and building and managing collaborations and partnerships are challenging tasks that require understanding differences, coping with power relations and transforming conflicts. In this class, we explore types of organizational interactions, nature and source of organizational conflict, organizational culture and collaboration, power dynamics, decision making and problem solving in organizations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60005 PEACE, CONFLICT AND DEVELOPMENT: LOCAL-GLOBAL DYNAMICS 3 Credit Hours
This course explores the relationships between peace, conflict and development. It covers key concepts, theories and approaches to understanding and addressing the nexus between peace, conflict and development. Students critically review relevant theoretical and policy literature and apply them to real-world case studies as part of participatory skill-building exercises. The course starts with an overview of essential development theories, models and actors in development practice. It examines relevant scholarly and policy debates on conflict-development links; the political economy of conflict and (uneven) development; relevant security issues (e.g., small arms proliferation, disarmament, demobilization and reintegration (DDR), security sector reform (SSR)); the relationships between natural resources, livelihoods and conflict; the roles of gender and youth in conflict and development; measures of effective development in conflict-affected societies; and development alternatives, as well as emerging critical debates on alternatives to development.
Prerequisite: Graduate standing.
Corequisite: PACS 60000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60006 POST-CONFLICT PEACEBUILDING 3 Credit Hours
Throughout the course of the past decade, peacebuilding has become the concept du jour of not only the field of conflict resolution and peace studies, but of the larger fields of international relations, development studies, transitional justice and a host of other subfields and portions of area studies. This is partly due to the fact that peacebuilding has become somewhat of a monster, enveloping and consuming different approaches to conflict resolution, international relations and development studies to the point that almost any activity addressing those involved or suffering from conflicts can be included under its umbrella. However, given that the concept was originally coined to help address the tasks necessary to implement peace, this class largely, though not wholly, focuses on post-conflict peacebuilding and how different actors at different levels have roles to play in achieving sustainable peace in communities and regions and within states. We examine the concepts that make up peacebuilding, the manners in which peacebuilding efforts have been implemented by actors at multiple levels and the problems associated with dominant approaches to the topic.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60007 PRAXIS IN CONFLICT-SENSITIVE DEVELOPMENT 3 Credit Hours
This course enables students to build the practical skills necessary to advance socially responsible and sustainable development across conflict-affected societies and regions. A key concept explored throughout the course is conflict sensitivity - a sustained, iterative process of analyzing social conflict as a context of development work; understanding the interactions between the context and the development intervention; and making use of the understanding to maximize positive program impacts and minimize negative impacts. Students apply a range of theories to skill-building exercises in order to learn how to practice conflict-sensitive development. Through these experiential exercises, students think through the entirety of the development program cycle - from needs assessment to proposal development, fundraising, program implementation, capacity building, report writing, monitoring and evaluation and project phase-out. In each of these steps, students examine how to practice cultural sensitivity, stakeholder inclusion, local ownership and sustainability in a context-specific, adaptive manner. Case studies highlight essential themes selected from the Sustainable Development Goals (SDGs), a United Nations-sponsored list of 17 development goals such as poverty alleviation, food security, health, education, gender equity and climate change action. The course also opens dialogue on how to go beyond the conventional framework of conflict-sensitivity to realize conflict-transformative development.
Prerequisite: PACS 60000; and graduate standing.
Pre/corequisite: PACS 60005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60009 LEADERSHIP FOR PEACEFUL CHANGE 3 Credit Hours
This course introduces a series of group discussions and experiential learning exercises designed to enable students to critically reflect on the lessons from their preceding coursework, gain additional practitioner skills and prepare for a career in the field. The experiential learning exercises include a multi-stakeholder simulation in which student teams make use of their skills to examine and address the complexity of real-world challenges. The themes explored throughout the seminar are: (1) collaborative, inclusive and ethical leadership capable of empowering people and groups to realize peaceful social change, (2) crisis management of unexpected events and security challenges, (3) integrative thinking to draw upon diverse theories, methods and skills, (4) the ability to develop theory-informed practices and advance theories derived from practical experiences to demonstrate adaptive leadership, and (5) illustrative examples of, perspectives on and planning for career development, life-work balance and self-care, all of which are essential for building successful careers in the field.
Prerequisite: PACS 60000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60020 IDENTITY DRIVEN CONFLICTS 3 Credit Hours
(Cross-listed with POL 60903)(Slashed with POL 70903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.
Prerequisite: Graduate standing.
Pre/corequisite: PACS 60000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60021 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours
(Cross-listed with POL 60902)(Slashed with POL 70902) Examines power disparities and gender as sources of conflict in multiple arenas —including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphases is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60022 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours
(Cross-listed with POL 60904)(Slashed with POL 70904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60023 PEACE PSYCHOLOGY 3 Credit Hours
This course provides students with an introduction to the concepts of peace psychology and how these concepts relate to wider themes in the peace and conflict studies field, including positive and negative peace, conflict resolution and reconciliation. During the course, students investigate the micro-level psychological foundations for peace and conflict (e.g., power and emotions) and group and national level dynamics. In each class, a variety of psychological approaches, from neuroscience to political psychology, are discussed. This course is highly interactive, focusing on experiential learning and education. This means students should be prepared to participate in discussions, simulations and presentations. Collaborative work and case studies help students develop their ability to apply and assess peace psychology theories. Students also have opportunities to personalize the course content and assignments to support their learning and research interests.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60024 VISUAL METHODS FOR PEACE AND CHANGE 3 Credit Hours
Visual methods are critically important in making and understanding democratic peaceful change. This course explores three intersecting bodies of knowledge: methods and practices in visual studies, global approaches to film as a means of social change, and theories and approaches to peace and conflict studies. A focus is on interdisciplinary scholarly methods for understanding visual materials.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60040 FACILITATION AND TRAINING: DESIGN AND PRACTICE 3 Credit Hours
This course is designed to teach fundamental practices of peace building in group settings. This includes learning how to facilitate meetings; set agendas; de-escalate and facilitate group level conversations; run trainings in conflict management and build other practical, hands-on skills. All skills in this course are transferrable across a variety of careers and situations. This course incorporates experiential learning both inside and outside the classroom, with students taking the lead in facilitating class discussions and joining in community projects.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60041 PEACE EDUCATION 3 Credit Hours
This class explores the interdisciplinary concepts, theories and practices that provide a global overview of peace education. The course offers an overview of the history, scholarship and practices of peace education, addressing a variety of international structures, organizations and individuals engaged in its practice. A range of concerns are investigated, including war; genocide; climate change; economic disparities and the marginalization of minorities based upon race, ethnicity, gender, sexual orientation, gender identity, religious affiliation, culture and other categories of difference. Theories of positive peace, conflict resolution, restorative justice, liberation pedagogy and experiential education are also introduced.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60042 PUBLIC SECTOR CONFLICT TRANSFORMATION 3 Credit Hours
This course examines the many ways that conflict and decision-making are made in the public sector. Some methods of public interaction and decision-making are familiar and well-studied. Others are less so, despite their increasing use in a variety of policy domains and other circumstances. Such is the case with conflict resolution, which is now broadly used across the United States and internationally on multiple levels and by multiple groups with differing aims. This course explores the varied applications in public policy of conflict resolution principles, including negotiated rule making, public sector dispute resolution, mediation, collaborative problem solving, democratic governance, community-based planning and consensus building.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60070 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours
(Cross-listed with POL 60507)(Slashed with POL 70507) Throughout the past 30 years, many states and societies have negotiated complicated transitions from authoritarianism, widespread human rights violations and intractable civil conflict toward various degrees of justice, truth-telling, reconciliation and democracy. Some have done it well and some have not; policy certainly matters in this politically potent arena. For example, political memory and accountability may be swept under the public rug—doing so may, or may not, trip up an experiment in democracy. Alternatively, truth-telling and justice may, or may not, be a springboard for reconciliation, healing and citizen empowerment. In this course, we focus on the policies and mechanisms used to constructively confront impunity and come to terms with past horrors. We analyze various international institutions like war crimes tribunals and truth commissions and various local mechanisms like Rwanda's Gacaca courts. We also study the differing roles of reparations paid to victims for past injustices, amnesties granted to former government officials, immunity being traded for truth-telling about the past and the impacts of commemoration and memorialization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60071 SOCIETY TECHNOLOGY AND SECURITY 3 Credit Hours
This course engages with current debates on the relationship between society, technology, peace and security, focusing particularly on military and dual-use technologies. The course begins by analyzing the literature on how technology shapes societies and how societies shape technology. This includes consideration of the way societies influence the emergence and application of particular technologies and the way understandings of military technological categories (e.g., pariah weapons, precision weapons) have been socially constructed. The module then examines how states and societies have responded to the policy and governance challenges presented by the development and trade in established weapons categories. This includes analysis of the history of disarmament initiatives, movements and agreements as well as the new field of 'humanitarian disarmament'. It also includes examination of recent initiatives aimed at limiting weapons proliferation and armed violence in conflict-ridden societies. The remainder of the course is devoted to exploring the legal, normative and policy debates over the use of modern and emerging technologies. This includes examination of the governance implications of new developments in fields such as biotechnology, nanotechnology, cyber-warfare and drones.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60072 ENVIRONMENTAL CHANGE AND CONFLICT 3 Credit Hours
This course examines the varied theoretical and policy challenges involved in addressing the intersection between changes in the environment; the governance and sustainability of natural resources and ecosystems; and the prevention, management and resolution of conflict. It traces the history and development of environmental security and environmental peacebuilding, building a solid foundation in key theories, terminology and concepts, such as the relationship between natural resources and conflict (including scarcity vs. abundance, access and governance); the redefinition of security and securitization of the environment; slow- vs. sudden-onset climate change and displacement; and environmental cooperation in peacekeeping, peacemaking, peacebuilding and contemporary conflict resolution. Students have a working knowledge of important international laws and policies governing the protection of the environment in relation to armed conflict and engage in critical discussions at the intersection of conflict issues and trends in environmental change, such as green militarization and small arms proliferation, environmental crimes and surveillance, fortress conservation and conservation conflicts, the role of gender and youth, human rights and environmental defenders, climate justice and conflict-sensitive climate adaptation. Students apply the knowledge and skills developed in the course to the development of environmental security assessments, peace and conflict impact assessments and foresight analyses.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60099 INTERVENTION DESIGN AND IMPLEMENTATION IN PEACE AND CONFLICT STUDIES 6 Credit Hours
This course provides students with an experiential opportunity to integrate theoretical and classroom work with conflict analysis and intervention work in a variety of real-world projects. Each session provides students the opportunity to work on a project where they will engage in intervention design, planning and research and practice implementation activities under faculty guidance.
Prerequisite: PACS 60000 and POL 60010; and graduate standing.
Corequisite: PACS 60009.
Schedule Type: Project or Capstone
Contact Hours: 6 other
Grade Mode: Standard Letter

PACS 60192 INTERNSHIP IN PEACE AND CONFLICT STUDIES 3-6 Credit Hours
(Repeatable for credit) Students work as interns with an organization, group or business, utilizing and enhancing their skills in applied peace studies. The student also typically provides a journal of the experience, as well as a written analysis comparing the practice of the internship to an example of recent scholarship in the field.
Prerequisite: PACS 60000 and PACS 60001; and graduate standing; and special approval.
Corequisite: PACS 60009.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Standard Letter-IP

PACS 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 credit hours, 2 to 6 in a single semester, distributed over several semesters if desired.
Prerequisite: Graduate standing.
Pre/corequisite: PACS 60001 and POL 60010.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PACS 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis II students must continue registration each semester until all degree requirements are met.
Prerequisite: PACS 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Peace Officer Training Academy (POTA)

POTA 11001 PEACE OFFICERS ACADEMY I 6 Credit Hours
This course studies the role of the peace officer, principles of the American criminal justice system, ethics and professionalism. This course also studies the Ohio criminal code, constitutional law, the tenets of civil liability to law enforcement. It also covers case investigation, forensic procedures, interviews, execution of search warrants and physical conditioning. The student will comply with all the student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.
Prerequisite: Admission into the peace officers academy training certificate program.
Schedule Type: Combined Lecture and Lab
Contact Hours: 18.5 lecture, 3.6 lab
Grade Mode: Standard Letter

POTA 11002 PEACE OFFICERS ACADEMY II 5 Credit Hours
This course is designed to address the skills necessary for a first responder to administer aid and assistance in an emergency situation. Crowd control, HazMat, weapons of mass destruction, incident command systems and terrorism awareness is taught. Safe handling techniques and usage of firearms and they safety are covered. Students must demonstrate a measured skill level firing handguns and comply with all student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.
Prerequisite: Admission into the peace officers academy training certificate program.
Schedule Type: Combined Lecture and Lab
Contact Hours: 10.3 lecture, 8.4 lab
Grade Mode: Standard Letter

POTA 11003 PEACE OFFICERS ACADEMY III 6 Credit Hours
This course studies the means of dealing with interpersonal communications and intervention with groups and individuals who require law enforcement involvement. Emphasis is placed on patrol techniques, the principles and application of defense and pursuit driving. Students are trained in the reasonable responses to resistance or aggression and are taught self-defense techniques. The student will comply with all the student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.
Prerequisite: Admission into the peace officers academy training certificate program.
Schedule Type: Combined Lecture and Lab
Contact Hours: 12 lecture, 9.6 lab
Grade Mode: Standard Letter

POTA 11004 PEACE OFFICERS ACADEMY IV 5 Credit Hours
This course covers traffic enforcement, crash investigation, OVI enforcement, traffic technologies. Physical conditioning for law enforcement is mandatory. The student will comply with all the student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.
Prerequisite: Admission into the peace officers academy training certificate program.
Schedule Type: Combined Lecture and Lab
Contact Hours: 14.4 lecture, 3.6 lab
Grade Mode: Standard Letter

Philosophy (PHIL)

PHIL 11001 INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) 3 Credit Hours
An introduction to the diverse methods and subject matters in philosophy. Topics may include: What are the arguments for the existence of God? Do humans have free will? Can we know anything with certainty, and how do we know anything at all? Is what we see real, or might it be only an illusion? What makes a person a person - their mind, or their physical attributes? Is the mind the brain, or is it something else?
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

PHIL 11009 CRITICAL THINKING (KADL) 3 Credit Hours
Critical thinking is essential to every aspect of life, whether reading a news report or editorial, examining a contract or other legal document, or entering into a debate. This course teaches the strategies of “cognitive self-defense” that allow students to see past false claims and avoid being deceived by misleading rhetorical strategies. The course also examines the role of argument in reasoning, including types of arguments and the ways in which mistakes in reasoning can lead us astray. Examples from everyday life illustrate the sorts of complex reasoning that are a crucial part of practical decision-making.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Additional, TAG Arts and Humanities

PHIL 20095 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) Sophomore level course with variable content of philosophical interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 21001 INTRODUCTION TO ETHICS (DIVG) (KHUM) 3 Credit Hours
What makes an action morally right or morally wrong, and who gets to decide? Is ethics about performing actions that are morally right, or is it about being a virtuous person? This course examines at least three competing theories about ethics, including challenges to each theory. Students get to decide which theory they think is best, but every theory presents its own strengths and weaknesses.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

PHIL 21002 INTRODUCTION TO FORMAL LOGIC (KMCR) 3 Credit Hours
This course is designed to sharpen students' reasoning skills and to help them better understand the structure of reasoning in general. To do this, it introduces students to some formal languages, such as Propositional Logic and Predicate Logic, that represent the logical structure of deductive reasoning. Unlike natural languages such as English, these formal languages allow students to focus on the general structure of different types of arguments, without discussing the content of any particular argument. Course covers both the construction of formal proofs in these languages, and translation between them and English. The study of formal logic contributes to effective and persuasive reasoning, not only in philosophy, but in any discipline or context. It also provides effective tools for evaluating the strength of English-language arguments. The skills that students acquire in this course are thus widely applicable in their personal, professional and academic lives.
Prerequisite: Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, TAG Arts and Humanities, Transfer Module Mathematics

PHIL 30015 MEDICINE AND MORALITY 3 Credit Hours
A philosophical exploration of at least three issues related to current medical practices, which may include ethical, religious, legal and clinical aspects. Topics may include: abortion, the use of genetic technologies, organ donation and transplantation, the use of human research subjects, or end-of-life decision-making.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 30025 ENVIRONMENTAL PHILOSOPHY (ELR) 3 Credit Hours
An examination of philosophical issues in environmental studies, including topics such as animal ethics and the sources of our food; the value of nature and environmental aesthetics; sustainability and biodiversity; ecofeminism, social justice and radical ecology; and the human response to climate change. The course is designed to complement fields of study such as geography, environmental studies and biology.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PHIL 31002 MEDIEVAL PHILOSOPHY 3 Credit Hours
Examination of issues in medieval thought, such as the existence and nature of God, the relationship between faith and reason, the problem of universals and the nature of causality. Selections from philosophers such as Augustine, Boethius, Aquinas, Abelard, Avicenna, Duns Scotus and William of Ockham.
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31011 ANCIENT PHILOSOPHY 3 Credit Hours
Examination of ancient philosophy, including Greek philosophers such as Plato and Aristotle, and those who inherited their philosophy. The ancients made the move from explanation based on myth to philosophical explanation. What did that move involve? How did the ancient philosophers answer questions about the nature of reality, what exists, the reliability of the senses and the types of things in the world? How did they conceive of the good life?
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31012 EARLY MODERN PHILOSOPHY 3 Credit Hours
The course features selections from rationalists such as Descartes, Spinoza and Leibniz, and empiricists such as Locke, Berkeley and Hume, of the early modern philosophical period. Rationalists believe that all knowledge is grounded in a priori knowledge of necessary principles. Empiricists believe that knowledge is grounded in sensory experience. How did these differences shape their wider views of the world?
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31013 LATE MODERN PHILOSOPHY 3 Credit Hours
The course explores the development of 19th century German idealism by thinkers such as Fichte, Hegel and Schelling, whose work was prompted by Kant's transcendental idealism understood as critique or as the examination of the conditions for the possibility of knowledge acquisition as a touchstone for understanding the relationship among metaphysics, epistemology, ethics and political philosophy. The course thus begins with Kant's critical project before turning to its reception and the various 19th century responses to it. Additional selections from Kant's ethical and political writings may supplement this reading. The course may also cover additional figures, such as Schopenhauer, Nietzsche and Marx, whose work, in turn, is a response to German idealism itself.
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31030 EXISTENTIALISM 3 Credit Hours
Examination of the themes of existentialism, which include absurdity, freedom, and the individual's relationship to the world. Philosophers studied may include Sartre, Kierkegaard, Nietzsche, Camus, de Beauvoir, Ortega y Gasset, Marcel, and Tillich. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31035 PHILOSOPHY AND JUSTICE (DIVD) 3 Credit Hours
Consideration of topics and issues relevant to the concept of justice, as addressed by a range of classical and contemporary philosophers. Topics may include the nature of justice from feminist, libertarian, liberal, socialist, communitarian, egalitarian, and social welfare perspectives; and the application of these perspectives to practical issues such as affirmative action, democracy, equal pay, environmental justice, just war, criminal justice, civil disobedience, tort law and poverty. Students with junior standing or above, who have not taken a Philosophy [PHIL] course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

PHIL 31040 FEMINIST PHILOSOPHY (DIVD) 3 Credit Hours
The course introduces feminist philosophy understood as social critique: a critique of unjust, exclusionary, and oppressive systemic practices surrounding sex, sexuality, and gender. As such, the course focuses on issues such as gender identity, sexual difference, the sex and gender binaries, gendered experience, trans embodiment, and LGBTQI marginalization. The course asks whether, and if so, how, feminist theory (more broadly) and feminist philosophy (more narrowly) could draw on canonical philosophical texts, traditions, and figures. The course focuses extensively on contemporary approaches, including queer, race, and gay and lesbian theory. Students with junior standing or above, who have not taken a philosophy course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

PHIL 31050 PHILOSOPHY THROUGH LITERATURE 3 Credit Hours
This course introduces several philosophical problems via an examination of those problems and themes in works of literature. The course combines philosophical essays with works of poetry, short novels, and short stories, so as to expose students to diverse perspectives on complex philosophical problems. Students with junior standing or above, who have not taken a philosophy course should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31060 PHILOSOPHY OF ART AND BEAUTY (ELR) 3 Credit Hours
Investigation of concepts such as the artistic object and creative expression, and examination and critique of a range of theories designed to solve various problems in the field of aesthetics, or the study of the nature and principles of artistic beauty. Examples drawn from diverse genres such as the visual arts, drama, music, and dance provide the context for discussion of topics including what makes something beautiful and what is involved in an act of creativity. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PHIL 31091 PHILOSOPHERS IN DEPTH (WIC) 3 Credit Hours
(Repeatable for credit) This course introduces students to the work and influence of one philosopher, in depth. The choice of philosopher whose work is investigated varies by instructor. The course serves as a counterbalance to the broad introduction to the history of philosophy that students receive in the history of philosophy sequence. In this course, students learn to work carefully with primary sources, along with learning the requirements of academic philosophical writing. Students exhibit their understanding of the course content and mastery of philosophical writing through a variety of short and long assignments.
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PHIL 40005 HEALTH CARE ETHICS 3 Credit Hours
Ethical problems in health care critically assessed, and consideration of how these specific ethical problems illuminate the ethical enterprise. Students with junior standing or above, who have not taken a philosophy course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 40093 VARIABLE TITLE WORKSHOP IN PHILOSOPHY 1-6 Credit Hours
(Repeatable for credit)
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PHIL 41010 PROBLEMS IN THE PHILOSOPHY OF RELIGION 3 Credit Hours
(Slashed with PHIL 51010) Philosophical examination of issues and problems presented by various writers in philosophy of religion.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41020 SOCIAL AND POLITICAL PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 51020) Critical examination of classical and contemporary philosophical theories of the nature of society, and the state as political system that best represents a well-organized society. Topics may include the nature, existence, and justification of the state, the issue of political obligation, theories of anarchism, utopia, democracy, liberalism, communitarianism, citizenship, and patriotism, and examination of the nature of the social and political values or notions of rights, equality, and liberty.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41025 PHILOSOPHY OF LAW 3 Credit Hours
(Slashed with PHIL 51025) Critical examination of the nature, features, foundation, and function of law. Topics may include the debate between natural law theory and legal positivism, with respect to whether law and moral are necessarily connected, as well as the nature of judicial decision, constitution interpretation, the basis and elements of criminal, civil law (contract, tort) law, the grounds for obeying or disobeying bad laws, and analysis of some supreme court cases which raise philosophical issues about the nature and function of law.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41030 ETHICAL THEORY 3 Credit Hours
(Slashed with PHIL 51030) In this course, students will explore developments in the dominant normative theories of 20th and 21st century Anglo-American ethics, including consequentialism, deontology, virtue ethics, ethics of care, and varieties of contract theory.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41035 PHILOSOPHY OF SCIENCE 3 Credit Hours
(Slashed with PHIL 51035) What is science? What are its distinctive aims and methods, and how do they bolster the epistemic authority of scientific theories? Do sociological, historical, and cultural factors play a major role in the advancement of scientific thought? These questions, and others like them, define the philosophy of science - a branch of philosophy that deals with the metaphysical, epistemological, and normative issues that arise in the study of scientific practice.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41036 PHILOSOPHY OF COGNITIVE SCIENCE 3 Credit Hours
(Slashed with PHIL 51036) In this course, students focus on issues at the interface of philosophy, psychology, neuroscience, linguistics, and artificial intelligence. These fields, which comprise contemporary cognitive science, present the philosopher with an opportunity to clarify foundational concepts, such as computation, innateness, language, perception, and learning. Ultimately, the goal of the course is to understand various proposals about how neural computation could amount to human intelligence and consciousness.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with CS 41038 and MATH 41038)(Slashed with MATH 51038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics. Students with junior standing or above who have not taken a philosophy course should contact the department for a prerequisite override.
Prerequisite: CS 23022 or MATH 12003 or MATH 23022 or PHIL 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41040 EPISTEMOLOGY 3 Credit Hours
(Slashed with PHIL 51040) What is the difference between merely believing something to be the case and knowing it to be the case? In this course students examine various theories designed to answer this question and evaluate their respective strengths and weaknesses. The course will cover the Gettier problem that questions the traditional definition of knowledge as justified true belief, the debate between foundationalism and coherentism, the debate between internalism and externalism about justification, naturalized epistemology, and virtue epistemology.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41042 METAPHYSICS 3 Credit Hours
(Slashed with PHIL 51042) Covers several topics in contemporary analytic metaphysics. Topics may include existence, identity, things and their persistence over time, the nature of modalities and possible worlds, and the relationship between material parts and wholes.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41048 METAETHICS 3 Credit Hours
(Slashed with PHIL 51048) Metaethics is the study of the nature and justification of moral judgments, as distinct from ethics, which aims to articulate principles, criteria, or alternative approaches to understanding and achieving goodness and right action. Metaethics examines the concepts, ontology, psychology, and modes of justification employed within ethics. This course will explore recent developments about such questions as: which, if any, ethical judgments can be true or false; whether we can know true ethical statements; and to what kinds of properties, if any, ethical judgments and beliefs refer.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41052 PHILOSOPHY OF LANGUAGE 3 Credit Hours
(Slashed with PHIL 51052) Critical examination of nature and function of language especially in relation to mental function and development.
Prerequisite: One 30000-level Philosophy (PHIL) course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41055 PHENOMENOLOGY 3 Credit Hours
(Slashed with PHIL 51055) In-depth study of the phenomenological movement in twentieth-century philosophy, from its origin in the thought of Edmund Husserl and his contemporaries, through such canonical thinkers as Martin Heidegger and Maurice Merleau-Ponty, to various contemporary developments. Substantial time is also devoted to considering applications of phenomenology to various disciplines in the humanities, social sciences, and arts. This is in keeping with the overall focus in this seminar on phenomenology not only as a philosophical school, but also as a methodology with broad and diverse applications.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41060 PRAGMATISM 3 Credit Hours
(Slashed with PHIL 51060) As America's distinctive "home-grown" philosophy, pragmatism embodies the values of action, problem-solving, and consensus-building within a pluralistic society. The core of this course examines the seminal works of the classical American pragmatists: Peirce, James, and Dewey. Special attention will be devoted to a phenomenology of experience that undercuts the dualisms of mind and matter, subject and object, self and world.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41076 CONTINENTAL PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 51076) Investigation of some figure, issue or theme in continental philosophy from Descartes to present.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41080 PHILOSOPHY AND ART: 1890 - PRESENT 3 Credit Hours
(Slashed with PHIL 51080) Exploring, with emphasis on the modern age, philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41491 SEMINAR IN ASIAN PHILOSOPHY (DIVG) 3 Credit Hours
(Repeatable for credit) (Slashed with PHIL 51491) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in Asian philosophy.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Diversity Global

PHIL 41591 SEMINAR IN THE HISTORY OF PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 51591)(Repeatable for credit) Intensive primary source reading and critical appreciation of the significant works of one or more philosophical figures or issues from various traditions in philosophy.
Prerequisite: One 30000-level Philosophy (PHIL) course.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PHIL 49995 SPECIAL TOPICS 2,3 Credit Hours
(Repeatable for credit when topic varies)
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter

PHIL 49996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit with departmental approval prior to registration)
Prerequisite: Departmental special approval prior to registration.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

PHIL 49999 SENIOR HONORS PROJECT (ELR) 2,3 Credit Hours
(Repeated registration permitted with departmental approval prior to registration) Thesis or other independent study or creative project.
Prerequisite: Departmental permission before registration.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PHIL 50005 HEALTH CARE ETHICS 3 Credit Hours
Ethical problems in health care critically assessed and consideration of how these specific ethical problems illuminate the ethical enterprise.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 50093 VARIABLE TITLE WORKSHOP IN PHILOSOPHY 1-6 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

PHIL 51010 PROBLEMS IN THE PHILOSOPHY OF RELIGION 3 Credit Hours
(Slashed with PHIL 41010) Philosophical examination of issues and problems presented by various writers in philosophy of religion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51020 SOCIAL AND POLITICAL PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 41020) Critical examination of classical and contemporary philosophical theories of the nature of society, and the state as political system that best represents a well-organized society. Topics may include the nature, existence, and justification of the state, the issue of political obligation, theories of anarchism, utopia, democracy, liberalism, communitarianism, citizenship, and patriotism, and examination of the nature of the social and political values or notions of rights, equality, and liberty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51025 PHILOSOPHY OF LAW 3 Credit Hours
(Slashed with PHIL 41025) Critical examination of the nature, features, foundation, and function of law. Topics may include the debate between natural law theory and legal positivism, with respect to whether law and moral are necessarily connected, as well as the nature of judicial decision, constitution interpretation, the basis and elements of criminal, civil law (contract, tort) law, the grounds for obeying or disobeying bad laws, and analysis of some supreme court cases which raise philosophical issues about the nature and function of law.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51030 ETHICAL THEORY 3 Credit Hours
(Slashed with PHIL 41030) In this course, students will explore developments in the dominant normative theories of 20th and 21st century Anglo-American ethics, including consequentialism, deontology, virtue ethics, ethics of care, and varieties of contract theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51035 PHILOSOPHY OF SCIENCE 3 Credit Hours
(Slashed with PHIL 41035) What is science? What are its distinctive aims and methods, and how do they bolster the epistemic authority of scientific theories? Do sociological, historical, and cultural factors play a major role in the advancement of scientific thought? These questions, and others like them, define the philosophy of science - a branch of philosophy that deals with the metaphysical, epistemological, and normative issues that arise in the study of scientific practice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51036 PHILOSOPHY OF COGNITIVE SCIENCE 3 Credit Hours
(Slashed with PHIL 41036) In this course, students focus on issues at the interface of philosophy, psychology, neuroscience, linguistics, and artificial intelligence. These fields, which comprise contemporary cognitive science, present the philosopher with an opportunity to clarify foundational concepts, such as computation, innateness, language, perception, and learning. Ultimately, the goal of the course is to understand various proposals about how neural computation could amount to human intelligence and consciousness.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with MATH 51038)(Slashed with CS 41038, MATH 41038 and PHIL 41038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51040 EPISTEMOLOGY 3 Credit Hours
(Slashed with PHIL 41040) What is the difference between merely believing something to be the case and knowing it to be the case? In this course students examine various theories designed to answer this question and evaluate their respective strengths and weaknesses. The course will cover the Gettier problem that questions the traditional definition of knowledge as justified true belief, the debate between foundationalism and coherentism, the debate between internalism and externalism about justification, naturalized epistemology, and virtue epistemology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51042 METAPHYSICS 3 Credit Hours
(Slashed with PHIL 41042) Covers several topics in contemporary analytic metaphysics. Topics may include existence, identity, things and their persistence over time, the nature of modalities and possible worlds, and the relationship between material parts and wholes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51048 METAETHICS 3 Credit Hours
(Slashed with PHIL 41048) Metaethics is the study of the nature and justification of moral judgments, as distinct from ethics, which aims to articulate principles, criteria, or alternative approaches to understanding and achieving goodness and right action. Metaethics examines the concepts, ontology, psychology, and modes of justification employed within ethics. This course will explore recent developments about such questions as: which, if any, ethical judgments can be true or false; whether we can know true ethical statements; and to what kinds of properties, if any, ethical judgments and beliefs refer.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51052 PHILOSOPHY OF LANGUAGE 3 Credit Hours
(Slashed with PHIL 41052) Critical examination of nature and function of language especially in relation to mental function and development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51055 PHENOMENOLOGY 3 Credit Hours
(Slashed with PHIL 41055) In-depth study of the phenomenological movement in twentieth-century philosophy, from its origin in the thought of Edmund Husserl and his contemporaries, through such canonical thinkers as Martin Heidegger and Maurice Merleau-Ponty, to various contemporary developments. Substantial time is also devoted to considering applications of phenomenology to various disciplines in the humanities, social sciences, and arts. This is in keeping with the overall focus in this seminar on phenomenology not only as a philosophical school, but also as a methodology with broad and diverse applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51060 PRAGMATISM 3 Credit Hours
(Slashed with PHIL 41060) As America' s distinctive "home-grown" philosophy, pragmatism embodies the values of action, problem-solving, and consensus-building within a pluralistic society. The core of this course examines the seminal works of the classical American pragmatists: Peirce, James, and Dewey. Special attention will be devoted to a phenomenology of experience that undercuts the dualisms of mind and matter, subject and object, self and world.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51076 CONTINENTAL PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 41076) Investigation of some figure, issue or theme in continental philosophy from Descartes to present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51080 PHILOSOPHY AND ART: 1890 - PRESENT 3 Credit Hours
(Slashed with PHIL 41080) Exploring, with emphasis, on the modern age philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51491 SEMINAR IN ASIAN PHILOSOPHY 3 Credit Hours
(Repeatable for credit) (Slashed with PHIL 41491) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in Asian philosophy.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PHIL 51591 SEMINAR IN THE HISTORY OF PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 41591)(Repeatable for credit) Intensive primary source reading and critical appreciation of the significant works of one or more philosophical figures or issues from various traditions in philosophy.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PHIL 59995 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) When content varies, may be repeated for credit.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 59996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit with department approval)
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHIL 60191 GRADUATE SEMINAR 3 Credit Hours
(Repeatable for credit) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 61000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour
(Cross-listed with BMS 61000 and BMS 71000) Introduction into professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PHIL 61056 HERMENEUTICS 3 Credit Hours
Critical appreciation of the theories and practices of interpretation comprehended according to certain classical, current and emergent philosophic styles and traditions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 69101 PROSEMINAR: PROFESSIONAL AND PEDAGOGICAL TRAINING 3 Credit Hours
(Repeatable for credit) Students participate in the preparation and planning of the annual Graduate Student Conference, receive professional training and mentoring, and work closely with faculty to write and revise a philosophical essay suitable for use as a writing sample or conference presentation.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

PHIL 69199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and departmental special approval before registration.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHIL 69299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: PHIL 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHIL 69995 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) Selected topics in Philosophy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 69998 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Physical Activity, Wellness and Sport (PWS)

PWS 10020 DEVELOPMENT AND CONDITIONING 1 Credit Hour
Introduction to the principles of physical training. Practical application of these principles through a variety of activities.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10035 LIFETIME FITNESS 2 Credit Hours
The role of exercise in enhancing physical fitness. Lectures on principles of planning scientifically sound exercise programs. Laboratory experiences in personal fitness evaluation and exercise routines.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PWS 10036 FITNESS WALKING 1 Credit Hour
Introduction to Fitness Walking as a lifetime physical activity through personal cardiovascular fitness.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10095 SELECTED TOPICS: PHYSICAL EDUCATION ACTIVITIES 1-2 Credit Hours
(Repeatable for credit) Selected and varied topics of relevance in physical education basic instruction.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2-4 lab
Grade Mode: Standard Letter

PWS 10101 SCUBA DIVING 1 Credit Hour
Designed to make students a comfortable and qualified diver, capable of conducting recreational dives to shallow depths and deep water diving. Could lead to certification as a PADI open water diver.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10125 BASKETBALL 1 Credit Hour
The course is designed to give students a basic understanding of how to play the game of basketball through active participation. Students are expected to learn and be able to demonstrate the skills and strategies of the game through various practice and competitive activities. Material is presented through class instruction and handouts.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10204 BADMINTON 1 Credit Hour
Instruction in the skills and techniques of the game of Badminton
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10304 BOWLING 1 Credit Hour
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10305 BILLIARDS 1 Credit Hour
Skills, technique, strategy, game knowledge as introduction to billiards (pool), a 'cue' sport; rules and gaming for variations of pocket billiards; practice and class tournament play.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10306 JOGGING 1 Credit Hour
This course is designed to enhance cardiovascular fitness through jogging and or running. The course will focus on a mixture of training techniques including light jogging and interval type workouts. This course will also include supplemental exercises such as core strengthening and stretching. Students will perform basic calculations to determine target heart rate zones. Students will establish fitness goals and select appropriate activities to attain these goals. Pre and Post assessments will allow students to monitor progress towards their fitness goals.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10403 BEGINNING BALLROOM DANCE 1 Credit Hour
This course is designed for the beginning social dance to learn how to partner dance in a recreational setting. Dances include: Foxtrot, Rhumba, Meringue, Swing, Cha Cha.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10413 LATIN SOCIAL DANCE 1 Credit Hour
Presentation of the DVIDA bronze syllabus for Latin dances. Introduction of Latin rhythm dances, which will include the Merengue, Salsa, Rumba, Cha Cha and Samba. Includes proper technique, rhythm of the dance and approximately 10-15 figures for each dance.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10505 VOLLEYBALL 1 Credit Hour
Introduction to the sport of Volleyball through instruction in individual and team skills, team building and game play.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10604 BEGINNING GOLF 1 Credit Hour
The student will have the opportunity to develop basic golf skills through lectures, demonstration, drills and game play. The student will also gain knowledge of golf etiquette and other areas as related to the game of golf.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10904 TENNIS 1 Credit Hour
You will be exposed to and utilize basic tennis skills, terms, and principles, with an emphasis on skill development and integration of playing tactics and strategies during match play.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10906 RACQUETBALL 1 Credit Hour
Instruction in the skills, techniques and strategies of the game of Racquetball.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11126 FLAG FOOTBALL I 1 Credit Hour
This course is designed to give the students an opportunity to review and practice the basic fundamental skills relative to the game of flag football. Students are expected to be able to demonstrate the skills and strategies of the game through various practice and competitive activities.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11325 ADVANCED ICE HOCKEY 1 Credit Hour
To build on the basic hockey fundamentals, leading to advanced team play and game situations providing deeper insight into the game of hockey.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11327 KETTLEBELLS 1 Credit Hour
A vigorous introductory physical conditioning course primarily utilizing kettlebells. Exercises designed to enhance strength, power, endurance, and agility will be emphasized. Introductory approach to kettlebell techniques and kettlebell program development.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11425 VARSITY SPORTS 1 Credit Hour
(Repeatable for credit) Designed to focus on advanced varsity sport skill development, to promote techniques and strategies to perform at a high level of competition, and to foster ethical values, sportsmanship and responsible citizenship through practices and game competitions. Designed for the student athlete who meets NCAA eligibility requirements.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Satisfactory/Unsatisfactory

PWS 11426 VARSITY SPORT TRAINING AND CONDITIONING 1 Credit Hour
(Repeatable for credit) Designed for sport specific training both in and out of season to produce highly skilled student-athletes through structured programs for immediate performance enhancement and injury prevention and to endure practice and competition. Designed for the student athlete who meets NCAA eligibility requirements.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Satisfactory/Unsatisfactory

PWS 11435 SPORTS CONDITIONING 1 Credit Hour
This course will cover methods and techniques that are used to safely and effectively enhance an individual's athletic performance by increasing speed, strength, endurance, agility and flexibility. This course will cover a variety of training principles, training methods, basic components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle. This course is part theory and part practical application.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11604 BEGINNING KARATE 1 Credit Hour
A karate course designed for students with little or no martial arts or karate experience. This course will involve the training in the philosophy, principles, and techniques of Karate for self-defense, improvement of overall fitness and to give a greater understanding of the art and themselves.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11633 JU JITSU 1 Credit Hour
Presentation of Ju-Jitsu and Judo techniques for use in self-defense. Includes falling, throwing, grappling, bars, locks, strikes, kicks and defends against various weapons.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11634 SELF-DEFENSE 1 Credit Hour
A self-defense course designed for students with little or no martial arts or self-defense background. Physical, verbal, and mental defensive techniques, tactics, and strategies are taught to prepare students for any potentially dangerous situation they may encounter. The course will also improve the student's physical and mental fitness.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11663 BEGINNING YOGA 1 Credit Hour
Overview course in yoga, an integrated study of health. Involves the investigation and practice of breathing techniques (pranayama), hatha yoga postures (asana), meditation and relaxation. Also unifies the mind, body and spirit.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11664 PILATES 1 Credit Hour
Pilates is a form of fitness endeavors which unite the rhythmic performances and strength with the conditioning principles of the movement sciences.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11665 ZUMBA 1 Credit Hour
Zumba® is a fitness program that fuses hypnotic Latin rhythms and easy-to-follow moves and mixes body sculpting movements with dance steps.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11666 BEGINNING SPINNING 1 Credit Hour
The Spinning program is based on two major components: health and fitness. Each of these parts is also related to the concept of mind (the health component) and body (the fitness component), and the overall program design is intended as more than a fitness regimen. It encourages Spinning participants to shift and broaden their perspectives by exposing them to new ideas and a variety of training styles and Energy Zones.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11667 BOOT CAMP I 1 Credit Hour
This course is designed to acquaint students with an exercise program using calisthenics, resistance training, running, and agility drills. The course will focus on increasing physical fitness, including cardiovascular efficiency, muscular strength, and flexibility. Students will also learn the fundamental principles of physical fitness and their effect on lifelong health and fitness.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11673 INTERMEDIATE YOGA 1 Credit Hour
Expansion of Yoga skills, building on knowledge base from Beginning Yoga. Students will explore movement components of anatomy, as related to yoga asanas and understand relationship of asanas to anatomy, creating movement and space.
Prerequisite: PWS 11663.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11674 INTERMEDIATE PILATES 1 Credit Hour
Intermediate Pilates reviews the fundamentals of the beginner class while moving on to the more challenging exercises and repertoire. Students will review and practice correct technique and form for strength, breathing, fluidity, and endurance for mat Pilates. This class is designed for experienced Pilates students.
Prerequisite: PWS 11664.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11675 ZUMBA TONING 1 Credit Hour
Zumba® is a fitness program that fuses hypnotic Latin and International rhythms with easy-to-follow moves and body sculpting movements to create a dynamic workout. The Zumba Toning® program uses hand held weights to enhance rhythm and tone the muscles, specifically arms, thighs, and abdomen. Zumba Toning is an ideal way to sculpt the body.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11684 BALL PILATES 1 Credit Hour
Ball Pilates, "Pilates on an Exercise Ball" is very similar to other Pilates classes in that it incorporates many mat and equipment-based exercises. Adding the ball increases your mind-body awareness, core strength, balance and flexibility as you perform the work on an unstable base of support.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11904 BEGINNING ICE SKATING 1 Credit Hour
This course will give the beginner an introduction to the basic skills of ice skating with a focus on safe technique and the development of the basic skills of ice skating. Students will learn the fundamentals of balance, movement and safety on the ice.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12204 BEGINNING BROOMBALL 1 Credit Hour
Broomball is a recreational ice game played in an ice rink. Skills, tactics and plays are similar to those used in ice hockey.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12324 WEIGHT TRAINING 1 Credit Hour
This course is designed to teach students the correct technique in lifting with machines, free weights and body weight in a safe and effective manner. Students learn scientific methods (macrocycle, mesocycle and microcycle) on how to correctly design a resistance training workout based around desired goals of strength, endurance, hypertrophy, power and speed. Students will be tested on the application of their knowledge by having to design an 8 week training planning with specific training principles used.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12325 WOMEN'S WEIGHT TRAINING 1 Credit Hour
A basic course in the use of equipment in an average weight room and its application towards the development of strength and power.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12424 EXERCISE AND WEIGHT CONTROL 1 Credit Hour
The course aims to educate the student on differing types of exercise styles currently available to assist in living a healthy lifestyle. The student will also learn ideal dietary requirements required to compliment the variety of exercise components. This course will teach how to combine this information to create a nutritional and training plan to meet current goals for this course. Students will pre-test and post-test physical fitness components in order to successfully asses how a change in a nutrition and exercise can contribute to living a healthy lifestyle.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12425 NAUTILUS EXERCISES 1 Credit Hour
This course will cover the proper use and weight training equipment. This course will also cover the instruction of proper weight training techniques for a safe and effective weight training program. Functional training and isolation training will be discussed and practiced, so that the student will benefit from both types of strength training exercises. The course is part theory and part practical application.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13003 DANCE EXERCISE 1 Credit Hour
Dance Exercise is a form of fitness, which unites the rhythmic performance, and energy of dance with the conditioning principles of the movement sciences. In addition to the physical exercise, students will also learn about the basic methodology behind an exercise class, a general history of dance exercise, and its relevance in the fitness industry today. Students should leave the course with knowledge of basic exercise and nutrition principles that can be applied in their personal exercise programs.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13008 INTERMEDIATE VOLLEYBALL 1 Credit Hour
Introduction of advanced playing systems and strategies in volleyball while emphasizing individual skill performance.
Prerequisite: PWS 10505.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13010 JUDO-JUJITSU 1 Credit Hour
Presentation of Jujitsu-Judo techniques for use in self-defense. This will include falling skills, throwing, grappling, come-along, as well as strikes and kicks and defenses against various weapons.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13012 BACKPACKING 2 Credit Hours
Trip planning and leadership, equipment and clothing selection, safety considerations, search and rescue, environmental ethics, map and compass, weekend backpacking trip. Student must supply equipment.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PWS 13016 CYCLING 1 Credit Hour
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13022 CAMPING 2 Credit Hours
Basic camping skills including: toolcraft, ropecraft, fire building, cooking, campsite management, equipment selection, safety considerations, environmental ethics, and map and compass for use on weekend trip. Students must supply own clothing and shelter.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PWS 13028 INTRODUCTION TO KAYAKING 1 Credit Hour
Basic paddling skills learned in a pool environment and then experienced in open lakes and whitewater situations.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13030 BEGINNING ROCK CLIMBING 1 Credit Hour
Basic instruction in safe rope handling, knots, conditioning, climbing technique, belaying, anchor systems and rappelling.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13036 INDOOR CYCLING 1 Credit Hour
Covers the knowledge and skills that are needed for understanding and participating in an indoor cycling program. Also covers the components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13040 CARDIO KICKBOXING 1 Credit Hour
Covers the knowledge and skills that are needed to understand and participate in Cardio Kickboxing. Also covers the components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle. This course is part theory and part practical application.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13041 HARDCORE ABS 1 Credit Hour
Examines methods and techniques that improve abdominal and back strength, mechanics and the ability to dynamically stabilize. The student masters total body movement that occur through all three planes of motion. The exercises are performed on a stable and unstable surface for greater balance challenge. Equipment is used to increase resistance to intensify the work load. Improves core strength and activities of daily living.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13093 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT 1-2 Credit Hours
(Repeatable for credit) Workshop in exercise, leisure and sport activities topics vary.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

Physical Education and Sport Performance (PESP)

PESP 15010 INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT 3 Credit Hours
Development of a knowledge base on the roles, foundations, contextual and social issues, and career opportunities as they relate to physical education, physical activity and sport. Experimentation with various fitness tests and assessments that lead to the development of personal fitness plans.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 15011 DEVELOPMENT AND ANALYSIS OF INVASION GAMES 3 Credit Hours
Development, analysis and assessment of game performance skills used in invasion games.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 15015 DEVELOPMENT AND ANALYSIS OF NET GAMES 3 Credit Hours
Development and analysis of game performance skills in net games. Emphasis on problem solving strategies and skill execution related to game performance and on effective pedagogy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 15016 DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES 3 Credit Hours
Development and analysis of game performance skills used in target games and field-run-score games.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 15018 DEVELOPMENT OF SWIMMING AND AQUATIC SKILLS 1 Credit Hour
Development and analysis of basic aquatic skills, swimming strokes, starts and turns, diving skills, physical fitness principles, aquatic safety and basic rescue techniques.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PESP 15020 FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE 3 Credit Hours
Designed to provide teachers and activity leaders with knowledge, skills, and dispositions necessary to teach developmentally appropriate progressions for fundamental movement skills, dance and gymnastics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 25025 TEACHING IN PHYSICAL EDUCATION 3 Credit Hours
This course aims to introduce students to teaching and management strategies linked to student learning, the design of instructional materials and techniques, and strategies for working with diverse learners in various contexts. This course will study, discuss, and apply effective teaching skills. Thirty field hours at each elementary and secondary level requires a BCII and FBI background check report.
Prerequisite: PESP 15010.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 25026 OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION 3 Credit Hours
An overview of outdoor pursuits and adventure education is provided for students preparing to serve students/clients in physically active, outdoor and adventure contexts. Includes a required service learning component, which involves the design and delivery of quality outdoor education programs and/or curricula to children within the local community.
Prerequisite: School Health Education majors with Health and Physical Education Licensure concentration and Physical Education and Sport Performance majors.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

PESP 25033 LIFESPAN MOTOR DEVELOPMENT 3 Credit Hours
Introduction to motor development across the life span. Special emphasis on description of motor development changes and factors influencing change.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 25056 ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT 3 Credit Hours
This course is designed to provide students with an understanding of the principles and applications of assessment methods in the fields of physical education and sport. Emphasis is placed on the selection, construction, administration, analysis and interpretation of appropriate assessments in a variety of settings, with particular emphasis on using assessments to evaluate learner progress relative to established standards in PE and sport. Throughout the course appropriate technological applications are used to facilitate data collection, management and analysis.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 35010 PSYCHOLOGICAL DIMENSIONS OF MOTOR BEHAVIOR (WIC) 3 Credit Hours
Psychological factors in exercise, physical activity and sport emphasizing motor control learning and performance. Laboratory included.
Prerequisite: EXSC 35068 or PESP 25056; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PESP 35020 FITNESS EDUCATION 3 Credit Hours
This course is designed to prepare teachers, coaches, and physical activity specialists for an interdisciplinary approach to fitness education. Specific emphasis will be placed on enhancing students' content knowledge of fitness and physical activity within a classroom setting as well as applying pedagogical principles of class management, instructional strategies, feedback and assessment in in practical settings to enhance students' ability to teach and coach fitness content within a variety of physical education, sport and physical activity contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 35040 COACHING FOOTBALL 2 Credit Hours
Techniques of coaching football, including film analysis and offensive and defensive skills and systems.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35041 COACHING SOCCER 2 Credit Hours
Coaching soccer, including analysis of skills strategy and administrative responsibilities.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35042 COACHING VOLLEYBALL 2 Credit Hours
Coaching volleyball, including analysis of skills, offensive and defensive strategy and administrative responsibilities.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35044 COACHING BASKETBALL 2 Credit Hours
Philosophy, fundamentals, strategy, administrative responsibilities and conditioning.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35048 COACHING BASEBALL AND SOFTBALL 2 Credit Hours
Coaching techniques in softball and baseball, including analysis of basic skills, position play and offensive and defensive strategies.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35049 COACHING TRACK AND FIELD 2 Credit Hours
Coaching techniques relative to track and field events. Principles of organization for track and field meets.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35084 MOTOR SKILL ANALYSIS 3 Credit Hours
Designed to assist teachers, coaches, and physical activity specialists in the analysis of motor skills. Students study the applications of performance and biomechanical principles to enhance skill and tactical performance in physical activity settings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 45015 PSYCHOLOGY OF COACHING 3 Credit Hours
(Slashed with CI 55015) Psychological factors affecting athletic performance, with particular attention to practice factors, personality, motivation and problem athletes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 45020 CONTEMPORARY ATHLETIC COACHING 3 Credit Hours
(Slashed with CI 55020) A focus on the philosophy, skills strategies and tactics of coaching within contemporary society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 45037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours
This course aims to promote an academic and practical approach to teaching physical education for students with disabilities. A minimum of 30 field hours is required for this course.
Prerequisite: Junior standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours
(Slashed with CI 55051) Approaches to teaching in elementary school physical education. Focus on establishing an environment for learning, planning standards-based lessons, instructional effectiveness, and assessment of student learning. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.
Corequisite: PESP 45053.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours
(Slashed with CI 55053) Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours)
Prerequisite: PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.
Corequisite: PESP 45051.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours
(Slashed with CI 55058) Approaches to teaching in secondary school physical education. Focus on management of the learning environment, planning for learning outcomes in three domains, instructional effectiveness, and sequential curriculum development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.
Corequisite: PESP 45059.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours
(Slashed with CI 55059) Introduction and development of content, standards-based curriculum models, management, and organizational skills related to sports and activities utilized in secondary school physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.
Corequisite: PESP 45058.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45092 INTERNSHIP IN PHYSICAL EDUCATION (ELR) 2-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) Supervised full-time experience providing knowledge of overall operations for an agency or sports program in an approved setting. Forty-five (45) work hours per credit hour.
Prerequisite: Senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PESP 45096 INDIVIDUAL INVESTIGATION IN PHYSICAL EDUCATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours)Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-6 other
Grade Mode: Standard Letter-IP

PESP 45692 INTERNSHIP IN ATHLETIC COACHING (ELR) 2-4 Credit Hours
(Repeatable for a maximum of 4 credit hours) Supervised experience in organized sport focused upon the duties of a coach; can involve one or more level (youth, school, college, professional) and sport. 45 contact hours per credit.
Prerequisite: PESP 45020; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PESP 49525 INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION 3 Credit Hours
(Slashed with PESP 59525) Seminar focused on development of those skills and knowledge which enable future teachers to engage in effective reflective, collaborative and ethical professional practice.
Prerequisite: School Health Education or Physical Education and Sport Performance majors; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 49592 STUDENT TEACHING IN PHYSICAL EDUCATION (ELR) 12 Credit Hours
This experience provides for a full semester of student teaching in a school setting that is taken with PESP 49525 Inquiry into Professional Practice in Physical Education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching will take place.
Prerequisite: School Health Education or Physical Education and Sport Performance majors; and admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 45 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PESP 55051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours
(Slashed with PESP 45051) Approaches to teaching in elementary school physical education. Focus on establishing an environment for learning, planning standards-based lessons, instructional effectiveness, and assessment of student learning. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: Physical Education concentration in the Secondary Education major; and graduate standing; and special approval.
Corequisite: PESP 55053.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 55053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours
(Slashed with PESP 45053) Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: Graduate standing; and special approval.
Corequisite: PESP 55051.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 55058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours
(Slashed with PESP 45058) Approaches to teaching in secondary physical education. Focus on management of the learning environment, planning for learning outcomes in three domains, instructional effectiveness, and sequential curriculum development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: Graduate standing; and special approval.
Corequisite: PESP 55059.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 55059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours
(Slashed with PESP 45059) Introduction and development of content, standards-based curriculum models, management and organizational skills related to sports and activities utilized in secondary school physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: Graduate standing; and special approval.
Corequisite: PESP 55058.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 59525 INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION 3 Credit Hours
(Slashed with PESP 49525) Seminar focused on developing those skills and knowledge that enable future teachers to engage in effective reflective, collaborative and ethical professional practice.
Prerequisite: Physical Education concentration in the Secondary Education major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Physical Therapist Assisting Technology (PTST)

PTST 10000 INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT 1 Credit Hour
Introduces the physical therapy profession; current and historical physical therapist practice; and the role, responsibilities and expectations of a physical therapist assistant.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PTST 10001 PRINCIPLES OF PATIENT CARE IN PHYSICAL THERAPY 4 Credit Hours
Students develop an understanding of the underlying principles of basic physical therapy procedures and the applications of these concepts in the physical therapy setting.
Prerequisite: Admission to technical study; and physical therapist assistant technology major.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

PTST 10003 CLINICAL CONDITIONS I 2 Credit Hours
Introduction to the pathology, treatment and clinical implications for medical conditions commonly encountered in physical therapy practice: Integumentary, cardiovascular, pulmonary, endocrine and digestive systems.
Prerequisite: Admission to technical study; and physical therapist assistant technology major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 10004 PHYSICAL THERAPY PROCEDURES I 4 Credit Hours
Theory and techniques of treatment procedures with emphasis on modalities. Maintenance of equipment and supplies.
Prerequisite: Admission to technical study; and physical therapist assistant technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

PTST 10010 TRANSITIONS IN PHYSICAL THERAPY 8 Credit Hours
Validates prior learning in the course content of PTST 10004, PTST 20003, PTST 20004; builds knowledge necessary for the physical therapist assistant technology (PTST) degree; and prepares students who have previously completed an approved allied health program for advanced placement in PTST. Students successfully competing this course with a grade of C (2.000) or better will receive six (6) transfer credit hours.
Prerequisite: Physical therapist assistant technology transition concentration; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 7 lecture, 3 lab
Grade Mode: Standard Letter

PTST 10011 INTRODUCTION TO THERAPEUTIC EXERCISE 1 Credit Hour
Course is for the student to develop an understanding of the basic concepts associated with therapeutic exercise principles and applications. Includes application of basic exercise programs for frequently encountered physical therapy diagnoses.
Prerequisite: Physical Therapist Assisting Technology major and admission to technical study; and department approval.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

PTST 11001 PERSONAL TRAINING, WELLNESS AND EXERCISE 3 Credit Hours
(Repeatable for credit) Theoretical and practical competencies required of a qualified personal trainer, including exercise, nutrition and wellness concepts that are immediately applicable to improve personal lifestyle decisions. Receive hands-on experience in training, instruction and professional skill development. Upon completion, students are qualified to sit for the personal trainer certification exam administered by the National Council on Strength and Fitness (NCSF). Pre/corequisites: None Corequisites: None
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

PTST 11005 PHYSICAL THERAPY PRACTICE I 2 Credit Hours
Learn the essentials of safe, ethical, legal, and value-based behaviors in patient care. Acquire documentation skills and prepare for clinical education.
Prerequisite: Admission to technical study; and physical therapist assistant technology major.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 11092 CLINICAL EDUCATION I (ELR) 1 Credit Hour
Observes and participate in providing selected physical therapy services under the direct supervision of a licensed PT or PTA.
Prerequisite: Admission to technical study; and PTST 11005; and physical therapist assistant technology major.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PTST 20000 CLINICAL COMPETENCIES FOR THE FOREIGN TRAINED PHYSICAL THERAPIST 3 Credit Hours
This is an elective PTST course specifically designed to meet the competency needs related to prescriptive content from the Foreign Credentialing Commission on Physical Therapy. The course utilizes varied instructional activities and outcomes assessments to meet specific student outcomes. Topics include, selected interventions & patient related data collection skills and the role and relationship of the physical therapist assistant (PTA) and the physical therapist (PT). The course uses varied instructional activities and outcomes assessments, as well as skill acquisition in a hands-on laboratory format in the provision of physical therapist services for the entry-level physical therapist assistant (PTA) and physical therapist competency content for the foreign trained PT. The course content and student outcomes are specifically designed to meet the credentialing standards of the Foreign Credentialing Commission on Physical Therapy (FCCPT).
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab, 0 other
Grade Mode: Standard Letter

PTST 20001 THERAPEUTIC COMMUNICATIONS IN PHYSICAL THERAPY 1 Credit Hour
Focus on understanding human behavior. Emotional needs of individuals. Therapeutic use of self. Development of communication skills and interpersonal relationships.
Prerequisite: Admission to technical study; and physical therapist assistant technology major.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

PTST 20003 CLINICAL CONDITIONS II 2 Credit Hours
Study of medical conditions commonly encountered in PTST 11005. The focus is on orthopedic, psychiatric, and geriatric illnesses, disorders and diseases. Pharmacology interventions are also covered.
Prerequisite: Admission to technical study; and physical therapist assistant technology.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 20004 PHYSICAL THERAPY PROCEDURES II 4 Credit Hours
Basic principles, therapeutic effects and techniques of therapeutic exercises used in Physical Therapy practice.
Prerequisite: AHS 22002 and AHS 22003; and admission to technical study; and admission to the physical therapist assistant technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

PTST 20006 PHYSICAL REHABILITATION PROCEDURES 4 Credit Hours
Course is designed to introduce the student to the neurologically based interventions seen in the practice of physical therapy. The Physical Therapy Assistant student will develop an understanding of treatments in the neurologically involved patient, the patient with spinal cord injury, the amputation patient, the pediatric patient, traumatic brain injured patient, as well as the complex geriatric patient.
Prerequisite: PTST 20004 and BSCI 11020; and admission to technical study; and physical therapist assistant technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

PTST 20008 CLINICAL CONDITIONS III 2 Credit Hours
Discussion of neurological pathologies across the lifespan, treatment of the medically complex patient and functional testing for the geriatric patient.
Prerequisite: Admission to technical study; and physical therapist assistant technology major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 20011 PHYSICAL THERAPIST ASSISTANT MANAGEMENT OF THE MEDICALLY COMPLEX PATIENT 2 Credit Hours
Course serves to review and synthesize primary diagnoses and co-morbidities and the effects they have on the medically complex patient. The course will also present the pharmacology associated with various body systems and the side effects/adverse effects that might impact patient outcomes. The course is designed to review body system pathologies and incorporate that information into Physical Therapy Assistant clinical decision making when treating a complex patient. Course culminates with PEAT exam (practice NPTE-PTA board exam).
Prerequisite: Physical Therapist Assisting Technology major and admission to technical study; and department approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 20020 CLINICAL COMPETENCIES FOR THE FOREIGN TRAINED PHYSICAL THERAPIST 3 Credit Hours
Course is with prescriptive content from the Foreign Credentialing Commission on Physical Therapy. The course utilizes varied instructional activities and outcomes assessments to meet specific student outcomes. Topics include, selected interventions & patient related data collection skills and the role and relationship of the physical therapist assistant and the physical therapist. The course uses varied instructional activities and outcomes assessments, as well as skill acquisition in a hands-on laboratory format in the provision of physical therapist services for the entry-level physical therapist assistant and physical therapist competency content for the foreign trained Physical Therapist. The course content and student outcomes are specifically designed to meet the credentialing standards of the Foreign Credentialing Commission on Physical Therapy.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

PTST 21095 SPECIAL TOPICS IN PHYSICAL THERAPIST ASSISTANT TECHNOLOGY 1-4 Credit Hours
(Repeatable maximum 6 times for credit) Special topics in Physical Therapist Assistant Technology; topics announced when scheduled.
Prerequisite: Physical therapist assistant technology major.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

PTST 21096 INDIVIDUAL INVESTIGATION IN PHYSICAL THERAPIST ASSISTANT TECHNOLOGY 1-3 Credit Hours
(Repeatable maximum 6 times for credit) Individual study in physical therapist assistant technology and related fields; open to PTST majors.
Prerequisite: Physical therapist assistant technology major.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PTST 22005 PHYSICAL THERAPY PRACTICE II 2 Credit Hours
Understand the current professional, legal and regulatory implications in the provision of Physical Therapy services.
Prerequisite: PTST 11005; and admission to technical study; and physical therapist assistant technology major.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 22007 PHYSICAL THERAPY PRACTICE III 2 Credit Hours
Preparation for licensure, employment and career development as a physical therapist assistant.
Prerequisite: Admission to technical study; and physical therapist assistant technology major.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 22010 TRANSITIONS TO PHYSICAL THERAPY PRACTICE 2 Credit Hours
Athletic Trainers transitioning to physical therapy practice prepare for employment and licensure. Explores reimbursement regulations, evidence based practice, and various topics related to health care systems, and discuss current topics in the practice of physical therapy.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 22092 CLINICAL EDUCATION PRACTICUM II (ELR) 2 Credit Hours
Provide physical therapy services under the direct supervision of a licensed Physical Therapist or Physical Therapist Assistant.
Prerequisite: Admission to technical study; and PTST 11005 with a minimum C grade; and PTST 11092 with a grade of satisfactory.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PTST 22392 ATHLETIC TRAINING PLUS PHYSICAL THERAPIST ASSISTANT CLINICAL EDUCATION PRACTICUM (ELR) 4 Credit Hours
Provide physical therapy services of an entry-level physical therapist assistant, under the supervision of a licensed PT or PTA.
Prerequisite: PTST 11005 with a minimum C grade; and PTST 11092; and special approval.
Corequisite: PTST 22010.
Schedule Type: Practical Experience
Contact Hours: 480 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PTST 23092 CLINICAL EDUCATION PRACTICUM III (ELR) 2 Credit Hours
Provide physical therapy services of an entry-level physical therapist assistant, under the supervision of a licensed Physical Therapist or Physical Therapist Assitant.
Prerequisite: PTST 11005 and PTST 22092; and admission to technical study; and physical therapist assistant technology major.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

Physics (PHY)

PHY 11030 SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS) 3 Credit Hours
Description of major revolutionary physical concepts and their implications for understanding the physical universe. Not counted toward requirements for physics major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

PHY 12000 INTRODUCTORY PHYSICS SEMINAR (ELR) 1 Credit Hour
To provide a nurturing course for new physics majors, ideally to be taken in their first semester as majors. The course includes a journal club component, informational talks by industrial physicists and training in a select group of essential skills and tools for future work in the physics program.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PHY 12111 PHYSICS FOR HEALTH TECHNOLOGIES 3 Credit Hours
Basic physics applied to health technologies: measurement techniques, force and motion of solids and fluids, energy, heat wave phenomena, electricity. Students taking this course should be in a health technologies major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 12201 TECHNICAL PHYSICS I (KBS) (KLAB) 3 Credit Hours
Introduction to principles of physics: mechanics.
Prerequisite: MATH 11010.
Pre/corequisite: MATH 11022.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

PHY 12202 TECHNICAL PHYSICS II (KBS) (KLAB) 4 Credit Hours
Introduction to principles of physics, including fluids, thermodynamics, electricity and magnetism.
Prerequisite: PHY 12201.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

PHY 13001 GENERAL COLLEGE PHYSICS I (KBS) 4 Credit Hours
Principles of mechanics, heat and sound.
Prerequisite: Minimum C grade in MATH 11022 or in MATH 12011; or pre/corequisites MATH 12002 or MATH 12012 or MATH 12021.
Corequisite: PHY 13021.
Schedule Type: Lecture, Recitation
Contact Hours: 3 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

PHY 13002 GENERAL COLLEGE PHYSICS II (KBS) 4 Credit Hours
Principles of electricity and magnetism, optics and modern physics. Three hours lecture and one hour recitation weekly.
Prerequisite: PHY 13001 or PHY 23101.
Corequisite: PHY 13022.
Schedule Type: Lecture, Recitation
Contact Hours: 3 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

PHY 13012 COLLEGE PHYSICS II (KBS) 2 Credit Hours
Principles of classical physics, primarily electricity and magnetism.
Prerequisite: PHY 13001 or PHY 23101.
Schedule Type: Lecture, Recitation
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) 1 Credit Hour
Introductory lab to accompany PHY 13001.
Corequisite: PHY 13001.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences, TAG Natural Science Lab

PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) 1 Credit Hour
Introductory lab to accompany PHY 13002 or PHY 13012.
Corequisite: PHY 13002 or PHY 13012.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences, TAG Natural Science Lab

PHY 20095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced when scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 20096 INDIVIDUAL INVESTIGATION IN PHYSICS 1-6 Credit Hours
(Repeatable for credit) Individual projects in physics.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP

PHY 21040 PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS) 3 Credit Hours
Descriptive introduction to physics underlying selected forms of art and entertainment. Examples are drawn from music, visual arts and communications media. Not counted toward requirements for physics major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

PHY 21041 PHYSICS IN ENTERTAINMENT AND THE ARTS LABORATORY (KBS) (KLAB) 1 Credit Hour
Laboratory component of PHY 21040, two hours weekly.
Pre/corequisite: PHY 21040.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

PHY 21430 FRONTIERS IN ASTRONOMY (KBS) 3 Credit Hours
Modern description of astrophysical observations, the results of these observations and the physical principles based on them. Not counted toward requirements for physics major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

PHY 21431 FRONTIERS IN ASTRONOMY LABORATORY (KBS) (KLAB) 1 Credit Hour
Laboratory component of PHY 21430.
Pre/corequisite: PHY 21430.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

PHY 22564 INTRODUCTION TO MATERIALS PHYSICS 3 Credit Hours
Survey of mechanical and electronic properties of materials with application in science and technology. Metals, semiconductors, ceramics, polymers and liquid crystals, and other special materials will be addressed.
Prerequisite: PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) 5 Credit Hours
Principles of mechanics, heat and sound at calculus level.
Pre/corequisite: MATH 12002.
Schedule Type: Laboratory, Lecture
Contact Hours: 4 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB) 5 Credit Hours
Principles of electricity, magnetism, light and modern physics at calculus level.
Prerequisite: PHY 13001 or PHY 23101.
Pre/corequisite: MATH 12003.
Schedule Type: Laboratory, Lecture
Contact Hours: 4 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

PHY 30020 INTERMEDIATE PHYSICS LABORATORY (WIC) 2 Credit Hours
Experiments in classical and modern physics are selected to accompany and supplement junior-level physics courses.
Pre/corequisite: PHY 36001.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PHY 30095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced when scheduled.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 32511 ELECTRONICS 4 Credit Hours
"Hands-on" course to give the student a working knowledge of analog electronics and of AC and DC circuits typically used by the scientist.
Prerequisite: MATH 12002 and; PHY 13002 or PHY 23102.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

PHY 34000 COSMOLOGY 3 Credit Hours
This course will provide a quantitative introduction to modern cosmology, from the Big Bang to the formation of the first stars. Subjects include the evolution of the geometry and temperature of the universe its composition and select aspects of general relativity.
Prerequisite: PHY 36001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 35101 CLASSICAL MECHANICS 4 Credit Hours
Modern description of mechanics including both Lagrangian and Hamilton formulations, with applications to central force, motion, coupled oscillations, rigid body motion and motion in non-inertial reference frames.
Prerequisite: PHY 23102.
Pre/corequisite: MATH 32051.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 36001 INTRODUCTORY MODERN PHYSICS 3 Credit Hours
Special theory of relativity, Rutherford-Bohr model of atom, quantization of light, matter waves, Schroedinger equation, hydrogen atom, electron spin, multi-electron atoms.
Prerequisite: MATH 12003 and PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 36002 APPLICATIONS OF MODERN PHYSICS 3 Credit Hours
Survey of applications of twentieth century physics. Topics include molecular bonding, conducting and insulating solids, degenerate matter, quantum condensates, subatomic and sub-nuclear particle physics, cosmology.
Prerequisite: PHY 36001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 40020 ADVANCED PHYSICS LABORATORY (WIC) 2 Credit Hours
(Slashed with PHY 50020) Advanced experiments in classical and modern physics are selected to accompany and supplement senior-level physics courses.
Prerequisite: PHY 30020.
Pre/corequisite: 6 credit hours of 40000-level Physics (PHY) courses.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PHY 40060 PHYSICAL LITERATURE 1-3 Credit Hours
Study of current or topical literature.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 40092 INTERNSHIP IN PHYSICS (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised capstone experience in physics at a national laboratory, a research university in industry or at a local research site. No more than 3 credit hours may be applied toward the major electives for physics majors.
Prerequisite: Permission.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PHY 40095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced when scheduled.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 40096 INDIVIDUAL INVESTIGATION (ELR) 1-3 Credit Hours
(Slashed with PHY 50096)(Repeatable for credit) Individual projects for physics majors and minors.
Prerequisite: PHY 23102; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PHY 40099 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours
(Repeatable for credit) Thesis for departmental, general or university honors must be 1-10 hours with continuous registration throughout the senior year beginning in the summer prior to the senior year. Students taking this course must consult with their department and the Honors College and receive approval prior to the first semester of the senior year.
Prerequisite: Honors senior standing; and special approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 1-10 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PHY 40195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with PHY 50195) Topic announced when scheduled.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 41010 BIOPHOTONICS 3 Credit Hours
(Slashed with PHY 51010) (Cross-listed with BSCI 41110 and BSCI 51110 and CHEM 41010 and CHEM 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

PHY 44600 INTRODUCTION TO BIOLOGICAL PHYSICS 3 Credit Hours
Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics.
Prerequisite: PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 44802 ASTROPHYSICS 3 Credit Hours
(Slashed with PHY 54802) Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), nonoptical astronomies and description of various cosmological theories.
Prerequisite: MATH 12003.
Pre/corequisite: PHY 13002 or PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 45201 ELECTROMAGNETIC THEORY 4 Credit Hours
Properties of electric and magnetic fields developed by vector methods. Treatment on static fields in vacuum and matter. Theory of classical electromagnetic fields with emphasis on dynamic fields.
Prerequisite: MATH 32052 and PHY 23102.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 45301 THERMAL PHYSICS 3 Credit Hours
(Slashed with PHY 55301) An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering.
Prerequisite: PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 45401 MATHEMATICAL METHODS IN PHYSICS 4 Credit Hours
Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations.
Prerequisite: MATH 32052.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 45403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES 3 Credit Hours
(Slashed with PHY 55403) Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques.
Prerequisite: MATH 12003 and PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 45501 ELECTROMAGNETIC WAVES AND MODERN OPTICS 3 Credit Hours
(Slashed with PHY 55501) Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light devices and spectroscopic techniques based on modern optics.
Prerequisite: PHY 23102; and MATH 22005 or MATH 32051 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 46101 QUANTUM MECHANICS 4 Credit Hours
Systematic introduction to the principles and solution techniques of quantum mechanics, including the Schroedinger equation in one and three dimensions. Topics include: angular momentum formalism, introductory Dirac notation and vector space formalism, intrinsic spin, identical particle systems and perturbation theory.
Prerequisite: PHY 36001.
Pre/corequisite: MATH 32052.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 46301 INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS 4 Credit Hours
(Slashed with PHY 56301) Introduction to nuclear and particle physics including particle detectors and accelerators, experimental techniques, nuclear fission and fusion, nuclear reactors, medical applications and connections to astrophysics and cosmology.
Prerequisite: PHY 36001.
Pre/corequisite: MATH 32051.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 46401 INTRODUCTION TO SOLID STATE PHYSICS 3 Credit Hours
(Slashed with PHY 56401) Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research.
Prerequisite: PHY 36001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 50020 ADVANCED PHYSICS LABORATORY 2 Credit Hours
(Slashed with PHY 40020) Advanced experiments in classical and modern physics are selected to accompany and supplement graduate-level physics courses.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

PHY 50093 VARIABLE TITLE WORKSHOP IN PHYSICS 1-6 Credit Hours
(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of physics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PHY 50095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Topic announced when scheduled.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 50096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Slashed with PHY 40096)(Repeatable for credit) Individual projects for physics graduate students.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

PHY 50195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with PHY 40195) Topic announced when scheduled.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 51010 BIOPHOTONICS 3 Credit Hours
(Slashed with PHY 41010) (Cross-listed with BSCI 41110 and BSCI 51110 and CHEM 41010 and CHEM 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

PHY 54600 INTRODUCTION TO BIOLOGICAL PHYSICS 3 Credit Hours
Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 54802 ASTROPHYSICS 3 Credit Hours
(Slashed with PHY 44802) Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), nonoptical astronomies and description of various cosmological theories.
Prerequisite: MATH 12003; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 55201 ELECTROMAGNETIC THEORY 4 Credit Hours
Properties of electric and magnetic fields developed by vector methods. Treatment of static fields in vacuum and matter. Theory of classical electromagnetic fields with emphasis on dynamic fields.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 55301 THERMAL PHYSICS 3 Credit Hours
(Slashed with PHY 45301) An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering.
Prerequisite: PHY 36001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 55401 MATHEMATICAL METHODS IN PHYSICS 4 Credit Hours
Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations.
Prerequisite: MATH 32052; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 55403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES 3 Credit Hours
(Slashed with PHY 45403) Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques.
Prerequisite: MATH 12003 and PHY 23102; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 55501 ELECTROMAGNETIC WAVES AND MODERN OPTICS 3 Credit Hours
(Slashed with PHY 45501) Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light devices and spectroscopic techniques based on modern optics.
Prerequisite: PHY 55201; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 56101 QUANTUM MECHANICS 4 Credit Hours
Systematic introduction to the principles and solution techniques of quantum mechanics, including the Schroedinger equation in one and three dimensions. Topics include: angular momentum formalism, introductory Dirac notation and vector space formalism, intrinsic spin, identical particle systems, and perturbation theory.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 56301 INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS 4 Credit Hours
(Slashed with PHY 46301) Introduction to nuclear and particle physics including particle detectors and accelerators, experimental techniques, nuclear fission and fusion, nuclear reactors, medical applications and connections to astrophysics and cosmology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 56401 INTRODUCTION TO SOLID STATE PHYSICS 3 Credit Hours
(Slashed with PHY 46401) Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research.
Prerequisite: PHY 36002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 60091 PHYSICS SEMINAR 1 Credit Hour
(Repeatable for credit)Discussion of current literature or of original research in physics. Participation by students, faculty and guests.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 60093 VARIABLE TITLE WORKSHOP IN PHYSICS 1-6 Credit Hours
(Repeatable for credit)Workshops individually designed to provide instruction and training in specific areas of physics.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

PHY 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation. Credits earned may be applied toward meeting degree requirements if department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

PHY 60199 THESIS I 2-6 Credit Hours
Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval of advisor.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 60295 ADVANCED TOPICS 1-3 Credit Hours
(Repeatable for credit) Selected special topics of current research interest.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

PHY 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: PHY 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 64101 ADVANCED PROBLEM SOLVING IN PHYSICS 3 Credit Hours
(Slashed with PHY 74101) The course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized.
Prerequisite: PHY 65101 or PHY 65203 or PHY 66161 or PHY 65301; or graduate standing; and departmental instructor approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 65101 CLASSICAL MECHANICS 3 Credit Hours
Lagrange's equations, variational principles, two-body central force problem and rigid body motion. Hamilton's equations, canonical transformations, Hamilton-Jacobi theory and small oscillations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 65203 CLASSICAL ELECTRODYNAMICS I 3 Credit Hours
Introduction to electrostatics, boundary-value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 65204 CLASSICAL ELECTRODYNAMICS II 3 Credit Hours
Plane electromagnetic waves, simple radiating systems, scattering, special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung.
Prerequisite: PHY 65203; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 65301 STATISTICAL MECHANICS I 4 Credit Hours
An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 66161 QUANTUM MECHANICS I 3 Credit Hours
Fundamental concepts of non-relativistic quantum mechanics. Solution of simple one dimensional problems. Abstract Hilbert-space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 66162 QUANTUM MECHANICS II 3 Credit Hours
Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single particle wave equations.
Prerequisite: PHY 66161; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 66201 PARTICLE PHYSICS 3 Credit Hours
Discussion of particle detectors, invariance principles and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of field theory, the Standard Model and selected topics of current interest.
Prerequisite: PHY 66162; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 66401 SOLID STATE PHYSICS I 3 Credit Hours
Crystalline state, with emphasis on wave propagation, zone and band theory, phonons. Applications to electrical and thermal conductivities, specific heats, optical, dielectric and magnetic properties.
Prerequisite: PHY 56101 or PHY 66161; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 66403 ADVANCED CONDENSED MATTER PHYSICS 3 Credit Hours
(Slashed with PHY 76403) Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems and the experimental methods that probe them.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 68401 LIQUID CRYSTAL PHYSICS 3 Credit Hours
The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications.
Prerequisite: Graduate standing in physics or chemical physics.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 70095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Topic announced when scheduled.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 74101 ADVANCED PROBLEM SOLVING IN PHYSICS 3 Credit Hours
The course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized.
Prerequisite: PHY 65101 or PHY 65203 or PHY 66161 or PHY 65301; or doctoral standing; and departmental instructor approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 75101 CLASSICAL MECHANICS 3 Credit Hours
Lagrange's equations, variational principles, two-body central force problems, rigid body motion, Hamilton's equations, canonical transformations, Hamilton-Jacobi theory, small oscillations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 75203 CLASSICAL ELECTRODYNAMICS I 3 Credit Hours
Introduction to electrostatics, boundary value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 75204 CLASSICAL ELECTRODYNAMICS II 3 Credit Hours
Plane electromagnetic waves, simple radiating systems, scattering special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung.
Prerequisite: PHY 65203; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 75301 STATISTICAL MECHANICS I 4 Credit Hours
An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 76161 QUANTUM MECHANICS I 3 Credit Hours
Fundamental concepts of non-relativistic quantum mechanics. Solution of simple one dimensional problems. Abstract Hilbert space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76162 QUANTUM MECHANICS II 3 Credit Hours
Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single particle wave equations.
Prerequisite: PHY 66161; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76163 QUANTUM MECHANICS III 3 Credit Hours
Second quantization and field theory formalism are developed for the many-particle system. Topics include the electron gas and nuclear matter.
Prerequisite: PHY 66162; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76201 PARTICLE PHYSICS 3 Credit Hours
Discussion of particle detectors, invariance principles and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of a field theory, the Standard Model and selected topics of current interest.
Prerequisite: PHY 66162 or 76162; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76303 APPLICATIONS OF QUANTUM CHROMODYNAMICS 3 Credit Hours
Introduces the key attributes and techniques of Quantum Chromodynamics, which is the relativistic quantum field theory of the strong interaction. Topics treated include the properties, structure and interactions of strongly interacting sub-nuclear particles (hadrons) and the physics of hadronic and nuclear matter at finite temperature and density, as applicable to modern nuclear particle physics research.
Prerequisite: PHY 76163.
Corequisite: PHY 66201 or PHY 76201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76401 SOLID STATE PHYSICS I 3 Credit Hours
Crystalline state, with emphasis on wave propagation zone and band theory phonons. Applications to electrical and thermal conductivities specific heats optical dielectric and magnetic properties.
Prerequisite: PHY 56101 or PHY 66161 or 76161; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76403 ADVANCED CONDENSED MATTER PHYSICS 3 Credit Hours
(Slashed with PHY 66403) Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems, and the experimental methods that probe them.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 78401 LIQUID CRYSTAL PHYSICS 3 Credit Hours
The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications.
Prerequisite: Doctoral standing in physics or chemical physics.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 80091 PHYSICS SEMINAR 1 Credit Hour
(Repeatable for credit) Discussion of current literature or of original research in physics. Participation by students, faculty and guests.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 80097 PHYSICS COLLOQUIUM 1 Credit Hour
(Repeatable for credit)Presentation by invited speakers of research and other topics on graduate level followed by discussion period. Regular attendance of all physics majors expected. Three or more meetings each semester as arranged.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 80098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy exams. Credit earned may be applied toward the degree if the department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required; the first of which will be the semester in which dissertation work is begun, and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: PHY 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Podiatric Biomechanics and Orthopedics (ORT)

ORT 80131 BIOMECHANICS I 3 Credit Hours
Biomechanics is a comprehensive course, which stresses normal gait and foot function. Abnormalities in gait or foot mechanics are related to foot pathology.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Podiatric Medicine (PMD)

PMD 80113 MEDICAL ETHICS 1 Credit Hour
The focus of the medical ethics curriculum is to provide a foundation in ethical analysis, augment knowledge of contemporary bioethics issues, and offer experience applying ethical reasoning to clinical cases. The goal of this course is to promote discussion of the ethical responsibilities of a doctor to their patients.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PMD 80114 PRINCIPLES OF MEDICAL RESEARCH 1 Credit Hour
It is important for a podiatric physician to have developed the ability to read and interpret the medical literature. This requires a fundamental understanding of biostatistics, epidemiology, and research design. This course provides a framework for the development of an evidence-based methodology to patient care.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PMD 80117 PODIATRY, PROFESSIONALISM AND SOCIETY I 1 Credit Hour
The subject matter is relevant but nontraditional in nature with respect to classic medical education. Some of the topics covered are sometimes considered “soft topics” covering a wide range of subjects that podiatric medical students encounter in their personal, academic and professional careers. Students will participate in discussions and projects on ethics, socio-behavior and issues, and practice related topics such as professionalism, communication, empathy, and time and financial management. Other topics related to the National Board Examinations, personal health, and team-based healthcare system will also be covered. Ultimately, students will develop a more unique level understanding and appreciation of the above referenced themes as they advance their learning. An emphasis on academic and personal wellness in the first year of podiatric medical school is the focus of this course.
Prerequisite: Students must be enrolled in the Podiatric Medicine program in order to register for this course.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

PMD 80132 LOWER EXTREMITY ASSESSMENT AND DIAGNOSIS 2 Credit Hours
A comprehensive approach to physical examination, which combines the patient's symptoms and the physical signs to arrive at a diagnosis of disease. It is accomplished by training students in the methods of history taking and physical examination. The course focuses on lower extremity examination. The traditional processes of inspection, palpation, percussion and auscultation are emphasized.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PMD 80133 INTRODUCTION MEDICAL IMAGING 1 Credit Hour
Podiatric physicians are fully licensed to order, perform and interpret radiologic studies of the foot and ankle. As operators of ionizing x-ray equipment, all practitioners must undergo basic training in x-ray physics, image control and quality assurance, safety and patient positioning. These four building blocks comprise the foundation of this course in fundamentals.
Prerequisite: Student must be enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PMD 80222 PODIATRIC MEDICAL SKILLS 1 Credit Hour
Podiatric Medical Skills is a practical course, which includes strapping and padding, instrument dexterity, local anesthetic injection, nail avulsion technique, blood glucose finger stick, handheld Doppler exam, fitting for diabetic shoes, arthrometric examination and casting for orthoses. Students are taught the indications and proper application of adhesive bandages and splints for the prevention of injury, control of foot function and treatment of injuries to the foot and lower extremity. Padding is the treatment of foot pathology by redistribution of weight, stress and friction. Students are taught how to relieve acute and chronic pathologies of the foot through the use of various padding materials, or prefabricated pads. Students also gain an understanding of the theory of pad placement. Students are taught the proper techniques for performing toenail avulsions, blood glucose finger sticks, and using the handheld Doppler. Students are taught the proper methods of fitting for diabetic shoes, performing a foot and ankle arthrometric examination and casting methods for foot orthoses.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Satisfactory/Unsatisfactory

PMD 80226 INTRODUCTION TO PODIATRIC MEDICINE AND SURGERY 4 Credit Hours
This is a core course designed to present the 2nd year student with the full spectrum of pathology, which they encounter during their clinical training, podiatric medical boards and eventually in podiatric practice. Topics include infectious disease, wound care, rheumatology, vascular medicine, surgery and the diabetic foot. Students are instructed in the evaluation of foot and ankle pathology including signs, symptoms and differential diagnosis. Laboratory and radiographic evaluation are discussed when appropriate. Students are instructed in the treatment alternatives available in each case.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 4.8 lecture
Grade Mode: Standard Letter

PMD 80317 PODIATRY, PROFESSIONALISM AND SOCIETY III 1 Credit Hour
The subject matter is functionally relevant but nontraditional in nature with respect to classic medical education. Topics cover a wide range of subjects that podiatric medical students encounter in their academic and professional careers. Students will participate in discussions and projects on ethics, socio-behavior, and practice related topics such as professionalism, communication, and time and financial management. Other topics related to personal health and the changing healthcare system will also be covered. Ultimately, students will develop a more unique level understanding and appreciation of the above referenced themes as they advance their learning. The content will be relevant to the third year podiatric medical school student.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

PMD 80318 PEDIATRICS 2 Credit Hours
Pediatrics is a comprehensive course, which introduces general pediatric pathologic processes, pediatric H&P, and emphasizes the incidence, etiology, pathomechanics, evaluation and treatment of common lower extremity pathology in children.
Prerequisite: This course has prerequisites of successful completion of all 1st and 2nd year curriculum in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PMD 80323 PODIATRIC PUBLIC HEALTH AND LAW 2 Credit Hours
Public health and law comprises efforts to improve the health of communities. Course provides an overview for public health administration and practice, including organization, law, legislative relations, financing, workforce issues, leadership and surveillance. Additionally, this course covers the underlying theories behind healthcare law and regulations as well as the specific provisions affecting the organization, delivery and payment of primary health services.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 2.4 lecture
Grade Mode: Standard Letter

PMD 80396 INDEPENDENT STUDY 5 Credit Hours
Independent study in Podiatric Medicine.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Individual Investigation
Contact Hours: 5 other
Grade Mode: Satisfactory/Unsatisfactory

PMD 80417 PODIATRY, PROFESSIONALISM AND SOCIETY IV 4 Credit Hours
The subject matter is functionally relevant but nontraditional in nature with respect to classic medical education. Topics cover a wide range of subjects that podiatric medical students encounter in their academic and professional careers. Students will practice self-directed learning while preparing for graduation. There will be discussions and projects in various areas such as ethics, social behavior, as well as practice related topics such as professionalism, communication, business, and courtroom law/malpractice. Other topics related to personal health and the changing healthcare system will also be covered. Ultimately, students will develop a more unique level understanding and appreciation of the above referenced themes as they finalize their DPM degree program. The content will be relevant to the fourth year podiatric medical school student.
Prerequisite: Students must be enrolled in the Podiatric Medicine program in order to register for this course.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Satisfactory/Unsatisfactory

PMD 80495 ST PODIATRIC GEN MED 1-4 Credit Hours
(Repeatable for maximum 8 credit hours) The special topics course is to sample new offerings on various topics.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

Podiatric Surgery (SUR)

SUR 80227 PODIATRIC MEDICINE AND SURGERY I 4 Credit Hours
A comprehensive working knowledge of common deformities of the foot is essential to the podiatric physician in providing comprehensive care of patients. This course provides the 2nd year podiatric medical student with the knowledge of surgical management of patients and their foot deformities. The course includes material on the etiology, clinical and radiographic evaluation, indications and contraindications, as well as postoperative considerations and care. This course discusses the surgical management of deformities of the foot, ankle and lower leg and include surgical complications. In addition, several lectures are dedicated to special topics, such as AO/ASIF Fixation, Bio-materials, Arthroscopic surgical procedures and reconstructive foot and ankle procedures. Skills labs are held in the surgical skills laboratory. Emphasis is placed on current and prevailing concepts and techniques employed by the podiatric physician.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4.8 lecture, .56 lab
Grade Mode: Standard Letter

SUR 80313 PODIATRIC SURGERY 2 Credit Hours
A comprehensive working knowledge of common deformities of the foot is essential to the podiatric physician in providing comprehensive care of patients. This course provides the 3rd year podiatric medical student with the knowledge of surgical management of patients and their foot deformities. The course includes material on the etiology, clinical and radiographic evaluation, indications and contraindications, as well as postoperative considerations and care. These courses discuss the surgical management of deformities of the foot, ankle and lower leg and include surgical complications. In addition, several lectures are dedicated to special topics, such as AO/ASIF Fixation, Bio-materials, Arthroscopic surgical procedures and reconstructive foot and ankle procedures. Weekly skills workshops will be held in the surgical skills laboratory. Emphasis is placed on current and prevailing concepts and techniques employed by the podiatric physician.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SUR 80323 PODIATRIC SURGERY 2 Credit Hours
A comprehensive working knowledge of common deformities of the foot is essential to the podiatric physician in providing comprehensive care of patients. This course provides the 3rd year podiatric medical student with the knowledge of surgical management of patients and their foot deformities. The course includes material on the etiology, clinical and radiographic evaluation, indications and contraindications, as well as postoperative considerations and care. These courses discuss the surgical management of deformities of the foot, ankle and lower leg and include surgical complications. In addition, several lectures are dedicated to special topics, such as AO/ASIF Fixation, Bio-materials, Arthroscopic surgical procedures and reconstructive foot and ankle procedures. Weekly skills workshops will be held in the surgical skills laboratory. Emphasis is placed on current and prevailing concepts and techniques employed by the podiatric physician.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SUR 80325 TRAUMATOLOGY 3 Credit Hours
Course provides third year podiatric medical students with a broad overview and appreciation of the major trauma areas of the foot, including the midfoot, rearfoot, ankle and lower leg. A strong effort is made to correlate the mechanical, surgical, physiologic and anatomic principles of surgery with emphasis on their implications and applications in major reconstructive surgery and the management of the trauma patient who presents with foot and or ankle trauma. Surgical procedures for the management of specific trauma situations are discussed, as well as indications, contraindications and post-operative management. An overall view of the trauma patient as viewed in a level I trauma center is included as this is a major responsibility for the podiatric physician treating the trauma patient.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 3.6 lecture
Grade Mode: Standard Letter

Political Science (POL)

POL 10004 COMPARATIVE POLITICS (DIVG) (KSS) 3 Credit Hours
Introduces the different institutional structures of governance (e.g.,parliamentary versus presidential systems) in a range of different states for different types of regimes (e.g. democratic and authoritarian) and at the international level.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

POL 10100 AMERICAN POLITICS (DIVD) (KSS) 3 Credit Hours
Covers the basic elements of politics at the national level in the United States, including structures, processes, behaviors, institutions and policies. Special emphasis is given to conflicting theories of power as they apply to different economic, sexual and racial groups.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

POL 10200 INTRODUCTION TO THE AMERICAN LEGAL PROFESSION 3 Credit Hours
This course initially explores the historical and contemporary understanding of American law and political jurisprudence, or legal theory. Thereafter, the key role attorneys play in the legal system and within American society is analyzed by studying the legal profession's origins, education, ethics, professional licensing and legal and/or alternative legal employment opportunities. A special emphasis of the course is learning to develop a professional identity that values commitments to providing public service, acting as active or responsible citizens in the polity and public affairs and working to achieve impartially derived peaceful and civil resolutions to contentious disputes in an adversarial system of justice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 10300 PUBLIC POLICY 3 Credit Hours
Course provides a survey of basic public policy concepts and processes within an historical context. Course incorporates applied work to bridge conceptual understanding and empirical cases.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 10500 WORLD POLITICS (DIVG) (KSS) 3 Credit Hours
A practical, theoretical introduction to a study of systematic patterns in international relations. Includes analysis of rules, instruments, processes, decision- making factors, conflict resolution.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

POL 30000 MAY 4 1970 AND ITS AFTERMATH 3 Credit Hours
(Cross-listed with PACS 30000) Study of the events of the 1960s in the United States leading up to May 4, 1970, when the Ohio National Guard killed and wounded Kent State University students protesting the war in Vietnam and Cambodia. Topics are considered within their cultural, historical, social and political contexts. Course also examines the aftermath of May 4, including the controversy over constructing the Gym Annex on the site of the shootings, the legal trials, the role of commemorations and memorials and the politics of remembering May 4, 1970.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30001 RESEARCH METHODS (ELR) 3 Credit Hours
Course is designed to bring students to a basic level of statistical literacy by introducing the fundamentals of research design and interpretation, as well as basic descriptive and inferential statistics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 30002 POLITICAL THOUGHT 3 Credit Hours
Courses introduces students to basic methodological and substantive concerns in the tradition of western political thought.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30003 POLITICAL ECONOMY 3 Credit Hours
Introduction to the fundamental questions surrounding the relationship between the public and private sectors, considered from the perspective of the state and its major political institutions. Of central concern is the growing internationalization of capital and its consequences for both domestic and international politics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30100 AMERICAN POLITICAL THEORY 3 Credit Hours
Major political ideas and controversies associated with the development of American political thought. Nonmajors should contact the Department of Political Science for a prerequisite override.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30110 THE CONGRESS 3 Credit Hours
This course covers elections, the powers of Congress and its organization, leadership of the two houses, role of the parties, relationships with the chief executive and executive agencies, as well as recent reforms enacted by the House and Senate.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30120 PRESIDENCY AND EXECUTIVE BUREAUCRACY 3 Credit Hours
Intensive study of the American presidency, focusing on personality, organization of the office, use and misuse of power and policy making.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30130 THE JUDICIAL PROCESS 3 Credit Hours
Intensive study of the judicial process in the United States and the relationship between the judicial system and larger American social system.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30301 INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours
Introduction to the theory and practice of governmental administration, including structure, organization, direction and control of governmental departments and agencies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30350 ENVIRONMENTAL CONFLICT RESOLUTION 3 Credit Hours
(Cross-listed with PACS 35050) Examines environmental conflicts, such as land use disputes and resource conflicts, and conflict resolution theory and processes applicable to environmental disputes, especially biodiversity conservation and natural resource conflicts. Students learn about environmental conflict analysis, multistakeholder environmental dispute resolution, dialogue processes, conflict-sensitivity, and environmental cooperation among others. Case studies of environmental conflicts and participatory simulations are used.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30430 OHIO POLITICS 3 Credit Hours
Addresses the history, structure, and current practices of politics and public policy in Ohio.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30450 URBAN POLITICS AND POLICY 3 Credit Hours
Discusses local governance in the context of metropolitan change, and covers issues such as governing capacity, local democracy, individual choice and economic and racial inequality. Examines the formal and informal arrangements that shape change and public policy. Non-majors should contact the Department of Political Science for a prerequisite override.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30460 STATE POLITICS AND POLICY 3 Credit Hours
Introduces the theoretical and legal infrastructures of federalism and intergovernmental relations, with a particular emphasis on political and policy operations at the state level. Political behavior and institutions, as well as the specifics of selected, substantive policy areas are emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30500 INTERNATIONAL RELATIONS THEORY 3 Credit Hours
Course introduces competing theoretical approaches to the study of international relations; an examination of the historical developments followed by an examination of current issues in world politics.
Prerequisite: POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30520 EUROPEAN POLITICS (DIVG) 3 Credit Hours
Examines major European national political systems (British, French, German, Russian and Scandinavian) relations between the European states, the institutions of the European Union and prospects and problems of European integration.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30530 ASIAN POLITICS (DIVG) 3 Credit Hours
Introduction to the political, economic and social dynamics of Asia, from Siberia in the north to the Indian Ocean in the south, and from the Pacific Ocean in the east to the Hindu Kush in the west. The first part of the course examines Asia's modern political history (particularly the past half-century). The second part of the course focuses on contemporary issues, including the roles of the United States and sub-regional actors, such as the Association of Southeast Asian Nations (ASEAN).
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30540 AFRICAN POLITICS (DIVG) 3 Credit Hours
An analysis of major issues in African politics and international relations. The contemporary development of Africa will be analyzed in the global context of the historical forces of imperialism and colonialism.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30550 LATIN AMERICAN POLITICS (DIVG) 3 Credit Hours
Analysis of political culture/process in selected Latin American states, with particular emphasis on Mexico, Brazil, Argentina and Columbia.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30560 MIDDLE EAST POLITICS (DIVG) 3 Credit Hours
Introduces students to the theory and context of politics in the Middle East in a way that contests the often-simplistic stereotypes communicated through Western media and throughout Western culture, in order to encourage a more nuanced appreciation of the Middle East. Theoretical approaches utilized include modernization, dependency, structuralism and constructivism.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30570 PALESTINE AND ISRAEL (DIVG) 3 Credit Hours
(Cross-listed with INTS 30570) Course introduces students to academic approaches and theories that attempt to understand the situation in historic Palestine. The course is divided into four sections: (1) theories of settler colonialism and basic differences between Judaism, Zionism and Israeli society, as well as diversity within Palestinian society; (2) comparative studies of the establishment of the modern state of Israel, which Palestinians view in their collective experience as "the Catastrophe" or al-Nakba; (3) the occupation of East Jerusalem, the West Bank and Gaza, and how that system has changed over time; (4) pathways forward for Palestinians and Israelis.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30810 POLITICS OF THE GLOBAL ECONOMY 3 Credit Hours
Examines interaction between economics and politics in international relations. Topics include poverty and uneven economic development, political prerequisites for free trade, intra-western and north-south economic conflict and distributive justice.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30820 INTERNATIONAL ORGANIZATION AND LAW 3 Credit Hours
Course introduces the subject matter in historical and theoretical contexts, then devotes detailed attention to the full range of international organizations that exist today. A final section addresses the role of international law in world politics.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30840 NONGOVERNMENTAL ORGANIZATIONS 3 Credit Hours
Introduction to the diverse range of nongovernmental organizations that exist today. Course explores the varying roles on nongovernmental organizations in setting agendas, shaping legislation and implementing public policy reforms.
Prerequisite: POL 10004 or POL 10300 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 39592 GENEVA INTERNSHIP (ELR) 3 Credit Hours
(Repeatable for credit) Students perform intern duties as part of the semester in Geneva.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 40091 VARIABLE TOPIC SEMINAR 3 Credit Hours
(Slashed with POL 50091 and POL 70091) Variable topic seminar in political science.
Prerequisite: POL 10004 or POL 10500; and POL 10100 or POL 10300; and POL 30001; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40112 POLITICS AND THE MASS MEDIA 3 Credit Hours
Course examines the multiple roles played by the mass media in contemporary politics and analyzes the implications of those roles. Nonmajors should contact the Department of Political Science for a prerequisite override.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40116 PUBLIC OPINION AND POLITICAL BEHAVIOR 3 Credit Hours
Analysis of determinants of public opinion and political behavior. Study of how public makes up its mind and impact of public opinion on government policy.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40118 POLITICAL PARTIES AND INTEREST GROUPS 3 Credit Hours
An examination of the changing roles of political parties and interest groups in the American political system, including a comparison of their respective electoral activities.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40182 CONSTITUTIONAL LAW: GOVERNMENTAL STRUCTURES AND FUNCTIONS 3 Credit Hours
Nature and scope of constitutional government. Study of judicial review, separation of powers, federalism, commerce and taxation.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40183 CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD) 3 Credit Hours
Nature and scope of constitutional limitations. Study of first amendment, freedom of expression, freedom of religion, criminal rights, due process, equal protection.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

POL 40191 SEMINAR IN AMERICAN POLITICS (WIC) 3 Credit Hours
(Repeatable for credit) A required, writing-intensive seminar for juniors and seniors in the American Politics concentration. The focus of the seminar varies depending on content and instructor.
Prerequisite: POL 10004 or 10500; and POL 10100 or 10300; and POL 30001 and POL 30002 (or POL 30003); and political science major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

POL 40320 ETHICS AND PUBLIC POLICY 3 Credit Hours
The ethical obligations of public policy makers are examined in this course, within a series of applied cases. The goal is to empower students with the intellectual tools of critical analysis within diverse policy environments.
Prerequisite: POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40391 SEMINAR IN PUBLIC POLICY (WIC) 3 Credit Hours
(Repeatable for credit) A required, writing intensive seminar for juniors and seniors in the Public Policy concentration. The focus of the seminar varies depending on content and instructor.
Prerequisite: POL 10004 or POL 10500;and POL 10100 or 10300; and POL 30001 and POL 30002 (or POL 30003); and political science major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

POL 40440 U.S. ENVIRONMENTAL POLITICS AND POLICIES 3 Credit Hours
Course covers such topics as the history of the U.S. environmental movement; public opinion and environmental issues; environmental racism and classism; and environmental policy making and implementation.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40450 HEALTH CARE AND SOCIAL POLICY 3 Credit Hours
Addresses health care policy in the United States from both theoretical (political, economic as well as public policy) and substantive perspectives at the state, national and comparative-international levels. Further, the examination of health care policy takes place in the context of social welfare policy more broadly considered.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40470 WOMEN, POLITICS AND POLICY (DIVD) 3 Credit Hours
Examines origins, development and current record of century-old women's movement unique in U.S. annals; compares it with other contemporary social movements. Examines issues of women and public policy.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

POL 40530 POLITICS OF WAR 3 Credit Hours
Examines central questions concerning the justification, explanation characteristic features and consequences of war. Specific cases are examined such as World War II, the Chinese Revolution, Vietnam's civil war and potential nuclear war.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40540 POLITICS OF DEVELOPMENT (DIVG) 3 Credit Hours
Examines practice, record and theories of political development for less developed, developing and developed political systems. Includes extensive analysis of issues, problems through case studies.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 40560 HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG) 3 Credit Hours
(Cross-listed with INTS 40560) Examines the relationship between human rights and problems of the Third World in the civic, political, social and cultural arenas. Particular attention is placed on the struggle of women.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 40589 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) Faculty-led study abroad programs.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

POL 40591 SEMINAR IN INTERNATIONAL RELATIONS-COMPARATIVE POLITICS (WIC) 3 Credit Hours
(Repeatable for credit) A required, writing-intensive seminar for juniors or seniors in the International Relations-Comparative Politics concentration. The focus of the seminar varies depending on content and instructor. International Relations majors who have completed POL 10004, POL 10500 and 6 credit hours of courses in the International Relations-Comparative Politics concentration may request a prerequisite override from the Department of Political Science.
Prerequisite: POL 10004 or POL 10500; and POL 10100 or POL 10300; and POL 30002 or POL 30003; and political science major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

POL 40620 POLITICS OF SOCIAL MOVEMENTS (DIVD) 3 Credit Hours
Examines the role of social movements both in the United States and around the world. Focuses on labor, environmental, social justice and other initiatives in the push for political and economic democracy. North-South, public-private, labor-management and regional perspectives are emphasized.
Prerequisite: POL 10004 or POL 10100 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

POL 40840 COMPARATIVE FOREIGN POLICY 3 Credit Hours
Comparative analysis of foreign policy patterns and determinants on the basis of the examination of foreign policy of selected countries.
Prerequisite: POL 10004 or POL 10300 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40930 U.S. FOREIGN POLICY 3 Credit Hours
Examines policy objectives, patterns of decision-making and foreign policy actions, roles of interest groups, public opinion, congress, executive and external influences on policy.
Prerequisite: POL 10004 or POL 10100 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40992 INTERNSHIP (ELR) 1-9 Credit Hours
(Repeatable for credit) Allows academic credit for approved participation in a variety of political processes, or as an intern with governmental or private agencies dealing with public affairs.
Prerequisite: Minimum 2.000 overall GPA; and special approval.
Schedule Type: Field Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

POL 40993 VARIABLE TITLE WORKSHOP IN POLITICAL SCIENCE 1-6 Credit Hours
(Repeatable for credit) Workshop topic varies per course offering.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

POL 40995 SELECTED TOPICS IN POLITICAL SCIENCE 1-3 Credit Hours
(Repeatable for credit) Special course, not regularly offered. Subject varies depending on the emerging issue, staff availability and competencies.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

POL 40996 INDEPENDENT STUDY 1-3 Credit Hours
(Repeatable for credit) For students desiring research into subjects beyond level of completed course work, or on subjects for which no regular course is offered.
Prerequisite: Any two of the following courses: POL 10004, POL 10100, POL 10300, and POL 10500; minimum 2.750 overall GPA; and junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

POL 41990 COLUMBUS PROGRAM IN STATE ISSUES (ELR) 15 Credit Hours
(Repeatable for credit) Annual fall semester resident-study in Columbus. Students spend three days per week working at an internship and two days per week attending briefings and completing course studies.
Prerequisite: Minimum 2.500 overall GPA; and special approval.
Schedule Type: Lecture, Practical Experience, Seminar, Study Away
Contact Hours: 7 lecture, 24 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 42990 WASHINGTON PROGRAM IN NATIONAL ISSUES (ELR) 15 Credit Hours
(Repeatable for credit) Annual spring semester resident-study in Washington, D.C. Credit hours divided among three units: lecture and course work, on-site briefings seminar and internship.
Prerequisite: Minimum 2.750 overall GPA; and junior standing; and special approval.
Schedule Type: Lecture, Practical Experience, Seminar, Study Away
Contact Hours: 7 lecture, 24 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 43001 WICKED PROBLEMS: TACKLING GLOBAL ISSUES IN THE 21ST CENTURY 3 Credit Hours
(Cross-listed with ESCI 43001 and GEOG 43070) This course provides an overview and analysis of the United Nations Sustainable Development Goals (SDG), as well as strategies that can be used for tackling them. The SDGs address the most serious problems faced by humankind today. These include poverty, hunger, inequality, climate change, economic development and environmental sustainability. A key characteristic of the SDGs is that they are known as “wicked problems.” Wicked problems are complex issues that resist conventional approaches to problem solving, and for which existing solutions often create unintended consequences that only make the original problem worse. Emphasis is placed on problems of collective action, evidence-based public policies and interdisciplinary approaches to addressing global issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 43002 THE POLITICS OF INEQUALITY 3 Credit Hours
This course introduces students to national and transnational politics and policies that produce wealth, poverty and inequality. Along the way, it examines a range of sustainable development goals including, but not limited to, the elimination of poverty and hunger, access to quality education, decent work, reduced inequalities and responsible consumption and production. The course reviews different national or transnational case studies to assess different views and approaches to these goals. Consideration is given to them as a complex set of interconnected issues that involve education, occupation, well-being and the distribution of wealth in society. Additionally, the course examines political and policy issues that are barriers to reducing inequality.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 43003 GOOD GOVERNANCE AND SUSTAINABLE DEVELOPMENT 3 Credit Hours
This course focuses on the development of policies and institutions that are necessary for justice and good governance. It also introduces students to the system of international relations and growing body of international institutions that deliver and implement policies at the transnational level. Along the way, the course examines a range of United Nations Sustainable Development Goals (SDG). These include, but are not limited to, peace, justice, strong institutions and international partnerships. Students develop an understanding of the importance of effective political, civil and international institutions for establishing peace, prosperity and well-being.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 43499 CAPSTONE IN GLOBAL ISSUES (ELR) 1 Credit Hour
This course serves as the capstone to the certificate in Global Issues. Students integrate the concepts they have learned and relate them to their major field of study and/or professional endeavors.
Prerequisite: None.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 50091 VARIABLE TOPIC SEMINAR 3 Credit Hours
(Slashed with POL 40091 and POL 70091) Variable topic seminar in political science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 51191 SEMINAR: PROBLEMS IN AMERICAN GOVERNMENT 3 Credit Hours
(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate American government course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

POL 51391 SEMINAR: PROBLEMS IN PUBLIC POLICY 3 Credit Hours
(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate public policy course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

POL 51591 SEMINAR: PROBLEMS IN INTERNATIONAL RELATIONS/ COMPARATIVE GOVERNMENT 3 Credit Hours
(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate international/comparative government course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

POL 60002 SCOPE AND EPISTEMOLOGY 3 Credit Hours
(Slashed with POL 70002) Introduces students to the philosophy of science and scientific inquiry within the context of the social sciences. Course presents a broad survey of leading paradigms and debates within political science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60003 QUANTITATIVE METHODS I 3 Credit Hours
(Slashed with POL 70003) Provides a selective introduction to basic quantitative methods for the analysis of political and public policy data dealing with basic descriptive and inferential statistics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60004 QUANTITATIVE METHODS II 3 Credit Hours
(Slashed with POL 70004) Introduces students to multivariate quantitative techniques appropriate for the analysis of political and public policy data.
Prerequisite: POL 60003; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60010 QUALITATIVE RESEARCH METHODS 3 Credit Hours
(Slashed with POL 70010) Introduces the principles and methods of qualitative research, examining the place of qualitative research alongside discussions about positivist, interpretivist and critical approaches. A variety of qualitative research methods are introduced including social observation and ethnography, interviewing, discourse analysis, oral history, document analysis, historical analysis and case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60099 CAPSTONE SEMINAR 3 Credit Hours
Directed research to use completed coursework to identify ways in which scholarship speaks to application, e.g., in the non-profit, policy, consulting or programming world.
Prerequisite: Graduate standing.
Schedule Type: Master's Project, Research
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

POL 60101 STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 70101) Course provides a broad survey of the policy-making process in the U.S. government. Coverage includes formal government structures, as well as more informal networks of private groups that seek to influence public policy at the national level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60102 AMERICAN POLICY PROCESS 3 Credit Hours
(Slashed with POL 70102) Course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation implementation and evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60103 CONGRESS, THE PRESIDENCY AND THE COURTS 3 Credit Hours
(Slashed with POL 70103) Focuses on the three branches of the U.S. government, specifically Congress, the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60106 URBAN POLICY AND POLITICS 3 Credit Hours
(Slashed with POL 70106) Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policymaking.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60108 AMERICAN POLITICAL BEHAVIOR 3 Credit Hours
(Slashed with POL 70108) Explores scholarship on the behavior of non-elite political actors, including various forms of electoral participation, voting, psychological attachment, affect, cognition, perception, attitude and belief. Additional topics include ethnic, racial and gender politics; political participation; voting choice; political psychology; politics and networks; macro politics; and connecting individual-level and macro-level findings with democratic outcomes and citizen capacity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60191 SEMINAR IN AMERICAN POLITICS AND POLICY 3 Credit Hours
(Repeatable for credit)(Slashed with POL 70191) Seminar on current and important topics in American politics and policy. Subject matter varies depending on the emerging issue. Course may be repeated for credit toward a degree with departmental approval.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 60501 STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 70501) Course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60502 GLOBAL GOVERNANCE 3 Credit Hours
(Slashed with POL 70502) Course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process, including nation-states, intergovernmental organizations and nongovernmental organizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60503 FOREIGN POLICY ANALYSIS 3 Credit Hours
(Slashed with POL 70503) Course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis and policy domains.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60507 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours
(Cross-listed with PACS 60070)(Slashed with POL 70507) Throughout the past 30 years, many states and societies have negotiated complicated transitions from authoritarianism, widespread human rights violations and intractable civil conflict toward various degrees of justice, truth-telling, reconciliation and democracy. Some have done it well and some have not; policy certainly matters in this politically potent arena. For example, political memory and accountability may be swept under the public rug—doing so may, or may not, trip up an experiment in democracy. Alternatively, truth-telling and justice may, or may not, be a springboard for reconciliation, healing and citizen empowerment. In this course, we focus on the policies and mechanisms used to constructively confront impunity and come to terms with past horrors. We analyze various international institutions like war crimes tribunals and truth commissions and various local mechanisms like Rwanda's Gacaca courts. We also study the differing roles of reparations paid to victims for past injustices, amnesties granted to former government officials, immunity being traded for truth-telling about the past and the impacts of commemoration and memorialization.
Prerequisite: POL 60501; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60510 POLITICS OF DEVELOPMENT 3 Credit Hours
(Slashed with POL 70510) Course surveys the scholarship on political development, examining the ways in which the conceptualization of development has evolved over time, looking specifically at institutionalization, state failure and the role of civil society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60591 SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours
(Repeatable for credit)(Slashed with POL 70591) Seminar on current and important topics in transnational and comparative politics and policy. Subject matter varies depending on the emerging issue.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 60901 FOUNDATIONS OF CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Cross-listed with PACS 60000) (Slashed with POL 70901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60902 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours
(Cross-listed with PACS 60021)(Slashed with POL 70902) Examines power disparities and gender as sources of conflict in multiple arenas—including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphases is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60903 IDENTITY DRIVEN CONFLICTS 3 Credit Hours
(Cross-listed with PACS 60020)(Slashed with POL 70903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60904 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours
(Cross-listed with PACS 60022)(Slashed with POL 70904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60906 POLITICAL VIOLENCE 3 Credit Hours
(Slashed with POL 70906) Examines the dynamics, networks, interests and resource mobilization underlying state-sponsored political violence, focusing on "low-intensity conflict" and counter-insurgency, paramilitarism and genocide. Of special interest is the relationship of the state to various non-state actors, both perpetrators and victims, and the role of the international community in domestic-level violence.
Prerequisite: POL 60501 or POL 60901; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60907 TERRORISM AND HUMAN RIGHTS 3 Credit Hours
(Slashed with POL 70907) Examines how governments try to adhere to the rule of law in managing terrorist threats in a post 9-11 era, striking a balance between the competing demands of public safety, personal freedom and human rights. Topics include understanding terrorism as a problem for western governments, the rule of law and human rights.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60991 SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Repeatable for credit) (Slashed with POL 70991) Seminar on current and important topics in conflict analysis and management. Course may be repeated for credit toward a degree with departmental approval.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 61094 COLLEGE TEACHING IN POLITICAL SCIENCE 1 Credit Hour
(Repeatable for credit)(Slashed with POL 71094) Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum 4 credit hours applicable toward a degree with graduate studies committee approval.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

POL 61098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credit hours may be applied toward meeting degree requirements with department approval and when a letter grade is given.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

POL 61199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

POL 61299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: POL 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

POL 69091 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours
(Repeatable for credit) (Slashed with POL 79091) Focuses on select topics in quantitative methods, including limited and categorical dependent variables, hierarchical linear models, panel data, structural equation modeling and Q Methodology. More than one seminar may be offered.
Prerequisite: POL 60004; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 69095 SPECIAL TOPICS IN POLITICAL SCIENCE AND PUBLIC POLICY 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)(Slashed with POL 79095) Topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70002 SCOPE AND EPISTEMOLOGY 3 Credit Hours
(Slashed with POL 60002) Introduces students to the philosophy of science and scientific inquiry within the context of the social sciences. Course presents a broad survey of leading paradigms and debates within political science.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70003 QUANTITATIVE METHODS I 3 Credit Hours
(Slashed with POL 60003) Provides a selective introduction to basic quantitative methods for the analysis of political and public policy data dealing with basic descriptive and inferential statistics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70004 QUANTITATIVE METHODS II 3 Credit Hours
(Slashed with POL 60004) Introduces students to multivariate quantitative techniques appropriate for the analysis of political and public policy data.
Prerequisite: POL 70003; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70010 QUALITATIVE RESEARCH METHODS 3 Credit Hours
(Slashed with POL 60010) Introduces the principles and methods of qualitative research, examining the place of qualitative research alongside discussions about positivist, interpretivist and critical approaches. A variety of qualitative research methods are introduced including social observation and ethnography, interviewing, discourse analysis, oral history, document analysis, historical analysis and case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70091 VARIABLE TOPIC SEMINAR 3 Credit Hours
(Slashed with POL 40091 and 50091) Variable topic seminar in political science.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70101 STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 60101) Course provides a broad survey of the policy-making process in the U.S. government. Coverage includes formal government structures, as well as more informal networks of private groups that seek to influence public policy at the national level.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70102 AMERICAN POLICY PROCESS 3 Credit Hours
(Slashed with POL 60102) Course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation implementation and evaluation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70103 CONGRESS, THE PRESIDENCY AND THE COURTS 3 Credit Hours
(Slashed with POL 60103) Focuses on the three branches of the U.S. government, specifically Congress, the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70106 URBAN POLICY AND POLITICS 3 Credit Hours
(Slashed with POL 60106) Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policymaking.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70108 AMERICAN POLITICAL BEHAVIOR 3 Credit Hours
(Slashed with POL 60108) Explores scholarship on the behavior of non-elite political actors, including various forms of electoral participation, voting, psychological attachment, affect, cognition, perception, attitude and belief. Additional topics include ethnic, racial and gender politics; political participation; voting choice; political psychology; politics and networks; macro politics; and connecting individual-level and macro-level findings with democratic outcomes and citizen capacity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70191 SEMINAR IN AMERICAN POLITICS AND POLICY 3 Credit Hours
(Repeatable for credit) (Slashed with POL 60191) Seminar on current and important topics in American politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 70195 SPECIAL TOPICS IN PUBLIC ADMINISTRATION 3 Credit Hours
(Repeatable for maximum 12 credit hours)(Slashed with PADM 60195) Topic varies per course offerings.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70198 RESEARCH IN PUBLIC ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward a degree with department approval.
Prerequisite: Political science major; and doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

POL 70371 GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours
(Slashed with PADM 60371) Introductory course to the theory and study of public administration. Topics include evolution and characteristics of the modern nation state; core functions of public bureaucracy in any nation state; intergovernmental relations; formal and informal institutions and their role in policy; legal-regulatory processes; historical evolution of public administration as an academic field; and major paradigms in organization theory and internal organizational dynamics.
Prerequisite: Political science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70377 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT 3 Credit Hours
(Slashed with PADM 60377) Focuses on two aspects of public financial analysis: budgeting and financial management. The topics in budgeting are the basic purposes of budgets as mechanisms of resource control and allocation, and as legal documents; distinct budget formats and cross-walking of formats; budget preparation; legislative review; implementation and auditing. The topics in financial management are the mechanisms and tools for financing public operations, debt management, fund accounting, analyzing budgets and forecasting.
Prerequisite: Political Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70379 PROGRAM EVALUATION I 3 Credit Hours
(Slashed with PADM 60379) Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and specifically the techniques utilized under different evaluation formats.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70386 PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT 3 Credit Hours
(Slashed with PADM 60386) Management of information technology systems in the public sector. Specific focus on: planning and acquisition of hardware and software and networking technologies, organizational governance and implementation, information security and privacy, legal requirements, IT service delivery and emerging enterprise technologies.
Prerequisite: Political Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70387 ELECTRONIC GOVERNANCE 3 Credit Hours
(Slashed with PADM 60387) An introduction to electronic governance with an emphasis on public administration. Examines the implications of information and communication technology in public organizations with regard to democracy, civic engagement and performance improvement. Through case studies from the United States and across the world, students become familiar with the factors and issues surrounding the implementation of electronic governance on a comparative basis.
Prerequisite: Political Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70392 INTERNSHIP IN PUBLIC ADMINISTRATION 3 Credit Hours
(Repeatable for credit) Provides an opportunity for students to gain practical experience and be exposed to processes of public decision making and policy development.
Prerequisite: Political Science major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

POL 70470 PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE 3 Credit Hours
(Slashed with PADM 60470) Focus is on students internalizing their role in the public service as stewards of the public trust. Topics covered include dimensions of stewardship: maintaining personal honor, protecting the liberty and dignity of the citizen, dimensions of justice, anti-corruption, incorporating principles of stewardship in their personal decision making and throughout the organization.
Prerequisite: Political Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70471 NONPROFIT LAW 3 Credit Hours
(Slashed with PADM 60471) Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax-exempt status, basic requirements for establishing and operating nonprofit organizations specifically in Ohio.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70472 NONPROFIT BOARD-EXECUTIVE RELATIONS 3 Credit Hours
(Slashed with PADM 60472) Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities and governance structures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70475 CAPSTONE SEMINAR 3 Credit Hours
(Repeatable for credit) Students complete an approved, written project that is analytical and research-based.
Prerequisite: Political Science major; and doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

POL 70477 NONPROFIT FINANCIAL RESOURCE DEVELOPMENT 3 Credit Hours
(Slashed with PADM 60477) Successful strategies for fundraising and resource development for nonprofit organizations. Students are exposed to fundraising in practice and write a resource development plan.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70501 STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 60501) Course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70502 GLOBAL GOVERNANCE 3 Credit Hours
(Slashed with POL 60502) Course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process, including nation-states, intergovernmental organizations and nongovernmental organizations.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70503 FOREIGN POLICY ANALYSIS 3 Credit Hours
(Slashed with POL 60503) Course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis and policy domains.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70507 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours
(Slashed with PACS 60070 and POL 60507) Throughout the past 30 years, many states and societies have negotiated complicated transitions from authoritarianism, widespread human rights violations and intractable civil conflict toward various degrees of justice, truth-telling, reconciliation and democracy. Some have done it well and some have not; policy certainly matters in this politically potent arena. For example, political memory and accountability may be swept under the public rug—doing so may, or may not, trip up an experiment in democracy. Alternatively, truth-telling and justice may, or may not, be a springboard for reconciliation, healing and citizen empowerment. In this course, we focus on the policies and mechanisms used to constructively confront impunity and come to terms with past horrors. We analyze various international institutions like war crimes tribunals and truth commissions and various local mechanisms like Rwanda's Gacaca courts. We also study the differing roles of reparations paid to victims for past injustices, amnesties granted to former government officials, immunity being traded for truth-telling about the past and the impacts of commemoration and memorialization.
Prerequisite: POL 70501; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70510 POLITICS OF DEVELOPMENT 3 Credit Hours
(Slashed with POL 60510) Course surveys the scholarship on political development, examining the ways in which the conceptualization of development has evolved over time, looking specifically at institutionalization, state failure and the role of civil society.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70574 STRATEGIC PLANNING 3 Credit Hours
(Slashed with PADM 60574) Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70591 SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 60591) (Repeatable for credit) Seminar on current and important topics in transnational and comparative politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 70901 FOUNDATIONS OF CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Slashed with PACS 60000 and POL 60901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70902 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours
(Slashed with PACS 60021 and POL 60902) Examines power disparities and gender as sources of conflict in multiple arenas—including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphases is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70903 IDENTITY DRIVEN CONFLICTS 3 Credit Hours
(Slashed with PACS 60020 and POL 60903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70904 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours
(Slashed with PACS 60022 and POL 60904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70906 POLITICAL VIOLENCE 3 Credit Hours
(Slashed with POL 60906) Examines the dynamics, networks, interests and resource mobilization underlying state-sponsored political violence, focusing on "low-intensity conflict" and counter-insurgency, paramilitarism and genocide. Of special interest is the relationship of the state to various non-state actors, both perpetrators and victims, and the role of the international community in domestic-level violence.
Prerequisite: POL 70501 or POL 70901; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70907 TERRORISM AND HUMAN RIGHTS 3 Credit Hours
(Slashed with POL 60907) Examines how governments try to adhere to the rule of law in managing terrorist threats in a post 9-11 era, thus striking a balance between the competing demands of public safety, personal freedom, and human rights. Topics include understanding terrorism as a problem for western governments, the rule of law, and human rights.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70991 SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Repeatable for credit) (Slashed with POL 60991) Seminar on current and important topics in conflict analysis and management. Course may be repeated for credit toward a degree with departmental approval.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 71094 COLLEGE TEACHING IN POLITICAL SCIENCE 1 Credit Hour
(Repeatable for credit)(Slashed with POL 61094) Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum 4 credit hours applicable toward a degree with graduate studies committee approval.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

POL 79091 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours
(Repeatable for credit) (Slashed with POL 69091) Focuses on select topics in quantitative methods, including limited and categorical dependent variables, hierarchical linear models, panel data, structural equation modeling and Q Methodology. More than one seminar may be offered.
Prerequisite: POL 70004; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 79095 SPECIAL TOPICS IN POLITICAL SCIENCE AND PUBLIC POLICY 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)(Slashed with POL 69095) Topic varies per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 81098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if department approves and when letter grade is given.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

POL 81199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration during at least two semesters is required, and the first of which is the semester during which dissertation work begins and continues until the completion of 30 credit hours. Doctoral students must complete a minimum of 30 credit hours post-master's (or equivalent advanced degree) or a minimum of 60 credit hours post-bachelor's to receive special approval to enroll in POL 81199.
Prerequisite: Political Science major; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

POL 81299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required for doctoral students who have completed the initial 30 credit hours of POL 81199 and continuing until all degree requirements are met.
Prerequisite: 30 credit hours of POL 81199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Preclinical Sciences (PCS)

PCS 80001 COMPREHENSIVE BASIC SCIENCE I 1 Credit Hour
This course will be required for all Pathway I students. Pathway I students are defined as students who fail APMLE Part I on the first attempt and are preparing to take it for the second time. Students who do not take APMLE Part I on the first attempt will be also be required to take this course.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

PCS 80002 COMPREHENSIVE BASIC SCIENCE II 5 Credit Hours
This course will be required for all Pathway II students. Pathway II students are defined as students who fail APMLE Part I on the first and second attempts and are preparing to take it for the third and final time. Eligible students who do not sit for APMLE Part I the first time offered and who fail on their first attempt will be required to take this course as well.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 5 other
Grade Mode: Satisfactory/Unsatisfactory

PCS 80109 HUMAN ANATOMY 6 Credit Hours
The macroscopic anatomy of the upper limb, thorax, abdomen, head and neck, pelvis and perineum of the human body is described, utilizing audiovisual teaching aids and full cadaver dissection. The course is taught using a regional approach, with emphasis on structural and functional relationships. The laboratory instruction includes cadaver dissection supplemented with anatomical prosections, as well as cross-sectional anatomy and computerized educational material.
Prerequisite: Students must be enrolled in the Podiatric Medicine program in order to register for this course.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 lecture, 4 lab
Grade Mode: Standard Letter

PCS 80110 EMBRYOLOGY 2 Credit Hours
This course will cover the major events and processes involved in normal and abnormal embryologic development of the major body organs and systems.
Prerequisite: Students must be enrolled in the Podiatric Medicine program in order to register for this course.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PCS 80119 HUMAN ANATOMY AND EMBRYOLOGY 8 Credit Hours
The human upper limb, head and neck, thoracic, abdominal and pelvic anatomy is explored through lecture, audiovisual aids and cadaver dissection. The material is presented in a regional approach, with emphasis on structural and functional relationships, and is correlated with cadaver dissection. In addition, early events in human embryology are presented and discussed followed by coverage of regional and system-based events during embryological and fetal development. Anatomical and embryological topics are correlated throughout the course.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 lecture, 4 lab
Grade Mode: Standard Letter

PCS 80124 LOWER EXTREMITY ANATOMY 8 Credit Hours
Lower extremity anatomy presents the detailed macroscopic anatomy of the lower limb. The course is augmented with radiographs, MRI, surface anatomy and cross sectional studies. The course includes an introduction to basic concepts of podiatric medicine, surgery and biomechanics. Laboratory instruction includes a detailed dissection of the lower limb, supplemented with computerized educational materials and study of natural bone specimens.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Laboratory, Lecture
Contact Hours: 4 lecture, 4 lab
Grade Mode: Standard Letter

PCS 80128 MEDICAL MICROBIO/IMMUNOLOGY 6 Credit Hours
This course will introduce the student to the basic concepts, characteristics and techniques used in the study of the clinically significant microbic groups: viruses, bacteria, fungi, and protozoa. The structure, metabolism, genetics, control and laboratory techniques of each microbic group will be described. The roles and outcomes of these organisms in producing manifestations of human infection and disease will be investigated. This course will also introduce the student to the molecular, cellular and organismal mechanisms responsible for the human immune response system. Laboratory will provide hands on experience in staining, cultivation, identification, sensitivity testing, and immunologic techniques.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 lecture, 1 lab
Grade Mode: Standard Letter

PCS 80130 FOUNDATIONS OF LIFE SCIENCES I 6 Credit Hours
Course covers foundational biochemistry, molecular biology, genetics, cell and tissue structure, as well as the structure and function of various tissues and specialized connective tissues.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 6.4 lecture
Grade Mode: Standard Letter

PCS 80131 FOUNDATIONS OF LIFE SCIENCES II 6 Credit Hours
Course offers a thorough exploration of biochemistry, histology and physiology, focusing on the processes and systems that sustain human life. Students study the biochemical pathways of metabolism and their role in energy production, as well as the cellular and tissue structures of the endocrine and reproductive systems. Course emphasizes the integration of the autonomic nervous system with the endocrine and reproductive systems, highlighting feedback mechanisms that regulate homeostasis, hormonal balance and reproduction. By connecting biochemical, structural and functional concepts, this course aligns with the KSUCPM Medical Knowledge Competencies and prepares the students to apply foundational science concepts to medical practice.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 6.4 lecture
Grade Mode: Standard Letter

PCS 80132 FOUNDATIONS OF LIFE SCIENCES III 4 Credit Hours
Course provides an in-depth exploration of the physiology and histology of the nervous and digestive systems. Students gain a comprehensive understanding of the structure and function of these systems at both cellular and systemic levels, with an emphasis on their interdependence and regulation. The course integrates foundational knowledge of neural signaling, brain and spinal cord function and peripheral nervous system dynamics. Course also covers the processes of digestion, nutrient absorption and gastrointestinal regulation. Special focus is given to the microscopic anatomy of nervous tissue and digestive organs, highlighting how cellular architecture supports physiological roles.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 4.8 lecture
Grade Mode: Standard Letter

PCS 80133 FOUNDATIONS OF LIFE SCIENCES IV 5 Credit Hours
Course explores the normal histologic structure, function, and physiological mechanisms of the cardiovascular, renal and respiratory systems.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 5.6 lecture
Grade Mode: Standard Letter

PCS 80218 HUMAN SYSTEMS PATHOLOGY I 8 Credit Hours
The study of disease with emphasis on epidemiology, pathogenesis, natural history, morphologic appearance and relationship to clinical manifestation. Emphasis is placed on basic cellular pathologic processes (injury, inflammation and repair, neoplasia), and description of diseases organized by organ system. An introduction to the concepts of clinical decision making through the use of case studies and current clinical literature will be emphasized.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Lecture
Contact Hours: 8 lecture
Grade Mode: Standard Letter

PCS 80219 PHARMACOLOGY AND THERAPEUTICS I 4 Credit Hours
Historically, the clinician was responsible for information about the sources, physical and chemical properties, compounding and dispensing of drugs. Today the practitioner's responsibility requires the rational clinical use of therapeutic agents for the prevention, diagnosis, and treatment of disease based on an understanding of pharmacological principles. This course is designed to prepare practitioners to prescribe for maximum benefit and to recognize the clinical ramifications of concomitant drug therapy.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PCS 80228 HUMAN SYSTEMS PATHOLOGY II 8 Credit Hours
The study of disease with emphasis on epidemiology, pathogenesis, natural history, morphologic appearance and relationship to clinical manifestation. Emphasis is placed on basic cellular pathologic processes (injury, inflammation and repair, neoplasia), and description of diseases organized by organ system. An introduction to the concepts of clinical decision making through the use of case studies and current clinical literature will be emphasized.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Lecture
Contact Hours: 8 lecture
Grade Mode: Standard Letter

PCS 80229 PHARMACOLOGY AND THERAPEUTICS II 4 Credit Hours
Historically, the clinician was responsible for information about the sources, physical and chemical properties, compounding and dispensing of drugs. Today the practitioner's responsibility requires the rational clinical use of therapeutic agents for the prevention, diagnosis, and treatment of disease based on an understanding of pharmacological principles. This course is designed to prepare practitioners to prescribe for maximum benefit and to recognize the clinical ramifications of concomitant drug therapy.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

Professional Studies (PROS)

PROS 40095 SPECIAL TOPICS IN PROFESSIONAL STUDIES 1-3 Credit Hours
(Repeatable for credit) Selected topics in Professional Studies dependent upon interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PROS 40096 INDIVIDUAL INVESTIGATION IN PROFESSIONAL STUDIES 1-3 Credit Hours
(Repeatable for credit) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member required prior to registration.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

PROS 44003 CAREER DEVELOPMENT IN PROFESSIONAL STUDIES 3 Credit Hours
In this course students will have the opportunity to integrate educational, work and field experiences as they prepare for their future career path. This course will help students consider career options, including future professions and post-graduate education. Practical exercises to support preparation for the job market are part of the experience.
Prerequisite: Senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

PROS 44004 RESEARCH AND WRITINGS IN PROFESSIONAL STUDIES (WIC) 3 Credit Hours
This course presents and integrates the role of professionals in the education, health and human services fields as they attempt to meet the needs of individuals in diverse environments.
Prerequisite: Senior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP
Attributes: Writing Intensive Course

PROS 44005 EXPLORATION AND APPLICATION OF LEADERSHIP SKILLS FOR VARIED PROFESSIONAL SETTINGS 3 Credit Hours
Leadership skills, for both personal and professional life, are explored and practiced. Topics include leadership concepts, including important qualities, skills and attributes. Activities, presentations and readings aid in the exploration and practice of those qualities and skills for a variety of career paths.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PROS 44092 PRACTICUM IN PROFESSIONAL STUDIES (ELR) 1-12 Credit Hours
(Repeatable for credit) A culminating experiential learning opportunity near the end of students' formal academic studies. Students investigate and propose a placement at a work site that is congruent with their career interests and aspirations. Work sites are approved by the practicum advisor. Practicum is often completed in one semester, although two semesters of practicum are also possible.
Prerequisite: Professional Studies major; and senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-36 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

Psychology (PSYC)

PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS) 3 Credit Hours
Introduction to the scientific approach to understanding human behavior and mental processes such as emotions, perceptions and cognitions. Topics may include personality, social and environmental factors, biological aspects of behavior and the experience of emotion and psychological disorders.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

PSYC 20651 CHILD PSYCHOLOGY (DIVD) (KSS) 3 Credit Hours
A review of the data, concepts and theories of psychology that contribute to the understanding of child development from conception to age 14.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

PSYC 21211 PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS) 3 Credit Hours
A review of theories, concepts and data that contribute to the understanding of human adjustment. Topics may include the following: personality, stress and coping, transitions from adolescence to adulthood, psychological disorders and psychotherapy.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

PSYC 21621 QUANTITATIVE METHODS IN PSYCHOLOGY I 3 Credit Hours
Application of quantitative, statistical methods in psychological research. Descriptive and inferential methods (includes ANOVA, t-test and correlation).
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30005 CAREER PATHWAYS IN PSYCHOLOGY 1 Credit Hour
Designed to equip students with a better understanding of the career pathways available to them in psychology at the bachelor's and graduate level. Using a combination of videos, articles and activities, students learn about many different topics and strategies related to careers and the graduate school application process.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PSYC 30111 FORENSIC PSYCHOLOGY 3 Credit Hours
Surveys major areas of forensic psychology, which focuses on the application of the science and profession of psychology to legal settings. Topics include roles and responsibilities of forensic psychologists, forensic assessment, psychological theories of criminal behavior, law enforcement psychology and eyewitness testimony.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30651 ADOLESCENT PSYCHOLOGY 3 Credit Hours
Students review the theories, concepts and data that contribute to the understanding of the physical, intellectual, educational, personality and social development of adolescents in contemporary society.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

PSYC 30652 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours
Processes and findings in social and personality development, with a focus on childhood and adolescence. Students examine individual differences, as well as developmental changes, in social function and personality.
Prerequisite: PSYC 11762; and HDF 24012 or PSYC 20651.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30655 CHILDREN'S THINKING 3 Credit Hours
Focuses on how children's cognitive processes and mental representations change from infancy to early adulthood. Theoretical claims, empirical findings and methodological issues are critically evaluated. Topics include children's visual and auditory perception, language and literacy, learning and memory, mathematical and spatial thinking, logical and scientific reasoning, problem solving, theory of mind and social cognition.
Prerequisite: PSYC 11762; and HDF 24012 or PSYC 20651.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30656 PSYCHOLOGY OF AGING 3 Credit Hours
Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30821 PSYCHOLOGY OF MOTIVATION 3 Credit Hours
Factors that provide the energy and direction for behaviors, emotions and cognitive processes. Seeks to answer the question "why" concerning the things people do, feel and think. A survey approach is used to include both the traditional and newly emerging concepts in motivation.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30822 SPORT PSYCHOLOGY 3 Credit Hours
Introduction to the use of psychological theories and interventions in sport and performance settings. Can include topics such as performance anxiety, maintaining focus under pressure, motivation, leadership, among others.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 31141 PERCEPTION 3 Credit Hours
Investigates how humans detect, organize and interpret information from the environment. Considers how both biological and psychological process create and influence our perception of the world.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 31282 PERSONALITY 3 Credit Hours
A review of the data, concepts and theories of psychology that contribute to the understanding of personality.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

PSYC 31498 UNDERGRADUATE RESEARCH (ELR) 1-6 Credit Hours
(Repeatable for credit) Individual research open to qualified students.
Prerequisite: PSYC 11762; and special approval.
Schedule Type: Research
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PSYC 31532 SOCIAL PSYCHOLOGY 3 Credit Hours
Study of environmental/situational influences on a person's thoughts, behaviors and feelings-focus on topics such as aggression, attitudes and behaviors, conformity, helping, personal relationships and social cognition.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY (ELR) 3 Credit Hours
The rationale, logic and procedures of scientific research in psychology with an emphasis on measurement, causal inference and research design.
Prerequisite: PSYC 11762 and PSYC 21621.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PSYC 31684 QUANTITATIVE METHODS IN PSYCHOLOGY II 3 Credit Hours
Small sample theory, analysis of variance, linear regression and nonparametric statistics (e.g. Chi Square). Course may include qualitative analyses and computer- based data analyses with SPSS software.
Prerequisite: PSYC 21621.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 31773 INDUSTRIAL PSYCHOLOGY 3 Credit Hours
Application of principles, facts and theories of psychology to people at work. Includes motivation and satisfaction at work, personnel selection and placement, training and development, performance appraisal, organizational development, quality of work life, ergonomics and consumer psychology.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40111 PSYCHOPATHOLOGY 3 Credit Hours
Survey of the definitions as well as the biological, psychological and sociocultural causes of various psychological disorders. Illustrations of these disorders with cases. Overview of treatment approaches to these disorders may be included.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

PSYC 40112 PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE 3 Credit Hours
Covers the biological, psychological and socio-cultural factors influencing the development of psychological disorders in children and adolescents. Emphasis is placed on conceptual and research issues and the application of knowledge to understanding diagnosis and case studies of specific disorders.
Prerequisite: PSYC 11762; and HDF 24012 or PSYC 20651 or PSYC 30651; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40231 PSYCHOLOGICAL ASSESSMENT 3 Credit Hours
Introduction to psychometrics and test theory. Use and basic interpretation of intellectual and personality tests. Skills in using tests at a professional level not given.
Prerequisite: PSYC 11762 and PSYC 21621.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40382 PEDIATRIC PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 50382 and PSYC 70382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.
Prerequisite: PSYC 20651; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40383 INTRODUCTION TO CLINICAL PSYCHOLOGY 3 Credit Hours
Application of psychological principles and techniques to the problems of the individual. Course is designed to introduce the field of clinical psychology, including models of understanding abnormal behavior, treatment of individuals and ethics and professional issues.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40445 COGNITIVE PSYCHOLOGY 3 Credit Hours
Covers the mental processes that underline human thought and behavior, such as attention, memory, comprehension, reasoning, problem-solving and language. Considers established and current theoretical models, research methods and experimental results.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40446 COGNITIVE NEUROSCIENCE 3 Credit Hours
Covers the cognitive and neural processes that underlie vision, attention, spatial processing, memory, language, social processes, executive functioning and action. Introduces basic brain structure and the behavioral and functional imaging techniques used to study the brain bases of cognition. Data from patients with neurological disorders such as Alzheimer's, aphasia, amnesia are also examined.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40461 PSYCHOLOGY OF LANGUAGE 3 Credit Hours
Investigates psychological processes involved in language production, comprehension and development. Within each broad area emphasis is on theories, psychological experiments, key findings and the relationships between theory, method and data.
Prerequisite: PSYC 11762 and PSYC 40445.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40625 DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD) 3 Credit Hours
A life-span, developmental model is used to analyze the changes that occur with age in gender-related role performance and identity formation.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

PSYC 40974 HISTORY OF PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 50974) Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems, theories and fundamental issues with which psychologists have concerned themselves in past and contemporary stages of the science.
Prerequisite: PSYC 11762; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41043 BASIC LEARNING PROCESSES 3 Credit Hours
Examination of basic principles of Pavlovian conditioning, instrumental conditioning, animal learning and memory processes and animal cognition. Emphasis on major empirical phenomena derived from research with animals with reference to related psychological processes in humans.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41363 BIOPSYCHOLOGY 3 Credit Hours
Rigorous course covering the relationship between brain and behavior at the physiological, chemical and anatomical levels. Focuses on the association between the central nervous system and various processes and behaviors such as learning, emotions, neurological disorders and psychopathology. Students with no background or coursework in biological science should plan to devote considerable time to mastering the relevant concepts for this course (e.g., structure and function of neurons).
Prerequisite: PSYC 11762; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41364 DRUGS AND BEHAVIOR 3 Credit Hours
Provides an overview of drug taking in society, the actions of drugs in the body and the effects of drugs on behavior. Focus is on drugs and the nervous system, psychopharmacology and actions and side effects of such drugs as alcohol, opiates, stimulants, marijuana, hallucinogens, depressants and performance-enhancing drugs. Particular focus is on medications for psychiatric disorders, abuse-potential and the causes of addiction, dependence and relapse.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 51395 and PSYC 71395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41492 INTERNSHIP IN PSYCHOLOGY (ELR) 1-6 Credit Hours
(Repeatable for credit) Application of psychological knowledge and skills in applied settings. Allows academic credit for participation as an intern at approved internship sites, including social service, non-profit agencies, government agencies and hospital settings.
Prerequisite: 9 credit hours of psychology courses; and minimum 3.000 overall GPA; and psychology major; and junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 7-42 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PSYC 41495 SPECIAL TOPICS IN PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of research theory or methodology may be covered. Specific topics announced.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PSYC 41498 INDIVIDUAL INVESTIGATION (ELR) 1-6 Credit Hours
(Repeatable for maximum 16 credit hours) Involves participation in empirical research, review of psychological literature and preparation of a paper or annotated bibliography.
Prerequisite: PSYC 11762; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PSYC 41573 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: SOCIAL/CLINICAL (WIC) 3 Credit Hours
(Repeatable for credit) Intensive experience in the conduct, analysis and reporting of empirical research in social or clinical psychology. Specific content varies with instructor.
Prerequisite: PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PSYC 41574 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: COGNITIVE/LEARNING (WIC) 3 Credit Hours
(Repeatable for credit) Intensive experience in the conduct, analysis and reporting of empirical research in cognitive psychology or human/animal learning. Specific content varies with instructor.
Prerequisite: PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 overall GPA; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PSYC 41581 HEALTH PSYCHOLOGY 3 Credit Hours
Role of psychological and social factors in health and illness, typically covering three general areas: (1) psychological factors affecting disease, (2) psychological and social consequences of illness and (3) psychotherapeutic interventions.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41584 THE PSYCHOLOGY OF EXERCISE 3 Credit Hours
Provides an introduction to exercise psychology, which is the application of psychology to promote, maintain, enhance and explain the parameters of exercise. Course introduces students to the cutting-edge research and practical application of exercise psychology. Topics include use of psychological theory to predict adoption and adherence to exercise behavior; social and personality influences on exercise behavior; research on effectiveness of various exercise interventions; and consequences of exercise, including mental health states such as depression and anxiety, emotional well-being, self-esteem, self-concept, health-related quality of life and cognition.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 51595 and PSYC 71595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Topic varies per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41901 WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour
Writing-intensive course taken in conjunction with a 3-credit-hour, upper-division psychology course (may not be taken with PSYC 31498, PSYC 41498, PSYC 41573, PSYC 41574 or PSYC 41993).
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PSYC 41980 RESEARCH WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour
Writing-intensive course taken in conjunction with PSYC 31574.
Pre/corequisite: PSYC 31574.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PSYC 41993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit) Specific topic varies per course offering.
Prerequisite: PSYC 11762; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PSYC 42574 ADVANCED RESEARCH METHODS 3 Credit Hours
Course helps students integrate information learned in previous courses to better understand the process of conducting research in the field of psychology. Through hands-on experiences, students use basic statistical analyses to answer hypotheses; review scientific literature and generate hypotheses; test hypotheses using a dataset and present research findings.
Prerequisite: PSYC 31574; and minimum 3.200 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 43001 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with PSYC 53001 and PSYC 73001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Minimum 3.250 overall GPA; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 43002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with PSYC 53002 and PSYC 73002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Minimum B grade in BSCI 30140 or BSCI 30156 or BSCI 30520 or PSYC 41363; and minimum 3.250 overall GPA; and junior standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 43003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with PSYC 53003 and PSYC 73003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: BSCI 30520 or PSYC 41363 with a minimum B grade; and minimum 3.250 overall GPA; and junior standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 47385 BROKEN BRAINS: INTRODUCTION TO CLINICAL NEUROPSYCHOLOGY 3 Credit Hours
Clinical neuropsychology is the study of brain-behavior relationships or the ways in which the brain allows people to think, feel and behave in their everyday life. Course introduces students to cutting-edge research into the inner workings of the brain in both healthy individuals and those with neurological disorders (e.g. Alzheimer's disease, brain injury, ADHD, bipolar disorder). Topics include organization of the brain; how people learn, pay attention and solve problems; brain plasticity; neurological disorders; and neuropsychological assessment.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 47387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours
(Slashed with PSYC 57387 and PSYC 77387) (Cross-listed with NEUR 47387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactivetherapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 50382 PEDIATRIC PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 40382 and PSYC 70382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 50974 HISTORY OF PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 40974) Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems theories and fundamental issues with which psychologists have concerned themselves in past and contemporary states of the science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 51395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 41395 and PSYC 71395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 51595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 41595 and PSYC 71595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 51993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit) Specific topic varies per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PSYC 53001 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with PSYC 43001 and PSYC 73001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 53002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with PSYC 43002 and PSYC 73002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Graduate standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 53003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with PSYC 43003 and PSYC 73003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: Graduate standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 57387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours
(Slashed with PSYC 47387 and PSYC 77387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactivetherapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60105 DEVELOPMENTAL PSYCHOPATHOLOGY 3 Credit Hours
(Slashed with PSYC 70105) Nature and theoretical explanations of various forms of psychopathology in children and adults. Students learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD 3 Credit Hours
(Slashed with PSYC 70110) Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT 3 Credit Hours
(Slashed with PSYC 70170) An examination of the etiology, symptomology and theoretical models of adult psychopathology.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60192 INTEGRATION PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives.
Prerequisite: PSYC 60292 and PSYC 60792; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1-3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 60272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 70272) Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students become familiar with major psychological tests.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT 3 Credit Hours
(Slashed with PSYC 70273) Examines psychodiagnosis within a context of "personality-as-a-coherent-whole." Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations.
Prerequisite: PSYC 60272; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD 3 Credit Hours
(Slashed with PSYC 70274) Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments and assessment of special-child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation.
Prerequisite: PSYC 60272 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60275 BEHAVIORAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 70275) Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues.
Prerequisite: PSYC 60272 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 70276) Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60292 PSYCHOLOGICAL ASSESSMENT PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Applied aspects of material presented in PSYC 60272. Emphasis on administering, scoring and interpreting major assessment tools.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Corequisite: PSYC 60272.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 60324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 70324) Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60371 INTRODUCTION TO PSYCHOLOGICAL THERAPY 3 Credit Hours
(Slashed with PSYC 70371) Introduction to psychotherapy, with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60375 COGNITIVE BEHAVIOR THERAPY 3 Credit Hours
(Slashed with PSYC 70375) Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.
Prerequisite: PSYC 60371 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60376 CHILD PSYCHOTHERAPY 3 Credit Hours
(Slashed with PSYC 70376) Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies and child therapy research. Emphasis on integration of theory, technique and research.
Prerequisite: PSYC 60371; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60395 ADVANCED TOPICS IN CLINICAL PSYCHOLOGY 1-6 Credit Hours
(Slashed with PSYC 70395)(Repeatable for credit) Advanced-level consideration of selected content areas in assessment, psychotherapy psycho pathology professional issues and community psychology. Specific topic varies per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

PSYC 60453 INTRODUCTION TO COGNITIVE PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 70453) Information-processing approaches to human thought. Focus on processes used to transform store manipulate and retrieve sensory input. Topics include attention pattern recognition memory and language.
Prerequisite: Clinical Psychology or Psychological Science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60592 PRACTICUM IN DIAGNOSTIC INTERVIEWING 1-3 Credit Hours
(Repeatable for credit) Covers skills clinical psychologists must possess to help clients, effectively work within the field, communicate effectively with peers and colleagues and excel as a clinical researcher. Provides a foundation of skills, knowledge and expertise necessary to competently conduct a diagnostic interview, and provides an introduction to the process of conceptualize a client's presenting problem(s).
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

PSYC 60792 PSYCHOTHERAPY PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Basic training in applied aspects of psychotherapy. Through didactic and experiential methods, students learn basic listening and communication skills that are then applied to specific techniques, situations and issues.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Corequisite: PSYC 60371.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 60895 ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with PSYC 70895) Advanced-level consideration of selected content areas in experimental psychology. Specific topic varies per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

PSYC 60950 HISTORY AND CONTEMPORARY SYSTEMS 3 Credit Hours
(Slashed with PSYC 70950) Relationships between historical antecedents and the major contemporary systems and theories of psychology.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61054 LEARNING AND CONDITIONING 3 Credit Hours
(Slashed with PSYC 71054) Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena particularly as these are exemplified in animal models of behavior.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 61260 THEORIES OF PERSONALITY 3 Credit Hours
(Slashed with PSYC 71260) Consideration of major theoretical orientations, including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: PSYC 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 61350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 71350) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61498 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits may be applied toward meeting degree requirements with department approval and when satisfactory grade is given.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 61548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours
(Slashed with PSYC 71548) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61580 SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 71580) Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61651 QUANTITATIVE STATISTICAL ANALYSIS I 3 Credit Hours
(Slashed with PSYC 71651) Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two-semester sequence on statistical analysis.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61654 QUANTITATIVE STATISTICAL ANALYSIS II 3 Credit Hours
(Slashed with PSYC 71654) Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61685 CLINICAL RESEARCH METHODS 3 Credit Hours
(Slashed with PSYC 71685) Consideration of research methodologies relevant to clinical psychology, with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit) Workshop topic varies per course offering.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PSYC 62392 CLINICAL PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 62492 ADVANCED PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model.
Prerequisite: PSYC 60192 and PSYC 60292 and PSYC 60792; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 62685 RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE 3 Credit Hours
(Slashed with PSYC 72685) Course fosters the development of graduate students as independent researchers by helping them acquire knowledge of and facility with quantitative research methods in psychology. The course covers a range of topics that are essential for successful research in psychology, including formulating research questions, measurement, research design, sampling, ethics, writing, replication and validity.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70105 DEVELOPMENTAL PSYCHOPATHOLOGY 3 Credit Hours
(Slashed with PSYC 60105) Nature and theoretical explanations of various forms of psychopathology in children and adults. Students learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD 3 Credit Hours
(Slashed with PSYC 60110) Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT 3 Credit Hours
(Slashed with PSYC 60170) An examination of the etiology, symptomology and theoretical models of adult psychopathology.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70192 INTEGRATION PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives.
Prerequisite: PSYC 70292 and PSYC 70792; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 70272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 60272) Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students become familiar with major psychological tests.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT 3 Credit Hours
(Slashed with PSYC 60273) Examines psychodiagnosis within a context of "personality-as-a-coherent-whole." Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations.
Prerequisite: PSYC 70272; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD 3 Credit Hours
(Slashed with PSYC 60274) Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments and assessment of special-child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation.
Prerequisite: PSYC 70272 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70275 BEHAVIORAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 60275) Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues.
Prerequisite: PSYC 70272 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 60276) Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70292 PSYCHOLOGICAL ASSESSMENT PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Applied aspects of material presented in PSYC 70272. Emphasis on administering, scoring and interpreting major assessment tools.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Corequisite: PSYC 70272.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 70324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 60324) Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70371 INTRODUCTION TO PSYCHOLOGICAL THERAPY 3 Credit Hours
(Slashed with PSYC 60371) Introduction to psychotherapy, with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70375 COGNITIVE BEHAVIOR THERAPY 3 Credit Hours
(Slashed with PSYC 60375) Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.
Prerequisite: PSYC 70371 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70376 CHILD PSYCHOTHERAPY 3 Credit Hours
(Slashed with PSYC 60376) Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies and child therapy research. Emphasis on integration of theory technique and research.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70382 PEDIATRIC PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 40382 and PSYC 50382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70392 SUPERVISED CLINICAL EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) Post-practicum, psychological service provision and/or research activities in institution or agency under supervision of licensed psychologist and by arrangement of department of psychology.
Prerequisite: PSYC 72392; and doctoral standing; and special approval.
Schedule Type: Field Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 70395 ADVANCED TOPICS IN CLINICAL PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with PSYC 60395) Advanced-level consideration of selected content areas in assessment, psychotherapy, psychopathology, professional issues and community psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

PSYC 70413 COGNITIVE NEUROPSYCHOLOGY 3 Credit Hours
The effect of brain injury and anomalous neurological development on cognitive skills such as language, perception and memory are explored.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70453 INTRODUCTION TO COGNITIVE PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 60453) Information-processing approaches to human thought. Focus on processes used to transform, store, manipulate and retrieve sensory input. Topics include attention, pattern recognition, memory and language.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70592 PRACTICUM IN DIAGNOSTIC INTERVIEWING 1-3 Credit Hours
(Repeatable for credit) Covers skills clinical psychologists must possess to help clients, effectively work within the field, communicate effectively with peers and colleagues and excel as a clinical researcher. Provides a foundation of skills, knowledge and expertise necessary to competently conduct a diagnostic interview, and provides an introduction to the process of conceptualize a client's presenting problem(s).
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

PSYC 70604 COGNITIVE DEVELOPMENT 3 Credit Hours
Examination of theories and research concerning changes in memory, perception, thought and language over the life span.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70615 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours
Examination of theories and research in social development, with a focus on how personal relationships influence personality development.
Prerequisite: Clinical psychology or psychological Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70792 PSYCHOTHERAPY PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Basic training in applied aspects of psychotherapy. Through didactic and experiential methods, students learn basic listening and communication skills that are then applied to specific techniques situations and issues.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 70895 ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with PSYC 60895) Advanced-level consideration of selected content areas in experimental psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

PSYC 70950 HISTORY AND CONTEMPORARY SYSTEMS 3 Credit Hours
(Slashed with PSYC 60950) Relationships between historical antecedents and the major contemporary systems and theories of psychology.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71054 LEARNING AND CONDITIONING 3 Credit Hours
(Slashed with PSYC 61054) Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena, particularly as these are exemplified in animal models of behavior.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71260 THEORIES OF PERSONALITY 3 Credit Hours
(Slashed with PSYC 61260) Consideration of major theoretical orientations, including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 61350) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 41395 and PSYC 51395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours
(Slashed with PSYC 61548) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71580 SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 61580) Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 41595 and PSYC 51595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology related to counseling careers. Topic varies per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71651 QUANTITATIVE STATISTICAL ANALYSIS I 3 Credit Hours
(Slashed with PSYC 61651) Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two-semester sequence on statistical analysis.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71654 QUANTITATIVE STATISTICAL ANALYSIS II 3 Credit Hours
(Slashed with PSYC 61654) Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis.
Prerequisite: PSYC 71651; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71685 CLINICAL RESEARCH METHODS 3 Credit Hours
(Slashed with PSYC 61685) Consideration of research methodologies relevant to clinical psychology, with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71894 COLLEGE TEACHING OF PSYCHOLOGY 3 Credit Hours
(Repeatable for maximum 6 credit hours) Training and experience in college teaching.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

PSYC 71993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credt) Workshop topic varies per course offering.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PSYC 72392 CLINICAL PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 72492 ADVANCED PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model.
Prerequisite: PSYC 70192 and PSYC 70292 and PSYC 70792; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 72685 RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE 3 Credit Hours
(Slashed with PSYC 62685) Course fosters the development of graduate students as independent researchers by helping them acquire knowledge of and facility with quantitative research methods in psychology. The course covers a range of topics that are essential for successful research in psychology, including formulating research questions, measurement, research design, sampling, ethics, writing, replication and validity.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 73001 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with PSYC 43001 and PSYC 53001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 73002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with PSYC 43002 and PSYC 53002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Doctoral standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 73003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with PSYC 43003 and PSYC 53003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: Doctoral standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 77387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours
(Slashed with PSYC 47387 and PSYC 57387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactivetherapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 80391 SEMINAR IN CLINICAL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) Seminar devoted to detailed study of various topics in field of clinical psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PSYC 80491 SEMINAR IN COGNITIVE PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) Seminar on current research in cognitive psychology. Specific topics will be announced in schedule of classes.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PSYC 80501 PSYCHOMETRIC THEORY AND MEASUREMENT 3 Credit Hours
This course is designed to provide an in-depth introduction to basic elements of psychometric theory. This includes topics of scaling (for stimuli and persons), (b) classical test theory and its approach to test reliability, (c) generalizability theory and its approach to test reliability, (d) principles and procedures for investigating test validity, (e) statistical issues of using tests for selection and classification (including diagnosis), (f) approaches to item analysis including item response theory, and (g) approaches to test construction.
Prerequisite: PSYC 71651 and PSYC 71654; and doctorate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 80502 STRUCTURAL EQUATION MODELING 3 Credit Hours
This course is designed to provide an in-depth introduction to the statistical technique of structural equation modeling (SEM). The course starts with an overview of the goals of SEM, basic terminology and conceptual issues, and basic requirements for conducting this type of analysis. Core analytic techniques (path analysis, confirmatory factor analysis, and latent variable modeling) will be discussed and conducted, and more advanced analysis techniques will also be briefly introduced. The course also involves learning the use of the statistical software MPlus.
Prerequisite: PSYC 71651 and PSYC 71654; and doctorate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 80503 HIERARCHICAL LINEAR MODELING 3 Credit Hours
This course is an upper-level graduate seminar intended to introduce students to the use of Hierarchical (Multilevel) Linear Models in psychological research. This class will focus on developing a thorough conceptual understanding and the ability to implement this knowledge by conducting analyses. This includes such topics as the analysis of persons nested within groups, as well as the analysis of repeated measures within persons which itself includes analysis of Ecological Momentary Assessment data and growth analyses.
Prerequisite: PSYC 61651 or PSYC 71651; and PSYC 61654 or PSYC 71654; and doctorate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 81091 SEMINAR IN LEARNING AND BIOPSYCHOLOGY 3 Credit Hours
(Repeatable for credit) Seminar on current research in learning and biopsychology. Specific topic varies per course offering.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PSYC 81199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 81299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: PSYC 81199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 81498 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students. Credits may be applied toward degree with department approval.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 81591 SEMINAR IN PERSONALITY AND SOCIAL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)Seminar on current research in areas of social psychology. Specific topics will be announced in schedule of classes.
Prerequisite: Doctoral standing in psychology.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PSYC 81691 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours
(Repeatable for credit) Seminar on applications of quantitative methods within various content areas of psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Public Administration (PADM)

PADM 60195 SPECIAL TOPICS IN PUBLIC ADMINISTRATION 3 Credit Hours
(Repeatable for credit) (Cross-listed with POL 70195) Topic varies per course offerings.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60198 RESEARCH IN PUBLIC ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward a degree with department approval.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

PADM 60200 NONPROFIT ADVOCACY 3 Credit Hours
This course explores the U.S. public-policy making process as it applies to nonprofit organizations. Nonprofits influence policy making or "advocacy" through a variety of methods, such as lobbying, campaigning, protesting, and policy monitoring. The course explores how nonprofit organizations both shape and are shaped by public policy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60310 LEADERSHIP IN THE NONPROFIT AND PUBLIC SECTOR 3 Credit Hours
This course teaches students theory, practice, and skills for leading non-profit and public organizations. Topics include: organizational theory and behavior; organizational culture; integrity and ethics; group dynamics; conflict management; and creating an environment that promotes diversity and inclusion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60371 GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours
(Cross-listed with POL 70371) Introductory course to the theory and study of public administration. Topics include evolution and characteristics of the modern nation state; core functions of public bureaucracy in any nation state; intergovernmental relations; formal and informal institutions and their role in policy; legal-regulatory processes; historical evolution of public administration as an academic field; and major paradigms in organization theory and internal organizational dynamics.
Prerequisite: Public administration major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60375 PUBLIC PERSONNEL ADMINISTRATION 3 Credit Hours
Study of public personnel systems, including underlying system values and current problems with emphasis on skill development and understanding of techniques for public personnel managers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60376 LABOR MANAGEMENT RELATIONS IN THE PUBLIC SECTOR 3 Credit Hours
This course focuses on issues peculiar to public sector labor relations, including the impact of public employee unionism on traditional merit systems and personnel policy decision processes.
Prerequisite: PADM 60375; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60377 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT 3 Credit Hours
(Cross-listed with POL 70377) Focuses on two aspects of public financial analysis: budgeting and financial management. The topics in budgeting are the basic purposes of budgets as mechanisms of resource control and allocation, and as legal documents; distinct budget formats and cross-walking of formats; budget preparation; legislative review; implementation and auditing. The topics in financial management are the mechanisms and tools for financing public operations, debt management, fund accounting, analyzing budgets and forecasting.
Prerequisite: Public administration major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60379 PROGRAM EVALUATION I 3 Credit Hours
(Cross-listed with POL 70379) Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and specifically the techniques utilized under different evaluation formats.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60381 METHODS IN PUBLIC ADMINISTRATION 3 Credit Hours
This course is a graduate-level introduction to statistical methods and their use in public administration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60382 SEMINAR IN PUBLIC ADMINISTRATION 3 Credit Hours
Study of selected problem areas in public service organizations with emphasis on understanding the factors contributing to them, their solution and literature bearing on the problems.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60386 PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT 3 Credit Hours
(Cross-listed with POL 70386) Management of information technology systems in the public sector. Specific focus on: planning and acquisition of hardware and software and networking technologies, organizational governance and implementation, information security and privacy, legal requirements, IT service delivery and emerging enterprise technologies.
Prerequisite: Public administration major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60387 ELECTRONIC GOVERNANCE 3 Credit Hours
(Slashed with POL 70387) An introduction to electronic governance with an emphasis on public administration. Examines the implications of information and communication technology in public organizations with regard to democracy, civic engagement and performance improvement. Through case studies from the United States and across the world, students become familiar with the factors and issues surrounding the implementation of electronic governance on a comparative basis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60392 INTERNSHIP IN PUBLIC ADMINISTRATION 3 Credit Hours
(Repeatable for credit)Provides an opportunity for students to gain practical experience and be exposed to processes of public decision making and policy development.
Prerequisite: Public administration major; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

PADM 60470 PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE 3 Credit Hours
(Cross-listed with POL 70470) Focus is on students internalizing their role in the public service as stewards of the public trust. Topics covered include dimensions of stewardship: maintaining personal honor, protecting the liberty and dignity of the citizen, dimensions of justice, anti-corruption, incorporating principles of stewardship in their personal decision making and throughout the organization.
Prerequisite: Public administration major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60471 NONPROFIT LAW 3 Credit Hours
(Cross-listed with POL 70471) Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax exempt status, basic requirements for establishing/operating nonprofit organizations specifically in Ohio.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60472 NONPROFIT BOARD EXEC RELATIONS 3 Credit Hours
(Cross-listed with POL 70472) Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities and governance structures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60477 NONPROFIT FINANCIAL RESOURCE DEVELOPMENT 3 Credit Hours
(Cross-listed with POL 70477) Successful strategies for fundraising and resource development for nonprofit organizations. Students are exposed to fundraising in practice and write a resource development plan.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60499 PORTFOLIO AND CAPSTONE 3 Credit Hours
During this culminating semester of the M.P.A. program, students engage in three key activities to demonstrate their comprehensive understanding and skills developed throughout the course. These activities include: (1) craft a reflective capstone paper that describes the skills and expertise gained throughout M.P.A. courses and link them to core competencies, (2) compile a portfolio showcasing their most significant works from the core M.P.A. courses, representing their proficiency in each of the five main competencies, and (3) complete an online exit survey as a formal conclusion to the M.P.A. program.
Prerequisite: Public Administration major; and graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

PADM 60574 STRATEGIC PLANNING 3 Credit Hours
(Cross-listed with POL 70574) Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Public Health (PH)

PH 10000 EXPLORING CAREERS IN PUBLIC HEALTH 1 Credit Hour
Provides an overview of the diverse career opportunities available in the field. Explores various public health issues from the perspectives of public health professionals from the core disciplines in public health: social behavioral sciences, environmental health, health policy and management, epidemiology and biostatistics. Students learn about how public health professionals approach issues and the types of professional roles and activities they bring to addressing each issue.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 10001 INTRODUCTION TO PUBLIC HEALTH 3 Credit Hours
An overview of the evolution and practices of the dynamic field of public health in the United States and globally. Students are introduced to the structure and functions of public health organizations and practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 10002 INTRODUCTION TO GLOBAL HEALTH (DIVG) 3 Credit Hours
An overview of the biological, social and environmental contributors to health and diseases in populations around the world, including case studies of selected infectious diseases, nutritional deficiencies and health effects of environmental change.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

PH 10003 EXPLORING CAREERS IN GLOBAL HEALTH 1 Credit Hour
Course provides students with an introduction to global health and an overview of the diverse career opportunities available in the field. The global health sector is evolving as one of the primary career destinations and is moving beyond the traditional roles of science, pharmacy, medicine and nursing; additional areas also include communications, technology, data scientists, finance, management, legal, linguistics, international relations, and most important, cross functional skills are needed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 15 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

PH 10195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for credit) Subject varies depending on the emerging issue.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PH 15092 PUBLIC HEALTH FIELD EXPERIENCE I (ELR) 1-3 Credit Hours
(Repeatable for credit) Entry-level internship experience in a public health setting under the supervision of a site preceptor and university supervisor. Students gain experience in public health work.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PH 20000 PUBLIC HEALTH PROFESSIONAL PRACTICE I 1 Credit Hour
Professional development course designed to expose future public health leaders to the diverse field of public health and develop attainable career goals. Student will begin the development of personal goals and a portfolio of work that will build during the entire program. The understanding of public health as a profession will be fostered.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 20001 ESSENTIALS OF EPIDEMIOLOGY 3 Credit Hours
Students are introduced to strategies adopted by public health professionals to study distribution and identification of important biologic, social and environmental determinants of diseases and health-related states within specific populations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 20010 INTRODUCTION TO PUBLIC HEALTH INFORMATICS 3 Credit Hours
Provides an overview of informatics principles applied in public health settings. Issues addressed include definitions, approaches, competencies, applications and the national health information network. Topical areas are digital literacy, electronic communication, system development, information use, project management, procurement, accountability, research, data standards, databases, human resource management, and confidentiality and security.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 20015 ZOMBIE OUTBREAK 3 Credit Hours
Teaches the basic survival skills necessary to protect you, your family, and the public from a variety of natural and manmade “apocalypses”. Students apply the basics of emergency Public Health management to a zombie outbreak.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 20195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for credit) Subject varies depending on the emerging issue.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PH 20392 COMMUNITY HEALTH WORKER CERTIFICATION II-INTERNSHIP (ELR) 3 Credit Hours
Internship course providing necessary contact hours for the Ohio Community Health Worker Certification.
Corequisite: PH 23000.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PH 22001 PLAGUES AND PANDEMICS: HOW INFECTION SHAPED CULTURE AND HISTORY 3 Credit Hours
Infectious diseases continue to affect us all in the present, and plagues have shaped the course of history. From the Justinian plague in the 6th Century to the decimation of Native populations in the US by smallpox to the 1918 influenza pandemic, human history has been influenced by microbes—and our culture, in turn, can affect the generation of new plagues. This course is appropriate both for humanities majors looking for an introduction to infectious diseases as well as science majors looking to better understand infectious diseases in their historical and cultural context, and the way these diseases have (and continue to) shape history. Ultimately, students should be able to understand the basics of infectious disease epidemiology and disease control within a wide cultural and historical context. The course will encompass various topics in microbiology and infectious disease, using primarily popular non-fiction books on these subjects as sources.
Prerequisite: None.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 23000 COMMUNITY HEALTH WORKER CERTIFICATION I 3 Credit Hours
Students are guided through the competencies of a Community Health Worker (CHW). Students are introduced to soft skills and culture including, but not limited to, basic health care, community resources, advocacy, communication and service skills related to working with communities. Lifespan development is also covered including, but not limited to, basic health information and education regarding prevention and treatment throughout the lifespan.
Prerequisite: None.
Corequisite: PH 20392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 25092 PUBLIC HEALTH FIELD EXPERIENCE II (ELR) 1-3 Credit Hours
(Repeatable for credit) Mid-level internship experience in a public health setting under the supervision of a site preceptor and university supervisor. Students gain experience in public health work.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PH 30000 PUBLIC HEALTH PROFESSIONAL PRACTICE II 1 Credit Hour
Professional development course designed to further prepare future public health leaders to the diverse field of public health. The career portfolio will be further developed. Career goals will be re-evaluated and the strategies for goal attainment reassessed. The understanding of public health as a profession will be further developed. Graduate or professional education as an option will be discussed in greater detail.
Prerequisite: PH 20000; and junior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 30002 INTRODUCTORY BIOSTATISTICS 3 Credit Hours
An introduction to statistical methodology in the field of public health. Students learn the statistical skills to read scientific articles, understand the statistical methods used and interpret the results on their own.
Prerequisite: Any Kent Core Mathematics and Critical Reasoning course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30004 PUBLIC HEALTH RESEARCH 3 Credit Hours
Approaches and steps involved in defining public health problems and conducting research about these problems. Students are introduced to how to evaluate published public health research.
Prerequisite: ENG 21011 or HONR 10297; and PH 30002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30005 SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH 3 Credit Hours
An overview of the contributions of the social and behavioral sciences to human health behavior, including application of studies in the area of health promotion, health protection and disease prevention in public health.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30006 INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY 3 Credit Hours
Introduction to the environment at risk, environmental epidemiology, environmental toxicology, environmental policy and regulation, watershed management, safe drinking water, wastewater management, vector-born and zoonotic disease, air quality, solid and hazardous waste, food protection, radiation safety and injury prevention, occupational health and safety, total worker health and the built environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30007 PREVENTION AND CONTROL OF DISEASES 3 Credit Hours
Provides an overview of concepts involved in biological mechanisms of disease at cell, individual and community levels, and insight into strategies used in preventing and controlling diseases at the population and/or community level within this framework.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30009 ENVIRONMENTAL HEALTH AND SAFETY REGULATIONS AND POLICY 3 Credit Hours
Develops a framework for understanding the regulatory structure of environmental and occupational health and safety regulations and policy in the U.S. Federal, state, and local levels of government are reviewed as well as major agencies and regulations.
Prerequisite: PH 30006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30012 COMMUNICABLE DISEASES 3 Credit Hours
A survey of communicable diseases of global public health significance, including the epidemiology and forensics associated with disease transmission, vaccination strategies and practices, and human responses to infectious disease. Students are introduced to infectious disease pathogens and the practices and procedures for their surveillance, handling and control.
Prerequisite: PH 20001 and 30007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30014 STRATEGIES FOR PREVENTION IN PUBLIC HEALTH 3 Credit Hours
Provides a review of population strategies for health promotion and disease prevention from a social-ecological perspective, highlighting the importance of evidence-based, equitable, and ethical approaches.
Prerequisite: PH 30007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30015 UNITED STATES HEALTH CARE SYSTEM 3 Credit Hours
Provides an overview of the U.S. healthcare delivery system, including operations, stakeholders and the role of government with a particular emphasis on public health's role in health care. Students gain an understanding of inpatient and outpatient services, the various roles of healthcare professionals, private and public financing and the impact of managed care. The primary focus is the public health system.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30020 FUNDAMENTALS OF HEALTH PRIVACY 1 Credit Hour
This course will provide an overview of compliance in healthcare privacy and security within the context of the Health Insurance Portability and Accountability Act (HIPAA). Current topics such as electronic health records and the challenges posed by social media will be explored.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 30025 FUNDAMENTALS OF HEALTHCARE COMPLIANCE 1 Credit Hour
This course will provide an overview of fraud, waste, and abuse compliance in the healthcare industry. The practical and legal basis for compliance programs will be explored as well as their creation, implementation, and maintenance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 30033 PUBLIC HEALTH POLICY AND DECISION MAKING 3 Credit Hours
An introductory survey of the formulation to implementation of public health policies for various public health issues, and the use of practical administrative tools such as strategic planning, economic evaluation and decision analysis.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30102 AIR QUALITY AND POLLUTION CONTROL 3 Credit Hours
Basic survey of air pollution and its control. The respiratory system and the bodies response to air pollutants of different types is reviewed and related illnesses such as asthma are studied. The Clean Air Act, NESHAPS and related regulations are surveyed. Ambient air quality standards, the effect of climate and other air pollution concepts are reviewed. Measurement and control methods for both particulate and gaseous contaminants are surveyed.
Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

PH 30106 ENVIRONMENTAL TOXICOLOGY 3 Credit Hours
Basic toxicological principles applied to studies of environmental health are surveyed. Basic concepts of toxicological testing, dose response, animal and other models, dose curves, LD50's, risk assessment, threshold theories, classifications of harmful effects, environmental pathways, metabolism and elimination are reviewed. Biological effects and the effect of select toxins on body systems are reviewed. Major groups of toxins and their effects are reviewed. Toxin behavior in air, water, wastewater, soil and environmental media are studied.
Prerequisite: PH 30006.
Schedule Type: Laboratory, Lecture
Contact Hours: 2.8 lecture, .2 lab
Grade Mode: Standard Letter

PH 30110 HAZARDOUS MATERIALS MANAGEMENT 3 Credit Hours
Covers the use of hazardous materials. Emphasis is on the safe management of hazardous materials in the workplace and community, their procurement, storage, regulation, pollution problems, use, release, clean up, disposal, and their control, to prevent workplace and community health and safety problems.
Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 lab
Grade Mode: Standard Letter

PH 30195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for credit) Subject varies depending on the emerging issue.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PH 32005 EMERGING ISSUES IN COMMUNITY HEALTH 3 Credit Hours
Provides students with exposure to touchstone issues in public health programming that have social and behavioral science implications. Topics reflect emergent priority areas and are expected to vary from semester to semester. Examples of current, emerging issues that may be covered include the Healthy People 2020 initiative, leading health indicators, role of CDC, state and local health departments and NGOs in promoting health behaviors, program recruitment, retention, evaluation and generalization challenges, ethical issues including informed consent and voluntary change, funding challenges for prevention programs, grant writing exposure, role of politics in public health programming, evidenced-based practices and practice-based evidence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 34001 PUBLIC HEALTH INTERVENTIONS I 3 Credit Hours
Provides an overview of the planning and development of public health interventions including environmental, social, and behavioral public health issues from a social-ecological perspective, with attention to evidence-based, theoretical, and ethical approaches.
Prerequisite: PH 30005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 34002 PUBLIC HEALTH INTERVENTIONS II 3 Credit Hours
Provides an overview of public health intervention implementation, evaluation, and sustainability, with examples of public health interventions in practice and exploration into the future of public health interventions.
Prerequisite: PH 34001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 35001 COMMUNITY-BASED PUBLIC HEALTH PRACTICE (ELR) 3 Credit Hours
Course focuses on the fundamentals of applying community engagement, organization, and development principles to create successful community public health interventions. Addresses work in at-risk and diverse communities using methods optimal for public health practice, including public health ethics, faith-based initiatives in community health, community health assessment and measurement methods, coalition building, and frameworks for developing health policy. Will also review the basic principles of health-related non-profit organization management and support.
Prerequisite: None.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PH 35005 ADVOCACY AND ACTIVISM IN PUBLIC HEALTH 3 Credit Hours
Public health advocacy and activism are areas of increasing importance for those in public health at both national and international levels because they offer more direct approaches to achieve lasting social and political change. This course provides a foundation to the theory, evidence-base and strategies that can be harnessed to bring about change to improve the lives and health of populations, and explains how activism has an essential role in public health policy and practice.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 35010 RACISM: A PUBLIC HEALTH CRISIS 3 Credit Hours
Across the US, an increasing number of communities have declared racism as a public health crisis. This declaration is not based on an isolated incident, rather, it is the acknowledgement that racism is structural and has been embedded within the institutional policies and societal norms that are present in our everyday lives. This course will: Recognize racism in the US as a significant cause of poor health, disease, and persistent dis-ease among Black Americans; Explore the relationship between racism and health through a historic accounting of social, political, economic, and environmental conditions post-slavery through current events; and, identify how, research, and advocacy can address anti-Black racism and promote health equity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

PH 40000 PUBLIC HEALTH PROFESSIONAL PRACTICE III 1 Credit Hour
Professional development course designed to launch graduates into the workforce or graduate school. The career portfolio, resume, and cover letters will be finalized. Interviewing and application skills will be developed. Working with a College of Public Health career counselor students will develop job search strategies and begin the application process. Students continuing their education in a graduate program will work on application materials.
Prerequisite: PH 30000; and senior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 40001 SEX: A WICKED PUBLIC HEALTH PROBLEM 3 Credit Hours
(Slashed with HPM 50001) Wicked problems is a term developed during the 1970s by systems thinkers and planners, Horst Rittel and Melvin Webber (1973), to describe complex social problems that are resistant to solution. The term has recently been applied to public health issues that have proven to be difficult to address and are resistant to mitigation. Sexual and reproductive health behaviors, attitudes and cultural norms often produce problems at the individual and population levels that meet the criteria for designation as wicked problems. Effectively addressing these kinds of problems requires a correct understanding and application of public health principles and practices.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40013 CLINICAL EPIDEMIOLOGY BASICS 3 Credit Hours
(Slashed with EPI 50013) Course develops an understanding of clinical research, good clinical practices, research environments and methods used in clinical research. Students gain an understanding of the use of clinical investigation, from the product development stage to the application of investigations in contract research organization. Ethical implications and regulatory issues are examined.
Prerequisite: PH 20001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40014 CLINICAL TRIALS MANAGEMENT 3 Credit Hours
(Slashed with EPI 50014) Course examines the good clinical practices guidelines. Students learn how to conduct and manage clinical trials; understand clinical trials data; develop instruments and protocols; recognize quality control and data issues; know approaches to recruitment, retention and participant assessment; identify adverse events and measurement of response variables; and acquire skill in study close-out procedures.
Prerequisite: PH 40013.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40015 SCIENTIFIC WRITING FOR CLINICAL RESEARCH 3 Credit Hours
(Cross-listed with EPI 50015) Course provides students the tools to develop proficiency in scientific reading, to conduct presentations and to demonstrate skill in scientific writing, with the goal of preparing clinical researchers to be able to communicate findings to the science community and the general population. Course includes an examination of the science literature in clinical trials research.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40017 PHARMACOEPIDEMIOLOGY 3 Credit Hours
(Cross-listed with EPI 50017) Introduction to the field of pharmacoepidemiology, which uses epidemiology methods to understand medication use and distribution at the population level. Course examines risk-benefit and epidemiology approaches to examining medication use and therapeutic trials. Drug and device manufacturing to market are explored.
Prerequisite: PH 40013 and PH 40014.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40018 REGULATORY AFFAIRS IN CLINICAL RESEARCH 3 Credit Hours
(Slashed with EPI 50018) Course provides the tools for students to develop an understanding of the researcher and organization responsibility in research and development of clinical trials products. Students understand regulations from the government and industry, privacy concerns, liability and ethical issues related to clinical trials research. Examples from the field are explored in detail.
Prerequisite: PH 40013 and PH 40014.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40060 PUBLIC HEALTH LABORATORY METHODS 3 Credit Hours
(Slashed with EHS 50060) Course introduces the student to the fundamental theory and hands on use to track specimen collection and laboratory analysis. Environmental specimens are examined for their public health importance using classical and modern techniques. Students learn classical laboratory methods and their modern use in the laboratory environment. Examples include culture and microscopic identification of microorganisms, identification of disease vectors, detection of newborn disease and detection of terrorism agents.
Prerequisite: BSCI 30140 or CHEM 10062 or CHEM 10971 or PH 30006.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 1 lab
Grade Mode: Standard Letter

PH 40089 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, post-war trauma, tuberculosis, refugee health, non-communicable disease prevention and environmental contamination.
Prerequisite: PH 10001 and PH 10002; and junior standing; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP
Attributes: Diversity Global, Experiential Learning Requirement

PH 40092 INTERNATIONAL HEALTH PRACTICUM (ELR) 3-6 Credit Hours
(Repeatable for credit) A supervised internship in global/international health.
Prerequisite: PH 10002; and junior or senior standing.
Schedule Type: Practical Experience
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PH 40100 VECTOR-BORNE AND ZOONOTIC DISEASES (ELR) 3 Credit Hours
Presents a broad overview of major considerations related to human health and the vector-borne diseases transmitted by rodents and arthropods (insects and arachnids). Control measures, including rodent control, local mosquito control programs, and integrated pest management (IPM) concepts with safe pesticide use are reviewed. Application of FIFRA regulations are presented. An overview of issues associated with zoonotic diseases transmitted by animals, such as rabies, and their control are also included. Vector and reservoir relationships are explored.
Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PH 40102 SOLID AND HAZARDOUS WASTE MANAGEMENT 3 Credit Hours
(Slashed with EHS 50102) Solid and hazardous waste programs and practices are explored. Pollution prevention, safety, sanitation practices, sustainability concepts, management and regulations pertinent to solid and hazardous waste such as RCRA are discussed and studied. Consumption, garbage handling, landfill design and disposal, sustainability concepts, reuse, recycling, composting and other waste strategies are presented. Hazardous waste and material issues throughout the environment, such as HW disposal, TSD facilities, underground storage tanks, Superfund, brownfields and related issues are introduced.
Prerequisite: PH 30006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40103 FOOD PROTECTION (ELR) 3 Credit Hours
(Slashed with EHS 50103) Topics surrounding foodborne disease prevention and food sanitation relative to quality control, food service and processing systems are introduced. Foodborne disease agents, microbiology, epidemiology and outbreak investigation techniques are explored. The regulatory process and agencies at the wholesale, retail and food service levels are introduced. Ohio food regulations are covered, including the Ohio Uniform Food Code. Basic preparation to conduct food serve inspections and foodborne disease investigations as part of agency regulatory programs and the opportunity to earn the National Restaurant Association ServSafe Manager certification are provided.
Prerequisite: PH 30006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PH 40105 WATER AND WASTEWATER MANAGEMENT (ELR) 3 Credit Hours
(Slashed with EHS 50105) Explores issues surrounding water pollution and human health and the environmental treatment systems developed to provide safe water and sewage disposal. Private and public water and sewage systems are studied. Federal and state regulations, including the Safe Drinking Water Act and Clean Water Act, are reviewed.
Prerequisite: PH 30006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PH 40109 LABORATORY SAFETY AND HYGIENE 3 Credit Hours
(Crosslisted with EHS 50109) Basic introduction to laboratory safety, chemical hygiene, and biosafety. Includes the research compliance programs of institutions (IBC, IACUC, IRB, RSC) and the OSHA Chemical Hygiene Standard requirements and program responsibilities. General lab safety concepts are reviewed, along with chemical handling and storage, fumehoods and ventilation, hazardous waste disposal, radiation safety, and lab design. Basic principles of biosafety are covered, BSL 1-4 levels, biosafety cabinets, select agents, bloodborne pathogens, NIH Guidelines, biosecurity and animal use.
Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

PH 40110 INTRODUCTION TO PUBLIC MENTAL HEALTH 3 Credit Hours
(Slashed with HPM 50110) This course provides a broad overview of mental health from a public health perspective. The course is an introduction to population-based (or population-level) approaches to addressing mental health and supporting wellness. More specifically, the course discusses mental health from a public health perspective, including discussion of non-clinical interventions and programs designed to improve mental health and wellness of populations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40191 SEMINAR IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for credit) Seminar on current and important topics in public health. Subject matter varies depending on topic.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PH 40195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for credit)Subject varies depending on the emerging issue.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PH 40196 INDIVIDUAL INVESTIGATION IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for maximum 6 credits) Individual undergraduate investigation or research on specific public health issues.
Prerequisite: Junior or senior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PH 41000 ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT 3 Credit Hours
Entails leadership and management principles in environmental and occupational health and safety (EOHS), and helps students develop skills needed to become an effective supervisor. Issues such as regulatory structure, program and community planning, policy development, budgeting, staffing and staff development, strategic planning, training, professionalism and assessment are reviewed. Board development, dealing with difficult people and situations, legal, social, political, and economic effects on EOHS programs are dealt with. Related issues such as ethics, human resources, workers comp, court appearances, media relations and communications are reviewed.
Prerequisite: PH 30006 and 30102 and 30105 and 30106; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 41092 FIELD EXPERIENCE IN MEETING THE BASIC HEALTH AND HUMAN NEEDS (ELR) 3 Credit Hours
(Repeatable for credit) Provides practical skills in simple, affordable appropriate technologies that can offer solutions for meeting basic health and human needs in the developing world at the household and community levels. Technologies are organized into five modules: 1) food, agriculture, and nutrition; 2) water and sanitation; 3) alternative household energy; 4) primary health care; and 5) community development needs and resource assessment. All five modules cover appropriate technologies that while meeting the basic needs have significant impact on health of the individuals and communities. Principles of participatory community development and sensitivity to cross-cultural, gender, and ecological issues are emphasized throughout the training.
Prerequisite: Special approval.
Schedule Type: Field Experience
Contact Hours: 8 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PH 42010 UNDERSTANDING THE COVID-19 PANDEMIC 3 Credit Hours
(Slashed with EPI 52010) In this course, students examine the various aspects of the ongoing coronavirus pandemic. They learn foundational information in epidemiology, virology and immunology, and examine the emergence and spread of SARS-CoV-2. They learn about responses to the epidemic, including policies aimed at slowing spread, and examine aspects of diagnostics and vaccine development relevant to controlling the spread of the virus.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 42092 ENVIRONMENTAL, OCCUPATIONAL, HEALTH AND SAFETY INTERNSHIP (ELR) 4-6 Credit Hours
The purpose of the environmental and occupational health and safety internship is to supplement the student in-class learning experiences with practical hand-on skills and work practice experiences that helps them develop the environmental competencies required for success in the field.
Prerequisite: Junior or senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 13.33-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PH 42100 CLIMATE CHANGE AND POPULATION HEALTH 3 Credit Hours
(Slashed with EHS 52100) This course reviews evidence on the rigorous scientific consensus confirming global warming and the mechanisms underlying climate change, with a focus on adverse population health impacts. Increases in the frequency and intensity of extreme weather events including heatwaves, tropical cyclones and severe storms create hazardous conditions including flooding, drought, wildfires, increases in vector-borne diseases, food and nutrition shortages, human displacement and mental health issues. Populations at increased risk are identified along with a consideration of climate ethics, justice and public health approaches used to address the population health effects. Strategies for abatement through injury and disease prevention, climate risk communication and strategies for mitigation including green energy and energy conservation are examined.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 43013 BUILT ENVIRONMENT AND PUBLIC HEALTH 3 Credit Hours
(Slashed with EHS 53014) The impact of the built environment on human health is an issue of global importance. The focus of this course is on preventing disease and injury while improving the health of populations by looking “upstream” at the built environment or those settings designed, created and maintained by human efforts. Population health effects of community design are explored through scientific literature, and include transportation, land use, parks and green space in the context of physical activity, food environments, air and water quality, injury prevention, social capital and health equity. Students examine and use population health tools to assess the built environment and develop strategies for creating sustainable healthy places through multidisciplinary collaboration, research and policy that promotes the health of the public.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 43014 PUBLIC HEALTH AND MASS INCARCERATION 3 Credit Hours
This course will examine incarceration using a public health lens. Students will examine the epidemiology of mass incarceration in the U.S., infectious and chronic diseases of those incarcerated, incarceration as a self-sustaining epidemic with generations of imprisonment, access to health care of those behind bars and on release, and the contagion of punishment including collateral damage to children, families and neighborhoods. The course will conclude with a public health model for ending mass incarceration.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 43089 PLAGUES THAT SHAPED THE WORLD (DIVG) (ELR) 3 Credit Hours
(Slashed with EPI 53089 and and EPI 73089) Course examines the Bubonic plague, HIV/AIDS, Ebola and pandemic influenza outbreaks to introduce students to the fundamentals of public health, establishing epidemiological principles that explain how plagues erupt and propagate, decimate populations and alter cultures. Inherent in the course's discussion are the social determinants that fuel plague outbreaks and slow recovery. Examples of emerging infectious diseases and threats of bioterrorism are discussed as new plagues for which creative solutions are still required. Students take city excursions and a field trip to assess cultural changes resulting from historical plagues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

PH 43092 INTERNSHIP IN CLINICAL TRIALS RESEARCH (ELR) 3-6 Credit Hours
The internship will place students in a clinical trials setting (e.g., contract research organization, hospital, or academic setting) where they can gain hands on experience conducting clinical trials and clinical research. The internship is 300 hours and can be taken in the last one to two semesters. The purpose of the internship is to provide the student with practical experiences that will make them marketable for a position in clinical research upon graduation.
Prerequisite: PH 40013 and PH 40014.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PH 44000 HEALTH DISPARITIES (DIVD) (WIC) 3 Credit Hours
Understanding the factors involved in health disparities at the national and global level, and the impact of health disparities on public health.
Prerequisite: ENG 21011 or HONR 10297; and 15 credit hours of public health courses; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Writing Intensive Course

PH 44003 ENVIRONMENTAL HEALTH ISSUES IN LOW- AND MIDDLE-INCOME COUNTRIES 3 Credit Hours
Covers the important environmental health issues of concerns in low- and middle-income countries and appropriate intervention strategies. Topics include clean drinking water and sanitation, indoor air pollution, outdoor air pollution, environmental management, sustainability and health.
Prerequisite: Public health or anthropology major; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44004 GLOBAL HEALTH IMMERSION: LATIN AMERICA 3 Credit Hours
The principal objective of this summer intersession course is to immerse students into the history, culture and public health systems of Latin American countries Colombia Ecuador. Students will have the opportunity to visit major cities, i.e., Cali, Colombia, and Quito, Ecuador, rural areas, and well-known tourist destinations (Cartagena, Colombia, Otavalo, Ecuador). Students will gain an understanding of current scientific research on tropical diseases of local public health relevance, such as malaria. The course will focus on the basic biology of disease, mechanisms of transmission (epidemiology), and efforts to develop vaccines against malaria. The course is designed primarily for sophomores, juniors and seniors who are public health, nursing, or biological science majors. Master's level students will also be accepted. Knowledge of basic Spanish language is useful but not necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44005 LEGAL ASPECTS OF HEALTH SERVICES MANAGEMENT 3 Credit Hours
Provides an overview of legal and regulatory essentials in health services management. Provides a historical perspective on legal aspects of health care as well as an introduction to law, tort law, criminal aspects, contracts, civil procedure and trial practice as related to health care. Students examine how liability impacts corporate structures, health departments and health care professionals and examine issues related to patient consent, legal reporting requirements, labor relations and patient rights.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44010 PUBLIC HEALTH PLANNING AND FINANCE 3 Credit Hours
Introduces students to business planning of health services. Students obtain skills in public health financial decision-making, including general principles of public health accounting, budgeting and financial planning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44015 PUBLIC HEALTH MANAGEMENT 3 Credit Hours
Provides an overview of management and leadership concepts, principles and practice as applied to public health management. Students learn basic skills in team-building, developing board relationships, strategic planning, fiscal management, marketing, conflict resolution and negotiation in healthcare management. Coursework integrates principles of ethics and professionalism, effective communication, managing complex and culturally diverse workplaces and the changing role of public health managers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44020 PUBLIC HEALTH ETHICS IN PRACTICE, POLICY AND RESEARCH 3 Credit Hours
Provides an introduction to public health ethics, including the key foundations, concepts and frameworks for evaluating ethical issues in the public health setting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44025 PRINCIPLES OF PUBLIC HEALTH LEADERSHIP 3 Credit Hours
Designed to introduce students to skill-sets and leadership practices necessary for successful public health leadership, with an emphasis on leading positive and sustainable change in real world situations. It also familiarizes students with key aspects of partnership building and advocacy for the purposes of improving health. Particular stills include coalition/partnership development, health advocacy, team building, mentoring and leadership.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44092 INTERNSHIP IN PUBLIC HEALTH (ELR) 3-6 Credit Hours
(Repeatable for credit) Capstone internship experience in a public health setting under the supervision of a site preceptor and university supervisor. Students gain experience in public health work.
Prerequisite: Senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PH 45092 SERVICE LEARNING PRACTICUM IN COMMUNITY-BASED PUBLIC HEALTH (ELR) 3 Credit Hours
This course is designed to provide an opportunity for students to engage in a variety of public health settings under the supervision of faculty. The practicum experience is focused on developing skills needed to implement change to improve population health, providing a setting in which students may integrate and apply the skills and knowledge acquired through their coursework. Students will be exposed to some of the benefits and challenges encountered by public health professionals on a routine basis.
Prerequisite: Junior or senior standing.
Corequisite: PH 35001.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PH 49000 CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR) 3 Credit Hours
Case studies of various strategies used in addressing various public health issues are discussed within an evaluative framework.
Prerequisite: 21 credit hours of public health courses; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PH 60172 PRACTICUM SEMINAR IN PUBLIC HEALTH 1 Credit Hour
(Repeatable 6 times for credit) Seminar component of the Practicum Experience; course must be taken at the same time as the Practicum Experience; students prepare a final portfolio and seminar presentation integrating theory and practice.
Prerequisite: Graduate standing.
Corequisite: PH 60192.
Schedule Type: Lecture
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PH 60192 PRACTICUM EXPERIENCE 5 Credit Hours
(Repeatable for credit) Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: Graduate standing.
Corequisite: PH 60172.
Schedule Type: Practical Experience
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PH 61199 INTEGRATIVE LEARNING EXPERIENCE 1 Credit Hour
Students complete an integrative learning experience that demonstrates a synthesis of foundational and concentration competencies. Students, in consultation with faculty, select foundational and concentration-specific competencies appropriate to the student's educational and professional goals.
Prerequisite: 30 credit hours of Biostatistics (BST) or Environmental Health Sciences (EHS) or Epidemiology (EPI) or Health Policy and Management (HPM) or Social and Behavioral Sciences (SBS) courses; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PH 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Registration for two semesters required, first semester dissertation work beings and continues until completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PH 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Radiologic and Imaging Science (RIS)

RIS 34001 INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY 1 Credit Hour
Provides an introduction to diagnostic medical sonography. The course orients new students to the profession. Topics covered include basic sonographic principles, scanning technique, and introduction patient management techniques.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RIS 34003 RADIATION THERAPY PRINCIPLES AND PRACTICE I 3 Credit Hours
An overview of cancer, radiation therapy and its physical and technical aspects. Includes the roles/responsibilities of the therapist, treatment parameters, documentation and delivery of patient care, education and procedures.
Prerequisite: Radiologic and imaging sciences major.
Corequisite: RIS 34030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

RIS 34004 RADIATION THERAPY PATIENT MANAGEMENT 3 Credit Hours
Provides the basic concepts in patient assessment and evaluation. Includes communication skills, infection control, nutrition, medications, exams, emergencies, patient transfer techniques, medical ethics and law as applied to radiation therapy.
Prerequisite: Radiologic and imaging sciences major.
Corequisite: RIS 34030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

RIS 34008 RADIATION THERAPY PHYSICS I 3 Credit Hours
Introduction to radiation therapy physics, including the fundamentals of atomic structure, radiation properties, radiation production, radiation quality, interactions of radiation with matter and principles of radiation detectors.
Prerequisite: Radiologic and imaging sciences major.
Corequisite: RIS 34030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34030 RADIATION THERAPY CLINICAL EDUCATION I 1 Credit Hour
Observation and supervised clinical education with emphasis on administering radiation therapy treatments and patient care.
Prerequisite: Radiologic and imaging sciences major; and special approval.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 2.5 lab, 5 other
Grade Mode: Standard Letter-IP

RIS 34040 PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY 3 Credit Hours
Methods of patient management in diagnostic medical sonography are examined with emphasis on patient communication, clinical assessment, medical legal aspects, medical records, emergencies, pharmacology, safety issues, ethics and critical thinking.
Prerequisite: Radiologic and imaging sciences major.
Corequisite: RIS 34045.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34042 ABDOMINAL SONOGRAPHY I 3 Credit Hours
Anatomy, physiology and pathology of the abdomen; instrumentation and scanning techniques; normal and abnormal sonographic appearances of abdominal structures will be presented.
Prerequisite: Radiologic and imaging sciences major.
Corequisite: RIS 34045.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34044 ULTRASOUND PHYSICS AND INSTRUMENTATION 3 Credit Hours
Ultrasound principles to include interaction of sound with matter, propagation of sound in tissue, physical units, transducer parameters, image storage and display, quality assurance, bioeffects, image artifacts and physical principles of doppler.
Prerequisite: Radiologic and imaging sciences major.
Corequisite: RIS 34045.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34045 ULTRASOUND CLINICAL EDUCATION I 2 Credit Hours
Provides clinical education and experience at a lab and clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols on patients and to identify image quality problems. Content includes sonography of the liver, gallbladder, pancreas and spleen.
Prerequisite: Radiologic and imaging sciences major; and special approval.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 3 lab, 1 other
Grade Mode: Standard Letter-IP

RIS 34052 ABDOMINAL SONOGRAPHY II 3 Credit Hours
Continuation of RIS 34042; anatomy, physiology and pathology of the abdomen; instrumentation and sonographic scanning techniques; normal and abnormal sonographic appearance of abdominal structures will be presented.
Prerequisite: RIS 34042; and radiologic and imaging sciences major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34060 ULTRASOUND CLINICAL EDUCATION II 4 Credit Hours
Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. Content includes sonography of the abdominal vessels, kidneys, adrenal glands, lymphatics and gynecologic pelvis.
Prerequisite: RIS 34045.
Corequisite: RIS 34052.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 3 lab, 5 other
Grade Mode: Standard Letter-IP

RIS 34062 OBSTETRICS AND GYNECOLOGY SONOGRAPHY I 3 Credit Hours
Anatomy and pathophysiology of the non-pregnant female pelvis; instrumentation and scanning techniques; normal and abnormal sonographic appearances; and findings of the female reproductive tract are covered.
Prerequisite: RIS 34045; and radiologic and imaging sciences major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34072 SUPERFICIAL STRUCTURES SONOGRAPHY 2 Credit Hours
Anatomy and pathophysiology of superficial structures; instrumentation and scanning techniques; normal and abnormal sonographic appearances of superficial structures; correlation with laboratory findings and other imaging modalities are presented. Introductory pediatric sonographic techniques and pathology are presented.
Prerequisite: RIS 34083.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 34075 ULTRASOUND CLINICAL EDUCATION III 2 Credit Hours
Provides clinical education and experience at clinical sites to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to evaluate image quality. Content includes first, second and third trimester obstetric sonography and superficial structures sonography.
Prerequisite: RIS 34062.
Corequisite: RIS 44072.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 2 lab, 12 other
Grade Mode: Standard Letter-IP

RIS 34083 SECTIONAL ANATOMY IN MEDICAL IMAGING 3 Credit Hours
Presentation of sectional anatomy of the body in the transverse (axial), sagittal and coronal planes as seen in medical images in CT, MRI and diagnostic medical sonography.
Prerequisite: BSCI 11010 and BSCI 11020; or BSCI 21010 and BSCI 21020; and radiologic and imaging sciences major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34084 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I 2 Credit Hours
Presentation of sectional anatomy of the human body in computed tomography and magnetic resonance imaging. Includes orientation of organs and structures and pathological processes present in images.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 34086 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II 2 Credit Hours
Presentation of sectional anatomy of the human body in computed tomography and magnetic resonance imaging. Includes orientation of organs and structures and pathological processes present in images as seen in the extremities.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 41095 SPECIAL TOPICS IN RADIOLOGIC AND IMAGING SCIENCES 1-3 Credit Hours
(Repeatable for credit) Courses will consist of various topics in medical imaging designed to enhance learning outcomes.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

RIS 44000 INTRODUCTION TO RADIATION THERAPY 2 Credit Hours
An introduction to patient care techniques and clinical procedures for freshman entry students admitted to the RIS major in radiation therapy.
Prerequisite: Radiologic and imaging sciences major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44003 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION I 2 Credit Hours
Students observe and become acquainted with Magnetic Resonance Imaging equipment and procedures at the clinical education setting and apply knowledge of physics, Magnetic Resonance Imaging safety and patient care. Students begin to perform some procedures under direct supervision of Magnetic Resonance Imaging technologists.
Prerequisite: Special approval.
Schedule Type: Clinical Laboratory
Contact Hours: 18 other
Grade Mode: Standard Letter-IP

RIS 44004 COMPUTED TOMOGRAPHY CLINICAL EDUCATION I 2 Credit Hours
Provides clinical education and experience at a clinical setting to allow the student the opportunity to become proficient in skills necessary to obtain quality images, to alter protocols based on patient pathology or physical condition and to identify image quality problems and to make appropriate corrections under direct supervision of a Computed Tomography Technologist.
Prerequisite: Special approval.
Schedule Type: Clinical Laboratory
Contact Hours: 18 other
Grade Mode: Standard Letter-IP

RIS 44009 RADIATION THERAPY PRINCIPLES AND PRACTICE II 2 Credit Hours
Examines the multidisciplinary treatment approaches. Consists of advanced topics in therapy, chemotherapy, immunotherapy, and surgery for combined modalities, for benign conditions, for emergencies and for managing side effects.
Prerequisite: RIS 34003.
Corequisite: RIS 44053.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44018 RADIATION THERAPY PHYSICS II 3 Credit Hours
Continuation of the principles of radiation therapy physics and the study of photon beam dosimetry, electron beam dosimetry and treatment planning.
Prerequisite: RIS 34008.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

RIS 44021 PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY 2 Credit Hours
Provides knowledge about care-giving skills for patients undergoing Computed Tomography exams. Information includes effective communication, problem-solving techniques, patient safety/comfort, patient preparation, monitoring, contrast agents and venipuncture.
Prerequisite: Special approval.
Pre/corequisite: RIS 44004.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44028 RADIATION THERAPY RADIOBIOLOGY 3 Credit Hours
Establishes a foundation in radiation biology for radiation therapy. Cell biology and its response to radiation are reviewed as well as the effect of radiation on pathology and body systems.
Prerequisite: RIS 44018.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

RIS 44029 RADIATION THERAPY PATHOLOGY I 3 Credit Hours
General overview of various disease processes with emphasis on cancer types. Includes epidemiology, etiology, symptoms, metastases, histology, tumor grading, staging, detection, screening and diagnosis, treatment, side effects and prognosis of malignancies of the head and neck, central nervous, respiratory, digestive, and female reproductive systems.
Prerequisite: RIS 34003 and RIS 34083.
Corequisite: RIS 44053.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44030 COMPUTED TOMOGRAPHY IMAGE PRODUCTION I 2 Credit Hours
Computer fundamentals, operations and applications of Computed Tomography equipment. Principles of Computed Tomography system operation and components, image processing and display and image quality.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44031 PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING 2 Credit Hours
Provides information on the role of the MRI technologist in maintaining patient safety and comfort as well as personal and co-worker safety. MR contrast agents and venipuncture will be studied. Includes problem solving with diverse patient types.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44038 RADIATION THERAPY PHYSICS III 3 Credit Hours
Covers concepts of radioactivity and brachytherapy. Describes specialized treatment units Discussion of human resource, therapy department budgets and billing, accreditation, certification, professional societies.
Prerequisite: RIS 44018.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44041 RADIATION THERAPY QUALITY MANAGEMENT 2 Credit Hours
Provides overview of quality management programs and continuing quality improvement in radiation therapy. Topics include validity of quality assurance checks, chart checks, image checks, testing on simulators, linear accelerators and brachytheraphy sources.
Prerequisite: RIS 44018.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

RIS 44042 RADIATION THERAPY PATHOLOGY II 3 Credit Hours
Continuation of Radiation Therapy Pathology I to include epidemiology, etiology, symptoms, metastases, histology, tumor grading, staging, detection, screening and diagnosis, treatment, side effects and prognosis of malignancies of the male reproductive, urinary, endocrine, circulatory, lymphatic, integumentary and musculoskeletal systems as well as pediatric solid malignancies.
Prerequisite: RIS 34083 and RIS 44029.
Corequisite: RIS 44056.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44043 RADIATION THERAPY PRINCIPLES/PRACTICE III 3 Credit Hours
Review and testing of major subject areas from all radiation therapy courses to prepare students to successfully pass the national certification exam based on the content specifications from the American Registry of Radiologic Technologists (ARRT).
Prerequisite: RIS 44009 and RIS 44018 and RIS 44028 and RIS 44042.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44044 MAGNETIC RESONANCE IMAGING PROCEDURES I 2 Credit Hours
Provides the imaging techniques related to the body, special clinical applications, coil selection, scan sequences, protocols, positioning criteria, normal and abnormal anatomical and pathologic structures and signal characteristics for all areas of the body except extremities and vascular areas.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44045 MAGNETIC RESONANCE IMAGING PROCEDURES II 2 Credit Hours
Provides the imaging techniques related to the body, special clinical applications, coil selection, scan sequences, protocols, positioning criteria, normal and abnormal anatomical and pathologic structures and signal characteristics for the extremities and vascular areas.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44047 COMPUTED TOMOGRAPHY PROCEDURES I 2 Credit Hours
Introduction to Computed Tomography procedures with scanning protocols, positioning and non-contrast anatomy.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44048 COMPUTED TOMOGRAPHY PROCEDURES II 2 Credit Hours
Overview of the procedures presented in RIS 44047. Anatomy as seen on scans both with and without contrast media, advanced processing and advanced imaging procedures.
Prerequisite: RIS 44047.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44051 MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I 2 Credit Hours
Develops and understanding of the physics of Magnetic Resonance Image acquisition and the hardware used. Provides information in the use and manipulation of the instrumentation and technical parameters used in the generation of images. Establishes safety procedures.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44052 MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II 2 Credit Hours
Develops an understanding of Magnetic Resonance Image acquisition and the hardware used. Provides information in the use and manipulation of the hardware and technical parameters used in the generation of images. Reviews safety special applications such as advanced imaging techniques. Enables the student to maximize Magnetic Resonance Image quality.
Prerequisite: RIS 44051.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44053 RADIATION THERAPY CLINICAL EDUCATION II 3 Credit Hours
Continuation of Clinical Education I with emphasis on clinical practice of treatment techniques and planning.
Prerequisite: RIS 34030.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 7.5 lab, 15 other
Grade Mode: Standard Letter-IP

RIS 44054 COMPUTED TOMOGRAPHY CLINICAL EDUCATION II 2 Credit Hours
Provides continued clinical education and experience at a clinical setting to allow the student the opportunity to become proficient in skills necessary to obtain quality images, to alter protocols based on patient pathology or physical condition, and to identify image quality problems and to make appropriate corrections under direct supervision of a Computed Tomography Technologist. Prerequisite: Special Approval
Schedule Type: Clinical Laboratory
Contact Hours: 18 other
Grade Mode: Standard Letter-IP

RIS 44058 RADIATION THERAPY CLINICAL EDUCATION III 2 Credit Hours
Continuation of Clinical Education II with added emphasis on critical thinking, problem solving and clinical competency.
Prerequisite: RIS 44053.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 5 lab, 10 other
Grade Mode: Standard Letter-IP

RIS 44062 COMPUTED TOMOGRAPHY IMAGE PRODUCTION II 2 Credit Hours
A continuation of RIS 44030, the course reviews basic computed tomography components, operations and applications, with advanced studies in post-processing techniques and image quality, while understanding the importance of radiation dose and quality control in computed tomography.
Prerequisite: RIS 44030.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44063 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION II 2 Credit Hours
Continuation of RIS 44003. Students apply knowledge of patient care, anatomy and pathology, equipment and image acquisition when observing and performing Magnetic Resonance Imaging procedures clinically.
Prerequisite: Special approval.
Schedule Type: Clinical Laboratory
Contact Hours: 18 other
Grade Mode: Standard Letter-IP

RIS 44066 MAGNETIC RESONANCE IMAGING TECHNIQUES 2 Credit Hours
Integrates concepts of Magnetic Resonance Imaging including patient care, imaging procedures, data acquisition and processing as well as principles of image formation for review for the national certification exam in Magnetic Resonance Imaging.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44067 RADIATION THERAPY CLINICAL EDUCATION IV 3 Credit Hours
Continuation of Clinical Education III with added emphasis on critical thinking, problem solving and clinical competency.
Prerequisite: RIS 44058.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 2 lecture, 7.5 lab, 15 other
Grade Mode: Standard Letter-IP

RIS 44068 COMPUTED TOMOGRAPHY TECHNIQUES 2 Credit Hours
Students will review knowledge in each content area of the national certification exam in Computed Tomography including patient management, imaging procedures and physics and instrumentation.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44069 COMPUTED TOMOGRAPHY CLINICAL EDUCATION III 1 Credit Hour
Allows students to advance clinical education skills and experiences at a clinical setting in order to obtain quality images, objectively alter protocols based on patient pathology or physical condition, and to identify image quality problems and to make appropriate corrections under the direct supervision of a Computed Tomography Technologist.
Prerequisite: RIS 44054.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 6 other
Grade Mode: Standard Letter-IP

RIS 44072 OBSTETRICS AND GYNECOLOGY SONOGRAPHY II 3 Credit Hours
Embryonic and fetal development throughout gestation; fetal measurements, normal fetal anatomy and physiology; and abnormal sonographic appearances of the fetus will be covered as well as invasive obstetric procedures and antepartum testing.
Prerequisite: RIS 34062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44073 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION III 1 Credit Hour
Continuation of RIS 44063 with student advancing skills and proficiency in performing Magnetic Resonance Imaging procedures in the clinical setting and are able to solve problems in a more independent manner.
Prerequisite: RIS 44063.
Schedule Type: Clinical Laboratory
Contact Hours: 6 other
Grade Mode: Standard Letter-IP

RIS 44074 VASCULAR SONOGRAPHY 2 Credit Hours
Anatomy, physiology and hemodynamics of the cerebrovascular, abdominal and peripheral vascular systems; normal and abnormal sonographic vascular appearances; Doppler instrumentation and scanning techniques are covered.
Prerequisite: Radiologic and imaging science major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44076 ULTRASOUND CLINICAL EDUCATION IV 4 Credit Hours
Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. Content includes abdominal, pelvic, obstetrical, superficial structure and vascular sonography.
Prerequisite: RIS 34075.
Corequisite: RIS 44074.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 4 lab, 24 other
Grade Mode: Standard Letter-IP

RIS 44078 SONOGRAPHIC TECHNIQUES 3 Credit Hours
Course integrates diagnostic medical sonography concepts in preparation for certification exams.
Prerequisite: RIS 34044 and 34052 and 44072.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44083 PATHOPHYSIOLOGY FOR MEDICAL IMAGING 3 Credit Hours
Provides students with basic information on the causes of disease and the body's response to disease, as well as the medical imaging modalities that will demonstrate them.
Prerequisite: RIS 34045 or RIS 44003 or RIS 44004; and radiologic and imaging science major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44084 ULTRASOUND IMAGE EVALUATION 1 Credit Hour
Presentation of sonographic findings in specific disease processes, with evaluation of image quality and emphasis on diagnostic features of pathologic entities.
Prerequisite: Radiologic and imaging science major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RIS 44088 LEADERSHIP IN MEDICAL IMAGING 1 Credit Hour
An introduction to the key strategies needed for success in health care leadership positions for both new and seasoned professionals. Includes supervision skills, competent communication, employment law, performance coaching, quality standards, accreditation and regulations, budgeting and finance, project management, leadership skills and health economics.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RIS 44092 COMPUTED TOMOGRAPHY/MAGNETIC RESONANCE INTERNSHIP (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience in a job related to the student's training. Student works with an organization for a minimum of 45 hours for each hour of credit.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

RIS 44096 INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS 3 Credit Hours
(Repeatable for credit) Students are assigned prescribed number of medical imaging journal articles, completes post test and submits a summary paper and online discussions.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

RIS 44098 RESEARCH IN MEDICAL IMAGING (ELR) (WIC) 3 Credit Hours
Fundamental concepts and procedures for systematic collection, analysis critique and application of qualitative and quantitative data in medical imaging.
Prerequisite: RIS 34030 or RIS 34045 or RIS 44003 or RIS 44004; and radiologic and imaging science major.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

Radiologic Technology (RADT)

RADT 14003 INTRODUCTION TO RADIOLOGIC TECHNOLOGY 2 Credit Hours
Introduction to radiologic technology program, general anatomy, radiographic procedures, imaging equipment and techniques, radiation protection, professional organizations and clinical education.
Prerequisite: Admission to technical study; and radiologic technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, .5 lab
Grade Mode: Standard Letter

RADT 14005 CLINICAL EDUCATION I 1 Credit Hour
Supervised observation and experience at the clinical education site with an emphasis on clinical practice of basic skills of radiologic technology and the exams covered in RADT 14006.
Prerequisite: None.
Schedule Type: Clinical Laboratory
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

RADT 14006 RADIOGRAPHIC PROCEDURES I 1 Credit Hour
Introduction to radiographic procedures and positioning of the chest, abdomen, fingers, hand and wrist.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.2 lecture, 1.2 lab
Grade Mode: Standard Letter

RADT 14015 CLINICAL EDUCATION II 3 Credit Hours
Continuation of RADT 14005 with emphasis on skeletal radiography, including upper and lower extremities, shoulder and pelvic girdles, vertebral spine and bony thorax.
Prerequisite: RADT 14005 and RADT 14006 with a minimum C grade.
Schedule Type: Clinical Laboratory
Contact Hours: 27 other
Grade Mode: Standard Letter-IP

RADT 14016 PATIENT CARE MANAGEMENT 2 Credit Hours
Interpersonal communication, history taking, medical/legal issues in radiology, physical assistance, patient monitoring, vital signs, patient tubes/catheters, infection control, aseptic and non-aseptic techniques, sterile procedures, tube and line insertions, medical emergencies and pharmacology.
Prerequisite: RADT 14003 with a minimum C grade.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

RADT 14018 IMAGING EQUIPMENT 2 Credit Hours
A study of the equipment used in radiographic imaging including x-ray tubes, x-ray filters, beam restrictors, grids, image receptors, fluoroscopic and mobile equipment and methods of quality control.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.8 lecture, .2 lab
Grade Mode: Standard Letter

RADT 14021 RADIOGRAPHIC PROCEDURES II 4 Credit Hours
Radiographic anatomy, positioning and image evaluation of the upper extremities, shoulder girdle, lower extremities, pelvic girdle, vertebral spine and bony thorax.
Prerequisite: RADT 14006 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3.6 lecture, 2.4 lab
Grade Mode: Standard Letter

RADT 14024 RADIOGRAPHIC PROCEDURES III 4 Credit Hours
Radiographic anatomy, positioning, procedures and image evaluation of the gastrointestinal, biliary and urinary systems and skull and facial bones positioning.
Prerequisite: RADT 14021 with a minimum C grade.
Corequisite: RADT 14025.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3.6 lecture, 2.4 lab
Grade Mode: Standard Letter

RADT 14025 CLINICAL EDUCATION III 3 Credit Hours
Continuation of RADT 14015 with emphasis on the clinical practice of previous course content plus digestive, biliary and urinary procedures as well as skull and facial bones positioning.
Prerequisite: RADT 14015 with a minimum C grade.
Corequisite: RADT 14024.
Schedule Type: Clinical Laboratory
Contact Hours: 27 other
Grade Mode: Standard Letter-IP

RADT 14034 IMAGE ACQUISITION AND PROCESSING 2 Credit Hours
Study of the technical factors and process of image acquisition, factors affecting image quality, processing of digital images and data management.
Prerequisite: RADT 14018.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

RADT 14085 CLINICAL EDUCATION IV 2 Credit Hours
Continuation of RADT 14025 with emphasis on clinical practice of content in previous clinical courses. More emphasis on independent clinical practice of procedures previously mastered.
Prerequisite: RADT 14025 with a minimum C grade.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 4.47 lab, 17.92 other
Grade Mode: Standard Letter-IP

RADT 14096 INDIVIDUAL INVESTIGATION IN DIRECTED READINGS IN RADIOLOGIC TECHNOLOGY 3 Credit Hours
(Repeatable for Credit) Student selects prescribed number of medical journals, completes questions, paper and presentation.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

RADT 21095 SPECIAL TOPICS IN RADIOLOGIC TECHNOLOGY 2-4 Credit Hours
(Repeatable for credit) Student participation course on topics pertinent to radiologic technology. Topics are chosen by the instructor. Student may enroll in course more than once.
Prerequisite: Special approval from instructor.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter

RADT 24008 RADIOBIOLOGY AND RADIATION PROTECTION 3 Credit Hours
Biological aspects of radiation, radiation interaction with matter, minimizing patient radiation exposure and personnel protection are topics covered.
Prerequisite: BSCI 11010 and BSCI 11020; or BSCI 21010 and BSCI 21020; or ATTR 25057 and ATTR 25058; or EXSC 25057 and EXSC 25058; and RADT 14003 with a minimum C grade.
Corequisite: RADT 24015.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24014 ADVANCED IMAGING 2 Credit Hours
Procedures and equipment used in advanced medical imaging including fluoroscopy, mammography, CT, MRI, interventional imaging, nuclear medicine, PET imaging, diagnostic medical sonography, radiation therapy and fusion studies as well as quality assurance.
Prerequisite: RADT 14025.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RADT 24015 CLINICAL EDUCATION V 3 Credit Hours
Continuation of RADT 14085 with emphasis on clinical practice of content of previous clinical courses. More emphasis on independent clinical practice previously mastered.
Prerequisite: RADT 14085 with a minimum C grade.
Schedule Type: Clinical Laboratory
Contact Hours: 27 other
Grade Mode: Standard Letter

RADT 24016 IMAGING PHYSICS 3 Credit Hours
Introduction to general physics, units and measurement, atomic structure, electromagnetic energy, x-ray production, electrodynamics, magnetism and electromagnetic devices, x-ray tube and x-ray circuitry.
Prerequisite: RADT 14018.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24025 CLINICAL EDUCATION VI 3 Credit Hours
Continuation of RADT 24015 with emphasis on mastery of clinical procedures.
Prerequisite: RADT 24015 with a minimum C grade.
Schedule Type: Clinical Laboratory
Contact Hours: 27 other
Grade Mode: Standard Letter-IP

RADT 24028 RADIOLOGIC PATHOLOGY 3 Credit Hours
Disease process and the pathologies associated with each anatomical system are described and their application to all modalities in the radiologic and imaging sciences.
Prerequisite: RADT 24015.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24048 RADIOGRAPHIC TECHNIQUES 3 Credit Hours
Review of radiologic technology to include review of patient care, safety, image production and procedures in preparation for the radiography certification exam.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24058 DIVERSIFIED EMPLOYMENT SKILLS 3 Credit Hours
Course features multiple topics in medical imaging to prepare graduates for employment in healthcare.
Prerequisite: RADT 24015.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24068 RADIOLOGY AND IMAGING EXPLORATION 2 Credit Hours
The course is designed for both the non-major or pre-radiology major learner. The course will provide an overview of the major medical imaging sciences. It will include the historical development of the area, indications/contraindications, strengths and weaknesses and basic image identification. It includes but is not limited to: Radiography, Fluoroscopy, Mammography, Interventional Radiology, Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Diagnostic Medical Sonography, Nuclear Medicine and Radiation Therapy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RADT 24096 INDIVIDUAL INVESTIGATION IN RADIOLOGIC TECHNOLOGY 1 Credit Hour
Directed research of special interest or need in the student's program. A research paper will be written on an assigned topic in radiologic technology.
Prerequisite: Admission to technical study; and RADT 14003 with a minimum C grade; and radiologic technology major.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

RADT 24196 INDIVIDUAL INVESTIGATION IN ADVANCED READINGS IN RADIOLOGIC TECHNOLOGY 3 Credit Hours
(Repeatable for credit) Course permits scholarly activities for research, study and summary of medical journal articles. Information aids in understanding recent advancements in medical imaging.
Prerequisite: Admission to technical study; and radiologic technology major.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

RADT 25010 MAMMOGRAPHIC EQUIPMENT, QUALITY ASSURANCE AND PROCEDURES 3 Credit Hours
Course provides students with foundational concepts of mammographic quality assurance testing and the factors that govern and influence quality control equipment. Students learn how to construct a quality assurance program for a mammography program following the American College of Radiology and Mammography Quality Standards Act guidelines. Students also gain an understanding of various radiographic imaging procedures, including routine localization, specimen radiography, ultrasound of the breast, cyst aspiration, fine needle aspiration cytology and breast magnetic resonance imaging. Course also covers minimally invasive mammographic needle breast biopsy procedures, core biopsy, stereotactic procedures and interventional procedures used in breast cancer diagnosis.
Prerequisite: RADT 14085.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 25011 MAMMOGRAPHIC POSITIONING AND PATIENT CARE 3 Credit Hours
Course provides the fundamentals of mammography positioning. Students study breast anatomy and physiology and pathologic changes and the relevance of these to mammographic appearance and positioning, including correlation to the radiographic appearance of normal anatomy and benign and malignant mammographic findings. Course also provides the basic concepts in patient assessment and evaluation in mammography. It includes effective communication, patient safety/comfort, patient preparation, professionalism, ethics and critical thinking. Course content emphasizes the importance of establishing a positive relationship with the patient, addressing their psychological needs and providing patient information related to the procedure.
Prerequisite: RADT 14085.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 25092 MAMMOGRAPHY CLINICAL (ELR) 2 Credit Hours
(Repeatable for credit) Course provides students with the clinical experience required to become competent in performing mammographic procedures, mammographic image critique and time to perform required quality control testing. Students learn to complete the entire examination, from request and chart review to patient screening; explaining the procedure to the patient; positioning the patient; using required accessories; setting the equipment; making a correct exposure; processing the image; completing the paperwork; using the computer to store patient data; and maintaining quality control. At successful conclusion, students obtain documentation of clinical competence as required by the ARRT for eligibility to take the advanced level examination in mammography. Students must perform 25 supervised examinations required by the initial MQSA mammography requirements and 75 mammographic examinations (screening and/or diagnostic). Examinations must be performed on patients (not phantoms or simulations).
Prerequisite: RADT 14085.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Reading (READ)

READ 00003 CORE READING STRATEGIES FOR COLLEGE SUCCESS 3 Credit Hours
Development of reading strategies necessary for successful completion of college coursework. Emphasis on improving reading comprehension. The credit hours completed for this course do not count toward graduation. Students who have a high school GPA of 1.59 or lower are placed into RC 00003 with an option to challenge the placement.
Prerequisite: ACT Reading score of 0-13; or SAT Evidence Based Reading and Writing score of 200-380; Accuplacer Next Generation Reading Comprehension score of 200-221 (required if student does not have ACT or SAT score).
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

READ 00006 CRITICAL READING STRATEGIES FOR COLLEGE SUCCESS 3 Credit Hours
Development and application of content area reading and study strategies for successful completion of college coursework. Emphasis on application of critical reading strategies. Credit hours for this course do not count toward graduation. Students who have a high school GPA of 1.6 through 2.79 are placed into RC00006 with the option to challenge the placement.
Prerequisite: ACT reading 14-19 score; or SAT Evidenced-Based Reading and Writing score of 390-470; or Accuplacer Next Generation Reading Comprehension 222-249; or a minimum C grade or higher in READ 00003.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

READ 00009 SWIFT KICK STUDY SKILLS 1 Credit Hour
Development of study strategies necessary for successful completion of college coursework. The credit hour completed for this course does not count toward graduation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

Recreation, Park and Tourism Management (RPTM)

RPTM 16000 FOUNDATIONS OF RECREATION AND LEISURE 3 Credit Hours
Historical examination of the park and recreation movement, sociological, economic, psychological and political considerations for the delivery of leisure and recreation services in contemporary society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 16001 CAREER EXPLORATION IN RECREATION, PARK, AND TOURISM MANAGEMENT 1 Credit Hour
Introduction to career opportunities in Recreation, Park, and Tourism Management. Includes public, non-profit, and commercial settings and site visits.
Pre/corequisite: RPTM 16000.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RPTM 26010 COMMUNITY DEVELOPMENT IN RECREATION 3 Credit Hours
Explores the contemporary and historical roles, organization and services of public and non-profit leisure service providers. Includes various theoretical perspectives on community organization and development as well as methods available to the recreation practitioner to facilitate the development of recreation services in communities.
Prerequisite: RPTM 16000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 26030 LEADERSHIP IN RECREATION, PARKS AND TOURISM 3 Credit Hours
Leadership concepts, principles, methods and techniques necessary for facilitating beneficial recreation activities for diverse populations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 26060 INTRODUCTION TO GLOBAL TOURISM (DIVG) 3 Credit Hours
(Cross-listed with GEOG 22040) Introduction to travel and tourism around the world. Students study tourism technologies and cultural and natural environments as attractions, benefits of travel, travel ethics and sustainable development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

RPTM 26071 MAINTENANCE AND OPERATION OF AREAS AND FACILITIES 3 Credit Hours
A systems approach for the effective maintenance and operation of areas and facilities.
Prerequisite: RPTM 16000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 26081 PRINCIPLES OF OUTDOOR RECREATION 3 Credit Hours
Introduction to outdoor recreation including historical and cultural perspectives, outdoor recreation resources, environmental aspects, trends and management.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36010 RECREATION, LEISURE AND AGING 3 Credit Hours
Knowledge and understanding of leisure and aging. Planning and implementing recreation programs and activities for enriching the lives of older persons.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36040 INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD) 3 Credit Hours
An examination of attitudes toward people with disabilities, characteristics of various disability groups, the role and responsibility of leisure service providers to be inclusive of all individuals and techniques for adapting programs.
Prerequisite: RPTM 26030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

RPTM 36060 ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES 3 Credit Hours
Principles of commercial recreation and tourism services, including entrepreneurship, economic concepts of the for-profit recreation industries and management skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36075 EXPERIENCE DESIGN IN RECREATION, PARK AND TOURISM SETTINGS 3 Credit Hours
Programming leisure experiences within a socio-cultural context, involving understanding and assessing client behavior and needs, proficiency in experience design and implementation, and knowledge of evaluation methods reflective of a service-centered and benefits approach.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36081 ADVENTURE EDUCATION 3 Credit Hours
Introduction to adventure education, the history and philosophy, initiatives, ropes courses, adventure curricula and the basics of outdoor leadership and process facilitation.
Prerequisite: RPTM 26030 and RPTM 26081.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36082 INTERPRETATION OF NATURAL AND CULTURAL RESOURCES 3 Credit Hours
Interpretation is the art of creating intellectual and emotional bonds between people and natural and cultural resources. Interpretation is commonly practiced in parks and other protected areas, zoos, museums and a variety of tourist attractions. This course provides students with the philosophies, concepts and practical techniques necessary to plan and present effective interpretation of natural and cultural resources.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36083 ENVIRONMENTAL EDUCATION AND CONSERVATION 3 Credit Hours
Environmental education helps people better understand the natural world and to develop attitudes and behaviors conducive to environmental conservation. Teaches students the foundations, principles and techniques of environmental education thus enabling students to prepare and present effective environmental education programs. Prerequisite: None
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36085 LEISURE AND CULTURE (DIVD) 3 Credit Hours
Leisure behaviors and beliefs for people from diverse cultures, factors perpetuating inequity in the United States and strategies for leisure programming in a pluralistic society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

RPTM 36911 WILDERNESS AND REMOTE FIRST AID FOR PROFESSIONALS AND EDUCATORS 3 Credit Hours
Students build first aid knowledge skills and behaviors through a variety of learning strategies to individually help in an emergency. A key focus is on how to work in limited resource environments or remote environments (i.e., foreign countries, wilderness, air travel). Then students learn and demonstrate how to prepare others, and be a leader during emergencies through practical experiences. Course is taught and assessed in a cognitively, physically, and emotionally stressed manner. This course includes three weekends and include outdoors experiences. Successful completion of the course may result in American Red Cross certification and Instructor status.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter

RPTM 45031 SPORT TOURISM 3 Credit Hours
(Cross-listed with SPAD 45031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 45047 GLOBAL ISSUES OF TOURISM TRADE 3 Credit Hours
(Slashed with HTM 55047) An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in tourism policy making. The course has an emphasis on reading and discussion.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours
(Cross-listed with GEOG 42040)(Slashed with HTM 56000) Investigation of travel and tourism development using an interdisciplinary social science approach.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46030 DYNAMICS OF LEISURE BEHAVIOR (WIC) 3 Credit Hours
(Slashed with RPTM 56030) This is a writing intensive course with a focus on reading, discussing and writing about science examining leisure behavior and related phenomenon.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

RPTM 46060 ADMINISTRATION OF LEISURE SERVICES 3 Credit Hours
(Slashed with RPTM 56060) Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns are examined.
Prerequisite: RPTM 36040 and RPTM 36075.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46070 PARK PLANNING 3 Credit Hours
(Slashed with RPTM 56070) Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places.
Prerequisite: RPTM 26081.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46091 SEMINAR FOR INTERNSHIP PREPARATION 1 Credit Hour
(Repeatable for credit) Planning and preparation for the internship experience in leisure service settings. Students should register for this course two semesters before enrolling in the internship course.
Prerequisite: Recreation, Park, and Tourism Management (RPTM) major and junior standing.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

RPTM 46092 INTERNSHIP IN RECREATION (ELR) 9 Credit Hours
(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved leisure setting.
Prerequisite: RPTM 46091; and senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 30 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

RPTM 46095 SELECTED TOPICS IN RECREATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours)Selected topics dependent upon interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46096 INDIVIDUAL INVESTIGATION IN RECREATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours)Independent study completed under the supervision of a faculty member. Written approval of the supervising faculty member and school director required prior to registration.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

RPTM 56030 DYNAMICS OF LEISURE BEHAVIOR 3 Credit Hours
(Slashed with RPTM 46030) This is a writing-intensive course with a focus on reading, discussing and writing about science examining leisure behavior and related phenomenon.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 56060 ADMINISTRATION OF LEISURE SERVICES 3 Credit Hours
(Slashed with RPTM 46060) Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 56070 PARK PLANNING 3 Credit Hours
(Slashed with RPTM 46070) Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 65047 GLOBAL ISSUES OF TOURISM TRADE 3 Credit Hours
An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in tourism policy making. The course has an emphasis on reading and discussion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 65061 PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT 3 Credit Hours
(Slashed with RPTM 75061) Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 75061 PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT 3 Credit Hours
(Slashed with RPTM 65061) Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives are examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Religion (REL)

REL 11020 INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM) 3 Credit Hours
A study of the religious impulse as it manifests itself in the plurality of beliefs, practices and institutions of the world religions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement, Kent Core Humanities, Transfer Module Humanities

REL 12020 INTRODUCTION TO NEW TESTAMENT LITERATURE 3 Credit Hours
Course introduces students to the literature of the New Testament and to the early Christian communities in which the works were formulated. Of focused interest is the critical study of the content of the texts, with close consideration of the historical and literary influences on the composition and reception of the gospel traditions as regards their presentations of the life, ministry and person of Jesus, and the letters of Paul. The post-Pauline pastoral epistles, and various later works included in the collection are briefly examined.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 21021 MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM) 3 Credit Hours
An in-depth exploration of Judaism, Christianity and Islam, considering the circumstances of each tradition's beginnings, the influence of the identified founder, and the cultural diversities evident in the history of each of the distinctive religious traditions, as well as the inter-connectedness and influence of each of three religions upon the others. Course concludes with a consideration of the contemporary situations faced by the traditions, including their engagements with modernity and one another as global historic traditions in a changing world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement, Kent Core Humanities, Transfer Module Humanities

REL 31065 COMPARATIVE RELIGIOUS EXPERIENCE 3 Credit Hours
Examination of the phenomena of religious experience, its structure, ramifications and expression in myth and ritual.
Prerequisite: REL 11020 or REL 21021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 31075 RELIGION AND WOMEN 3 Credit Hours
Course serves to provide students with an opportunity to examine the status of women as concerns authoritative texts, politics, doctrines and institutions through the critical study of the history, texts and artifacts of selected traditional religions with the use of multidisciplinary and cross-cultural approaches concerning the experience, contributions, topics and status of women – both historically and in contemporary contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 40095 SPECIAL TOPICS IN RELIGION STUDIES 3 Credit Hours
(Repeatable for credit) Special topics seminar in religion studies.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

REL 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual investigation in religion studies.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

REL 41010 RELIGION, VIOLENCE AND TERROR 3 Credit Hours
(Slashed with REL 51010) Course explores a variety of religions focusing on the themes of violence and terror. The examination employs different academic approaches to selected historic examples and their underlying causes.
Prerequisite: Junior or Senior Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 41091 SEMINAR IN ADVANCED COMPARATIVE RELIGION 3 Credit Hours
(Repeatable for credit) (Slashed with REL 51091) Variable content course that is an advanced examination of pivotal issues, schools and theorists in the study of religion and the future of comparative studies.
Prerequisite: Junior or senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

REL 42091 RELIGION IN THE MODERN WORLD 3 Credit Hours
(Slashed with REL 52091) (Repeatable for credit) An inquiry into the influences of modernity in the conception, valuation and-or interpretation of religious convictions, beliefs, symbolizations, institutions and artifacts (including texts). The study of Religion in the Modern World is a complex undertaking offering multiple foci with multiple attending disciplines and approaches to the inquiry. Given the plurality of foci and approaches, instructors may choose to address any number of the common topics associated with the evolution of religions in the modern world. Examples include: religion and science -- from cosmology (Gallio, Newton, to black holes) to the origins and evolution of the human species (Darwin), or religion and society, or religion and the modern state, or religion and industrial society, or religion in a modern world of pluralism and multicultural societies as well as the religious reactions against science, modern multicultural societies, the modern state and the changing legal status of women, minorities, and children, and the rise of fundamentalism.
Prerequisite: Junior or Senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

REL 51010 RELIGION, VIOLENCE AND TERROR 3 Credit Hours
(Slashed with REL 41010) Course explores a variety of religions focusing on the themes of violence and terror. The examination employs different academic approaches to selected historic examples and their underlying causes.
Prerequisite: Graduate studies.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 51091 SEMINAR IN ADVANCED COMPARATIVE RELIGION 3 Credit Hours
(Repeatable for credit) (Slashed with REL 41091) Variable content course that is an advanced examination of pivotal issues, schools and theorists in the study of religion and the future of comparative studies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

REL 52091 RELIGION IN THE MODERN WORLD 3 Credit Hours
(Slashed with REL 42091) (Repeatable for credit) An inquiry into the influences of modernity in the conception, valuation and-or interpretation of religious convictions, beliefs, symbolizations, institutions and artifacts (including texts). The study of Religion in the Modern World is a complex undertaking offering multiple foci with multiple attending disciplines and approaches to the inquiry. Given the plurality of foci and approaches, instructors may choose to address any number of the common topics associated with the evolution of religions in the modern world. Examples include: religion and science -- from cosmology (Gallio, Newton, to black holes) to the origins and evolution of the human species (Darwin), or religion and society, or religion and the modern state, or religion and industrial society, or religion in a modern world of pluralism and multicultural societies as well as the religious reactions against science, modern multicultural societies, the modern state and the changing legal status of women, minorities, and children, and the rise of fundamentalism.
Prerequisite: Graduate studies.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Research, Measurement and Statistics (RMS)

RMS 45610 CLASSROOM ASSESSMENT 3 Credit Hours
(Slashed with RMS 55610 and RMS 75610) Instruction on contemporary and classic theories and issues in classroom assessment. Students learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 50093 VARIABLE TOPIC WORKSHOP EVALUATION AND MEASUREMENT 1-4 Credit Hours
(Repeatable once for a maximum of 6 credit hours) (Slashed with RMS 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

RMS 55610 CLASSROOM ASSESSMENT 3 Credit Hours
(Slashed with RMS 45610 and RMS 75610) Instruction on contemporary and classic theories on and issues in classroom assessment. Students will learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students will examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 60199 THESIS I 2-6 Credit Hours
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: RMS 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 65510 STATISTICS I FOR EDUCATIONAL SERVICES 3 Credit Hours
(Slashed with RMS 75510) Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlations and simple regression); hypothesis testing; non-parametric techniques. Ordinarily taken in graduate course sequence.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65511 RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours
Introduction to purposes and practice of qualitative and quantitative research related to educational services. Emphasis on elements of doing research and using products of research to support and enhance practice. Authentic examples used as illustration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65515 QUANTITATIVE RESEARCH DESIGN AND ANALYSIS 3 Credit Hours
(Slashed with RMS 85515) Introduction to quantitative research design and analysis in the social sciences. Students are introduced to various concerns and issues that arise in conducting quantitative research, as well as various quantitative research designs, including experimental, quasi-experimental, and non-experimental research approaches. Students will also learn to critically examine quantitative research reports in terms of reliability and validity. Additionally, students will be introduced to analysis of variance (ANOVA) procedures for analyzing quantitative research designs.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65516 QUALITATIVE RESEARCH DESIGN 3 Credit Hours
(Slashed with RMS 85516) Introduction to qualitative research approaches, design, and methods. Students learn about the theoretical underpinnings, nature, characteristics, and methods of qualitative research. Students are introduced to several types of qualitative research designs. They learn to engage in critical reading of qualitative research reports. Students also learn to design qualitative research studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65522 BASICS OF QUALITATIVE INTERVIEWING 1 Credit Hour
(Slashed with RMS 75522) Specialized interviewing methods and techniques prior to engaging in qualitative research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RMS 65530 PRACTITIONER INQUIRY 3 Credit Hours
(Slashed with RMS 85530) This course prepares students to engage in practitioner research. It provides an overview of the history, theoretical, ethical, and practical issues related to engaging in practitioner work in a variety of fields. Research design, data collection and analysis are explored and practiced. Students will critique practitioner research and design their own practitioner research study.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65533 INTRODUCTION TO NARRATIVE INQUIRY AND ANALYSIS 1 Credit Hour
(Slashed with RMS 75533) This course will introduce students to the "rapidly maturing" methodology, providing a foundational exploration of narrative techniques, the craft of good academic writing, and a practice of narrative analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter-IP

RMS 68710 INTRODUCTION TO MEASUREMENT 3 Credit Hours
(Slashed with RMS 78710) This course provides an introduction to the field of measurement/psychometrics. The theoretical foundations are those of Classical Test Theory and construct-based measure development. Some general topics include Classical Test Theory, Reliability and the calculation of reliability indices, Validity and the meaning and types of evidence for Validity, methods of scale construction and test bias.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68711 MODERN TEST THEORY: ITEM RESPONSE THEORY 3 Credit Hours
(Slashed with RMS 78711) The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68713 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 78713) Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge and skills necessary to conduct multivariate analyses using various statistical packages (SPSS, SAS) and to develop knowledge and skills necessary for interpreting results of multivariate analysis.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68714 FACTOR ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 78714) This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68715 SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION 3 Credit Hours
(Slashed with RMS 78715) Designed to be an introduction to survey design including the use of online survey applications data collection and will focus on applied quantitative research using SPSS. Open to any graduate students with appropriate prerequisite courses and an interest in applied quantitative research. The project-based course has two major components: survey construction and applied research. Students will perform tasks typically requested of data analysts, institutional researchers, and program evaluators including but not limited to SPSS data management, data transformations, descriptive and inferential analysis, and interpretation of results.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68716 STATISTICS II: ANOVA AND NONPARAMETRIC TESTS 3 Credit Hours
The primary objective of the course is to develop students' understanding of statistical concepts and procedures sufficient for both conducting appropriate statistical analysis and interpreting the results. Authentic research examples are used throughout the course as illustrations of the different methods of conducting statistical analyses for the social sciences. This course is designed to lead students to become informed consumers of intermediate level statistical analyses, specifically analysis of variance (ANOVA) procedures, used in the social sciences.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68728 MULTIPLE REGRESSION 3 Credit Hours
(Slashed with RMS 78728) The purpose of this course is to develop an understanding of use of multiple regression in the social sciences and related issues, including examining assumptions, diagnosis of outliers and influential data points, determining statistical power, testing for moderation and mediation, etc. The course begins with an introduction to simple models with two predictor variables, and continues to more advanced models, including those with three or more variables, categorical predictors, interactions, non-linear models, and logistic regression.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68735 STRUCTURAL EQUATION MODELING 3 Credit Hours
(Slashed with RMS 78735) The purpose of this course is to develop an understanding of the basic concepts of structural equation modeling and the use of path analysis, confirmatory factor analysis, bi-factor and second-order CFA, multitrait-multimethod analysis, multiple sample-multiple group SEM, latent class model, and latent growth modeling covered under the theoretical framework of structural equation modeling. The course familiarizes students with these methods in order to (a) critique a research study with respect to the statistical analysis, and (b) select an appropriate model and be able to apply it.
Prerequisite: RMS 65510 and RMS 68728; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68745 HIERARCHICAL LINEAR MODELING 3 Credit Hours
(Slashed with RMS 78745) This course introduces methods for the analysis of multilevel data and emphasizes practical, hands-on development, analysis and interpretation of hierarchical linear models. Applications will be drawn from education, psychology, other social sciences, and health-related disciplines. Topic coverage includes development of multilevel models, estimation, hypothesis testing, statistical inference, model assessment and residual diagnostics, centering options and impact, treatment of heterogeneity, and introduction to longitudinal analysis via multilevel models.
Prerequisite: RMS 65510 and RMS 68728; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68791 SEMINAR IN EVALUATION AND MEASUREMENT 1-5 Credit Hours
(Repeatable for credit) Variable topic seminar for advance study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

RMS 68795 SPECIAL TOPICS IN EVALUATION AND MEASUREMENT 1-3 Credit Hours
(Repeatable for credit)Specific topic course offering in response to emerging student or program needs in evaluation and measurement.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

RMS 68796 INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT 1-3 Credit Hours
(Repeatable for credit)Specific topic course offering in response to emerging student or program needs in evaluation and measurement.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 68798 RESEARCH IN EVALUATION AND MEASUREMENT 1-15 Credit Hours
(Repeatable for credit) Students pursue an individual research project on a specific topic in evaluation and measurement with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 68806 HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 78806) This course is designed to be an overview of institutional research function and practice, introducing students to the purpose and history of IR, IR terminology and metrics, and IR application to a variety of university areas. The target audiences for this course are: 1) students with an evaluation and measurement background who are interested in applying their skills in a higher education context and 2) students from a higher education and or student affairs background who are looking to better understand higher education data and the applied research that occurs within an institution.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68807 PROGRAM EVALUATION 3 Credit Hours
(Slashed with RMS 78807) Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 70093 VARIABLE TOPIC WORKSHOP IN EVALUATION AND MEASUREMENT 1-4 Credit Hours
(Repeatable for credit) (Slashed with RMS 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

RMS 75510 STATISTICS I FOR EDUCATIONAL SERVICES 3 Credit Hours
(Slashed with RMS 65510) Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlations and simple regression); hypothesis testing; non-parametric techniques. Ordinarily taken in graduate course sequence.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 75522 BASICS OF QUALITATIVE INTERVIEWING 1 Credit Hour
(Slashed with RMS 65522) Specialized interviewing methods and techniques prior to engaging in qualitative research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RMS 75533 INTRODUCTION TO NARRATIVE INQUIRY AND ANALYSIS 1 Credit Hour
(Slashed with RMS 65533) This course will introduce students to the "rapidly maturing" methodology, providing a foundational exploration of narrative techniques, the craft of good academic writing, and a practice of narrative analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter-IP

RMS 75550 INTRODUCTION TO QUANTITATIVE RESEARCH IN EDUCATION 3 Credit Hours
This course provides an introduction to the purposes, practices, and applications of quantitative research in the field of education. The course focuses on foundational knowledge related to the methods used for conducting quantitative research, evaluating quantitative research, and using products of research to support and enhance practice. Authentic examples are used as illustrations throughout the course. The course is designed to allow students to become informed consumers of quantitative research in education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 75610 CLASSROOM ASSESSMENT 3 Credit Hours
(Slashed with RMS 45610 and RMS 55610) Instruction on contemporary and classic theories and issues in classroom assessment. Students will learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students will examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78710 INTRODUCTION TO MEASUREMENT 3 Credit Hours
(Slashed with RMS 68710) This course provides an introduction to the field of measurement/psychometrics. The theoretical foundations are those of Classical Test Theory and construct-based measure development. Some general topics include Classical Test Theory, Reliability and the calculation of reliability indices, Validity and the meaning and types of evidence for Validity, methods of scale construction and test bias.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78711 MODERN TEST THEORY: ITEM RESPONSE THEORY 3 Credit Hours
(Slashed with RMS 68711) The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78713 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 68713) Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge and skills necessary to conduct multivariate analyses using various statistical packages (SPSS, SAS) and to develop knowledge and skills necessary for interpreting results of multivariate analysis.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78714 FACTOR ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 68714) This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78715 SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION 3 Credit Hours
(Slashed with RMS 68715) Designed to be an introduction to survey design including the use of online survey applications data collection and will focus on applied quantitative research using SPSS. Open to any graduate students with appropriate prerequisite courses and an interest in applied quantitative research. The project-based course has two major components: survey construction and applied research. Students will perform tasks typically requested of data analysts, institutional researchers, and program evaluators including but not limited to SPSS data management, data transformations, descriptive and inferential analysis, and interpretation of results.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78716 STATISTICS II: ANOVA AND NONPARAMETRIC TESTS 3 Credit Hours
(Slashed with RMS 68716) The primary objective of the course is to develop students' understanding of statistical concepts and procedures sufficient for both conducting appropriate statistical analysis and interpreting the results. Authentic research examples are used throughout the course as illustrations of the different methods of conducting statistical analyses for the social sciences. This course is designed to lead students to become informed consumers of intermediate level statistical analyses, specifically analysis of variance (ANOVA) procedures, used in the social sciences.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78728 MULTIPLE REGRESSION 3 Credit Hours
(Slashed with RMS 68728) The purpose of this course is to develop an understanding of use of multiple regression in the social sciences and related issues, including examining assumptions, diagnosis of outliers and influential data points, determining statistical power, testing for moderation and mediation, etc. The course begins with an introduction to simple models with two predictor variables, and continues to more advanced models, including those with three or more variables, categorical predictors, interactions, non-linear models, and logistic regression.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78735 STRUCTURAL EQUATION MODELING 3 Credit Hours
(Slashed with RMS 68735) The purpose of this course is to develop an understanding of the basic concepts of structural equation modeling and the use of path analysis, confirmatory factor analysis, bi-factor and second-order CFA, multitrait-multimethod analysis, multiple sample and multiple group SEM, latent class model, and latent growth modeling covered under the theoretical framework of structural equation modeling. The course familiarizes students with these methods in order to (a) critique a research study with respect to the statistical analysis, and (b) select an appropriate model and be able to apply it.
Prerequisite: RMS 75510 and RMS 78728; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78745 HIERARCHICAL LINEAR MODELING 3 Credit Hours
(Slashed with RMS 68745) This course introduces methods for the analysis of multilevel data and emphasizes practical, hands-on development, analysis and interpretation of hierarchical linear models. Applications will be drawn from education, psychology, other social sciences, and health-related disciplines. Topic coverage includes development of multilevel models, estimation, hypothesis testing, statistical inference, model assessment and residual diagnostics, centering options and impact, treatment of heterogeneity, and introduction to longitudinal analysis via multilevel models.
Prerequisite: RMS 75510 and RMS 78728; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78806 HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 68806) This course is designed to be an overview of institutional research function and practice, introducing students to the purpose and history of IR, IR terminology and metrics, and IR application to a variety of university areas. The target audiences for this course are: 1) students with an evaluation and measurement background who are interested in applying their skills in a higher education context and 2) students from a higher education and or student affairs background who are looking to better understand higher education data and the applied research that occurs within an institution.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78807 PROGRAM EVALUATION 3 Credit Hours
(Slashed with RMS 68807) Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation programs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78898 COMPARATIVE RESEARCH DESIGN 3 Credit Hours
(Repeatable for credit)The course develops the ability of the student to conceptualize the design elements of educational research and to write results of studies.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

RMS 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

RMS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: RMS 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 85515 QUANTITATIVE RESEARCH DESIGN AND ANALYSIS 3 Credit Hours
(Slashed with RMS 65515) Introduction to quantitative research design and analysis in the social sciences. Students are introduced to various concerns and issues that arise in conducting quantitative research, as well as various quantitative research designs, including experimental, quasi-experimental, and non-experimental research approaches. Students will also learn to critically examine quantitative research reports in terms of reliability and validity. Additionally, students will be introduced to analysis of variance (ANOVA) procedures for analyzing quantitative research designs.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85516 QUALITATIVE RESEARCH DESIGN 3 Credit Hours
(Slashed with RMS 65516) Introduction to qualitative research approaches, design, and methods. Students learn about the theoretical underpinnings, nature, characteristics, and methods of qualitative research. Students are introduced to several types of qualitative research designs. They learn to engage in critical reading of qualitative research reports. Students also learn to design qualitative research studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85517 ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours
Advanced quantitative research design and application in educational services. Statistical packages of instructional strategies with methodological principles focus, theoretical models and practical application of experimental and multivariate research design.
Prerequisite: RMS 85515; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85518 ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours
Utilizes qualitative data in educational services. Applications in qualitative methodology (video techniques) and protocol analysis are applied and evaluated. Generate findings; develop applications to theory; reliability and validity considerations.
Prerequisite: RMS 85516; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85520 MIXED METHODS RESEARCH 3 Credit Hours
This course provides an overview of theoretical and practical issues pertaining to mixed methods research in educational settings. This overview includes the history and philosophy of mixed methods research, types of mixed methods designs, and various strategies for mixed methods data collection and analysis. Course outcomes include the development of a rationale for mixed methods approaches, critique of published mixed methods educational research, and the design and preliminary implementation of a mixed methods research project.
Prerequisite: RMS 85515 and RMS 85516; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85530 PRACTITIONER INQUIRY 3 Credit Hours
(Slashed with RMS 65530) This course prepares students to engage in practitioner research. It provides an overview of the history, theoretical, ethical, and practical issues related to engaging in practitioner work in a variety of fields. Research design, data collection and analysis are explored and practiced. Students will critique practitioner research and design their own practitioner research study.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85540 GROUNDED THEORY AND PHENOMENOLOGICAL RESEARCH 3 Credit Hours
This course prepares students to engage in and argue for phenomenological research and grounded theory research. It provides an overview of the history, theoretical, and practical background related to various forms of phenomenological and grounded theory research. Research design, data collection and analysis are explored and practiced. Students will critique phenomenological and grounded theory research and design their own study or pilot a study of one of the two types.
Prerequisite: RMS 85516; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85550 ETHNOGRAPHY AND CASE STUDY RESEARCH 3 Credit Hours
The purpose of this course is to provide doctoral students advanced instruction in two approaches to qualitative inquiry: ethnography and case study research. In addition to providing students with an understanding of the theoretical perspectives which underlie the methodological approach to case study and ethnographic research, the course is designed to provide numerous opportunities for students to learn and practice techniques for generating, analyzing, writing-up, and using both ethnographic and case study data.
Prerequisite: RMS 85516; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85560 CRITICAL SOCIAL RESEARCH 3 Credit Hours
Critical social research refers to a diverse set of approaches to research that employ a critical ontological and epistemological lens. Critical researchers work from sets of assumptions about power in the social world articulated by some form of critical theory. This graduate course surveys a range of approaches to critical social research, engaging students in learning about the theoretical foundations and inquiry methods of these diverse approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 88791 SEMINAR: EVALUATION AND MEASUREMENT 1-5 Credit Hours
(Repeatable for credit) Variable topic seminar for advance study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

RMS 88795 SPECIAL TOPICS: EVALUATION AND MEASUREMENT 1-3 Credit Hours
(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

RMS 88796 INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT 1-3 Credit Hours
(Repeatable for credit)Specific topic course offering in response to emerging student or program needs in evaluation and measurement.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 88798 RESEARCH IN EVALUATION AND MEASUREMENT 1-15 Credit Hours
(Repeatable for credit) Students pursue an individual research project on a specific topic in evaluation and measurement of education with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Respiratory Care (RSPC)

RSPC 30000 PROFESSIONAL PRACTICE IN RESPIRATORY CARE 3 Credit Hours
Course guides students in responsible professional practice and encourages personal development of the skills and key traits of the professional. The importance of continuing professional development, being reflective, ethical, accountable and culturally competent are also explored.
Prerequisite: Respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 30002 LEADERSHIP AND MANAGEMENT IN RESPIRATORY CARE 3 Credit Hours
Course allows students to utilize their knowledge and experience in understanding leadership as a team leader or team member in the practice of respiratory care. Management in respiratory care is explored, including hospital organization; department structure; outcomes; staffing, billing, budgeting and staff development; decision-making; and effective communication.
Prerequisite: Respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 30004 EDUCATIONAL INSTRUCTION IN RESPIRATORY CARE 3 Credit Hours
Course guides students in perspectives on teaching and learning, characteristics of the learner and techniques and strategies for teaching and learning. Delivery of respiratory therapy education in various settings.
Prerequisite: Respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 30006 SLEEP MEDICINE AND POLYSOMNOGRAPHY 3 Credit Hours
A fundamental overview of a variety of sleep and breathing disorders that affect sleep. Topics include the identification of normal sleep and sleep disorders, methods of diagnosing sleep disorders, and treatment options. Practice in comparing and evaluating the indications and contraindications for sleep studies and evaluating sleep study results in relation to types of respiratory sleep disorders.
Prerequisite: Respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 31095 SPECIAL TOPICS IN RESPIRATORY CARE 1-3 Credit Hours
(Repeatable for credit) Scheduled topics of interest to students and faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

RSPC 40000 DISEASE MANAGEMENT IN RESPIRATORY CARE 3 Credit Hours
Provides an advanced understanding of the pathophysiology and management of cardiopulmonary disease and comorbidities. Provides training in critical thinking in the management of chronic disease and utilization of patient-therapist participation principles; patient communication, evaluation, development of care plans and action plans utilizing evidence-based medicine; and protocols and clinical practice guidelines.
Prerequisite: Respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 40002 RESEARCH DEVELOPMENT IN RESPIRATORY CARE (WIC) 3 Credit Hours
Introduces the respiratory care practitioner to research methodology and design, their application to health science research and the application of research to everyday health care.
Prerequisite: MATH 10040 or MATH 10041 or BA 24056 or BMRT 21004 or PH 30002 or PSYC 21621 or SOC 32220 and SOC 32221; and ENG 21011 or HONR 10297; and respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

RSPC 40004 ADVANCED PRACTICE IN RESPIRATORY CARE 3 Credit Hours
Explores the traditional practice roles filled by respiratory therapists; the advanced practice roles that exist, as well as those that are emerging within the profession; and the career opportunities they represent for practitioners.
Prerequisite: Admission to professional study; and respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 40006 CONTEMPORARY ISSUES AND TRENDS IN RESPIRATORY CARE 3 Credit Hours
Analysis of contemporary issues and trends in respiratory care and their impact and influence on the profession.
Prerequisite: Respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 40008 CHRONIC DISEASE MANAGEMENT PRINCIPLES 3 Credit Hours
This course focuses on the application of critical thinking in the area of managing chronic disease and the impact healthcare professionals have on affecting positive patient population outcomes. Current practices, utilization of evidence-based medicine, protocols and current principles and trends in managing the impact of acute to chronic disease are discussed.
Prerequisite: Respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 40075 INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS 3 Credit Hours
(Cross-listed with NURS 40075) Focuses on the use of information management and information systems, technology and the human technology interface utilized in professional practice.
Prerequisite: Admission to professional study; and respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 41092 PRACTICUM FOR RESPIRATORY CARE (ELR) 3 Credit Hours
An individually planned practicum that provides students the opportunity to explore real world application of program principles and practice options, or to conduct research within the realm of respiratory care under the guidance of a registered respiratory therapy practitioner. Focus is on options for practice or enhancing practice through application of program principles. Student's practicum experience requires prior faculty approval before registration.
Pre/corequisite: Admission to professional study; and RSPC 30000; RSPC 30002; RSPC 30004; RSPC 30006; RSPC 40006; RSPC 40075 or NURS 40075; NURS 46000; RSPC 40002; RSPC 40004; RSPC 40000 or RSPC 40008; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Respiratory Therapy (RESP)

RESP 10000 INTRODUCTION TO RESPIRATORY THERAPY 4 Credit Hours
Establishes a foundation in the profession of respiratory care. Topics include: patient assessment and monitoring, medical gas and humidity therapy, infection control, communication and diversity, clinical environment, patient education, disaster management, ethics and law, quality assurance and evidence based medicine, industry standards, healthcare reimbursement.
Prerequisite: Admission to technical study.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2.5 lab
Grade Mode: Standard Letter

RESP 11001 RESPIRATORY CARE PHARMACOLOGY 2 Credit Hours
Basic principles in pharmacology, specific to respiratory care, covering the pharmacokinetic action of drugs, administration, calculations, and effects on the body systems.
Prerequisite: RESP 11003 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RESP 11002 CARDIOPULMONARY DISEASES 3 Credit Hours
A study of diseases and disorders affecting the cardiopulmonary system; etiology, pathophysiology, clinical manifestations, analyzing and interpreting data, constructing respiratory care plans and the role of the respiratory therapist in treatment.
Prerequisite: RESP 10000 and RESP 11003 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RESP 11003 APPLICATION AND MECHANISMS OF CARDIOPULMONARY ANATOMY AND PHYSIOLOGY 3 Credit Hours
Provides a solid foundation in cardiopulmonary anatomy and physiology with relevant applied physiology as it relates to the profession of respiratory care.
Prerequisite: Admission to technical study; and respiratory therapy technology major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RESP 11004 THERAPEUTICS 6 Credit Hours
Introduction to inhaled medication administration, hyperinflation therapy, bronchopulmonary hygiene, and airway management. There is a laboratory and clinical component.
Prerequisite: RESP 10000 and RESP 11003 with a minimum C grade.
Pre/corequisite: BSCI 20021; and ENG 11011 or ENG 21011.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 4 lecture, 3 lab, 7.4 other
Grade Mode: Standard Letter

RESP 11008 BLOOD GAS ANALYSIS 2 Credit Hours
A study of methods, equipment, and procedures for obtaining arterial blood; additionally, the principles and standards of analysis and applications of physiological data is stressed.
Prerequisite: RESP 10000 and RESP 11003 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.67 lecture, 1.33 lab
Grade Mode: Standard Letter

RESP 21000 CRITICAL CARE 4 Credit Hours
An advanced-level course that provides a foundation for managing patients in critical care utilizing mechanical ventilation, pharmacology, and hemodynamic monitoring systems. Students perform, interpret and apply data, and learn advanced life support. There is a clinical component.
Prerequisite: RESP 21001 and RESP 21003 with a minimum C grade.
Schedule Type: Clinical Laboratory, Lecture
Contact Hours: 3 lecture, 12.8 other
Grade Mode: Standard Letter

RESP 21001 MECHANICAL VENTILATION 5 Credit Hours
Establishes a foundation of mechanical ventilation and associated equipment; assessment, monitoring and modifying parameters. There is a laboratory and clinical component.
Prerequisite: Minimum C grade in RESP 11001 or AHS 12000; and minimum C grade in RESP 11002,RESP 11004 and RESP 11008; and minimum C grade BSCI 11010 and BSCI 11020 or BSCI 21010 and BSCI 21020; and minimum C grade in CHEM 10050 or CHEM 10055 or CHEM 10060; and minimum C grade in ENG 11011 or ENG 21011 or HONR 10197 or HONR 10297.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 3 lecture, 3 lab, 14.93 other
Grade Mode: Standard Letter

RESP 21003 PERINATAL AND PEDIATRIC RESPIRATORY THERAPY 2 Credit Hours
An intense study of assessing, providing, and evaluating neonatal and pediatric respiratory care. Topics include: assessment of growth and development from conception to delivery, resuscitation, persistent illness, therapeutic interventions, and managing mechanical ventilation.
Prerequisite: RESP 11001 or AHS 12000 with a minimum grade of C; and minimum C grade in RESP 11002 and RESP 11004 and RESP 11008.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 1 lab
Grade Mode: Standard Letter

RESP 21004 ADVANCED DIAGNOSTICS 3 Credit Hours
Provides knowledge and skills necessary to work effectively in a pulmonary function laboratory. Topics include: spirometry, testing standards and techniques, equipment set up and utilization, analyzing test results and applying them in the clinical setting.
Prerequisite: RESP 11003 and RESP 11008 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

RESP 21006 PULMONARY REHABILITATION AND CONTINUING CARE 1 Credit Hour
Roles and functions of respiratory therapists in cardiopulmonary rehabilitation and home care.
Prerequisite: RESP 21001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RESP 21013 RESPIRATORY THERAPY CAPSTONE 2 Credit Hours
Contemporary issues and trends in respiratory care, preparation for the Respiratory Therapy entry level credentialing examinations and transitioning into the role of Respiratory Care Practitioner.
Prerequisite: RESP 21000 with minimum C grade.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 1 lecture, 1 lab, 16 other
Grade Mode: Standard Letter

RESP 21095 SPECIAL TOPICS IN RESPIRATORY THERAPY 1-3 Credit Hours
(Repeatable for credit) Select topics of interest to students and faculty.
Prerequisite: Special Approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

RESP 21096 INDIVIDUAL INVESTIGATION IN RESPIRATORY THERAPY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Readings and/or investigation of respiratory therapy topics supervised by respiratory therapy faculty.
Prerequisite: Respiratory therapy majors.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

Russian (RUSS)

RUSS 12201 ELEMENTARY RUSSIAN I 4 Credit Hours
An introduction to the Russian language in the context of Russian cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

RUSS 12202 ELEMENTARY RUSSIAN II 4 Credit Hours
A continuation of the introduction to the Russian language in the context of Russian cultures.
Prerequisite: RUSS 12201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

RUSS 22201 INTERMEDIATE RUSSIAN I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: RUSS 12202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 22202 INTERMEDIATE RUSSIAN II 3 Credit Hours
Continuation of RUSS 22201 in the development of speaking, listening, reading and writing in a variety of Russian cultural contexts.
Prerequisite: RUSS 22201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 22215 RUSSIAN PHONETICS AND DICTION 3 Credit Hours
Study of the Russian sound system with special emphasis on pronunciation and intonation. Application of the international phonetic alphabet to Russian.
Prerequisite: RUSS 12202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32201 INTENSIVE RUSSIAN GRAMMAR 3 Credit Hours
A systematic approach to Russian grammar and syntax.
Prerequisite: RUSS 22202 .
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32211 COMPOSITION AND CONVERSATION 3 Credit Hours
Introduction to advanced oral and written discourse strategies in Russian.
Prerequisite: RUSS 22202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32231 TRANSLATION PRACTICE: RUSSIAN 1 Credit Hour
Translation practice with Russian texts using principles and techniques learned in the lecture class.
Prerequisite: RUSS 22202.
Pre/corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RUSS 32240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: RUSSIAN 3 Credit Hours
Introduction to the special vocabulary of business and other special subject areas. Course introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations and oral presentations in business and other related settings.
Prerequisite: RUSS 22202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32303 MODERN WRITERS (ELR) (WIC) 3 Credit Hours
Reading and analysis of modern Russian plays and stories.
Prerequisite: RUSS 22202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

RUSS 32320 PROSE OF VLADIMIR NABOKOV 3 Credit Hours
A study of selected prose works of Russian-American author Vladimir Nabokov. This course is taught in English and is open to students in any program.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32421 RUSSIAN CIVILIZATION (ELR) (WIC) 3 Credit Hours
A survey of Russian cultural history and intellectual life in the pre-Soviet, Soviet, and post-Soviet periods.
Prerequisite: RUSS 32201 or RUSS 32211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

RUSS 32501 RUSSIAN LITERATURE IN ENGLISH 3 Credit Hours
Survey of major authors, movements and works of Russian literature from the early nineteenth century to present in English translation. No knowledge of Russian is required.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 42095 SPECIAL TOPICS IN RUSSIAN LANGUAGE AND LITERATURES 1-4 Credit Hours
(Repeatable for credit) Topic varies per course offering; to be announced in schedule of classes.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

RUSS 42096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Russian language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Russian (RUSS) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

RUSS 42211 ADVANCED COMPOSITION AND CONVERSATION 3 Credit Hours
(Slashed with RUSS 52211) Advanced practice in written and oral expression in Russian through engagement with visual media.
Prerequisite: RUSS 32211 or RUSS 32201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 42216 RUSSIAN POPULAR CULTURE 3 Credit Hours
This course offers students a chance to familiarize themselves with prominent figures in Russian culture of the post-Soviet period, including journalists, actors, musicians, athletes, film directors, and other cultural personalities. The students will engage in thinking and communicating across a range of disciplines, such as history, literature, sociology, and anthropology. The course focuses on students' advanced oral and written production. Learners will acquire cultural knowledge and analyze developments in post-Soviet Russian culture while expanding their vocabulary and structures.
Prerequisite: RUSS 32201 or RUSS 32211.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

RUSS 42230 ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC) 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes Russian-to-English translation of selected texts in business, technology, medicine and law.
Prerequisite: RUSS 32231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

RUSS 42240 BUSINESS AND SPECIAL TEXTS: RUSSIAN 3 Credit Hours
Survey of typical business-related text types in Russian. Focus on reading and understanding specialized business-related texts and on the translation and composition of selected special texts in Russian.
Prerequisite: Any 30000-level Russian course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 42351 SURVEY OF RUSSIAN AND SOVIET LITERATURE 3 Credit Hours
(Slashed with RUSS 52351) Introduces students to the major movements and authors of Russian, Soviet and post-Soviet literature, from the late eighteenth century to today.
Prerequisite: 3 credit hours of upper-division Russian courses (RUSS 30000 or 40000 levels).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 52211 ADVANCED COMPOSITION AND CONVERSATION 3 Credit Hours
(Slashed with RUSS 42211) Advanced practice in written and oral expression in Russian.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 52351 SURVEY OF RUSSIAN AND SOVIET LITERATURE 3 Credit Hours
(Slashed with RUSS 42351) Introduces students to the major movements, authors and works of Russian, Soviet and post-Soviet literature, beginning in the late eighteenth century and ending in the early twenty first century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 62010 THE PRACTICE OF RUSSIAN TRANSLATION 2 Credit Hours
Students apply linguistic and communication science concepts to case studies of language mediation.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RUSS 62091 SEMINAR IN RUSSIAN TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized Russian translation projects currently of concern in the translation industry. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: RUSS 62010 and TRST 60010; and graduate studies.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

RUSS 62098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Russian language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

RUSS 62240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treaties and essays. Translation into Russian will also be emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 62250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 62251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resource for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 62979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students are responsible for a major translation and a terminology glossary, as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

School Psychology (SPSY)

SPSY 60093 VARIABLE TITLE WORKSHOP IN SCHOOL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for credit)
Prerequisite: Grading standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

SPSY 60162 DEVELOPMENTAL ASSESSMENT 3 Credit Hours
Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool, kindergarten and primary grade children. 24 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 60165 PRINCIPLES OF SOCIAL LEARNING 3 Credit Hours
The main focus is to provide students with an understanding of behavioral and social learning principles within the context of the school psychologist's professional practice. 19 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 60191 SEMINAR:SCHOOL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for credit)Seminar in school psychology. Varied topics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

SPSY 67592 FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS 2 Credit Hours
This field experience provides students with the opportunity to observe various school and educational settings that reflect the typical work scope for school psychologists. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school-agency" before the first day of the semester in which student teaching internship will take place.
Prerequisite: School psychology major; and graduate standing.
Schedule Type: Field Experience
Contact Hours: 8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67692 PRACTICUM I IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with SPSY 77692) This course provides students with experience, support, and opportunities for reflection related to the foundational domains of the practice of school psychology and ongoing professional development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to the beginning of any field-based activities.
Prerequisite: School psychology major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67792 PRACTICUM II IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with SPSY 77792) Provides students with applied experience and professional development related to foundational domains of school psychology practice. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.
Prerequisite: SPSY 67692 or SPSY 77692; and school psychology major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67892 ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY 3-6 Credit Hours
(Repeatable for credit) (Slashed with SPSY 77892) Provides students with advanced applied experience in educational, mental health, or behavioral health settings. 60 clock hours per credit hour. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.
Prerequisite: SPSY 67792; and school psychology major; and graduate standing and; special approval.
Schedule Type: Practical Experience
Contact Hours: 12-24 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67912 ROLE OF THE SCHOOL PSYCHOLOGIST 3 Credit Hours
Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. Five clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPSY 67920 DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS 3 Credit Hours
Provides overview of diagnosis of child and adolescent behavior disorders (ADHD, conduct problems) emotional and social disorders (depression, anxiety, phobias) and developmental acquired disorders (autism, mental retardation).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67925 INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour
Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPSY 67926 INTRODUCTION TO DIGITAL CITIZENSHIP FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour
(Slashed with SPSY 77926) This course is designed to provide students with an introductory understanding of the fundamental issues and practices of technology in school psychology. Students will gain skills related to: (a) ethical and professional use of technology; (b) evaluate features of various technology systems; (c) identify functional intervention goals to which technology can contribute; and (d) use technology to collect, analyze, summarize, and report student performance to aid instructional decision-making.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPSY 67928 GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours
Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67929 INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours
(Slashed with SPSY 77929) Review of individual counseling techniques. Skills developed in communication, interviewing, problem identification, goal setting and program development are fostered by lecture, video feedback and simulation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67931 PROGRAM DEVELOPMENT AND ETHICAL APPLICATION OF APPLIED BEHAVIOR ANALYSIS 3 Credit Hours
Describe and apply methodology and research design in monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to ethics, treatment implementation fidelity, and behavioral program development are also emphasized.
Prerequisite: SPED 53030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67932 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours
Use and interpretation of functional behavioral assessment sin educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs.
Prerequisite: SPED 53030 and SPSY 67920 or SPSY 77920; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67951 COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS 3 Credit Hours
Training and experience in administrating, scoring and interpreting cognitive measures for children and adolescents and writing reports. 30 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67955 INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Training in administration, scoring and interpretation of normative and non-normative measures of academic achievement, instructional environment and writing psychoeducational and team reports. 25 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67960 INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS 3 Credit Hours
Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67965 INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school based academic referrals within a problem solving model. Requires 25 clinical field hours.
Prerequisite: SPSY 67955; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67970 LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY 3 Credit Hours
Ethical, legal and professional issues of school psychologists and counselors will be explored. Considerations of law, regulations, ethical standards and codes of professional practice of related professional organizations will be addressed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67971 ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67972 SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Training in administration, scoring and interpretation of techniques for assessment of social emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/ agency" before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67973 CONSULTATION IN THE HELPING PROFESSIONS 3 Credit Hours
Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem solving models and crisis consultation. 20 clinical/field hours.
Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SPSY 67974 SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY 3 Credit Hours
Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for school-based social and emotional referrals within an eco- behavioral problem-solving model. 25 clinical field hours.
Prerequisite: SPSY 67972; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67975 HOME, SCHOOL AND COMMUNITY COLLABORATION 3 Credit Hours
(Slashed with SPSY 77975) This course is designed to familiarize school psychologists with essential attitudes, approaches, and actions necessary to form successful family-school-community partnerships that can foster development and learning.
Prerequisite: School psychology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67995 SPECIAL TOPICS IN SCHOOL PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit)Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPSY 67996 INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit)Independent reading and/or research directed by a graduate faculty member.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67998 INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY 1-9 Credit Hours
(Repeatable for credit)Student pursues research project on selected aspect of school psychology under supervision of instructor. Arrangements with instructor must be made prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 70093 VARIABLE TITLE WORKSHOP IN SCHOOL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

SPSY 70162 DEVELOPMENTAL ASSESSMENT 3 Credit Hours
Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool kindergarten and primary grade children. 24 clinical field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 70165 PRINCIPLES OF SOCIAL LEARNING 3 Credit Hours
The main focus is to provide students with an understanding of behavioral and social learning principles within the context of the school psychologist's professional practice.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 70191 SEMINAR:SCHOOL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for credit)Seminar in school psychology. Varied topics.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

SPSY 77592 FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS 2 Credit Hours
This field experience provides students with the opportunity to observe various school and educational settings that reflect the typical work scope for school psychologists. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school-agency" before the first day of the semester in which student teaching internship will take place.
Prerequisite: School psychology major; and graduate standing.
Schedule Type: Field Experience
Contact Hours: 8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77692 PRACTICUM I IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with SPSY 67692) This course provides students with experience, support, and opportunities for reflection related to the foundational domains of the practice of school psychology and ongoing professional development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to the beginning of any field-based activities.
Prerequisite: School psychology major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77792 PRACTICUM II IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with SPSY 67792) Provides students with applied experience and professional development related to foundational domains of school psychology practice. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.
Prerequisite: SPSY 67692 or SPSY 77692; and school psychology major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77892 ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY 3-6 Credit Hours
(Repeatable for credit) (Slashed with SPSY 67892) Provides students with advanced applied experience in educational, mental health, or behavioral health settings. 60 clock hours per credit hour. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.
Prerequisite: SPSY 77792; and school psychology major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 12-24 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77912 ROLE OF THE SCHOOL PSYCHOLOGIST 3 Credit Hours
Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. Five clinical field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPSY 77920 DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS 3 Credit Hours
Provides overview of diagnosis of child and adolescent behavior disorders (ADHD,conduct problems) emotional and social disorders (depression, anxiety, phobias) and developmental acquired disorders (autism, mental retardation).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77925 INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour
Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPSY 77926 INTRODUCTION TO DIGITAL CITIZENSHIP FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour
(Slashed with SPSY 67926) This course is designed to provide students with an introductory understanding of the fundamental issues and practices of technology in school psychology. Students will gain skills related to: (a) ethical and professional use of technology; (b) evaluate features of various technology systems; (c) identify functional intervention goals to which technology can contribute; and (d) use technology to collect, analyze, summarize, and report student performance to aid instructional decision-making.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPSY 77928 GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours
Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77929 INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours
(Slashed with SPSY 67929) Review of individual counseling techniques. Skills developed in communication interviewing problem identification goal setting and program development are fostered by lecture, video feedback and simulation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77932 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours
Use and interpretation of functional behavioral assessment sin educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs.
Prerequisite: SPED 53030 and SPSY 67920 or SPSY 77920; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77951 COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS 3 Credit Hours
Training and experience in administrating, scoring and interpreting cognitive measures for children and adolescents and writing reports. 30 clinical/field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77955 INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Training in administration, scoring and interpretation of normative and non-normative measures of academic achievement instructional environment and writing psychoeducational and team reports. 25 clinical field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77960 INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS 3 Credit Hours
Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77965 INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school-based academic referrals within a problem-solving model. Requires 25 clinical field hours.
Prerequisite: SPSY 77955; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77970 LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY 3 Credit Hours
Ethical, legal and professional issues of school psychologists and counselors will be explored. Considerations of law, regulations, ethical standards and codes of professional practice of related professional organizations will be addressed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77971 ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship.
Prerequisite: Doctoral standing; and permission.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77972 SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Training in administration, scoring and interpretation of techniques for assessment of social, emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/ agency" before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77973 CONSULTATION IN THE HELPING PROFESSIONS 3 Credit Hours
Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem-solving models and crisis consultation. 20 clinical/field hours.
Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SPSY 77974 SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY 3 Credit Hours
Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for school-based social and emotional referrals within an eco- behavioral problem-solving model. 25 clinical/field hours.
Prerequisite: SPSY 77972; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77975 HOME, SCHOOL AND COMMUNITY COLLABORATION 3 Credit Hours
(Slashed with SPSY 67975) This course is designed to familiarize school psychologists with essential attitudes, approaches, and actions necessary to form successful family-school-community partnerships that can foster development and learning.
Prerequisite: School psychology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77980 INTEGRATING EXPERIENCE IN SCHOOL PSYCHOLOGY 2 Credit Hours
This course requires student to research, study and develop expertise in a particular facet of school psychology and to present these findings at the conclusion of his her training program. Restricted to students in school psychology Ed.S. program. 38 clinical field hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

SPSY 77992 SPECIALIST INTERNSHIP IN SCHOOL PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit) The internship experience provides students with the opportunity to develop and practice the professional roles and functions of a school psychologist in an approved school setting. Students complete one academic year of internship in schools (minimum of 1,200 clock hours) under the supervision of a university supervisor and a certified school psychologist who is employed by a school system. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school-agency" before the first day of the semester in which student teaching internship will take place.
Prerequisite: School psychology major; and graduate standing; and guest students with permission.
Schedule Type: Practical Experience
Contact Hours: 7-40 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77995 SPECIAL TOPICS IN SCHOOL PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit)Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPSY 77996 INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit)Independent reading and/or research directed by a graduate faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77998 INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY 1-9 Credit Hours
(Repeatable for credit)Student pursues research project on selected aspect of school psychology under supervision of instructor. Arrangements with instructor must be made prior to registration.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Exploration of philosophical, definitional and attitudinal issues in the helping professions. Involvement in current activities of professional life through collaborative work with professors other students and practitioners.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPSY 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all dissertation requirements are met.
Prerequisite: SPSY 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 87987 PROFESSIONAL SEMINAR IN SCHOOL PSYCHOLOGY 3 Credit Hours
A professional seminar focused on the identity, history and development of school psychology with special emphasis on current professional issues.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 87992 DOCTORAL INTERNSHIP IN SCHOOL PSYCHOLOGY 1-6 Credit Hours
Repeatable for credit) The internship experience provides students with the opportunity to develop and practice the professional roles and functions of a school psychologist in an approved school setting. Students complete one academic year of internship in schools (minimum of 1,500 clock hours) under the supervision of a university supervisor and a licensed school psychologist who is employed by a school system. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school-agency" before the first day of the semester in which student teaching internship will take place.
Prerequisite: School psychology major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 10-60 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 87998 RESEARCH SEMINAR IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)Selected research topics in school psychology. Significant research literature is reviewed; research design methods and issues are presented and small research projects are conducted.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

Social and Behavioral Sciences (SBS)

SBS 50196 INDIVIDUAL INVESTIGATION IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
(Repeatable for credit) Individual graduate investigation or research in areas related to social and behavioral sciences.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

SBS 60002 QUANTITATIVE METHODS IN SOCIAL AND BEHAVIORAL SCIENCES 3 Credit Hours
Introduces basic quantitative methods used in social and behavioral scientific research. First we focus on the measurement of socio-behavioral phenomena and the relationship between measurement and statistics. Next, we examine the interrelated roles of scientific theory and the design of socio-behavioral research studies. Last, we focus on building appropriate multiple linear regression and or analysis of variance statistical models to provide valid analysis of data collected in socio-behavioral research.
Prerequisite: BST 62019; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 60020 PROGRAM EVALUATION II: APPLICATION IN THE REAL WORLD 3 Credit Hours
(Slashed with SBS 80020) This course provides students with a more in-depth examination of program evaluation for public health professionals and the opportunity to apply their evaluation knowledge and skills to an existing health intervention. The content delves deeply into formative and summative evaluation, including theoretical underpinnings, professional standards, research design and data collection and analysis. Students are required to apply this knowledge to a selected program and produce an evaluation proposal acceptable for submission to a funding agency.
Prerequisite: HPM 63011; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 60021 SOCIAL AND BEHAVIORAL SCIENCE THEORIES 3 Credit Hours
Examines fundamental social and behavioral science theoretical frameworks that explain health behaviors with an emphasis on application through universal prevention approaches to inform both research and program evaluation designs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 60030 CODING FOR QUALITATIVE RESEARCH 1 Credit Hour
(Slashed with SBS 80030) The purpose of this course is to provide students with a brief but thorough overview of the basic process of coding text-based, unstructured data for qualitative research projects. Focus is on coding for descriptive or basic qualitative research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 15 lecture
Grade Mode: Standard Letter

SBS 60040 TRANSCRIBING INDIVIDUAL AND GROUP INTERVIEWS FOR QUALITATIVE RESEARCH 1 Credit Hour
(Slashed with SBS 80040) The purpose of this course is to provide students an overview of, and applied practice in transcribing audio-recorded interview data as preparation for qualitative analysis techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 15 lecture
Grade Mode: Standard Letter

SBS 60191 VARIABLE CONTENT SEMINAR IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Seminar on current and important topics in social and behavioral sciences. Subject matter varies depending on the topic.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SBS 60195 SPECIAL TOPICS IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours)Special topics to sample new offerings on topics in social and behavioral sciences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SBS 60392 APPLIED PRACTICE EXPERIENCE IN SOCIAL AND BEHAVIORAL SCIENCES 3,6 Credit Hours
(Repeatable for credit) Observation and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SBS 60492 APPLIED PRACTICE EXPERIENCE IN SOCIAL AND BEHAVIORAL SCIENCES II 1 Credit Hour
(Repeatable for credit) Continuing enrollment for students participating in public health activities of a public health agency, hospital or other approved organization. Students complete the field experience with joint supervision from the university and an approved organization or agency.
Prerequisite: SBS 60392; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SBS 63008 GRANT WRITING IN SOCIAL AND BEHAVIORAL SCIENCES 3 Credit Hours
Students learn the basics of grant writing for federal and non-federal funding agencies with a particular emphasis on the components of most proposals for funding. This includes rationale for seeking funds, collaborations with community organizations and working with consultants and subcontractors. Students also learn about the basic sections of grant writing such as specific aims and hypotheses, developing a literature review, background and significance, research design and methodology, developing a budget and conducting research with human subjects. Students have an opportunity to write sample grant proposals and learn about the review and scoring process and post-award grant management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 63010 QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH 3 Credit Hours
(Slashed with SBS 83010) In this course, students will be guided through exploration of the uses and value of qualitative approaches to research with humans through a combination of resource review and guided applied practice. Students will be provided with information about various methodologies that comprise qualitative inquiry, and will engage in practice efforts to analyze provided data, and to assess the quality of research reports.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 63011 QUALITATIVE DATA ANALYSIS 3 Credit Hours
(Slashed with SBS 83011) Students will be introduced to the process and goals of qualitative data analysis relevant to research design and study purpose, and will be provided opportunities to conduct coding and other types of analysis of qualitative data using both computer assisted and manual processes. Students will focus on descriptive or generic approaches for both qualitative and mixed methods research. Students will additionally learn about and be provided opportunities for guided practice in quality control measures that include creation of an audit trail, "member checking," composition of analytic memos, and other forms of researcher initiated documentation.
Prerequisite: SBS 63010 or special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 63030 SEMINAR IN SOCIAL AND BEHAVIOR SCIENCES 3 Credit Hours
Explores case studies in the social and behavioral sciences on topics that address the leading health indicators including substance use (alcohol, tobacco and other drugs), obesity (physical activity and nutrition), HIV and STIs, mental health, injury, immunization, access to healthcare and social determinants of health.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SBS 64600 EMERGING ISSUES IN LGBTQ+ PUBLIC HEALTH PRACTICE 3 Credit Hours
This course is an overview of emerging issues and their related challenges in the field of LGBTQ+ public health practice. In particular, this course focuses on emerging LGBTQ+ public health issues, with special emphasis on several current public health topics. Lectures, reading assignments, videos, assignments and individual projects are used to introduce students to the diversity and complexity of emerging public health issues and challenges associated with addressing emerging public health issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 64630 SEXUAL ORIENTATION AND GENDER IDENTITY IN PUBLIC HEALTH PRACTICE 3 Credit Hours
This course introduces students to the diverse concepts of sexual orientation and gender identity through the lens of public health practice. The course prepares public health leaders and clinical practitioners to think critically about the unique health concerns and inherent systems of homophobia and heterosexism that negatively impact the health of the LGBTQ+ community and how to navigate LGBTQ+ public health practice to make positive community health change. Lectures, reading assignments, videos, assignments and individual projects are used to introduce students to the diversity and complexity of emerging public health issues and the challenges associated with addressing emerging public health issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 64634 SOCIAL DETERMINANTS OF HEALTH BEHAVIORS 3 Credit Hours
(Slashed with SBS 74634) Overviews the social determinants of health and dynamic interplay between individual behaviors and community structures (systems orientation), including public policy, social and built environments, commercial messages, access to services, cultural norms, psychosocial hazards and poverty as causal effects that either provide opportunity or constraints to health. Also examines systems approaches to preventing public health threats from issues including substance use (alcohol, tobacco and other drugs), physical inactivity, poor dietary practices, unsafe sexual behaviors, violence and injury and mental health.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 64700 COMMUNITY-BASED SUBSTANCE ABUSE PREVENTION FOR PUBLIC HEALTH PROFESSIONALS 3 Credit Hours
This course provides foundational knowledge for substance abuse prevention. In addition, this course enhances the knowledge and skills of public health professionals to enable them to implement evidence-based substance use prevention interventions and policies. The primary emphasis is on evidence-based interventions, policies and implementation quality and sustainability.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 64701 COMMUNITY-BASED PUBLIC HEALTH IMPLEMENTATION SYSTEMS 3 Credit Hours
This course focuses on public health prevention science and its application to the implementation of substance use interventions. The content focuses on community systems for addressing substance use problems that affect whole communities. These community systems incorporate evidence-based prevention interventions at various levels of influence within a socio-ecological perspective. Students will examine the development of community organizations that come together to address specific problems, and how they network and integrate with existing organizations that provide community services. The content draws from the International Standards on Drug Use Prevention that were published by the United Nations Office on Drugs and Crime (2013; 2015) and the European Drug Prevention Quality Standards published by the European Monitoring Centre on Drugs and Drug Addiction (2011). Primary emphasis is on evidence-based interventions and policies and on implementation quality and sustainability.
Prerequisite: SBS 64700; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 65010 RACISM: A PUBLIC HEALTH CRISIS 3 Credit Hours
Across the US, an increasing number of communities have declared racism as a public health crisis. This declaration is not based on an isolated incident, rather, it is the acknowledgement that racism is structural and has been embedded within the institutional policies and societal norms that are present in our everyday lives. This course will: Recognize racism in the US as a significant cause of poor health, disease, and persistent dis-ease among Black Americans; Explore the relationship between racism and health through a historic accounting of social, political, economic, and environmental conditions post-slavery through the current events of 2020; and, identify how, research, and advocacy can address anti-Black racism and promote health equity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 73018 THEORIES OF PREVENTION SCIENCE 3 Credit Hours
Provides a background and theoretical review of prevention science as a multi-disciplinary field focusing on systematic inquiry on health behaviors including substance use (alcohol, tobacco and other drugs), physical activity, dietary practices, mental health, violence and injury and sexual behaviors.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 73019 EVALUATION RESEARCH METHODS IN PREVENTION SCIENCE 3 Credit Hours
This course examines the methods used by prevention science researchers to determine the effectiveness of public health programs. Focus is on advanced formative, process, impact and outcome evaluation methods. Qualitative and quantitative analysis techniques used for assessing program process and effects are discussed in the context of research evaluation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 73020 ADVANCED RESEARCH METHODS IN PREVENTION SCIENCE 3 Credit Hours
Focuses primarily on advanced quantitative methods in the application of prevention science.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 74634 SOCIAL DETERMINANTS OF HEALTH BEHAVIORS 3 Credit Hours
(Slashed with SBS 64634) Overviews the social determinants of health and dynamic interplay between individual behaviors and community structures (systems orientation), including public policy, social and built environments, commercial messages, access to services, cultural norms, psychosocial hazards and poverty as causal effects that either provide opportunity or constraints to health. Also examines systems approaches to preventing public health threats from issues including substance use (alcohol, tobacco and other drugs), physical inactivity, poor dietary practices, unsafe sexual behaviors, violence and injury and mental health.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 80020 PROGRAM EVALUATION II: APPLICATION IN THE REAL WORLD 3 Credit Hours
(Slashed with SBS 60020) This course provides students with a more in-depth examination of program evaluation for public health professionals and the opportunity to apply their evaluation knowledge and skills to an existing health intervention. The content delves deeply into formative and summative evaluation, including theoretical underpinnings, professional standards, research design and data collection and analysis. Students are required to apply this knowledge to a selected program and produce an evaluation proposal acceptable for submission to a funding agency.
Prerequisite: HPM 63011; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 80030 CODING FOR QUALITATIVE RESEARCH 1 Credit Hour
(Slashed with SBS 60030) The purpose of this course is to provide students with a brief but thorough overview of the basic process of coding text-based, unstructured data for qualitative research projects. Focus is on coding for descriptive or basic qualitative research; other methodologies are reviewed based on student needs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 15 lecture
Grade Mode: Standard Letter

SBS 80040 TRANSCRIBING INDIVIDUAL AND GROUP INTERVIEWS FOR QUALITATIVE RESEARCH 1 Credit Hour
(Slashed with SBS 60040) The purpose of this course is to provide students an overview of, and applied practice in transcribing audio-recorded interview data as preparation for qualitative analysis techniques, using both content-focused and conversation-analytic approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 15 lecture
Grade Mode: Standard Letter

SBS 80100 EMERGING ISSUES IN PREVENTION SCIENCE 3 Credit Hours
Survey of relevant challenges and issues facing prevention science researchers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 80191 VARIABLE CONTENT SEMINAR IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Seminar on current and important topics in social and behavioral sciences. Subject matter varies depending on the topic.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SBS 80195 SPECIAL TOPICS IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in social and behavioral sciences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SBS 80196 INDIVIDUAL INVESTIGATION IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
Individual graduate investigation or research in areas related to social and behavioral sciences.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

SBS 80198 DIRECTED RESEARCH IN PREVENTION SCIENCE 1-6 Credit Hours
(Repeatable for credit) Directed research or individual investigation for doctoral students.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

SBS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of Dissertation II and 30 hours of total dissertation work.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SBS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Second course of dissertation sequence completing requirement of with 30 total hours of dissertation work.
Prerequisite: SBS 80199; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SBS 83010 QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH 3 Credit Hours
(Slashed with SBS 63010) In this course, students will be guided through exploration of the uses and value of qualitative approaches to research with humans through a combination of resource review and applied practice. Students will be provided with information about various methodologies that comprise qualitative inquiry, and will engage in practice efforts to gather, process, and analyze data, and to assess the quality of research reports.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 83011 QUALITATIVE DATA ANALYSIS 3 Credit Hours
(Slashed with SBS 63011) Students will be introduced to the process and goals of qualitative data analysis relevant to research design and study purpose, and will be provided opportunities to conduct coding and other types of analysis of qualitative data using both computer assisted and manual processes. Qualitative approaches potentially considered in this course include grounded theory, phenomenology, descriptive or generic approaches, content analysis, mixed methods, and others depending on needs and interests of students in the class. Students will additionally learn about and practice quality control measures that include creation of an audit trail, "member checking," composition of analytic memos, and other forms of researcher initiated documentation.
Prerequisite: SBS 83010; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Social Work (SWK)

SWK 24140 INTRODUCTION TO SOCIAL WORK 3 Credit Hours
Course provides an overview of the field of social work, including the historical development of social welfare, social work processes and programs and the emergence of social work as a profession. The impact of diverse leaders in social work is explored. Students are exposed to various career opportunities related to social work micro, mezzo and macro practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

SWK 24146 PERSPECTIVES ON BEHAVIOR AND ENVIRONMENT I 3 Credit Hours
An overview of human development throughout the life span. Students examine developmental stages, tasks and situational environmental influence upon individuals throughout their lives. The organization of the course includes instruction regarding the impact of psychological, biological, spiritual and social systems on individual lifespan development. Assess social work theories and knowledge base. Explore protective and risk factors throughout the life course.
Pre/corequisite: SWK 24140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 24147 PERSPECTIVES ON BEHAVIOR AND ENVIRONMENT II 3 Credit Hours
Course increases students' potential for effective generalist social work assessment and interventions with individuals, families, groups, organizations, social systems and communities. The influence of "person-in-environment" perspective is taken regarding influences that affect individuals' lives. Students explore microsystems, mesosystems and macrosystems, in addition to risk and protective factors for systems of various sizes.
Prerequisite: SWK 24140 and SWK 24146.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SWK 25100 SOCIAL WORK IN RURAL SETTINGS 3 Credit Hours
Course explore the challenges, special needs and cultural beliefs of those individuals and families living in rural communities. In the course, students (1) discuss and build upon strengths of rural individuals and communities; (2) examine needs and issues of special populations and vulnerable groups in rural areas; and (3) develop and apply innovative social work interventions and programs.
Prerequisite: SWK 24140.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SWK 25195 SPECIAL TOPICS IN SOCIAL WORK 1-4 Credit Hours
(Repeatable for credit) In-depth examination of particular topics of current interest to students. Specialized areas of social work theory or practice may be covered. Specific topics vary per offering and will be listed by title in the Schedule of Classes.
Prerequisite: SWK 24140.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

SWK 25248 SOCIAL WELFARE POLICY 3 Credit Hours
Analysis of social welfare systems, policies, programs, services and practice. Critical exploration of social welfare policy in relation to government policy development. In the course, students (1) examine philosophical, historical and present day perspectives; (2) assess social welfare policies at the local, state and federal levels; and (3) review the impact of leaders and legislation in the field of social work.
Pre/corequisite: SWK 24140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

SWK 34140 PRACTICE CONTENT FOR SOCIAL WORK I 3 Credit Hours
Students engage in coursework related to micro-level social work practice. Course focuses on practice with diverse individuals and families and utilizes evidence-based models. Included are introductions to the DSM-5, treatment planning and medical terminology. Also covered are family systems, dynamics, culturally competent practice and diversity within families. Students examine risk factors and protective factors, in addition to the impact of environmental factors on individuals and families such as poverty, unemployment, discrimination, community violence and rural and urban settings. Additional factors such as substance use, intimate partner violence and child abuse are discussed.
Prerequisite: SWK 24140.
Pre/corequisite: SWK 24146.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 34141 PRACTICE CONTENT FOR SOCIAL WORK II 3 Credit Hours
Course considers the importance of group dynamics, processes, content and roles at the micro levels, as well as the use of groups in various agency, organizational and community settings. Experiential and traditional teaching methods are used. Group intervention and treatment skills are addressed in relation to social work values, ethics and diversity within the group setting. Students explore power dynamics and group composition.
Prerequisite: SWK 24140 and SWK 24146 and SWK 34140.
Pre/corequisite: SWK 24147.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 34149 APPLIED RESEARCH IN SOCIAL WORK 3 Credit Hours
As an orientation to research procedures for the prospective social work practitioner. Students examine the methods of scientific inquiry as applied in social work research. Concept formation, research design, procedures, sources, collection and the presentation of data are all explored. The course prepares future social work practitioner to aid in practice evaluation when they begin work in the field. Research design and statistical analysis are focused on, and students complete a research project.
Prerequisite: SWK 24140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 35120 SOCIAL WORK IN MENTAL HEALTH SETTINGS 3 Credit Hours
In the course, students discuss diagnosis and treatment of mental health disorders; learn how the DSM-5 and ICD-10 are used in diagnosis of mental health conditions; develop client treatment plans and discharge summaries; and examine various means of treatment of those with mental health conditions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 35121 SOCIAL WORK IN SUBSTANCE USE DISORDER SETTINGS 3 Credit Hours
In the course, students examine social work with individuals and communities with substance use disorders and dysfunction; assess signs, symptoms and treatment of substance use disorders; explore prevention, theory and concepts of substance use in individuals, families and communities; and discuss implications for families, organizations and communities using the person-in-environment perspective.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 35122 SOCIAL WORK IN CHILD WELFARE SETTINGS 3 Credit Hours
In the course, students learn identification of symptoms of child abuse and neglect; examine theories of prevention and treatment for victims of child abuse and neglect, incorporating aspects of trauma-informed care; and explore effective case management techniques and social work practices for child welfare.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 35123 SOCIAL WORK AND TRAUMA-INFORMED CARE 3 Credit Hours
Course provides students with the tools to acknowledge and learn about the impact of trauma on human behavior and mental health. Students examine risk and protective factors involved in fostering resilience in difficult circumstances, in addition to exploring prevention and the impact of adverse childhood experiences on children, adolescents and adults.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 35124 SOCIAL WORK PERSPECTIVES ON AGING 3 Credit Hours
Course is a survey of the special needs of older adults. Within a varied theoretical framework, students examine sociological, psychological and biological age-related concepts, needs, problems and issues. In addition, students use historical and current demographic data to understand societal patterns, trends and policies toward the elderly.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 35125 INTERPROFESSIONAL APPROACHES TO SUICIDE PREVENTION 3 Credit Hours
Using readings and interactive case studies from health sciences, public health, law and psychology, students address multi-level influences on suicide and its prevention. Topics covered include suicide prevention-related ethical issues, terminology, attitudes and social norms, vulnerable populations, risk/protective factors, and mental health services and public health approaches to suicide prevention.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 35195 SPECIAL TOPICS IN SOCIAL WORK 1-4 Credit Hours
(Repeatable for credit) In-depth examination of particular topics of current interest to students. Specialized areas of social work theory or practice may be covered. Specific topics vary per offering and will be listed by title in the Schedule of Classes.
Prerequisite: SWK 24140.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

SWK 35196 INDIVIDUAL INVESTIGATION IN SOCIAL WORK 1-4 Credit Hours
(Repeatable for credit) Provides students an opportunity to examine an individual topic of specialization within the field of social work while working closely with a faculty member. Involves a final project or research opportunity.
Prerequisite: SWK 24140.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

SWK 44192 FIELD EXPERIENCE I (ELR) 3 Credit Hours
Field work experiences are conducted in social service agencies, mental health settings, hospitals and non-profit organizations. This experiential learning builds upon students' foundation-level coursework and allows them to implement and use problem solving-skills, active listening, therapeutic techniques and a variety of interventions.
Prerequisite: Special approval.
Corequisite: SWK 44210.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

SWK 44210 INTEGRATIVE SEMINAR 3 Credit Hours
Promotes practice-theory integration emphasizing development of strong, ethical, and culturally competent social work practice skills. Supports students in their field experience in the seminar format with discussion and processing of practice issues, challenges and ethical dilemmas. Uses traditional and experiential learning to enhance students' learning environment.
Prerequisite: SWK 24140 and SWK 34140.
Pre/corequisite: SWK 34141.
Corequisite: SWK 44192.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SWK 44292 FIELD EXPERIENCE II (ELR) 3 Credit Hours
Students continue field work experiences in social service agencies, mental health settings, hospitals and non-profit organizations. This experiential learning builds upon students' foundation level coursework and allows them to implement and use problem solving-skills, active listening, therapeutic techniques and a variety of interventions.
Prerequisite: Special approval.
Corequisite: SWK 44299.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

SWK 44299 SOCIAL WORK CAPSTONE (ELR) (WIC) 3 Credit Hours
Course integrates comprehensive student learning involving theory, practice, methods and research. Students discuss and process the exhaustive knowledge and skills learned throughout the program. Culminates in a social work portfolio of completed papers, projects and/or videos.
Prerequisite: SWK 24140, SWK 34140, SWK 34141, SWK 44192 and SWK 44210.
Corequisite: SWK 44292.
Schedule Type: Project or Capstone, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

Sociology (SOC)

SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS) 3 Credit Hours
Scientific approach to understanding social interaction, institutions and organization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

SOC 22570 UNDERSTANDING DIFFERENCES AND INEQUALITY 3 Credit Hours
An introduction to the cultural and structural factors creating and sustaining educational, economic and political inequality by race, ethnicity, gender, class and sexual orientation with an emphasis on issues of poverty and immigration.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

SOC 22778 SOCIAL PROBLEMS (DIVG) (KSS) 3 Credit Hours
Contemporary American and global social problems and issues are analyzed from sociological perspectives. Several cases are used to illustrate the emergence, development and decline of problems in social context.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

SOC 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES 3 Credit Hours
(Equivalent to HDF 24011) Exploration of the sociological nature of families across the lifespan, focusing on structure, diversity and life course processes such as dating, mate selection, cohabitation, marriage, parenthood, divorce, remarriage, singlehood, widowhood, parent-child interactions, sexual orientation, inequality and difference.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

SOC 31092 PRACTICUM IN SOCIOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Individual research experience in Sociology.
Prerequisite: SOC 32210; and junior standing.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SOC 32005 CAREER PATHWAYS IN SOCIOLOGY AND CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours
(Cross-listed with CRIM 32005) This course equips students with an understanding of the career pathways available after completing a major or minor in sociology or criminology and justice studies. Provides students with a broad overview of career paths in sociology and criminology and justice studies while also helping students identify opportunities for internships and research while at Kent State.
Prerequisite: CRIM 12000 or SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 32096 INDIVIDUAL INVESTIGATION IN SOCIOLOGY 1-3 Credit Hours
(Repeatable for credit)Readings and/or research supervised by member of sociology faculty.
Prerequisite: SOC 12050; and junior standing; and special approval of instructor.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SOC 32210 RESEARCHING SOCIETY (ELR) (WIC) 3 Credit Hours
Survey of methods and techniques of research; research design and data gathering instruments; qualitative and quantitative analysis.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SOC 32220 DATA ANALYSIS 3 Credit Hours
The use of quantitative methods in the analysis of data from social research. Emphasis on descriptive statistics.
Prerequisite: SOC 12050.
Corequisite: SOC 32221.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 32221 DATA ANALYSIS LABORATORY 1 Credit Hour
Analysis of sociological data utilizing statistical and electronic data processing tools.
Corequisite: SOC 32220.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

SOC 32400 INDIVIDUAL AND SOCIETY 3 Credit Hours
Foundations of social psychology; process of socialization; development of social and personal identities; small group and collective behavior; theories of deviance.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 32510 JOBS, WORK AND INEQUALITY 3 Credit Hours
This course examines trends in the sociological relationships between jobs/occupations, work, the global economy and inequality. Specifically, the course focuses on relationships between work and power, job (in)security, resources, mobility and quality of life. Additionally, it examines how work is affected by social structure and social change; how individuals and groups end up in certain jobs/occupations; and future trends (e.g., gig work, labor unions, low wage work, demands for flexibility, remote work).
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 32560 SOCIOLOGY OF FAMILIES (DIVD) 3 Credit Hours
Social history of the American family. Examination of how race, ethnicity, sexual orientation, class, gender and age contribute to variation in the experience and structure of family life in the U.S.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 32565 SOCIOLOGY OF SEXUALITIES (DIVD) 3 Credit Hours
Examination of the social production, meaning, and consequences of identities, practices, and inequalities related to sexualities, gender identity and gender expression.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 32569 MINORITIES IN THE UNITED STATES (DIVD) 3 Credit Hours
Considers the nature and significance of minority groups and majority minority relations in the United States. Reviews experiences of racial and ethnic minorities, religious minorities, women, sexual minorities, the elderly and differently abled Americans.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, TAG Social and Behavioral Sciences

SOC 32570 INEQUALITY IN SOCIETIES (DIVD) 3 Credit Hours
Sociological analysis of stratification and inequality in societies, and the social structures that produce and maintain them. Particular emphasis on the intersections of race, class and gender in American society.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 32673 CITIES AND URBAN SOCIAL LIFE (DIVG) 3 Credit Hours
This course covers the history and development of urban areas over time (urbanization), paying attention to sociological theories of power and stratification. In addition, the class examines how sociological theories of culture and social interaction help to explain why people behave the way they do in different urban environments (urbanism). Finally, the course examines how different social, racial and cultural groups live their lives in the city, including urban poverty, immigration into and out of urban areas, race relations, the city as a center of the arts and various communities within the city (urban enclaves). Although the course emphasizes urban processes and lifestyles in the United States, we also spend some time on cities in Europe and countries like Mexico and discuss how they compare.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

SOC 32762 DEVIANT BEHAVIOR 3 Credit Hours
(Cross-listed with CRIM 32762) Overview of classical and contemporary theories and perspectives on the nature, causes and societal management of deviant behavior. Application of theories and perspectives to modern and historical social problems, methods of punishment and policy trends in social control.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42010 DEATH AND DYING 3 Credit Hours
(Slashed with SOC 52010) Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death, death as taboo, medicalization and rationalization of death and dying and disenfranchised grief.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42092 INTERNSHIP IN SOCIOLOGY (ELR) 1-9 Credit Hours
(Repeatable for credit) Real world experience and the application of sociological knowledge in work or organizational settings. Assist professionals at sites such as, but not limited to, social services, hospitals, industry and government.
Prerequisite: Minimum 2.000 overall GPA; and Sociology major or minor; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SOC 42093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours
(Repeatable for credit) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 42095 SPECIAL TOPICS IN SOCIOLOGY 3 Credit Hours
(Repeatable for credit) Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42126 SOCIOLOGICAL THEORIES 3 Credit Hours
(Slashed with SOC 52126) An examination of classical, modern and postmodern approaches to social theory.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42315 SOCIOLOGY OF GENDER (DIVD) 3 Credit Hours
(Slashed with SOC 52315) An examination of the institutions, institutional linkages and social processes that contribute to the construction and maintenance of gender and gender inequality.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 42359 SOCIAL MOVEMENTS 3 Credit Hours
(Slashed with SOC 52359) Investigation of various movements for social change. Examines the origins, developmental characteristics and the purposes of classic and contemporary movements.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42400 SELF AND IDENTITY 3 Credit Hours
Examines theories and research on the origin and behavioral consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42421 CHILDHOOD IN SOCIETY 3 Credit Hours
(Slashed with SOC 52421) How socio-historical circumstances shape the perception and experience of childhood as a distinct life stage. The process of childhood socialization in Western societies particularly the United States. An exploration of the distinct role of socializing agents-parents and siblings, school, peers and media.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42478 ADOLESCENCE IN SOCIETY 3 Credit Hours
(Slashed with SOC 52478) Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class and race differences in adolescence the significance of youth movements, with an emphasis on music as a dominant expression of youth culture.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42558 WEALTH, POVERTY AND POWER 3 Credit Hours
(Slashed with SOC 52558) Sociological examination of economic stratification; focuses on the translation of class into power via politics, education and collective struggle.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42560 SOCIOLOGY OF FOOD 3 Credit Hours
(Slashed with SOC 52560) Food is essential, but like every other aspect of our lives, the meaning of food and the experience of its preparation and consumption are socially determined. Course explores the social dimensions of food consumption and production. Students consider the following questions and answer them by developing an understanding of sociological concepts and theories: What do our meals reveal about us – about our history, culture, our gender and race and ethnicity, socio-economic status, religious beliefs and our family life? How does food consumption differ in different societies? How do the media and corporations influence our food choices? What does food mean symbolize and in what ways are these meanings manipulated and why? How is food production carried out in different contexts and what can we learn about the social organization of work from studying food production? How does what we eat contribute to local and global environmental problems?
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42561 SOCIOLOGY OF RELIGION 3 Credit Hours
(Slashed with SOC 52561) Social context of religious ideologies and structures with special reference to religion in America.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42562 SOCIOLOGY OF MENTAL ILLNESS 3 Credit Hours
A sociology of mental health and illness; focuses on how social factors influence and are influenced by mental health status; topics include definition and measurement, social distribution, social control of mental illness, societal reaction and media coverage.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42563 SOCIOLOGY OF HEALTH AND HEALTH CARE 3 Credit Hours
(Slashed with SOC 52563) Sociological analysis of health and illness behavior and utilization of health care professions, as well as the organizational, community and societal systems that deal with health and illness.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42565 ENVIRONMENTAL SOCIOLOGY 3 Credit Hours
(Slashed with SOC 52565) Designed to be an elective in the Social Justice and Social Change concentration, Environmental Sociology provides students with an overview of how environmental problems and patterns interact with social systems. The course grounds students in an interdisciplinary range of theories through which environmental problems may be made more visible, and solutions more readily imagined. Topics include the intellectual and activist origins of the Environmental Justice Movement; sustainability and economic development; climate change and population/immigration dynamics; the history of environmental regulatory frameworks and institutions at the local, regional, and global level; and inequalities in the experience and consequence of environmental problems. Students will be encouraged to pair the course with an internship or other volunteer-opportunity with an area environmental, media, or policy-making organization to encourage a Public Sociology orientation for student projects.
Prerequisite: SOC 12050 and junior standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SOC 42568 RACE AND ETHNIC STUDIES (DIVD) 3 Credit Hours
(Slashed with SOC 52568) Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 42577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours
(Cross-listed with CRIM 42577)(Slashed with CRIM 52577 and SOC 52577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, intimate partner abuse, elderly abuse, rape, sexual abuse of children.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42879 AGING IN SOCIETY (DIVD) 3 Credit Hours
(Slashed with SOC 52879) Analysis of demographic, sociological and socio-psychological dimensions of aging.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 43200 SOCIAL STRUCTURE AND INDIVIDUAL LIVES 3 Credit Hours
Examines conceptualizations for and evidence concerning the effects of social structure on various dimensions of individual lives.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52010 DEATH AND DYING 3 Credit Hours
(Slashed with SOC 42010) Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death, death as taboo, medicalization and rationalization of death and dying, and disenfranchised grief.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52126 SOCIOLOGICAL THEORIES 3 Credit Hours
(Slashed with SOC 42126) An examination of classical, modern and post-modern approaches to social theory.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52315 SOCIOLOGY OF GENDER 3 Credit Hours
(Slashed with SOC 42315) An examination of the institutions, institutional linkages and social processes that contribute to the construction and maintenance of gender and gender inequality.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52359 SOCIAL MOVEMENTS 3 Credit Hours
(Slashed with SOC 42359) Investigation of various movements for social change. Examines the origins, developmental characteristics and the purposes of classic and contemporary movements.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52421 CHILDHOOD IN SOCIETY 3 Credit Hours
(Slashed with SOC 42421) How socio-historical circumstances shape the perception and experience of childhood as a distinct life stage. The process of childhood socialization in Western societies particularly the United States. An exploration of the distinct role of socializing agents-parents and siblings, school, peers and media.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52478 ADOLESCENCE IN SOCIETY 3 Credit Hours
(Slashed with SOC 42478) Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class and race differences in adolescence the significance of youth movements, with an emphasis on music as a dominant expression of youth culture.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52558 WEALTH, POVERTY AND POWER 3 Credit Hours
(Slashed with SOC 42558) Sociological examination of economic stratification in the United States; focuses on the translation of class into power via politics, education and collective struggle.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52560 SOCIOLOGY OF FOOD 3 Credit Hours
(Slashed with SOC 42560) Food is essential, but like every other aspect of our lives, the meaning of food and the experience of its preparation and consumption are socially determined. Course explores the social dimensions of food consumption and production. Students consider the following questions and answer them by developing an understanding of sociological concepts and theories: What do our meals reveal about us – about our history, culture, our gender and race and ethnicity, socio-economic status, religious beliefs and our family life? How does food consumption differ in different societies? How do the media and corporations influence our food choices? What does food mean symbolize and in what ways are these meanings manipulated and why? How is food production carried out in different contexts and what can we learn about the social organization of work from studying food production? How does what we eat contribute to local and global environmental problems?
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52561 SOCIOLOGY OF RELIGION 3 Credit Hours
(Slashed with SOC 42561) Social context of religions and their ideologies and structures with special reference to religion in America.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52563 SOCIOLOGY OF HEALTH AND HEALTH CARE 3 Credit Hours
(Slashed with SOC 42563) Sociological analysis of health and illness behavior and utilization of health care professions, as well as the organizational, community and societal systems that deal with health and illness.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52565 ENVIRONMENTAL SOCIOLOGY 3 Credit Hours
(Slashed with SOC 42565) Environmental Sociology provides students with an overview of how environmental problems and patterns interact with social systems. The course grounds students in an interdisciplinary range of theories through which environmental problems may be made more visible, and solutions more readily imagined. Topics include the intellectual and activist origins of the Environmental Justice Movement; sustainability and economic development; climate change and population/immigration dynamics; the history of environmental regulatory frameworks and institutions at the local, regional, and global level; and inequalities in the experience and consequence of environmental problems. Students will be encouraged to pair the course with an internship or other volunteer-opportunity with an area environmental, media, or policy-making organization to encourage a Public Sociology orientation for student projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SOC 52568 RACE AND ETHNIC STUDIES 3 Credit Hours
(Slashed with SOC 42568) Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours
(Cross-listed with CRIM 52577)(Slashed with CRIM 42577 and SOC 42577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, intimate partner abuse, elderly abuse, rape, sexual abuse of children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52879 AGING IN SOCIETY 3 Credit Hours
(Slashed with SOC 42879) Analysis of demographic, sociological and sociopsychological dimensions of aging.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 61003 CRIMINOLOGICAL THEORY 3 Credit Hours
(Slashed with SOC 71003) Examines the major theories in criminology that have been used to explain criminal behavior. This course includes analysis of empirical tests, applications of the theories, and social policy implications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 61004 SOCIOLOGY OF CORRECTIONS 3 Credit Hours
(Slashed with SOC 71004) Analyzes the correctional institution as a social system: formal structure and informal dynamics. It covers problems and programs found in community corrections as well as the institutional setting. It examines approaches to correctional supervision and treatment through probation, parole, and community residential treatment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 61005 JUVENILE DELINQUENCY 3 Credit Hours
(Slashed with SOC 71005) Provides an analysis of the issues and current research related to juvenile delinquency and the juvenile justice process.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62002 PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY 3 Credit Hours
(Slashed with SOC 72002) Introduction to professional and ethical issues in the field of sociology including the logic of inquiry, developing effective approaches to independent learning and research, the human subjects review process and plagiarism. Akron 3850:628.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with SOC 72093) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 62100 EARLY SOCIOLOGICAL THEORY 3 Credit Hours
(Slashed with SOC 72100) An examination of the contributions by pre-1930 social thinkers to contemporary sociological theory. Akron 3850:722.
Prerequisite: SOC 52126; and sociology major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SOC 62105 CONTEMPORARY SOCIOLOGICAL THOUGHT 3 Credit Hours
(Slashed with SOC 62105) Covers major contemporary theories and theorists. Emphasis on functionalism, conflict, exchange, interactionalism and systems theory. Neofunctionalism, neo-Marxism, structuration theory and other recent trends are treated. Akron 3850:723.
Prerequisite: SOC 62100; and sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing in sociology; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SOC 62211 QUANTITATIVE METHODS IN SOCIOLOGY 4 Credit Hours
Introduction to the use of quantitative research methods for analyzing sociological issues. Includes instruction on each step in the process of empirically verifying a theoretical question, from conceptualization to analysis. Akron 3850:603.
Prerequisite: Graduate standing in sociology.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 62217 MULTIVARIATE TECHNIQUES IN SOCIOLOGY 4 Credit Hours
(Slashed with SOC 72217) Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non-experimental causal models and path analysis. Akron 3850:706.
Prerequisite: SOC 32220; and sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 62218 ADVANCED DATA ANALYSIS 4 Credit Hours
(Slashed with SOC 72218) Critical examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multi-variate inferential statistics. Akron 3850:709.
Prerequisite: SOC 62217; and sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 62219 QUALITATIVE METHODS IN SOCIOLOGY 4 Credit Hours
(Slashed with SOC 72219) Study of qualitative methods including interviewing, observation, use of personal documents, archival data and special problems of recording and analyzing qualitative data. Akron 3850:714.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 62221 ADVANCED QUALITATIVE METHODS IN SOCIOLOGY 3 Credit Hours
(Slashed with SOC 72221) Provides students with the opportunity to conceive, design and carry out their own qualitative research projects. Students also survey readings that are exemplars of high quality and rigorous qualitative research. Topics such as writing, analysis and ethics are covered as students develop and move forward on their own original research. Students must be actively engaged in a qualitative research project to enroll in the course.
Prerequisite: SOC 62219; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SOC 62199; and graduate standing in sociology; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SOC 62323 SOCIOLOGY OF HEALTH AND ILLNESS 3 Credit Hours
(Slashed with SOC 72323) Introduction to medical sociology. Topics include health care professions, patient-provider interaction, caregivers, the illness experience, race, ethnicity, gender, socio-economic status, and health and global health.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62326 SOCIOLOGY OF MENTAL HEALTH AND MENTAL ILLNESS 3 Credit Hours
(Slashed with SOC 72326) Sociological examination of the social processes that affect mental health, frame cultural ideas of normality and illness, and define clinical pathology. Akron 3850: 728.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62328 STRATIFICATION AND HEALTH 3 Credit Hours
(Slashed with SOC 72328) Race, social class and gender differences in physical and mental health status, help-seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62332 SOCIAL CONTROL OF MENTAL ILLNESS 3 Credit Hours
(Slashed with SOC 72332) Introduction to the sociological perspective regarding social control and mental illness. Topics include the history of mental illness and the asylum, the stratification of mental illness diagnosis and treatment by race, ethnicity, gender, and socio-economic status, and stigma and psychiatric labeling.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62430 SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with SOC 72430) Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Akron 3850: 631.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62433 SOCIAL STRUCTURE AND PERSONALITY 3 Credit Hours
(Slashed with SOC 72433) Examination of contemporary theory and research on linkages between personality and society. Emphasis is on the dynamics of those linkages and their effects on both individuals and social structures. Akron 3850:634.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62437 STRUCTURAL SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with SOC 72437) In-depth introduction to structural social psychology, a set of theoretical and methodological approaches and tools that focuses on the development and testing of multi-level, micro-macro accounts of human social interactions, often through the use of formal theorizing and mathematical modeling. Course provides an overview of the theoretical and research empirical methods that are most associated with structural social psychology; cover the main substantive topics in the area; and then conclude with a brief overview of current issues, debates and recent interdisciplinary advances.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62439 SELF AND IDENTITY 3 Credit Hours
(Slashed with SOC 72439) Examines theories and research on the origins of and on behavioral and social consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health and well-being.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62546 SOCIAL INEQUALITY 3 Credit Hours
(Slashed with SOC 62546) An overview of social inequalities, including definitions, causes, identities, structures and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Akron 3850:646.
Prerequisite: Sociology major; and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62566 SOCIOLOGY OF GENDER 3 Credit Hours
(Slashed with SOC 72566) Examination of theories and research on gender origins, characteristics and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Akron 3850:639.
Prerequisite: Graduate standing; and sociology major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62760 DEVIANCE 3 Credit Hours
(Slashed with SOC 72760) Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self-labeling, case studies, social consequences and problems. Akron 3850: 663.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62870 SOCIOLOGY OF RACE AND ETHNICITY 3 Credit Hours
(Slashed with SOC 72870) An in-depth study of the theories, models, research approaches and substantive areas that constitute the sociology of race and ethnicity. Akron 3850:651.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62872 SOCIAL PSYCHOLOGY AND INEQUALITY 3 Credit Hours
(Slashed with SOC 72872) Introduces students to sociological social psychological work that examines the reproduction of inequality. Specifically, the course focuses on "generic social processes" in how individuals, through interaction, are complicit or resistant in the reproduction of inequality through processes such as identity work, collective identity work, emotion work, othering and boundary maintenance. Mechanisms for change are also considered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62877 SOCIOLOGY OF AGING AND THE LIFE COURSE 3 Credit Hours
(Slashed with SOC 72877) Study of the sociology of aging and the life course, covering the major stages of young adulthood, mid-life, and later life. Topics include demography of aging, transition to adulthood, educational attainment, romantic relationships and cohabitation, marriage, parenting, work and retirement, theories of aging, aging and social policy, neighborhoods and aging, later life living arrangements, and death and dying.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62894 COLLEGE TEACHING OF SOCIOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with SOC 72894) Preparation for college teaching. Students may apply a maximum 3 credit hours applicable toward the master's degree with departmental approval. Akron 3850:700.
Prerequisite: Graduate standing; and sociology major.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SOC 62895 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)(Slashed with SOC 72895) Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62896 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with SOC 72896) Intensive pursuit of a subject matter beyond normal course coverage with the possibility of associated research. Students may apply a maximum 6 credit hours combined in individual investigation (SOC 62896, SOC 72896) and research (SOC 62898, SOC 72898) toward the master's degree.
Prerequisite: Sociology major; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 62898 RESEARCH 1-3 Credit Hours
(Repeatable for credit)(Slashed with SOC 72898) Pursuit of research interests that can include the student's project and/or a faculty member's project. Student may apply a maximum of 6 credits combined of research (SOC 62898, SOC 72898) and individual investigation (SOC 62896, SOC 72896) toward the master's degree.
Prerequisite: Sociology major; and graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 71003 CRIMINOLOGICAL THEORY 3 Credit Hours
(Slashed with SOC 61003) Examines the major theories in criminology that have been used to explain criminal behavior. This course includes analysis of empirical tests, applications of the theories, and social policy implications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 71004 SOCIOLOGY OF CORRECTIONS 3 Credit Hours
(Slashed with SOC 61004) Analyzes the correctional institution as a social system: formal structure and informal dynamics. It covers problems and programs found in community corrections as well as the institutional setting. It examines approaches to correctional supervision and treatment through probation, parole, and community residential treatment.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 71005 JUVENILE DELINQUENCY 3 Credit Hours
(Slashed with SOC 61005) Provides an analysis of the issues and current research related to juvenile delinquency and the juvenile justice process.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72002 PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY 3 Credit Hours
(Slashed with SOC 62002) Introduction to professional and ethical issues in the field of sociology including the logic of inquiry, developing effective approaches to independent learning and research, the human subjects review process and plagiarism. Akron 3850:628.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with SOC 62093) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 72100 EARLY SOCIOLOGICAL THEORY 3 Credit Hours
(Slashed with SOC 62100) An examination of the contributions by pre-1930 social thinkers to contemporary sociological theory. Akron 3850:722.
Prerequisite: SOC 52126; and sociology major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SOC 72105 CONTEMPORARY SOCIOLOGICAL THOUGHT 3 Credit Hours
(Slashed with SOC 62105) Covers major contemporary theories and theorists. Emphasis on functionalism, conflict, exchange, interactionalism and systems theory. Neofunctionalism, neo-Marxism, structuration theory and other recent trends are treated. Akron 3850:723.
Prerequisite: SOC 72100; and sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72211 QUANTITATIVE METHODS IN SOCIOLOGY 4 Credit Hours
Introduction to the use of quantitative research methods for analyzing sociological issues. Includes instruction on each step in the process of empirically verifying a theoretical question, from conceptualization to analysis. Akron 3850:603.
Prerequisite: Doctoral standing in sociology.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 72217 MULTIVARIATE TECHNIQUES IN SOCIOLOGY 4 Credit Hours
(Slashed with SOC 62217) Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non-experimental causal models and path analysis. Akron 3850:706.
Prerequisite: SOC 32220; and sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 72218 ADVANCED DATA ANALYSIS 4 Credit Hours
(Slashed with SOC 62218) Crucial examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multi-variate inferential statistics. Akron 3850:709.
Prerequisite: SOC 72217; and sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 72219 QUALITATIVE METHODS IN SOCIOLOGY 4 Credit Hours
(Slashed with SOC 62219) Study of qualitative methods including interviewing, observation, use of personal documents, archival data, and special problems of recording and analyzing qualitative data. Akron 3850:714.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 72221 ADVANCED QUALITATIVE METHODS IN SOCIOLOGY 3 Credit Hours
(Slashed with SOC 62221) Provides students with the opportunity to conceive, design and carry out their own qualitative research projects. Students also survey readings that are exemplars of high quality and rigorous qualitative research. Topics such as writing, analysis and ethics are covered as students develop and move forward on their own original research. Students must be actively engaged in a qualitative research project to enroll in the course.
Prerequisite: SOC 72219; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72323 SOCIOLOGY OF HEALTH AND ILLNESS 3 Credit Hours
(Slashed with SOC 62323) Introduction to medical sociology. Topics include health care professions, patient-provider interaction, caregivers, the illness experience, race, ethnicity, gender, socio-economic status and health and global health.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72326 SOCIOLOGY OF MENTAL HEALTH AND MENTAL ILLNESS 3 Credit Hours
(Slashed with SOC 62326) Sociological examination of the social processes that affect mental health, frame cultural ideas of normality and illness, and define clinical pathology. Akron 3850:728.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72328 STRATIFICATION AND HEALTH 3 Credit Hours
(Slashed iwth SOC 62328) Race, social, class and gender differences in physical and mental health status, help-seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726.
Prerequisite: Sociology major; and doctoral major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72332 SOCIAL CONTROL OF MENTAL ILLNESS 3 Credit Hours
(Slashed with SOC 62332) Introduction to the sociological perspective regarding social control and mental illness. Topics include the history of mental illness and the asylum, the stratification of mental illness diagnosis and treatment by race, ethnicity, gender, and socio-economic status, and stigma and psychiatric labeling.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72430 SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with SOC 62430) Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Akron 3850:631.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72433 SOCIAL STRUCTURE AND PERSONALITY 3 Credit Hours
(Slashed with SOC 62433) Examination of contemporary theory and research on linkages between personality and society. Emphasis is on the dynamics of those linkages and their effects on both individuals and social structures. Akron 3850:634.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72437 STRUCTURAL SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with SOC 62437) In-depth introduction to structural social psychology, a set of theoretical and methodological approaches and tools that focuses on the development and testing of multi-level, micro-macro accounts of human social interactions, often through the use of formal theorizing and mathematical modeling. Course provides an overview of the theoretical and research empirical methods that are most associated with structural social psychology; cover the main substantive topics in the area; and then conclude with a brief overview of current issues, debates and recent interdisciplinary advances.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72439 SELF AND IDENTITY 3 Credit Hours
(Slashed with SOC 62439) Examines theories and research on the origins of and on behavioral and social consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health and well-being.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72546 SOCIAL INEQUALITY 3 Credit Hours
(Slashed with SOC 62546) An overview of social inequalities, including definitions, causes, identities, structures and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Akron 3850:646.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72566 SOCIOLOGY OF GENDER 3 Credit Hours
(Slashed with SOC 62566) Examination of theories and research on gender origins, characteristics and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Akron 3850:639.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72760 DEVIANCE 3 Credit Hours
(Slashed with SOC 62760) Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self labeling, case studies, social consequences and problems. Akron 3850:663.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72870 SOCIOLOGY OF RACE AND ETHNICITY 3 Credit Hours
(Slashed with SOC 62870) An in-depth study of the theories, models, research approaches and substantive areas that constitute the sociology of race and ethnicity. Akron 3850:651.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72872 SOCIAL PSYCHOLOGY AND INEQUALITY 3 Credit Hours
(Slashed with SOC 62872) Introduces students to sociological social psychology work that examines the reproduction of inequality. Specifically, the course focuses on "generic social processes" in how individuals, through interaction, are complicit or resistant in the reproduction of inequality through processes such as identity work, collective identity work, emotion work, othering and boundary maintenance. Mechanisms for change are also considered.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72877 SOCIOLOGY OF AGING AND THE LIFE COURSE 3 Credit Hours
(Slashed with SOC 62877) Study of the sociology of aging and the life course, covering the major stages of young adulthood, mid-life, and later life. Topics include demography of aging, transition to adulthood, educational attainment, romantic relationships and cohabitation, marriage, parenting, work and retirement, theories of aging, aging and social policy, neighborhoods and aging, later life living arrangements, and death and dying. Akron 3850:678.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72894 COLLEGE TEACHING OF SOCIOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with SOC 62894) Preparation for college teaching. Course may not be applied toward the doctoral degree. Akron 3850:700.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SOC 72895 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)(Slashed with SOC 62895) Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72896 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with SOC 62896) Intensive pursuit of a subject matter beyond normal course coverage with the possibility of associated research. Students may apply a maximum 6 credit hours combined in individual investigation (SOC 72896) and research (SOC 72898) toward the doctoral degree.
Prerequisite: Sociology major; and doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 72898 RESEARCH 1-3 Credit Hours
(Repeatable for credit)(Slashed with SOC 62898) Pursuit of research interests that can include the student's project and/or a faculty member's project. Student may apply a maximum of 6 credits combined of research (SOC 72898) and individual investigation (SOC 72896) toward the doctoral degree.
Prerequisite: Sociology major; and doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 82199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation is begun and continuing until 30 hours are completed. Akron 3850: 899.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SOC 82299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Spanish (SPAN)

SPAN 18201 ELEMENTARY SPANISH I 4 Credit Hours
An introduction to the Spanish language in the context of Hispanic cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

SPAN 18202 ELEMENTARY SPANISH II 4 Credit Hours
A continuation of the introduction to the Spanish language in the context of Hispanic cultures.
Prerequisite: SPAN 18201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

SPAN 18489 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) This course is a faculty-led experience in a Spanish-speaking country that involves both in-class and out-of-class experiences. Students are placed into an appropriate level language course according to their Common European Framework of References for Language Proficiency (CEFR) score. During class, students study grammar, vocabulary and culture and engage in reading, writing, listening and speaking activities as in a traditional language class. Outside of class, students tour cultural sites and participate in various cultural activities.
Prerequisite: SPAN 18201.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

SPAN 28201 INTERMEDIATE SPANISH I 3 Credit Hours
A continuation of the development of listening, speaking, reading and writing skills using a variety of material on the Spanish language in the context of Hispanic cultures.
Prerequisite: SPAN 18202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

SPAN 28202 INTERMEDIATE SPANISH II 3 Credit Hours
A continuation of the development of listening, speaking, reading and writing skills using a variety of material on the Spanish language in the context of Hispanic cultures and specific areas of study like culture, business, justice, etc.
Prerequisite: SPAN 28201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

SPAN 28489 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) This course is a faculty-led experience in a Spanish-speaking country that involves both in-class and out-of-class experiences. Students are placed into an appropriate level language course according to their Common European Framework of References for Language Proficiency (CEFR) score. During class, students study grammar, vocabulary and culture and engage in reading, writing, listening and speaking activities as in a traditional language class. Outside of class, students tour cultural sites and participate in various cultural activities.
Prerequisite: SPAN 18202.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

SPAN 38211 SPANISH GRAMMAR AND COMPOSITION 3 Credit Hours
This course focuses on progressively increasing grammatical competence to communicate in writing through the development of skills to describe, narrate, expose and create arguments on general interest, and academic topics.
Prerequisite: SPAN 28202 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38213 SPANISH READING AND CONVERSATION 3 Credit Hours
This course will provide continuous opportunities to practice Spanish based on selected non-literary and literary readings (such as poems, essays, short stories, theater, and short novels) and film. The readings and films cover diverse topics, such as art, politics, history, culture, and literature. We will concentrate on building vocabulary, reading skills, speaking and listening skills, reviewing important grammatical structures, and practicing the analysis of literature, culture, and current events.
Prerequisite: SPAN 28202 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38215 SPANISH PHONETICS AND DICTION 3 Credit Hours
Study of the modern Spanish language sounds and practical application through extensive interactive listening and speaking activities addressing various Hispanic culture.
Prerequisite: SPAN 28202 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38231 TRANSLATION PRACTICE: SPANISH 1 Credit Hour
Translation practice with Spanish texts using principles and techniques learned in the lecture class. To be taken concurrently with TRST 30230.
Corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPAN 38240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: SPANISH 3 Credit Hours
This course introduces students to concepts, specialized vocabulary, and social-, cultural- and economic- considerations when engaging in interactions with Spanish speakers in business and other professional settings. Some of the business topics include globalization, types of businesses and industries, organizational structures, leadership, management, personnel, banking and finance, accounting, economics, marketing and advertising, the business office, technology, ethics, and business laws. Topics in cross-cultural communication include etiquette and socio-pragmatic conventions, solidarity and deference, directness and indirectness, language variation, non-verbal communication, personalism, individualism, cultural priorities, management styles, establishing trust, and equality and equity in the workplace. While students will engage in background reading on the business and cultural topics, in this first of the two-course Business Spanish series, emphasis will be on developing interpersonal-, presentational- and interpretive communication skills mainly in the oral and aural modalities. Course materials, activities and assessments will be carried out within the framework of World-Readiness Standards for Learning Languages (National Standards Collaborative Board) and the "5 C's": Communication, Cultures, Connections, Comparisons and Communities.
Prerequisite: SPAN 28202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38291 SEMINAR IN SPANISH FOR THE PROFESSIONS 1-4 Credit Hours
(Repeatable for credit) A variable topics course designed to advance students' proficiency in Spanish in specialized areas such as business, communication, education, healthcare, hospitality, sciences, international relations, human services, advertising, journalism, technology and other fields in which there is currently a high demand for bilingual English-Spanish speakers. The class conforms to the World Readiness Standards for Learning Languages: communication, comparisons, cultures, connections and communities; and aims to increase students' competency across all these dimensions. Course focuses on oral and written communication.
Prerequisite: SPAN 28202.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

SPAN 38303 MEDICAL SPANISH TRANSLATION AND INTERPRETING 3 Credit Hours
An introduction to medical translation and interpreting, also known as healthcare translation and interpreting. Sociolinguistic, legal, and pragmatic dimensions of translation, cross-cultural health literacy, intercultural competency, text analysis, common medical text types and basic terminology; text production in English of Spanish medical documents, strategies of research, documentation and transfer. The rudiments of interpreting in health care environments; protocol, ethics, and credentialing in the language mediation industry; public health policy as it affects Latino and Latina populations. Spanish-English, English-Spanish language combination. Note: translation refers to written texts; interpreting to spoken language.
Prerequisite: SPAN 28202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38330 EARLY SPANISH LITERATURE (ELR) (WIC) 3 Credit Hours
Outline of development, reading of representative works to 1700.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 38331 RECENT SPANISH LITERATURE (ELR) (WIC) 3 Credit Hours
Outline of development, reading of representative works 1700 present.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 38334 EARLY SPANISH-AMERICAN LITERATURE (ELR) (WIC) 3 Credit Hours
Outline of development, reading of representative works including indigenous literature, 1492-1882.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 38335 RECENT SPANISH-AMERICAN LITERATURE (ELR) (WIC) 3 Credit Hours
Outline of the development of modern Spanish-American literature (1882 to the present). Reading of representative works.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 38421 CIVILIZATION OF SPAIN 3 Credit Hours
General survey of evolution of Spanish civilization from antiquity to present day.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38424 CULTURE AND CIVILIZATION OF LATIN AMERICA 3 Credit Hours
This course focuses on a study of the historical and cultural development of Latin America, with emphasis on Spanish America, as reflected in its geography, history, art, political and social institutions encompassing from Pre-Hispanic times to the present.
Prerequisite: SPAN 38211 or SPAN 38213.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38489 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) This course is a faculty-led experience in a Spanish-speaking country that involves both in-class and out-of-class experiences. Students are placed into an appropriate level language course according to their Common European Framework of References for Language Proficiency (CEFR) score. During class, students study grammar, vocabulary and culture and engage in reading, writing, listening and speaking activities as in a traditional language class. Outside of class, students tour cultural sites and participate in various cultural activities.
Prerequisite: One Spanish (SPAN) upper-division course (30000 or 40000 level).
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

SPAN 38912 SPANISH LINGUISTICS: WORDS, ROOTS AND AFFIXES 3 Credit Hours
Through readings, lectures, multimedia, discourse analysis and language-production tasks, this course in Spanish morphology provides students with the tools to expand their vocabulary exponentially though the application of word-building rules and conventions. Students learn how to predict the form and meaning of Spanish words they have not yet encountered by applying derivational rules such as forming nouns and adjectives from verbs, adjectives from nouns and adverbs from adjectives and nouns. Additionally, students learn how Spanish uses prefixes and suffixes, for example, those that express negation, opposition, repetition, location, size, purpose or affect to alter a word's basic meaning, and how new words come into the Spanish language through processes like word coinage and lexical borrowing. Finally, students are introduced to the topic of lexical variation as it occurs over time, across regions and that resulting from language contact; social- and situational factors; technological innovation; and speakers' identity and preferences.
Prerequisite: SPAN 28201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48095 SELECTED TOPICS IN SPANISH 3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Topic announced in Schedule of Classes.
Prerequisite: 9 hours above 20000-level of Spanish courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Spanish language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Spanish (SPAN) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

SPAN 48215 ADVANCED SPANISH COMPOSITION AND CONVERSATION 3 Credit Hours
This course focuses on descriptive, summary, narrative, expository and argumentative oral and written styles addressing topics dealing with diverse areas of Hispanic culture as presented through literary and nonfiction texts.
Prerequisite: SPAN 38211 and SPAN 38213; and one additional Spanish (SPAN) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48216 CONTEMPORARY HISPANIC CULTURE 3 Credit Hours
A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world.
Prerequisite: 6 hours from 30000-level Spanish courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48230 ADVANCED TRANSLATION PRACTICE: SPANISH (ELR) (WIC) 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes Spanish-to-English translation of selected texts in business, technology, medicine and law.
Prerequisite: SPAN 38231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 48240 BUSINESS AND SPECIAL TEXTS: SPANISH 3 Credit Hours
Survey of the typical text types of business in the Spanish culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Spanish.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48291 SEMINAR IN GARCÍA LORCA 3 Credit Hours
(Slashed with SPAN 58291) (Repeatable for credit) This seminar is an in-depth interdisciplinary study of Federico García Lorca's literary works and their film adaptations in their socio-historical, artistic and cultural contexts. Thematic approaches to Lorca's works and person cover a variety of study topics such as political repression and social class, honor and desire, religion and taboo, homoerotism and gay identity, the subversion of women gender roles and sexuality in the patriarchal society, independently or along with others. Books, articles, documentaries and films situate Lorca's works within the historical, socio-political and cultural contexts that shaped Spain prior to the Civil War. Critical works provide the necessary framework for the analysis of the primary sources.
Prerequisite: SPAN 38211 and SPAN 38213.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPAN 48314 CINEMA AND CULTURE: SPANISH AMERICA TODAY 3 Credit Hours
(Slashed with SPAN 58314) This course explores contemporary Spanish America through Spanish-language feature films and authentic cultural texts. Topics include politics, education, religion, indigenous traditions, economic issues, music, art and family life. Each course unit examines one film and interviews, cultural notes and articles on the topic.
Prerequisite: SPAN 38211 or SPAN 38213 or SPAN 38331 or SPAN 38334 or SPAN 38335.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48325 IDENTITY, POLITICS AND GENDER IN PUERTO RICAN FICTION 3 Credit Hours
(Slashed with SPAN 58325) This course focuses on critical analyses of a diverse corpus of literary pieces written by prominent Puerto Rican authors. It addresses the following topics: the jíbarao identity vis a vis the political and cultural practices of americanización (Americanization), the migratory waves from the countryside to San Juan and the United States, and constructs of gender and LGBTQ identity articulated in the literary discourse.
Prerequisite: SPAN 38421 or SPAN 38424.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48376 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3 Credit Hours
The development of the Spanish-American short story from 1917 to the present.
Prerequisite: 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48378 U.S. LATINA/O WRITERS 3 Credit Hours
The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters.
Prerequisite: SPAN 38211 and SPAN 38213; and one of the following: SPAN 38330 or SPAN 38331 or SPAN 38334 or SPAN 38335.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48391 SEMINAR IN DETECTIVE FICTION IN SPANISH 3 Credit Hours
(Slashed with SPAN 58391) (Repeatable for credit) Students read and view a selection of detective fiction texts and films. They become familiar with detective fiction theory and cultural and political issues, such as dictatorships, national movements, class, gender, and race issues.
Prerequisite: Two upper-division (30000 level and 40000 level) courses in Spanish.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SPAN 48422 EARLY SPANISH-AMERICAN DISCOURSE 3 Credit Hours
This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression.
Prerequisite: SPAN 38213 and SPAN 38334.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48424 SPANISH-AMERICAN CULTURE THROUGH SONGS 3 Credit Hours
(Slashed with SPAN 58424) The main objective of this course is to critically analyze a selection of songs organized by topics that address major cultural trends, changes or movements in Spanish America and regions in the US known for their Latino presence. Classes consist of close analysis of lyrics, their musical arrangement and cultural representations connected to historical events and ethnic identities as discussed in supporting documents. Some activities involve face-to-face and LMS group discussions on topics like similarities and differences among Spanish-American countries, Spanish-American Indigenous nations, Hispanic/Latino in the US, family ties, the role of women, socio-political movements, customs and folklore, literature and art.
Prerequisite: SPAN 38211 or SPAN 38213.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SPAN 48491 SEMINAR IN MODERN SPAIN 3 Credit Hours
(Slashed with SPAN 58491) In-depth study of modern Spain, including themes such as art, literature, film, history, politics, social movements, and other manifestations of modern Spain. Historical and political topics such as the Spanish transition to democracy, the post-transition disillusion, neoliberalism in Spain, Nationalisms of the periphery, and social movements like the "Indignados" or 15M may be covered. Artistic and cultural movements and genres such as "La movida Madrileña," the popular novel, and the detective novel and film noir may also be covered.
Prerequisite: Minimum C grade in three SPAN 30000-level (or higher) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48900 INTRODUCTION TO HISPANIC LINGUISTICS 3 Credit Hours
(Slashed with SPAN 58900) This course introduces students to the major areas and subareas of theoretical and applied linguistics with examples taken from varieties of the Spanish language. Students will learn how linguists describe and analyze the features and patterns of the Spanish language both in the abstract and within social, discursive contexts. Students will learn about the predominant methods for gathering and analyzing Spanish language data in the various fields and subfields of Hispanic linguistics.
Prerequisite: SPAN 38211 or SPAN 38215 or SPAN 38912.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48991 SEMINAR IN HISPANIC LINGUISTICS 3 Credit Hours
(Repeatable for credit) (Slashed with SPAN 58991) In this course, students will learn about the patterns of Spanish language structure and usage as investigated by scholars in specific fields of linguistics. Students will critically examine theoretical frameworks and empirical studies that describe and analyze the Spanish language both in the abstract and as used in real-life communication by native- and non-native speakers of Spanish.
Prerequisite: Two courses from the following: SPAN 38211, SPAN 38213, SPAN 38215, SPAN 38912, SPAN 48215.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58095 SELECTED TOPICS IN SPANISH 3 Credit Hours
(Repeatable for a maximum of 15 credit hours)Topic to be announced in semester schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58216 CONTEMPORARY HISPANIC CULTURE 3 Credit Hours
A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58291 SEMINAR IN GARCÍA LORCA 3 Credit Hours
(Slashed with SPAN 48291) (Repeatable for credit) This seminar is an in-depth interdisciplinary study of Federico García Lorca's literary works and their film adaptations in their socio-historical, artistic and cultural contexts. Thematic approaches to Lorca's works and person cover a variety of study topics such as political repression and social class, honor and desire, religion and taboo, homoerotism and gay identity, the subversion of women gender roles and sexuality in the patriarchal society, independently or along with others. Books, articles, documentaries and films situate Lorca's works within the historical, socio-political and cultural contexts that shaped Spain prior to the Civil War. Critical works provide the necessary framework for the analysis of the primary sources.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPAN 58314 CINEMA AND CULTURE: SPANISH AMERICA TODAY 3 Credit Hours
(Slashed with SPAN 48314) This course explores contemporary Spanish America through Spanish-language feature films and authentic cultural texts. Topics include politics, education, religion, indigenous traditions, economic issues, music, art and family life. Each course unit examines one film and interviews, cultural notes and articles on the topic.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58325 IDENTITY, POLITICS AND GENDER IN PUERTO RICAN FICTION 3 Credit Hours
(Slashed with SPAN 48325) This course focuses on critical analyses of a diverse corpus of literary pieces written by prominent Puerto Rican authors. It addresses the following topics: the jíbarao identity vis a vis the political and cultural practices of americanización (Americanization), the migratory waves from the countryside to San Juan and the United States, and constructs of gender and LGBTQ identity articulated in the literary discourse.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58376 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3 Credit Hours
The development of the Spanish-American short story from 1917 to the present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58378 U.S. LATINA/O WRITERS 3 Credit Hours
The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58391 SEMINAR IN DETECTIVE FICTION IN SPANISH 3 Credit Hours
(Slashed with SPAN 48391) (Repeatable for credit) Students read and view a selection of detective fiction texts and films. They become familiar with detective fiction theory and cultural and political issues, such as dictatorships, national movements, class, gender, and race issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SPAN 58422 EARLY SPANISH-AMERICAN DISCOURSE 3 Credit Hours
This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58424 SPANISH-AMERICAN CULTURE THROUGH SONGS (DIVG) 3 Credit Hours
(Slashed with SPAN 48424) The main objective of this course is to critically analyze a selection of songs organized by topics that address major cultural trends, changes or movements in Spanish America and regions in the US known for their Latino presence. Classes consist of close analysis of lyrics, their musical arrangement and cultural representations connected to historical events and ethnic identities as discussed in supporting documents. Some activities involve face-to-face and LMS group discussions on topics like similarities and differences among Spanish-American countries, Spanish-American Indigenous nations, Hispanic/Latino in the US, family ties, the role of women, socio-political movements, customs and folklore, literature and art.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

SPAN 58491 SEMINAR IN MODERN SPAIN 3 Credit Hours
(Slashed with SPAN 48491) In-depth study of late 20th and early 21st-century Spain, including themes such as art, literature, film, history, politics, social movements, and other manifestations of contemporary Spain. Historical and political topics such as the Spanish transition to democracy, the post-transition disillusion, neoliberalism in Spain, Nationalisms of the periphery, and social movements like the "Indignados" or 15M may be covered. Artistic and cultural movements and genres such as "La movida Madrileña," the popular novel, and the detective novel and film noir may also be covered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58900 INTRODUCTION TO HISPANIC LINGUISTICS 3 Credit Hours
(Slashed with SPAN 48900) This course introduces students to the major areas and subareas of theoretical and applied linguistics with examples taken from varieties of the Spanish language. Students will learn how linguists describe and analyze the features and patterns of the Spanish language both in the abstract and within social, discursive contexts. Students will learn about the predominant methods for gathering and analyzing Spanish language data in the various fields and subfields of Hispanic linguistics.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58991 SEMINAR IN HISPANIC LINGUISTICS 3 Credit Hours
(Repeatable for credit) (Slashed with SPAN 48991) In this course students will learn about the patterns of Spanish language structure and usage as investigated by scholars in specific fields of linguistics. Students will critically examine theoretical frameworks and empirical studies that describe and analyze the Spanish language both in the abstract and as used in real-life communication by native- and non-native speakers of Spanish.
Prerequisite: Graduate Standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68010 THE PRACTICE OF SPANISH TRANSLATION 2 Credit Hours
Students apply linguistic and communication science concepts to case studies of language mediation.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPAN 68091 SEMINAR IN SPANISH TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized translation projects currently of concern in the translation industry across the Spanish-speaking world. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: SPAN 68010 and TRST 60010; and graduate studies.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68095 SELECTED TOPICS 3 Credit Hours
(Repeatable for credit)Selected topics on Spanish literature or linguistics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Spanish language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

SPAN 68199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPAN 68215 ADVANCED SPANISH COMPOSITION AND CONVERSATION 3 Credit Hours
Focuses on description, summary, narration, exposition and argumentation on topics dealing with diverse areas of Hispanic culture as presented through literary and non-fiction texts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68231 TRANSLATION INTO SPANISH 3 Credit Hours
Provides advanced intensive practice in the translation of a variety of texts into Spanish. Translation issues and appropriate strategies are identified. Also provides practice in the evaluation of translations, the identification of professional issues, and an advanced review of linguistic and grammatical aspects of Spanish as they apply to translation.
Class meetings are conducted in a workshop format based on weekly assignments of readings and translation exercises.
Prerequisite: TRST 60010 and SPAN 68010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Spanish will also be emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic financial legal diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SPAN 68199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPAN 68979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

Special Education (SPED)

SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD) 3 Credit Hours
Introduction to student exceptionalities, service delivery/placement options, and multidisciplinary team process. Focus on identification of characteristics definition and identification procedures of students with exceptionalities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, TAG Education

SPED 24000 INCLUSIVE PRACTICES 3 Credit Hours
Overview of current special education issues as they relate to inclusive practices. Students gain an understanding of the challenges faced by exceptional students and analyze the responsibilities of educational professionals in addressing these challenges. Students develop a productive orientation toward effective instruction in inclusive settings through a study of legal, practical, professional and attitudinal issues relevant to inclusive education.
Prerequisite: SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 40093 WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours
(Slashed with SPED 50093 and SPED 70093)(Repeatable for credit) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University faculty and other institutions. Offered irregularly.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 42030 ISSUES IN MODERATE-INTENSIVE DISABILITIES 3 Credit Hours
(Slashed with SPED 52030) Addresses a variety of topics relevant to the education of students with moderate to intensive (MDIN) educational needs, including contemporary issues, evidence-based interventions and the understanding and addressing of mental health issues in educational environments. Prepares pre-service MDIN teachers to understand challenges they are likely to encounter in the classroom, and connects them with local and national professional development resources to help address those challenges.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 42951 EARLY INTERVENTION IN NATURAL ENVIRONMENTS 3 Credit Hours
Course targets a broad array of early childhood professionals that comprise the field of early intervention from practitioners to future leaders in the field. Primary focus is on identifying natural opportunities for infants and toddlers to acquire and practice functional skills and behaviors. Recommended practice guidelines of the Division for Early Childhood indicate that interventions should be embedded and distributed within and across the routines, activities and places that are part of the child's daily experience. Course explores issues related to the various natural environments of the children in search of the routines, activities and places that offer the maximum learning and practice opportunities that are family-centered, developmentally and individually appropriate, culturally sensitive and least intrusive.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43010 FAMILY AND PROFESSIONAL COLLABORATION 3 Credit Hours
(Slashed with SPED 53010) This course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions who provide services to them. Use of collaborative, interdisciplinary, and inter-agency models in special education.
Prerequisite: Admission to advanced study or the professional phase; and SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43021 ASSESSMENT FOR SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 53021) Investigates issues and methods for assessing the academic, behavioral, physiological, mental health, and life skills of individuals with mild, moderate, and intensive disabilities. Interpretation of norm- and criterion formal assessments, creation of alternative assessments, modification of informal assessments, ecological and community-based assessments specific to individuals with low incidence and multiple disabilities.
Prerequisite: SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43022 INDIVIDUALIZED PROGRAMMING AND ASSESSMENT IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 53022) Course provides students with the knowledge and skills to select appropriate screening and assessment tools for the purpose of determining eligibility for special education services. In addition, students learn how to administer, score and use assessment results to develop an individualized education program (IEP) for students identified with disabilities.
Prerequisite: Admission to advanced standing; and SPED 24000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with SPED 53030) Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are emphasized. Procedures for assessing and modifying classroom environments/ instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours.
Prerequisite: Admission to advanced study or the professional phase; and SPED 23000.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 1.5 other
Grade Mode: Standard Letter

SPED 43031 APPLIED BEHAVIOR ANALYSIS II: APPLICATION 3 Credit Hours
Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 43030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours.
Prerequisite: Admission to advanced study; and SPED 43030.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

SPED 43040 LANGUAGE AND READING IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 53040) Course focuses on instructional approaches to teaching reading and language arts to students with disabilities. Major emphasis throughout is on research-based techniques to improve student reading performance, focusing on the direct instruction approach to teaching reading. Students develop intervention strategies to adapt instructional techniques, materials and assessments to meet the needs of diverse learners with disabilities.
Prerequisite: Admission to advanced study; and SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43041 SUPPLEMENTAL AND INTENSIVE INSTRUCTION FOR MATHEMATICAL DIFFICULTIES 3 Credit Hours
This course provides students with the knowledge and skills to plan, deliver, and evaluate supplemental and intensive math instruction using research-based programs and practices. Data based individualization will be used to determine what and how to teach to promote mastery and understanding of critical math skills and concepts. Students learn effective strategies and instructional approaches for improving outcomes for students experiencing persistent difficulties learning math, including students with disabilities.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43042 INTENSIVE READING INTERVENTIONS AND PHONICS 3 Credit Hours
(Slashed with SPED 53042) Prepares students to provide high-quality evidence-based reading instruction to children with significant reading difficulties, including those with and without disabilities. Students will learn how to diagnose specific reading strengths and difficulties, select appropriate evidence-based interventions based on data and provide intensive interventions consistent with the science of reading. Students will learn foundational and advanced concepts in phonics necessary to teach children with dyslexia, learning disabilities, autism and other disabilities that impact reading development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43050 CHARACTERISTICS OF STUDENTS WITH MILD/ MODERATE INTERVENTION NEEDS 3 Credit Hours
Definitions, causes and characteristics, and social and educational implications of learning, developmental and emotional/behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions, current issues.
Prerequisite: SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43051 CHARACTERISTICS OF STUDENTS WITH MODERATE/ INTENSIVE INTERVENTION NEEDS 3 Credit Hours
Overview of specific facets and causes of severe disabilities, physical/ psychological aspects, family societal responses political trends etiology and medical implications educational and vocational programming assessment and treatment planning assistive technology.
Prerequisite: SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43062 CURRICULUM METHODS MILD/MODERATE INTERVENTION 3 Credit Hours
(Slashed with SPED 53062) Effective methods for teaching students with mild to moderate disabilities. Research-based practices for individualizing the general education curriculum. Emphasis on specially designed instruction, collaboration, and team-based problem solving.
Prerequisite: Admission to advanced study or the professional phase; and SPED 24000.
Corequisite: SPED 44092.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43063 CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION 3 Credit Hours
(Slashed with SPED 53063) Delivery and adaptation of evidence based practices for students with moderate to intensive educational needs. An emphasis is placed on instruction of functional academic and life skills within naturalistic contexts.
Prerequisite: Admission to advanced study or the professional phase.
Corequisite: SPED 44192.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43070 PLANNING AND PROGRAMMING FOR TRANSITIONS 3 Credit Hours
This course discusses transitions that occur throughout the lifespan for individuals with and without disabilities, and the planning, support development and services available to successfully accomplish them. Introduction to community agencies and adult services.
Prerequisite: SPED 43050 or SPED 43051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43080 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES 3 Credit Hours
(Slashed with SPED 53080) Examines the application of high and low technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students.
Prerequisite: Admission to advanced study or professional phase; and SPED 43050 or SPED 43051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43306 FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS 3 Credit Hours
(Slashed with SPED 53306) This course focuses on providing non-audiology majors, specifically deaf education, educational interpreting, and ASL majors, with knowledge to support and serve children with a variety of hearing disorders in the educational setting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43307 LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS 3 Credit Hours
(Slashed with SPED 53307) This class focuses on listening, language and phonemic development for individuals with hearing loss. Specific areas will focus on typical language development and the impacts of hearing loss on language development in receptive, expressive, semantic, phonological, social, morphological and syntactical domains with an emphasis on reading and written language. The Auditory-Visual continuum, SCALES, along with strategies for zone of development will be focused on with auditory development strategies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43309 INTRODUCTION TO DEAF STUDIES (ELR) (WIC) 3 Credit Hours
(Cross-listed with ASL 49309) (Slashed with SPED 53309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment and the various communication systems used by deaf individuals. Specifically, topics discussed include historical, medical and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational and vocational experiences of deaf children, adults and their families.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPED 43310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS 3 Credit Hours
(Slashed with SPED 53310) Reviews research, theories and theorists in the field of language development for hearing and deaf children; develops awareness of language differences commonly demonstrated by deaf and hard-of hearing children; demonstrates ways to assess linguistic differences and facilitate instruction. Six topic areas include theories of language development (review), language and cognition, normal language acquisition in signed and spoken languages, child-caregiver interaction, language learning in a bilingual setting and language assessment. Students gain foundational understanding of language development and awareness of classroom applications for this knowledge. Deaf Education majors must achieve a minimum grade of B (3.000) in SPED 43309 before registering for this course.
Prerequisite: Admission to advanced study; and SPED 43309; and ASL 19202; and special education major or ASL english interpreting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS 3 Credit Hours
IEP and transition planning strategies and program content for deaf/hard-of-hearing students w/ADHD, BD, DD, VI, DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson development and adaptation for impacted areas.
Prerequisite: Admission to advaned study; and SPED 43313 with a minimum B grade.
Corequisite: SPED 43392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS 6 Credit Hours
(Slashed with SPED 53313) Theoretical overview of integrated linguistics curriculum and reading theories. Strategies to address DHH difficulties and barriers, instructional planning and materials design, and ongoing assessment strategies. Course includes a practicum placement.
Prerequisite: Admission to advanced study; and SPED 43310 with a minimum B grade; and CI 47504 or ECED 40402.
Pre/corequisite: ASL 29202.
Corequisite: SPED 43392.
Schedule Type: Lecture
Contact Hours: 6 lecture
Grade Mode: Standard Letter

SPED 43324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD-OF-HEARING STUDENTS 3 Credit Hours
Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing.
Prerequisite: Admission to advanced study; and SPED 43313 with a minimum C grade; and CI 47501 and CI 47502.
Corequisite: SPED 43392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43392 PRACTICUM: DEAF EDUCATION (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) This classroom and field-based experience is designed to provide pre-service deaf education teachers with the opportunity to develop professional-level skills in working with deaf and hard-of-hearing (DHH) students. The field component will provide experience in working with DHH students with diverse needs, disabilities and ethnic-cultural backgrounds. The class will address appropriate lesson planning and implementation. Students will spend a minimum of 50 hours in the educational setting (a classroom/educational environment) working with at least one student with hearing loss.
Prerequisite: Deaf education concentration in the special education major.
Schedule Type: Practical Experience
Contact Hours: 3.33-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPED 43950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 53950 and SPED 73950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43953 FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours
The course is specifically designed to examine issues facing families and professionals serving young children with disabilities and those who are at-risk. This course will provide students with theory, general principles, and procedures for fostering partnerships among families, professionals, students, and other stakeholders that lead to outcomes of individual and mutual empowerment.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43954 PRACTICAL APPLICATION: TEAMING 3 Credit Hours
The purpose of this course is to help students understand and apply the principles of effective collaborative teaming as related to their professional roles and responsibilities in a variety of educational settings serving young children with disabilities. A range of topics will be addressed throughout the course, including team models, consultation, reflective practices, effective meetings, conflict resolution and communication skills and coaching.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43955 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours
This course provides an overview of typical and atypical development in young children from birth through age eight, both at the pre-natal and peri-natal levels. Traditional and modern theories of development are discussed within an ecological framework, with an emphasis on brain research, risk factors, culture, and the implications of atypical development as it relates to play and learning. Emphasis on the interrelatedness of development as well as the sequences of development (pedagogical, developmental and logical) is explored.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43958 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours
This course is designed to provide an overview of topics and issues in regard to young children with disabilities within the context of family and current society. This course is a foundational course relevant to early childhood intervention (ECI) professionals from a variety of fields, and includes the current practices in serving young children and their families. All the information provided is interdisciplinary, inclusive and family-focused by nature. The core principles of the Individuals with Disabilities Education Improvement Act (IDEIA) will be reviewed with specific emphasis on Part B 619 and Part C provisions.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43964 ASSESSMENT AND EVALUATION IN EARLY INTERVENTION AND EARLY CHILDHOOD SPECIAL EDUCATION 3 Credit Hours
This course provides an overview of assessment and evaluation in early childhood services. We will examine a range of systems for comparing and observing early childhood services, practices, for young children and families including: screening, eligibility, programmatic assessment, performance monitoring, program evaluation, and accountability. The theoretical concepts of assessment and program evaluation in early childhood services will be investigated in this course, and there will also be opportunities for you to apply this knowledge of assessment instruments, curriculum and instructional strategies and program evaluation methods to intervention settings. Issues and trends related to assessing young children with disabilities (e.g., assessing family outcomes, cultural and linguistic differences) will also be discussed.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Undergraduate seminar in special education; varied topics.
Prerequisite: Admission to advanced study.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SPED 43995 SPECIAL TOPICS IN SPECIAL EDUCATION 1-4 Credit Hours
(Repeatable for credit) Selected topics intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of faculty within Special Education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

SPED 43996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) Student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Special Education faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 44020 MEDICAL ASPECTS OF AUTISM SPECTRUM DISORDERS 3 Credit Hours
(Cross-listed with SPA 44020) Description of medical issues facing individuals with autism spectrum disorders (ASD) and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 44092 FIELD EXPERIENCE 1 FOR INTERVENTION SPECIALISTS (ELR) 3 Credit Hours
(Repeatable for credit) This course is designed to introduce the teacher candidates to the Intervention Specialist Profession. Students will be placed to a setting where they are expected to work with an intervention specialist. Students will also attend a seminar that includes assignments in conjunction with the field activities. Teacher candidates will be evaluated in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with DEC/CEC standards.
Prerequisite: Special Education major; and 2.75 overall GPA.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

SPED 44192 FIELD EXPERIENCE 2 FOR INTERVENTION SPECIALISTS (ELR) 3 Credit Hours
(Repeatable for credit) This course is designed to introduce the teacher candidates to the Intervention Specialist Profession. Students will be placed to a setting where they are expected to work with an intervention specialist. Students will also attend a seminar that includes assignments in conjunction with the field activities. Teacher candidates will be evaluated in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with DEC/CEC standards.
Prerequisite: SPED 44092; and admission to advanced study or the professional phase.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

SPED 44309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours
(Slashed with SPA 54309, SPA 74309 and SPED 64309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 44492 STUDENT TEACHING IN SPECIAL EDUCATION (ELR) 4-9 Credit Hours
Provides opportunity to demonstrate skills in teaching. Students placed in education-based settings; assume total teaching responsibilities of students with exceptionalities for 480 clock hours under the supervision of the school-based mentor teacher and the university supervisor. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Admission to advanced study.
Corequisite: SPED 49525.
Schedule Type: Practical Experience
Contact Hours: 17-35 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPED 44951 CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC) 3 Credit Hours
In this course, students will become familiar with the federal law and state rules as well as recommended practices governing IFSP and IEP development. Students will use this knowledge to competently develop and prepare to implement IFSP outcomes and strategies, and or IEP goals, objectives and benchmarks through the identification of appropriate strategies as well as related supports and services. Family-centered, strengths-based planning and collaboration within the teaming approach will be emphasized. Students will learn about the process of facilitating the development, implementation, and monitoring of the IFSP and IEP as well as learn about the products of this process.
Prerequisite: Minimum 2.750 overall GPA; SPED 43021; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

SPED 45089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) (Slashed with SPED 55089 and SPED 75089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP
Attributes: Diversity Global, Experiential Learning Requirement

SPED 45090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION (ELR) 1-4 Credit Hours
(Slashed with SPED 55090 and SPED 75090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: None.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

SPED 48880 DEAF EDUCATION TEACHING LABORATORY 1-3 Credit Hours
(Repeatable for credit) The purpose of the “teaching lab” is to provide pre-service teachers with the opportunity to develop their teaching skills prior to student teaching experiences, and to be more effective in their practicum placements. This is accomplished through the planning, teaching, and reflection of mock lessons. Through the “teaching lab” experience, pre-service deaf education teachers will have the opportunity to develop professional-level skills necessary for working with deaf and hard-of-hearing (DHH) students, along with self-reflection and giving and/or receiving feedback. Participating faculty members will observe and assess pre-service teachers as they develop their teaching skills and understanding of what it means to be a professional in the field.
Prerequisite: Enrollment in advanced study.
Schedule Type: Laboratory
Contact Hours: 2-6 lab
Grade Mode: Satisfactory/Unsatisfactory

SPED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE 3 Credit Hours
Focus on effective, ethical and responsible implication of professional practice. Provides vehicle to articulate and demonstrate professional competencies, commitment and ethical decision making for providing services to students.
Prerequisite: Admission to advanced study.
Corequisite: SPED 44492.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPED 50093 VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours
(Slashed with SPED 40093 and 70093)(Repeatable for credit) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University and other institution faculty. Offered irregularly.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

SPED 52030 ISSUES IN MODERATE-INTENSIVE DISABILITIES 3 Credit Hours
(Slashed with SPED 42030) Addresses a variety of topics relevant to the education of students with moderate to intensive (MDIN) educational needs, including contemporary issues, evidence-based interventions and the understanding and addressing of mental health issues in educational environments. Prepares pre-service MDIN teachers to understand challenges they are likely to encounter in the classroom, and connects them with local and national professional development resources to help address those challenges.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53010 FAMILY AND PROFESSIONAL COLLABORATION 3 Credit Hours
(Slashed with SPED 43010) This course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions who provide services to them. Use of collaborative, interdisciplinary, and inter-agency models in special education.
Prerequisite: SPED 23000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53021 ASSESSMENT FOR SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 43021) Investigates issues and methods for assessing the academic, behavioral, physiological, mental health, and life skills of individuals with mild, moderate, and intensive disabilities. Interpretation of norm- and criterion formal assessments, creation of alternative assessments, modification of informal assessments, ecological and community-based assessments specific to individuals with low incidence and multiple disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53022 INDIVIDUALIZED PROGRAMMING AND ASSESSMENT IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 43022) Course provides students with the knowledge and skills to select appropriate screening and assessment tools for the purpose of determining eligibility for special education services. In addition, students learn how to administer, score and use assessment results to develop an Individualized Education Program (IEP) for students identified with disabilities.
Prerequisite: SPED 24000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with SPED 43030) Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are emphasized. Procedures for assessing and modifying classroom environments/instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 1.5 other
Grade Mode: Standard Letter

SPED 53031 APPLIED BEHAVIOR ANALYSIS II: APPLICATION 3 Credit Hours
Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 43030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours.
Prerequisite: SPED 53030; and graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

SPED 53040 LANGUAGE AND READING IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 43040) This course focuses on instructional approaches to teaching language and reading to students with disabilities. The major emphasis throughout the course will be on research based techniques to improve student reading performance, focusing on the direct instruction approach to teaching reading. The course will also include intervention strategies to adapt instructional techniques, materials and assessments to meet the needs of diverse learners with disabilities.
Prerequisite: SPED 23000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53041 SUPPLEMENTAL AND INTENSIVE INSTRUCTION FOR MATHEMATICAL DIFFICULTIES 3 Credit Hours
(Slashed with SPED 43041) This course provides students with the knowledge and skills to plan, deliver, and evaluate supplemental and intensive math instruction using research-based programs and practices. Data based individualization will be used to determine what and how to teach to promote mastery and understanding of critical math skills and concepts. Students learn effective strategies and instructional approaches for improving outcomes for students experiencing persistent difficulties learning math, including students with disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53042 INTENSIVE READING INTERVENTIONS AND PHONICS 3 Credit Hours
(Slashed with SPED 43042) This course prepares students to provide high-quality evidence-based reading instruction to children with significant reading difficulties, including those with and without disabilities. Students will learn how to diagnose specific reading strengths and difficulties, select appropriate evidence-based interventions based on data, and provide intensive interventions consistent with the science of reading. Students will learn foundational and advanced concepts in phonics necessary to teach children with dyslexia, learning disabilities, autism, and other disabilities that impact reading development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53050 CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS 3 Credit Hours
Definitions, causes, characteristics; social, educational implications of learning developmental and emotional behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions; current issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53051 CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS 3 Credit Hours
Overview of specific facets and causes of severe disabilities, physical/psychological aspects family/societal responses, political trends, etiology and medical implications, educational and vocational programming, assessment and treatment planning, assistive technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53062 CURRICULUM METHODS MILD/MODERATE INTERVENTION 3 Credit Hours
(Slashed with SPED 43062) Effective methods for teaching students with mild to moderate disabilities. Research-based practices for individualizing the general education curriculum. Emphasis on specially designed instruction, collaboration, and team-based problem solving.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53063 CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION 3 Credit Hours
(Slashed with SPED 43063) Delivery and adaptation of evidence based practices for students with moderate to intensive educational needs. An emphasis is placed on instruction of functional academic and life skills within naturalistic contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53070 PLANNING AND PROGRAMMING FOR TRANSITIONS 3 Credit Hours
This course addresses life-span community participation and the planning, support, development, and services available to accomplish it. Introduction to community agencies and adult services. 10 clinical 15 field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53080 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES 3 Credit Hours
Examines the application of high and low technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students.
Prerequisite: SPED 53050 or SPED 53051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53101 DEAF CULTURE AND COMMUNITY 3 Credit Hours
(Slashed with ASL 49401) Exploration of historical events and figures from deaf community perspective. Life experiences of "typical" deaf individuals as minority culture representatives interacting with majority culture institutions and processes as depicted in narrative storytelling and folklore.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53108 AMERICAN SIGN LANGUAGE LINGUISTICS AND USAGE 3 Credit Hours
(Cross-listed with ASL 49108) Analytical study of American Sign Language syntactic, semantic, morphology and pragmatics; comparison of spoken languages and ASL using the Stokoe system, impact of educational-setting characteristics on linguistic processes.
Prerequisite: SPED 4/53100; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53306 FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS 3 Credit Hours
(Slashed with SPED 43306) This course focuses on providing non-audiology majors, specifically deaf education, educational interpreting, and ASL majors, with knowledge to support and serve children with a variety of hearing disorders in the educational setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53307 LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS 3 Credit Hours
(Slashed with SPED 43307) This class focuses on listening, language and phonemic development for individuals with hearing loss. Specific areas will focus on typical language development and the impacts of hearing loss on language development in receptive, expressive, semantic, phonological, social, morphological and syntactical domains with an emphasis on reading and written language. The Auditory-Visual continuum, SCALES, along with strategies for zone of development will be focused on with auditory development strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53309 INTRODUCTION TO DEAF STUDIES 3 Credit Hours
(Slashed with ASL 49309 and SPED 43309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment and the various communication systems used by deaf individuals. Specifically, topics discussed include historical, medical and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational and vocational experiences of deaf children, adults and their families.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS 3 Credit Hours
Reviews research, theories and theorists in the field of language development for hearing and deaf children; develops awareness of language differences commonly demonstrated by deaf and hard-of hearing children; demonstrates ways to assess linguistic differences and facilitate instruction. Six topic areas include theories of language development (review), language and cognition, normal language acquisition in signed and spoken languages, child-caregiver interaction, language learning in a bilingual setting and language assessment. Students gain foundational understanding of language development and awareness of classroom applications for this knowledge. Deaf Education majors must achieve a minimum grade of B (3.000) in SPED 53309 before registering for this course.
Prerequisite: SPED 53309 and ASL 19202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS 3 Credit Hours
IEP and transition planning strategies and program content for deaf/hard-of-hearing students with ADHD, BD, DD,VI,DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson development and adaptation for impacted areas.
Prerequisite: SPED 53313 with a minimum B grade; and graduate standing.
Corequisite: SPED 63392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS 6 Credit Hours
Theoretical overview of integrated linguistics curriculum and reading theories. Strategies to address DHH difficulties and barriers, instructional planning and materials design, and ongoing assessment strategies. Course includes a practicum placement.
Prerequisite: SPED 53310 with a minimum B grade; and CI 67310 or CI 57504; and graduate standing.
Pre/corequisite: ASL 29202 and SPED 63392.
Schedule Type: Lecture
Contact Hours: 6 lecture
Grade Mode: Standard Letter

SPED 53316 EARLY CHILDHOOD DEAF EDUCATION: FAMILY AND CHILD SERVICE PROVISION 3 Credit Hours
Targets the issues and needs of young deaf/hard-of-hearing children and their families. Topics covered relate to service provision in the home and classroom for deaf/hard-of-hearing children from birth to 5 years of age. Includes 30 hours of work in a practicum placement with a young D/HH child and his/her family.
Prerequisite: SPED 4/53310; ASL/SPED 29202 or sign language proficiency interview (SLPI) at intermediate or above; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD OF HEARING STUDENTS 3 Credit Hours
Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing.
Prerequisite: SPED 53313 with a minimum B grade; and CI 57501 and CI 57502; and graduate standing.
Corequisite: SPED 53392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53534 SOCIAL/EMOTIONAL COMPONENTS OF GIFTEDNESS 3 Credit Hours
Affective growth of gifted persons is reviewed through research literature and analysis of case studies. Reviews adjustment problems of gifted youth and adults.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 43950 and 73950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 54030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours
(Cross-listed with SPA 54030) (Slashed with SPA 44030 and SPA 74030) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with Autism Spectrum Disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 54309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours
(Cross-listed with SPA 54309) (Slashed with SPA 74309 and SPED 44309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 55089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours
(Slashed with SPED 45089 and SPED 75089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Graduate standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPED 55090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours
(Slashed with SPED 45090 and SPED 75090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Graduate standing.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPED 58880 DEAF EDUCATION TEACHING LABORATORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with SPED 48880) The purpose of the "teaching lab" is to provide pre-service teachers with the opportunity to develop their teaching skills prior to student teaching experiences, and to be more effective in their practicum placements. This is accomplished through the planning, teaching, and reflection of mock lessons. Through the "teaching lab" experience, pre-service deaf education teachers will have the opportunity to develop professional-level skills necessary for working with deaf and hard-of-hearing (DHH) students, along with self-reflection and giving and/or receiving feedback. Participating faculty members will observe and assess pre-service teachers as they develop their teaching skills and understanding of what it means to be a professional in the field.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2-6 lab
Grade Mode: Satisfactory/Unsatisfactory

SPED 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SPED 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 62951 EARLY INTERVENTION IN NATURAL ENVIRONMENTS 3 Credit Hours
This seminar targets early childhood special education and intervention professionals that comprise the field of early intervention from practitioners to future leaders in the field. Recommended practice guidelines of the Division for Early Childhood (DEC) indicate that interventions should be embedded and distributed within and across the routines, activities and places that are part of the child's daily experience. In keeping with DEC recommendations, this course will explore issues related to the various natural environments of the children in search of the routines, activities, and places that offer the maximum learning and practice opportunities that are family centered, developmentally and individually appropriate, culturally sensitive, and least intrusive.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63030 PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION 3 Credit Hours
Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/ intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63031 PROGRAM DEVELOPMENT IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours
Describe and apply methodology and research design in developing and monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based in applied behavior analysis. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to treatment implementation fidelity and behavioral program development are also emphasized.
Prerequisite: Graduate standing.
Pre/corequisite: SPED 53030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63032 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours
Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hours.
Prerequisite: SPED 53030, SPED 53031, SPED 63031, SPED 63301 and SPED 63033; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63033 ETHICAL AND PROFESSIONAL CONDUCT IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours
This course provides an intensive focus on ethical and professional conduct as it applies to day-to-day implementation of applied behavior analytic strategies by professional behavior analysts. Responsible conduct of a behavior analyst, ethical responsibilities to clients, colleagues, the field of applied behavior analysis, and society are featured. BACB Guidelines for Responsible Conduct for Behavior Analyst and BACB Disciplinary and Ethical Standards are reviewed and studied. This course focuses on meeting the updated standards for ethics set forth by the Behavior Analyst Certification Board in the BACB Fourth Edition Task List.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63034 PRINCIPLES AND CONCEPTS IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours
This course focuses on the advanced conceptual, philosophical, and theoretical underpinnings of applied behavior analysis and the research literature from which they were derived. This course is designed for those who will pursue certification through the Behavior Analyst Certification Board, and as such, delves deep into the technical aspects of the science of applied behavior analysis. Students will become fluent in such areas as the theories of behavior, principles of operant and respondent conditioning, stimulus class, automatic and socially mediated contingencies, motivating operations, and stimulus control, as well as be able to identify and describe examples of how they are used. Prerequisite: Admission to Behavior Intervention Specialist Certificate; and graduate standing
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63075 ASPECTS OF DISABILITY AND TRANSITION SERVICES 3 Credit Hours
This course provides an advanced examination of evidence-based practices involved in providing transition services to students with a wide range of disabilities. Topics include but are not limited to: assessment of transition needs and interests, job development and creation, support and instruction in the classroom and community and collaboration with families and related transition service providers.
Prerequisite: SPED 53070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63092 FIELD EXPERIENCE IN SPECIAL EDUCATION 3 Credit Hours
Provides opportunity to observe master teachers and begin working with students. Students are placed in education-based settings and work with a team of professionals to understand techniques for providing services to students with exceptionalities. Additional seminar meetings.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 63101 ADMINISTRATION AND SUPERVISION IN SPECIAL EDUCATION 3 Credit Hours
Administration of educational programs for exceptional children; improvement of teacher competencies; function of special education supervisors; and special education operations at local, state and national levels.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63201 CONTEMPORARY ISSUES IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 83201) Surveys current research, literature and policy issues that affect identification, assessment and service provision to students with exceptionalities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63204 LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 73204) This course will review the statutory and regulatory foundations of U.S. public policies pertaining to children and youth with disabilities. Key judicial interpretations of those policies will also be reviewed. The course will provide comprehensive overviews of The Individuals with Disabilities Education Act, The Every Student Succeeds Act, The Americans with Disabilities Act, The Vocational Rehabilitation Act, relevant sections of The Social Security Act. In addition, students will gain an awareness of miscellaneous other pieces of legislation and examples of case law pertaining to the education of students with disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63300 RESEARCH APPLICATIONS IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 73300) Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum, and assimilating knowledge through applied projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPED 63301 SINGLE SUBJECT RESEARCH METHODS 3 Credit Hours
(Repeatable for credit) This course focuses on design and implementation of high-quality, experimental single subject research studies for the purpose of evaluating the effectiveness of an intervention with a particular individual. Masters students learn about the quality indicators for single subject research methods and how to use them to design a study that is internally valid. Doctoral students learn how to use those quality indicators to design, complete, and submit for publication their own research; and how to use them to evaluate single subject research for critical review. Students also learn how to graph outcome data using traditional visual analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63392 PRACTICUM IN DEAF EDUCATION 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) This classroom and field-based experience is designed to provide pre-service deaf education teachers with the opportunity to develop professional-level skills in working with deaf and hard-of-hearing (DHH) students. The field component will provide experience in working with DHH students with diverse needs, disabilities, and ethnic-cultural backgrounds. The class will address appropriate lesson planning and implementation. Students will spend a minimum of 50 hours in the educational setting (a classroom/educational environment) working with at least one student with hearing loss.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3.3-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 63892 EARLY INTERVENTION INTERNSHIP 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) The Early Intervention Internship involves supervised observation and participation in an early intervention setting(s) for children ages birth to three with developmental delays and disabilities or supervised observation and participation in research and scholarly activities related to the development, delivery, and evaluation of early intervention services to children and their families. Students may be placed at a county board of developmental disabilities, center-, community-, or home-based early intervention program, a developmental center, childcare center, a neonatal intensive care unit (NICU) or other approved placement. The Early Intervention internship will provide students practical experience in an Early Intervention professional setting, one that allows students to develop and refine a variety of skills when working with infants and toddlers with disabilities and their families.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory

SPED 63949 AUTISM SPECTRUM DISORDER CAPSTONE 1-3 Credit Hours
Knowledge and skills gained through participation in the Autism Spectrum Disorders (ASD) program are utilized to develop a project related to the education of individuals with ASD and-or the individuals who support them.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

SPED 63952 FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours
(Cross-listed with ECED 60159) Examines issues facing families and professionals serving young children who are at-risk, disabled and typically developing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63953 PRACTICAL APPLICATIONS:BIRTH TO FIVE 3 Credit Hours
Practical application of recommended practices for young children birth-five. Observation of young children in natural environments. Plan and evaluate intervention with families and professionals. Sixty field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63954 PRACTICAL APPLICATIONS: TEAMING 3 Credit Hours
The purpose of this course is to help students understand and apply the principles of effective collaborative teaming as related to their professional roles and responsibilities in a variety of educational settings serving young children with disabilities. A range of topics will be addressed throughout the course, including giving and receiving feedback, reflective practices, effective meeting, conflict resolution and communication skills, developing and providing quality professional development, supervising, coaching, mentoring, working with para-professionals, itinerant teaching, service coordination, and consulting with general educators.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63955 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours
Overview of typical and atypical development pathways from birth to grade 3 including: theories of behavior, implications of atypical development on play, learning, early childhood development within ecological framework.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63956 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Cross-listed with ECED 60156) (Slashed with SPED 73956) Overview of issues facing young children within context of family/society including: history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment intervention and evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63957 ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 73957) Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments, monitoring progress.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63958 EARLY CHILDHOOD INTERVENTION METHODS 3 Credit Hours
Specific strategies for working with children birth to eight with intensive needs (e.g.cerebral palsy, spina bifida, autism). 30 clinical hours will provide students with the opportunity to practice newly acquired intervention strategies, knowledge and skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63959 MEDICAL ASPECTS OF LIFESPAN DISABILITIES 3 Credit Hours
Description of medical issues facing individuals with lifespan disabilities and their families. Examination of etiology, co-occuring disabilities and disorders, and treatment options in relation to individuals with Autism Spectrum Disorders and other developmental disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SPED 63992 STUDENT TEACHING IN SPECIAL EDUCATION 4-8 Credit Hours
(Repeatable for maximum of 8 credit hours) Provides opportunity to demonstrate skills in teaching. Students placed in education-based settings; assume total teaching responsibilities of students with exceptionalities for 480 clock hours under the supervision of the school-based mentor teacher and the university supervisor. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.
Prerequisite: Graduate standing; and special approval.
Corequisite: SPED 69525.
Schedule Type: Practical Experience
Contact Hours: 17-35 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 63995 SPECIAL TOPICS IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with SPED 73995) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPED 63996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-10 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 63998 RESEARCH:SPECIAL EDUCATION 1-10 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 64200 CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION 3 Credit Hours
This course focuses upon the development of transition agreements and collaboration between secondary transition specialists and other transition stakeholders (e.g., elementary school regular educators, parents of students with disabilities, adult service programs). Particular emphasis is placed upon infusing vocational, and non-vocational, transition planning in the curricula for individuals with moderate-to-intensive disabilities at all academic grade levels. 100 field hours are required for this course.
Prerequisite: SPED 53070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 64892 ADVANCED PRACTICUM 3-4 Credit Hours
(Repeatable for credit) The purpose of this advanced practicum is to integrate the knowledge and skills acquired through prior curricula to a field-based setting assisting individuals with disabilities. Settings may include, but are not limited to, general education and special education classrooms as well as therapeutic, residential and vocational programs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 64951 DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM 3 Credit Hours
Designed to increase students understanding regarding federal and state rules for developing IEPs for P-12 students and IFSPs for young children and their families. Students will learn how to write functional and measurable IEP goals, objectives and IFSP outcomes, and to use assessment information directly for identifying, writing, and monitoring IFSP outcomes and IEP goals. This course will also teach how to form partnerships with families around developing, implementing and evaluating the IFSP and IEP.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 69525 INQUIRY PROFESSIONAL PRACTICE 3 Credit Hours
This course is to support students during their student teaching experience in the last semester of the program. Planning for instruction and assessment, instructing and engaging students in various special education settings, and assessing learning outcomes are the focus of this course. The course also includes information specific to the professional responsibilities in their placements.
Prerequisite: Graduate standing.
Corequisite: SPED 63992.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 70092 COLLEGE TEACHING AND PRACTICUM 3 Credit Hours
(Repeatable for credit) The content of this course will focus on major aspects of teaching in higher education, including topics such as philosophy of teaching, principles of adult learning, instructional strategies, and assessment. Students will apply their knowledge by participating in activities related to course and material development as well as delivery and grading of an undergraduate or masters level course under the direct supervision of a faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

SPED 70093 VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours
(Slashed with SPED 40093 and SPED 50093)(Repeatable for credit) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University and other institution faculty. Offered irregularly.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

SPED 73030 PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION 3 Credit Hours
Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73204 LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 63204) This course will review the statutory and regulatory foundations of U.S. public policies pertaining to children and youth with disabilities. Key judicial interpretations of those policies will also be reviewed. The course will provide comprehensive overviews of The Individuals with Disabilities Education Act, The Every Student Succeeds Act, The Americans with Disabilities Act, The Vocational Rehabilitation Act, relevant sections of The Social Security Act. In addition, students will gain an awareness of miscellaneous other pieces of legislation and examples of case law pertaining to the education of students with disabilities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73300 RESEARCH APPLICATIONS IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 63300) Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum, and assimilating knowledge through applied projects.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPED 73950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 63950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73956 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Cross-listed with ECED 60156) (Slashed with SPED 63956) Overview of issues facing young children within context of family/society including: history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment intervention and evaluation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73957 ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 73957) Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments monitoring progress.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73991 SEMINAR IN SPECIAL EDUCATION 1,3 Credit Hour
(Repeatable for credit)Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SPED 73995 SPECIAL TOPICS IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with SPED 63995) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPED 73996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-10 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 74200 CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION 3 Credit Hours
(Slashed with SPED 64200) This course focuses upon the development of transition agreements and collaboration between secondary transition specialists and other transition stakeholders (e.g., elementary school regular educators, parents of students with disabilities, adult service programs). Particular emphasis is placed upon infusing vocational, and non-vocational, transition planning in the curricula for individuals with moderate-to-intensive disabilities at all academic grade levels. 100 field hours are required for this course.
Prerequisite: SPED 53070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 75089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours
(Slashed with SPED 45089 and SPED 55089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Doctoral standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPED 75090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours
(Slashed with SPED 45090 and SPED 55090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Doctoral standing.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPED 80001 SPECIAL EDUCATION RESIDENCY 3 Credit Hours
This course is designed to provide beginning SPED doctoral students skills and knowledge in the following global areas: information literacy and plagiarism, basic APA style writing and building a writing routine. Additionally, the course will prepare students in the following SPED specific areas: effectively synthesizing intervention based empirical research, establishing a line of inquiry in the disability related fields, and developing a CV for disability related positions in Higher Education. Overall, the course will help students to understand life in academia during the doctoral studies in SPED and life after graduation conducting timely SPED research and teaching SPED content (e.g., institutional differences for SPED higher education jobs, tenure, work and life balance, time management, etc).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPED 80002 ANALYSIS OF THE LITERATURE IN SPECIAL EDUCATION 3 Credit Hours
This course is designed to assist doctoral students in the acquisition, organization, and interpretation of information about research in special education. The seminar introduces students to the nature of inquiry and the process of generating questions about a broad array of disability-related research topics. Students will gain knowledge to analyze critically the outcomes of research in special education.
Prerequisite: SPED 80001; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPED 80003 IMPLEMENTATION SCIENCE IN SPECIAL EDUCATION 3 Credit Hours
This course is designed to provide students an overview of implementation science, and seminal leadership and systems change literature. The course will describe current state of the science of implementation, and identify strategies that foster the effective transmission and implementation of innovative programs in intervention focused disability studies special education fields. Students analyze and apply the literature at the teacher, family, school building, district, state and federal levels. Students will gain skills and knowledge in implementation drivers that have the potential in reducing the research to practice gap, and increasing the integration of evidence based practices. Strategies for developing and mobilizing stakeholders to support the process of change will be covered.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 80005 EMPIRICAL INVESTIGATIONS IN SPECIAL EDUCATION 3 Credit Hours
The course is intended to help students solidify their knowledge, skills, and dispositions related to research design, research methods, and scholarly writing by applying and expanding them in the context of special education research. Students will review and analyze quality indicators for special education research, critique select special education research literature, and develop a preliminary research proposal.
Prerequisite: SPED 80002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 80040 RESEARCH GRANT DEVELOPMENT FOR DISABILITY PROGRAMS 3 Credit Hours
Students develop and write research proposals for grant competitions focusing on disability issues. Considerations for types of competitions and funding sources are discussed. Focus of instruction is related to how to describe the importance of the research proposed, research methods identified, budget, administration of grant activities and evaluation of implementation.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

SPED 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Provides students with the opportunity to synthesize courses, research and practice by focusing on diverse issues and topics. Ordinarily, SPED 80090 is taken no earlier than the second year of doctoral studies as a culminating course in the doctoral sequence.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPED 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: SPED 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 83201 CONTEMPORARY ISSUES IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 63201) This course is designed to help doctoral students to develop (a) foundational knowledge for understanding important and controversial issues in special education and related disciplines; (b) skills in critical analysis and synthesis of research; and, (c) skills in effective oral and written communication about historical and contemporary issues in special education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 83301 SINGLE-SUBJECT RESEARCH METHODS 3 Credit Hours
(Repeatable for credit) (Slashed with SPED 63301) This course focuses on design and implementation of high-quality, experimental single subject research studies for the purpose of evaluating the effectiveness of an intervention with a particular individual. Masters students learn about the quality indicators for single subject research methods and how to use them to design a study that is internally valid. Doctoral students learn how to use those quality indicators to design, complete, and submit for publication their own research; and how to use them to evaluate single subject research for critical review. Students also learn how to graph outcome data using traditional visual analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 83952 THE LAW AND SPECIAL EDUCATION 3 Credit Hours
Selected principles of constitutional, statutory, case and common law affecting handicapped and special education students, teachers and administrators are studied.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 83991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SPED 83992 INTERNSHIP IN SPECIAL EDUCATION 2-8 Credit Hours
(Repeatable for credit) A college-university doctoral-level supervised teaching experience. The candidates participate fully in the course and material development as well as delivery and grading of an undergraduate or masters level course under the direct supervision of a faculty member assigned to teach the class. Candidates are expected to partially participate in the delivery of a third of the course and fully deliver at least a third of the course under the observation and supervision of a faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 12-24 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 83998 RESEARCH:SPECIAL EDUCATION 1-10 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Speech Pathology and Audiology (SPA)

SPA 10002 INTRODUCTION TO COMMUNICATION DISORDERS AND DIFFERENCES 3 Credit Hours
An introduction to communication disorders and differences using a) case studies via film and video review and critique, b) lecture, and c) class discussions. Covers speech, language, swallowing and hearing disorders and cultural and linguistic differences in communication.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 14500 INTRODUCTION TO PSYCHOLINGUISTICS FOR COMMUNICATION SCIENCES AND DISORDERS 3 Credit Hours
Examines current theory and research specific to typical language — with a significant focus on the cognitive processes that inform our understanding of social, psychological and linguistic aspects of language use and understanding in the context of communication sciences and disorders.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 33101 HEARING AND SPEECH SCIENCE 3 Credit Hours
Acoustics, psychoacoustics, and acoustics of speech production and perception.
Prerequisite: Admittance into the SPA professional phase (minimum 3.000 overall GPA at 60 credits).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34102 APPLIED PHONETICS 3 Credit Hours
Basic principles of speech production and phonetic transcriptions of English with the international phonetic alphabet; emphasis on general American dialect.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34103 ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING 3 Credit Hours
Functional anatomy and physiology of the respiratory, phonatory, articulatory, neural, and auditory systems as they are used with normal and abnormal speech and hearing.
Prerequisite: SPA 34104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34104 SPEECH AND LANGUAGE ACQUISITION 3 Credit Hours
Normal development and linguistic analysis of language systems including phonology, morphology, syntax, semantics, and pragmatics.
Pre/corequisite: SPA 34102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34106 ARTICULATORY AND PHONOLOGICAL DISORDERS 3 Credit Hours
Assessment and remediation of disorders of articulation and phonology.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 34102 and SPA 34104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34107 LANGUAGE DISORDERS IN CHILDREN AND ADOLESCENTS 3 Credit Hours
Introduction to assessment and intervention procedures associated with language disorders in children and adolescents.
Prerequisite: SPA 34104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34210 SPEECH AND LANGUAGE DEVELOPMENT 3 Credit Hours
Normal development and linguistic analysis of language systems including phonology, morphology, syntax, semantics, and pragmatics. This course is for non-speech pathology and audiology majors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 43402 AUDIOMETRY 3 Credit Hours
(Slashed with SPA 53402) Measurement of human hearing by pure-tone and speech audiometry; evaluation of middle ear function by immittance audiometry; screening techniques; pathologies of the conductive and sensorineural systems.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 33101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 43404 AURAL REHABILITATION 3 Credit Hours
Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing-impaired individuals.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 33101 and SPA 34102 and SPA 43402.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 43405 CLINICAL PREPARATION IN AUDIOLOGY (ELR) 2 Credit Hours
Exercises and practical experiences in audiometric procedures, test interpretation, and Audiological diagnosis.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 hours).
Corequisite: SPA 43402.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

SPA 44010 SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS 3 Credit Hours
Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores the use of assistive technology to enhance social communicative functioning in those with ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44020 MEDICAL ASPECTS OF AUTISM SPECTRUM DISORDERS 3 Credit Hours
(Cross-listed with SPED 44020) Description of medical issues facing individuals with autism spectrum disorders (ASD) and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours
(Slashed with SPA 54030, SPA 74030 and SPED 54030) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents and young adults with autism spectrum disorders (ASD). Students learning skills necessary to evaluate and develop programs designed to meet the changing and long term needs of those with ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY (DIVG) (ELR) 1-4 Credit Hours
(Slashed with SPA 54089 and SPA 74089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP
Attributes: Diversity Global, Experiential Learning Requirement

SPA 44096 INDEPENDENT STUDY: SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours
(Repeatable for credit) Readings and/or research on problems approved by chairman of department in consultation with student's adviser and project director.
Prerequisite: Speech pathology and audiology major and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

SPA 44110 SPEECH SCIENCE 3 Credit Hours
Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 34102 and SPA 34106.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44111 NEURAL PROCESSES 3 Credit Hours
(Slashed with SPA 54111) Anatomy and physiology of the nervous system underlying human neuromotor movements. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function, and neural maturation and learning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44112 AGE-RELATED CHANGES IN COMMUNICATION 3 Credit Hours
Nonpathological age-related changes in speech, language and voice. Topics include structural changes in orofacial, laryngeal and respiratory mechanism; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44130 COMMUNICATION DISORDERS OF THE AGING 2 Credit Hours
Hearing, speech and language disorders in geriatric population. Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 44310 CLINICAL PROCEDURES IN SPEECH PATHOLOGY 3 Credit Hours
This course addresses evaluation and intervention procedures in the field of speech-language pathology across the lifespan.
Prerequisite: Admittance into the admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits) professional phase (minimum 3.000 overall GPA at 60 credits); and Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44311 CLINICAL PREPARATION IN SPEECH-LANGUAGE PATHOLOGY (ELR) (WIC) 2 Credit Hours
The course covers the essential professional written communication associated with evaluation and intervention methodology for individuals with communication disorders.
Prerequisite: Admittance into the speech pathology and audiology professional phase (3.000 overall GPA at 60 hours).
Corequisite: SPA 44310.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPA 53402 AUDIOMETRY 3 Credit Hours
(Slashed with SPA 43402) Measurement of human hearing by puretone and speech audiometry# evaluation of middle ear function by immittance audiometry# screening techniques# pathologies of the conductive and sensorineural systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 53404 AURAL REHABILITATION 3 Credit Hours
Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing-impaired individuals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54010 SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS 3 Credit Hours
(Slashed with SPA 44010) Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores the use of assistive technology to enhance social communicative functioning in those with ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours
(Cross-listed with SPED 54030) (Slashed with SPA 44030 and SPA 74030) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents and young adults with autism spectrum disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with SPA 44089 and SPA 74089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Graduate standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPA 54096 INDEPENDENT STUDY: SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours
(Repeatable for credit) Readings and/or research on problems approved by chair of department in consultation with student's adviser and project director.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

SPA 54110 SPEECH SCIENCE 3 Credit Hours
Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders.
Prerequisite: SPA 34102 and 34106; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54111 NEURAL PROCESSES IN SPEECH AND LANGUAGE 3 Credit Hours
Anatomy and physiology of the nervous system underlying speech and language. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function and neural maturation and learning.
Prerequisite: SPA 34103 or special approval of the instructor; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54112 AGE-RELATED CHANGES IN COMMUNICATION 3 Credit Hours
Nonpathological age-related changes in speech, language and voice. Topics include: structural changes in orofacial, laryngeal and respiratory mechanisms; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54130 COMMUNICATION DISORDERS OF THE AGING 2 Credit Hours
Hearing, speech and language disorders in geriatric population. Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 54309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours
(Cross-listed with SPED 54309) (Slashed with SPED 44309 and SPA 74309) Provides an overview of autism spectrum disorders (ASD). Examines the history, characteristics, and prevalence of ASD. The different theoretical models for understanding ASD are explored as they relate to assessment and intervention.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 60708 CRITICAL ANALYSIS OF RESEARCH 2 Credit Hours
(Slashed with SPA 70708) Development of a reading knowledge of research and the ability to evaluate the quality of research studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 63691 SEMINAR IN AUDIOLOGY 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPA 64091 SEMINAR IN COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Special topics seminar for advanced students in speech-language pathology and audiology. Presentations and discussion of research projects are required.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64093 WORKSHOP IN COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for credit)Variable topic workshop offered when need arises, either on or off campus to update training in a particular area of speech pathology.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 64096 INDIVIDUAL INVESTIGATION:SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours) Independent study of topics to be selected in consultation with graduate faculty.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64191 SEMINAR:NEUROGENIC COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia.
Prerequisite: SPA 64301; and graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64291 SEMINAR:CHILD LANGUAGE 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Topics are selected for class investigation from the areas of child language development or disorders.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SPA 64199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64301 APHASIA 3 Credit Hours
Neuroanatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia in adults.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64302 LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD 3 Credit Hours
Methods of language assessment and intervention for infants, toddlers and preschoolers who are either at risk or diagnosed as presenting language delays or disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64303 DISORDERS OF ARTICULATION AND PHONOLOGY 3 Credit Hours
Diagnosis and remediation of children's articulation and phonological disorders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64304 ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS 3 Credit Hours
Cognitive functions and etiologies, symptomologies, evaluation and treatment methods related to adults with cognitive communicative disorders subsequent to right hemisphere damage, traumatic brain injury, dementia and related impairments.
Prerequisite: Speech language pathology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64305 FLUENCY DISORDERS 3 Credit Hours
Nature, theories and their derived therapeutic approaches to the treatment of fluency disorders.
Prerequisite: Speech language pathology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64306 VOICE DISORDERS 2 Credit Hours
Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 64308 LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS 3 Credit Hours
Theoretical background knowledge and practical assessment and intervention techniques for school-age children who demonstrate language disorders.
Prerequisite: SPA 34107; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64311 AUTISM SPECTRUM DISORDERS 2 Credit Hours
Provides an overview of the social, communication, and language needs of those with autism spectrum disorder. Reviews contemporary assessment and intervention strategies. This course is designed to prepare preservice speech language pathologists with foundational information about autism spectrum disorders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 64312 MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS 3 Credit Hours
(Slashed with SPA 74312) Anatomic and physiologic bases of congenital and acquired motor speech disorders. Etiology, symptomatology, evaluation and treatment techniques related to variety of motor speech disorders in children and adults.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64354 PEDIATRIC MEDICAL ISSUES 2 Credit Hours
Nature and rehabilitative procedures for speech-language pathology practice with pediatric medical issues, including dysphagia, maxillofacial anomalies, and resonance disorders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 64356 ADULT DYSPHAGIA 3 Credit Hours
(Slashed with SPA 74356) Anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to swallowing disorders in adults.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64391 SEMINAR:SEMINAR: ARTICULATION AND PHONOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64491 SEMINAR:ORGANIC SPEECH DISORDERS 1-3 Credit Hours
(Repeatable for credit)A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64492 CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-12 Credit Hours
(Repeatable for credit) Supervised clinical practice with patients who have speech, hearing or language problems.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-12 other
Grade Mode: Standard Letter-IP

SPA 64500 NORMAL LANGUAGE PROCESSES 3 Credit Hours
Examines current theory and research specific to normal human development from birth to age 21. Significant neurological, cognitive, social, linguistic, emotional, literacy, and motor developmental changes are explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64501 SOCIAL COMMUNICATION ASPECTS OF AUTISM SPECTRUM DISORDER 3 Credit Hours
(Slashed with SPA 74501) Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores use of assistive technology to enhance social communicative functioning in those with ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64504 ADVANCED SPEECH AND VOICE SCIENCE 3 Credit Hours
Application of normal and disordered speech, swallowing, and voice production and perception; survey of literature; theories of production and perception.
Prerequisite: SPA 54110; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64525 PUBLIC SCHOOL TECHNIQUES IN COMMUNICATION DISORDERS:INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech language pathologist or audiologist as disciplined investigator. Combination of themes including organizational procedures, therapy techniques, collaboration, ethics and research.
Prerequisite: Graduate standing; and special approval.
Corequisite: SPA 64592.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64591 SEMINAR:FLUENCY DISORDERS 1-3 Credit Hours
(Repeatable for a maximum 9 credit hours)Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64592 STUDENT TEACHING IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 8 Credit Hours
Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech language pathologist or audiologist as disciplined investigator. Combination of themes including organization, procedures, therapy techniques, collaboration, ethics and research. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing; and special approval.
Corequisite: SPA 64525.
Schedule Type: Practical Experience
Contact Hours: 40 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 64600 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 3 Credit Hours
Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech language pathology and audiology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64691 SEMINAR:VOICE DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment.
Prerequisite: SPA 6/74306; and graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64791 SEMINAR:SPEECH SCIENCE 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception.
Prerequisite: SPA 4/54110 and SPA 6/74504; graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64891 SEMINAR: COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY 2 Credit Hours
(Slashed with SPA 74891) (Repeatable for credit) Nature, etiologies and correlates of speech/language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication, language, learning and literacy.
Prerequisite: SPA 64302 and SPA 64500; and graduate standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

SPA 64991 SEMINAR:CRITICAL TOPICS IN SPEECH LANGUAGE 1-3 Credit Hours
(Repeatable for credit) Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework.
Prerequisite: Speech pathology and audiology major only; and graduate standing; and instructor special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 65092 CLINICAL PRACTICUM I IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 75092) (Repeatable twice for credit) Supervised, introductory clinical experience in assessment and intervention with populations within the Scope of Practice of speech language pathology per the current practice policy of the American Speech Language Hearing Association. To facilitate clinical competency and accrual of required clinical clock hours per current ASHA standards, students are expected to enroll in Clinical Practicum each semester that they are not enrolled in Externship or Student Teaching. A grade of B or better in this course is required for permission to register in SPA 65192.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 65192 CLINICAL PRACTICUM II IN SPEECH AND LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 75192) (Repeatable twice for credit) This course includes additional supervised, hands on clinical experience with clients in on campus clinics. Student clinicians are provided with opportunities to demonstrate increased independence in clinical decision making and performance. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for registration in SPA 65292.
Prerequisite: SPA 65092 with a minimum C grade; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 65292 CLINICAL PRACTICUM III IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 75292) (Repeatable twice for credit) Includes additional supervised, hands on clinical experience with clients in on campus clinics and or off-campus, supervised clinical experience in sites such as schools or long term care facilities. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that reflect readiness for Externship or Student Teaching experiences. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for permission to register in the following courses: Clinical Practicum IV in Speech Language Pathology SPA 65392, Externship in Speech Language Pathology: Adult SPA 65492, Externship in Speech Language Pathology: Pediatric SPA 65592, Student Teaching in Speech Language Pathology SPA 64528.
Prerequisite: SPA 65192 with a minimum B grade; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 65392 CLINICAL PRACTICUM IV IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 75392) (Repeatable twice for credit) This supervised, hands on clinical experience with clients in on campus clinics or off campus sites is for second year graduate students who are not yet scheduled for externship or student teaching. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that are reflective of readiness for externship or student teaching experiences. A grade of B or better in this course is required for permission to register in the following courses: Externship in speech language pathology: adult SPA 65492, externship in speech language pathology: pediatric SPA 65592, student teaching in speech language pathology SPA 64528.
Prerequisite: SPA 65292 with a minimum B grade; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 65492 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: ADULT 4-8 Credit Hours
(Slashed with SPA 75492) (Repeatable once for credit) Considered a culminating clinical experience. Includes supervised, hands-on clinical experience with patients in adult care settings such as hospitals, rehabilitation and long term care facilities.
Prerequisite: SPA 65292 or SPA 65392 with a minimum B grade; and graduate standing; and permission.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Standard Letter-IP

SPA 65592 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: PEDIATRIC 4-8 Credit Hours
(Slashed with SPA 75592) (Repeatable once for credit) Considered a culminating clinical experience. Students may choose this course as an alternative to student teaching in speech-language pathology. Includes supervised, hands-on clinical experience with children and adolescents in pediatric care settings such as hospitals and other habilitation and rehabilitation facilities.
Prerequisite: SPA 65292 or SPA 65392 with a minimum B grade; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Standard Letter-IP

SPA 70192 GRADUATE AUDIOLOGIST I 3 Credit Hours
Supervised clinical practicum in audiology which encompasses audiologic assessments and audiologic habilitation.
Prerequisite: SPA 70792; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

SPA 70292 GRADUATE AUDIOLOGIST II 3 Credit Hours
Supervised clinical practicum in audiology requiring the independent performance of audiologic assessment procedures, audiologic rehabilitation and vestibular assessment and rehabilitation.
Prerequisite: SPA 70192; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

SPA 70392 GRADUATE AUDIOLOGIST III 6 Credit Hours
Supervised clinical practicum in audiology which encompasses the entire range of audiologic procedures including neurophysiological based procedures.
Prerequisite: Passing score of 600 or higher on the PRAXIS examination; and SPA 70292; and doctoral standing; and special approval.
Corequisite: SPA 70791.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 70492 GRADUATE AUDIOLOGIST IV 8 Credit Hours
Full-time clinical practicum in audiology at an off-campus site. Students taking the course must have successfully completed the Praxis Examination.
Prerequisite: SPA 70392; and doctoral standing.
Corequisite: SPA 70791.
Schedule Type: Practical Experience
Contact Hours: 24 other
Grade Mode: Standard Letter

SPA 70592 GRADUATE AUDIOLOGIST V 8 Credit Hours
Full-time external audiology clinical placement with a licensed and appropriately credentialed preceptor who provides clinical teaching. This experience provides a capstone learning experience in the full scope of practice in the profession of audiology.
Prerequisite: SPA 70492; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 24 other
Grade Mode: Standard Letter

SPA 70615 CENTRAL AUDITORY PROCESSING EVALUATION AND MANAGEMENT 2 Credit Hours
Study of audiologic evaluation and (re)habilitation procedures for people central auditory processing disorders.
Prerequisite: SPA 70705 and SPA 70706; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70616 HEARING AID FITTING AND SELECTION ACROSS THE LIFESPAN 4 Credit Hours
Examination of the theory and practice of fitting hearing aids across the lifespan. Emphasis on special clinical procedures, research needs and evolving technology in hearing instruments.
Prerequisite: Admission to the audiology major; and SPA 70713; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70618 IMPLANTABLE TECHNOLOGY 4 Credit Hours
Study of implantable devices in children and adults including equipment, candidacy, programming, fitting, and troubleshooting.
Prerequisite: Admisstion to the audiology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70627 MULTICULTURAL ISSUES IN AUDIOLOGY 2 Credit Hours
An introduction to varying cultures and the audiologist's roles and responsibilities in planning treatment with a member of these cultures.
Prerequisite: Admission to the audiology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70630 PRACTICE MANAGEMENT IN AUDIOLOGY 3 Credit Hours
Study of issues which impact the management of audiological practices, including establishing a private practice, reimbursement, marketing, record keeping and professional liability.
Prerequisite: Admission to the audiology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70691 SEMINAR IN AUDIOLOGY 2 Credit Hours
(Repeatable for credit)Selected current topics in audiology with emphasis on review of current literature.
Prerequisite: Admission to the AUD program or special approval of the instructor; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

SPA 70692 INTERNSHIP IN AUDIOLOGY 2 Credit Hours
(Repeatable for credit) Supervised practicum in audiology requiring the independent performance of basic audiologic procedures, including hearing aid management.
Prerequisite: SPA 70744; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 70701 BASIC AND APPLIED PHYSICAL ACOUSTICS FOR AUDIOLOGY 4 Credit Hours
Study of physical acoustics, basic electricity and electronics, as well as principles, methodology, calibration and maintenance of audiologic equipment.
Prerequisite: Admission to the AUD program or special approval of instructor; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70702 ANATOMY AND PHYSIOLOGY OF PERIPHERAL AUDITORY AND VESTIBULAR SYSTEMS 4 Credit Hours
A study of the anatomy, biophysics and physiology of the auditory and vestibular systems.
Prerequisite: Admission to the Audiology program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70703 SPEECH ACOUSTICS AND SPEECH PERCEPTION 2 Credit Hours
Study of the nomenclature, acoustics, measurement, and perception of speech sounds and their impact and interpretation in audiology.
Prerequisite: Admission to the audiology program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70704 CRITICAL ANALYSIS OF RESEARCH IN AUDIOLOGY 2 Credit Hours
General introduction to the research process with an emphasis on acquiring a reading knowledge of research and an ability to evaluate research.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70705 AUDITORY DISORDERS 2 Credit Hours
Study of conditions/diseases that can affect the auditory system.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70706 ANATOMY AND PHYSIOLOGY UNDERLYING NEURO-OTOLOGY 4 Credit Hours
An in-depth study of the anatomy and physiology of the central auditory and vestibular nervous system (includes 1 hour lab.)
Prerequisite: SPA 70702; and doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

SPA 70707 PSYCHOACOUSTICS 3 Credit Hours
Study of the principles, procedures and research of psychoacoustics; the relationships between the physical dimensions of auditory stimuli and the resultant perceptual experience with normal and impaired hearing.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70708 CRITICAL ANALYSIS OF RESEARCH 2 Credit Hours
Development of a reading knowledge of research and the ability to evaluate the quality of research studies.
Prerequisite: SPA 70704; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70709 AUDIOLOGIC ASSESSMENT 3 Credit Hours
Theoretical basis for tests underlying basic audiologic assessments.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70710 INDUSTRY AND COMMUNITY NOISE 3 Credit Hours
Theoretical principles of noise measurement; etiology of noise-induced hearing loss and acoustic trauma; industrial hearing conservation programs; occupational safety and health act; community and recreational noise evaluation and management.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70712 DIAGNOSIS OF AUDITORY DISORDERS 3 Credit Hours
Underlying theory and principles of administration and interpretation of site-of-lesion tests.
Prerequisite: SPA 70709; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70713 HEARING AID TECHNOLOGY 4 Credit Hours
Study of amplification systems for the hearing impaired.
Prerequisite: SPA 70701; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70714 GERONTOLOGICAL ISSUES IN AUDIOLOGY 3 Credit Hours
Physiological, psychological and sociological theories of aging with a focus on the etiology, symptomatology, assessment and rehabilitation of older adults with hearing impairments.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70717 PEDIATRIC AUDIOLOGY 3 Credit Hours
Study of audiologic diagnostic and auditory habilitative protocols for the birth to 3 population. Both assessment and management strategies will be emphasized.
Prerequisite: SPA 70709; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70719 COUNSELING IN AUDIOLOGY 3 Credit Hours
Focus on interviewing, counseling and interacting with individuals with hearing impairments their families and significant others.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70721 EVALUATION AND MANAGEMENT OF BALANCE DISORDERS 3 Credit Hours
Study of the balance mechanism; differential diagnostic assessment of balance disorders including electronystagmography, posturography and rotational testing; rehabilitation of the balance disordered patient (1 hour lab included.)
Prerequisite: Admission to the AUD program or special approval of instructor; and doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SPA 70725 MEDICAL MANAGEMENT OF AUDITORY DISORDERS 2 Credit Hours
A study of the multidisciplinary approach to medical/surgical management of patients with auditory and vestibular disorders.
Prerequisite: SPA 70712; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70726 ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY 3 Credit Hours
Study of evoked responses used in diagnostic audiology, including ABR, MLR,ECHOCHG, ENOG, ALR, P300, VER, and SSER.
Prerequisite: SPA 70706; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70732 AUDIOLOGIC TREATMENT ACROSS THE LIFESPAN 4 Credit Hours
Study of current methodologies employed in the audiologic treatment of people with hearing loss across the lifespan. Implementation of remedial strategies is emphasized.
Prerequisite: Admission to the audiology major; and SPA 70616; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70733 ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES 4 Credit Hours
Advanced considerations in balance function assessment and management and in the study of evoked responses used in diagnostic audiology.
Prerequisite: Admission into the audiology program; and SPA 70726 and SPA 70721; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70734 PRINCIPLES IN PRECEPTING 1 Credit Hour
Examination of the concepts and practices essential to the preceptor role. Emphasis on professional standards, adult learning theories, communication styles, ethical principles, and the multiple roles of a preceptor (educator, role model, mentor, facilitator and evaluator).
Prerequisite: Admission into the audiology major; and SPA 70748; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPA 70753 LABORATORY FOR ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY 1 Credit Hour
Laboratory exercises for the assessment of auditory disorders including electrocochleography, the auditory brainstem response and auditory steady state responses.
Prerequisite: Audiology major; and doctoral standing.
Corequisite: SPA 70726.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

SPA 70754 LABORATORY FOR EVALUATION AND MANAGEMENT OF BALANCE DISORDERS 1 Credit Hour
Laboratory exercises for the assessment of balance disorders including videonystagmography, posturography and informal evaluations; approaches for the rehabilitation and treatment of the balance disordered patient.
Prerequisite: Audiology major; and doctoral standing.
Corequisite: SPA 70721.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

SPA 70755 LABORATORY FOR ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES 1 Credit Hour
Laboratory exercises for the assessment, management and treatment of auditory and vestibular disorders including early, middle and late auditory evoked potentials and advanced vestibular measures.
Prerequisite: Audiology major; and doctoral standing.
Corequisite: SPA 70733.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

SPA 70791 FOURTH YEAR SEMINAR 1 Credit Hour
(Repeatable for credit) In-depth consideration of topics/issues in the practice of audiology with emphasis upon issues related to clinical rotation.
Prerequisite: Doctoral standing; and special approval.
Corequisite: SPA 70750 or SPA 70751.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

SPA 70792 INTERNSHIP IN AUDIOLOGY 2 Credit Hours
(Repeatable for credit) Supervised clinical practicum in audiology requiring the independent performance of diagnostic, hearing aids and audiologic rehabilitation procedures. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which student teaching/internship will take place.
Prerequisite: SPA 70692; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 70798 RESEARCH PROJECT IN AUDIOLOGY 3 Credit Hours
(Repeatable for credit) Completion of a doctoral research project including data collection, analysis write- up and oral presentation.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

SPA 70892 INTERNSHIP III 2 Credit Hours
Clinical practicum in audiology during which students perform discrete tasks under supervision.
Prerequisite: Admission to the audiology major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 70992 INTERNSHIP IV 2 Credit Hours
Clinical practicum in audiology during which students perform discrete tasks under supervision.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 73691 SEMINAR IN AUDIOLOGY 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPA 74030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours
(Slashed with SPA 44030, SPA 54030 and SPED 54030) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents and young adults with autism spectrum disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with SPA 44089 and SPA 54089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Doctoral standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPA 74093 WORKSHOP IN COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for credit)Variable topic workshop offered when need arises, either on or off campus to update training in a particular area of speech pathology.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 74191 SEMINAR:NEUROGENIC COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia.
Prerequisite: SPA 64301; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74291 SEMINAR:CHILD LANGUAGE 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Topics are selected for class investigation from the areas of child language, development or disorders.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74301 APHASIA 3 Credit Hours
Neuroanatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia in adults.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74302 LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD 3 Credit Hours
Methods of language assessment and intervention for infants, toddlers and preschoolers who are either at risk or diagnosed as presenting language delays or disabilities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74303 DISORDERS OF ARTICULATION AND PHONOLOGY 3 Credit Hours
Diagnosis and remediation of children's articulation and phonological disorders.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74304 ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS 3 Credit Hours
Cognitive functions and etiologies, symptomologies, evaluation and treatment methods related to adults with cognitive communicative disorders subsequent to right hemisphere damage, traumatic brain injury, dementia and related impairments.
Prerequisite: Speech language pathology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74305 FLUENCY DISORDERS 3 Credit Hours
Nature, theories and their derived approaches to the assessment and treatment of fluency disorders.
Prerequisite: Speech language pathology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74306 VOICE DISORDERS 2 Credit Hours
Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 74308 LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS 3 Credit Hours
Theoretical background knowledge and practical assessment and intervention techniques for school-age children who demonstrate language disorders.
Prerequisite: SPA 34107; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours
(Slashed with SPA 54309, SPED 44309 and SPED 54309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74312 MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS 3 Credit Hours
(Slashed with SPA 64312) Anatomic and physiologic bases of congenital and acquired motor speech disorders. Etiology, symptomatology, evaluation and treatment techniques related to variety of motor speech disorders in children and adults.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74354 PEDIATRIC MEDICAL ISSUES 2 Credit Hours
Nature and rehabilitative procedures for speech-language pathology practice with pediatric medical issues, including dysphagia and maxillofacial anomalies and resonance disorders.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 74356 ADULT DYSPHAGIA 3 Credit Hours
Anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to swallowing disorders in adults.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74391 SEMINAR:ARTICULATION AND PHONOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 74491 SEMINAR:ORGANIC SPEECH DISORDERS 1-3 Credit Hours
(Repeatable for credit)A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74492 CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-12 Credit Hours
(Repeatable for credit) Supervised clinical practice with patients who have speech, hearing or language problems.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-12 other
Grade Mode: Standard Letter-IP

SPA 74500 NORMAL LANGUAGE PROCESSES 3 Credit Hours
Examines current theory and research specific to normal human development from birth to age 21. Significant neurological, cognitive, social, linguistic, emotional, literacy, and motor developmental changes are explored..
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74501 SOCIAL COMMUNICATION ASPECTS OF AUTISM SPECTRUM DISORDER 3 Credit Hours
Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores use of assistive technology to enhance social communicative functioning in those with ASD.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74504 ADVANCED SPEECH AND VOICE SCIENCE 3 Credit Hours
Application of normal and disordered speech, swallowing, and voice production and perception; survey of literature; theories of production and perception.
Prerequisite: SPA 4/54110; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74591 SEMINAR:FLUENCY DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74592 CLERKSHIP I 1 Credit Hour
Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.
Prerequisite: Admission to the audiology major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 74600 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY 3 Credit Hours
Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech language pathology and audiology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74691 SEMINAR:VOICE DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment.
Prerequisite: SPA 6/74306; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74692 CLERKSHIP II 1 Credit Hour
Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.
Prerequisite: Admission to the audiology major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 74791 SEMINAR:SPEECH SCIENCE 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception.
Prerequisite: SPA 4/54110 or SPA 6/74504; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74891 SEMINAR: COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY 2 Credit Hours
(Slashed with SPA 64891) (Repeatable for credit) Nature, etiologies and correlates of speech language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication language, learning and literacy.
Prerequisite: Speech language pathology major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

SPA 74991 SEMINAR:CRITICAL TOPICS IN SPEECH LANGUAGE PATHOLOGY 1-3 Credit Hours
(Repeatable for credit) Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework.
Prerequisite: Speech pathology and audiology major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 75092 CLINICAL PRACTICUM I IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 65092) (Repeatable twice for credit) Supervised, introductory clinical experience in assessment and intervention with populations within the scope of practice of speech language pathology per the current practice policy of the american speech language hearing association. To facilitate clinical competency and accrual of required clinical clock hours per current ASHA standards, students are expected to enroll in clinical practicum each semester that they are not enrolled in externship or student teaching. A grade of B or better in this course is required for permission to register in CLIN PR II SPE LANG PATH-SPA 65192.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 75192 CLINICAL PRACTICUM II IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 65192) (Repeatable twice for credit) This course includes additional supervised hands on clinical experience with clients in on campus clinics. Student clinicians are provided with opportunities to demonstrate increased independence in clinical decision making and performance. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for permission to enroll in Clinical Practicum III in Speech Language Pathology SPA 75292.
Prerequisite: SPA 75092 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 75292 CLINICAL PRACTICUM III IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 65292) (Repeatable twice for credit) Includes additional supervised, hands-on clinical experience with clients in on campus clinics and or off campus, supervised clinical experience in sites such as schools or long-term care facilities. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision-making and performance that reflect readiness for externship or student teaching experiences. Practicum requirements may include attendance at a weekly clinical colloquium. A grade of B or better in this course is required for permission to register in the following courses: clinical practicum IV in speech language pathology SPA 75392, externship in speech language pathology: adult SPA 75492, externship in speech language pathology: pediatric SPA 75592, student teaching in speech language pathology SPA 64528.
Prerequisite: SPA 75192 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 75392 CLINICAL PRACTICUM IV IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Repeatable for credit) This supervised, hands on clinical experience with clients in on campus clinics or off campus sites is for second year graduate students who are not yet scheduled for externship or student teaching. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that are reflective of readiness for externship or student teaching experiences. A grade of B or better in this course is required for permission to register in the following courses: externship in speech language pathology: adult SPA 75492, externship in speech language pathology: pediatric SPA 75592, student teaching in speech language pathology SPA 64528.
Prerequisite: SPA 75292 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 75492 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: ADULT 4-8 Credit Hours
(Cross-listed with SPA 65492) (Repeatable once for credit) Considered a culminating clinical experience. Includes supervised, hands on clinical experience with patients in adult care settings such as hospitals, rehabilitation and long term care facilities.
Prerequisite: SPA 75292 or SPA 75392 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Standard Letter-IP

SPA 75592 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: PEDIATRIC 4-8 Credit Hours
(Slashed with SPA 65592) (Repeatable once for credit) Considered a culminating clinical experience. Students may choose this course as an alternative to Student Teaching in Speech Language Pathology. Includes supervised, hands on clinical experience with children and adolescents in pediatric care settings such as hospitals and other habilitation and rehabilitation facilities.
Prerequisite: SPA 75292 or SPA 75392 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Standard Letter-IP

SPA 75792 INTERNSHIP I 1 Credit Hour
Clinical practicum in audiology during which students perform discrete tasks under supervision.
Prerequisite: Admission to the audiology major; and doctoral standing; and special approval.
Corequisite: SPA 70709.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 76792 INTERNSHIP II 1 Credit Hour
Supervised clinical practicum in audiology during which students will perform discrete clinical tasks while under supervision.
Prerequisite: Admission to the audiology major; and SPA 75792; and doctoral standing and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 84091 SEMINAR IN COMMUNICATION DISORDERS 2 Credit Hours
(Repeatable for a maximum 9 credit hours)Special topics seminar for advanced students in speech-language pathology and audiology. Presentations and discussion of research projects are required.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

SPA 84096 INDIVIDUAL INVESTIGATION-SPEECH PATHOLOGY AND AUDIOLOGY 1-3 Credit Hours
(Repeatable for credit) Independent study of topics to be selected in consultation with graduate faculty.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 84098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research opportunities for doctoral students who have not yet passed their candidacy examination.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-S/U-IP

SPA 84199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 84299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: SPA 84199; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Sport, Exercise and Performance Psychology (SEPP)

SEPP 20026 PSYCHOLOGICAL FOUNDATIONS OF SPORT AND EXERCISE 3 Credit Hours
Psychological Foundations of Sport and Exercise is an overview of foundational concepts and principles essential to understanding the psychological aspects of sport and exercise. Emphasis is given to psychologically based frameworks and their application to sport; in particular, exercise behavior, performance enhancement, mental skills, health and well-being. Coursework reflects an application of sport and exercise psychology concepts to practitioners in sport-related professions such as coaching, athletic training, sport management, physical education or fitness instruction, among others.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 30019 PSYCHOSOCIAL PERSPECTIVES FOR GROWTH AND DEVELOPMENT IN YOUTH SPORT 3 Credit Hours
This course provides a holistic approach to youth sport participation. Pulling from the most current knowledge and views from a diversity of disciplines the course addresses comprehensive and relevant considerations in the field and brings attention to the influences impacting children and youth participating in a range of sport and performance activities. Knowledge from this course applies to any professional working with children and adolescents, from a leadership standpoint; such as coaches, teachers, dance, music or other instructors of any performance-related activity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 32250 PSYCHOLOGICAL ASPECTS OF SPORT INJURY 3 Credit Hours
This course examines the various factors impacting athletes prior to and after a sport injury occurs. Understanding the relationship between biological, psychological, and social factors is critical to understanding, preventing, and rehabbing from a sport injury. Students will learn more about the consequences of sport injury, various psychological responses to sport injury, and the culture surrounding sport injury for athletes at different levels. In addition, various psychological concepts that can influence rehabilitation from an injury will be explored.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 40020 HIGH PERFORMANCE ATHLETES IN SPORT 3 Credit Hours
(Slashed with SPAD 50020) This course provides an understanding of various aspects of training, coaching, and best practices in working with athletes in a high-performance environment along with an emphasis on the social-psychological factors related to the successful performance of elite level athletes and teams.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 40221 EXERCISE PSYCHOLOGY 3 Credit Hours
(Slashed with SPAD 50221) This course is designed to examine the science and practice of exercise psychology from both a theoretical and applied perspective. Students will be engaged in a comprehensive inquiry into behaviors and lifestyles that influence physical and mental health from physical activity, exercise and psychological lenses. Students will explore topics such as stress, anxiety, cognitive functioning, mood, body image, personality, emotion, and childhood inactivity/obesity as they relate to exercise behaviors and contexts. Students will gain a general understanding of issues in exercise psychology related to theory, practice, and research. In addition, students will develop practical skills to promote exercise adherence and create an exercise intervention program.
Prerequisite: SEPP 20026; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 45007 PRINCIPLES AND APPLICATION OF SPORT PSYCHOLOGY 3 Credit Hours
(Slashed with SPAD 55007) This course encompasses the most current developments in the field of psychology with a strong foundation of the principles of human behavior in the sport and movement sciences. It incorporates sound practical theory with a focus on the application of that knowledge to be readily used by students in a range of sport and movement science careers; such as athletic training, coaching, sport management, consulting, physical education teachers and related areas with the goal to improve the sport performance and experience for all.
Prerequisite: SEPP 20026; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 45092 PRACTICUM IN SPORT PERFORMANCE (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised practical experiences within sport, exercise and performance psychology that are integrated with academic instruction. Forty-five contact hours per credit hour.
Prerequisite: Senior standing; and sport, exercise and performance psychology major or minor; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SEPP 45300 MOTIVATION IN SPORT, PERFORMANCE, AND MOVEMENT SETTINGS 3 Credit Hours
(Cross-listed with SPAD 55300) This course provides an in-depth and wide-ranging look at motivational theories and its application to sport, performance and physical activity. It combines the many theoretical concepts of the diverse frameworks and principles with a survey of motivational interventions performed in the sport domain. Students will leave the class with a rigorous and comprehensive knowledge of constructs, cutting-edge research, effective interventions and future outlook of motivation in sport.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 48225 SPORT PERFORMANCE PSYCHOLOGICAL INTERVENTIONS 3 Credit Hours
(Slashed with SPAD 58225) This course combines the theoretical concepts of sport and performance psychology with applied skill development to enhance performance. Students will gain knowledge of psychological skills training, learn techniques and develop confidence in their skills to work with athletes and performers. The focus of this course is on both, educational psychological interventions for personal development as well as teaching athletes strategies to enhance mental skill. Learning will be done hands-on, via case studies or scenario-based activities. Through the course of this class this course, students will create and present their individual program for an athlete or performer. This course will include learning and understanding the APA/AASP ethics' code to develop awareness of the boundaries of ethical conduct of the profession.
Prerequisite: SEPP 20026; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Sports Administration (SPAD)

SPAD 15000 INTRODUCTION TO SPORT ADMINISTRATION 3 Credit Hours
This course is designed to introduce students to the field of sport administration. Students will be made aware of the career options available to them in the sport management profession. All course materials, assignments and class discussions will emphasize both the understanding and application of key concepts across various aspects of the sport industry. Students will also be introduced to the sport administration major curriculum and requirements. Recommend first course in the sport administration program sequences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 25000 SPORT IN SOCIETY (DIVD) 3 Credit Hours
Analysis of how sport relates to the social relations and cultural values of United States society. The course is framed by a critical evaluative perspective, examining how social class, ethnicity, race and gender relations contour sport practices.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SPAD 25092 PRACTICUM I IN SPORT ADMINISTRATION (ELR) 1-3 Credit Hours
(Repeatable for credit) A 105-hour (per credit) field experience in a sport administration setting.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 25192 PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT I (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) A cumulative 105-hour (per credit) on-campus seminar and field experience in a professional golf management setting.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 35021 GOVERNANCE IN SPORT 3 Credit Hours
Issues of governance in amateur and professional sports.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 35025 FACILITY MANAGEMENT 3 Credit Hours
Overview of planning, staffing, marketing and managing sport facilities and complexes. The primary emphasis in this course is on management, personnel and operations issues.
Prerequisite: Junior; or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 35065 HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) 3 Credit Hours
Historical and philosophical foundations of sport and physical education; a study of factors influencing pedagogical, curricular and evaluation decisions in sport and physical education programs today.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

SPAD 35092 PRACTICUM II IN SPORT ADMINISTRATION (ELR) 1-3 Credit Hours
(Repeatable for credit) A 105-hour (per credit) field experience in a sport management setting.
Prerequisite: SPAD 25092.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 35192 PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT II (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) A cumulative 105-hour (per credit) on-campus seminar and field experience in a professional golf management setting.
Prerequisite: SPAD 25192; and special approval.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 43018 ETHICS IN SPORT 3 Credit Hours
(Slashed with SPAD 53018 and SPAD 73018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45020 ORGANIZATION, ADMINISTRATION AND LEADERSHIP IN SPORT 3 Credit Hours
Leadership is crucial in the sport industry. This course presents a wide array topics pertinent to leadership and administration in sport that will give students a better understanding of how to lead, serve and motivate the various constituent groups within the sport industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45022 EVENT PLANNING AND PRODUCTION 3 Credit Hours
(Slashed with SPAD 55022) Students learn the proper planning process that all sport events undergo. Students apply these concepts in actual events that they develop and hold.
Prerequisite: MKTG 25010; and junior or senior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

SPAD 45023 SPORT MARKETING 3 Credit Hours
The course, which is designed around market planning, examines how to formulate market ideas, incorporate market research, select segmentation, targeting and positioning strategies, implement sales and promotion strategies and assess control procedures within the sport and entertainment industry.
Prerequisite: MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45024 SPORT IN GLOBAL PERSPECTIVE 3 Credit Hours
(Slashed with SPAD 55024) Students critically analyze how sport relates to general features of globalization and provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics). The underlying assumption is that sport is part of a growing network of global inter-dependencies that bind human beings together.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45026 SPORT AND THE MEDIA 3 Credit Hours
(Slashed with SPAD 55026) Course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality and disability; an examination of the structure of sports journalism and production; and an analysis of the role of mediated sport in culture more generally. The roles of institutions, producers, texts and audiences and their relationships to each other are examined.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45027 PUBLIC RELATIONS AND PROMOTION IN SPORT 3 Credit Hours
Issues in public relations and promotion of sport such as advertising, crisis management, sales promotion and atmospherics.
Prerequisite: MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45029 HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS 3 Credit Hours
(Slashed with SPAD 55029) Examination of the historical development of athletics within American institutions of higher learning, with an emphasis upon concepts and ideals that underlie the developments and the major problems affecting contemporary intercollegiate athletics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45030 SPORT ENTERPRISE (WIC) 3 Credit Hours
This is a capstone course for sport administration majors. The course which is designed around business planning for sport, examines how to formulate business ideas, select a legal form of organization, locate financing sources, assess the market, develop a human resource management system and establish budget control.
Prerequisite: Senior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

SPAD 45031 SPORT TOURISM 3 Credit Hours
(Cross-listed with RPTM 45031) (Slashed with SPAD 55031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45032 SALES MANAGEMENT IN SPORT AND ENTERTAINMENT 3 Credit Hours
(Slashed with SPAD 55032) Students are introduced to the area of sales-force management in sport and entertainment. Historical, theoretical and conceptual frameworks are examined thoroughly, as well as functions, activities and skills of the professional salesperson in the age of information and technology.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45033 CHANGE YOUR MIND, GAME AND LIFE 1 Credit Hour
(Slashed with SPAD 55033) Course focuses students on mental training to enhance sport performance and have personal growth experiences. Course assists students to tap into their inner potential by refocusing their mind, to learn they are responsible for their own life experiences, to learn that the things they want most in their lives are found within themselves and to take responsibility for their upsets.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPAD 45034 ESPORT MANAGEMENT 3 Credit Hours
(Slashed with SPAD 55034) Students will learn about the esport industry, its consumer and constituents. Also, students will investigate the steps and components necessary to manage esport teams and esport events.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45035 SPORTS WAGERING 3 Credit Hours
(Slashed with SPAD 55035) This course investigates the sports wagering industry. Students will learn about the different forms of wagering, the statutes and cases impacting sports wagering as well as impact on society of increased access to sports wagering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45050 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours
(Slashed with SPAD 55050 and SPAD 75050) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45091 SEMINAR FOR INTERNSHIP PREPARATION 1 Credit Hour
(Repeatable for credit) This course prepares the students for the internship experience in sport administration. Students must successfully complete this course prior to registering for internship.
Prerequisite: Minimum 2.500 overall GPA; Senior standing and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

SPAD 45092 INTERNSHIP IN SPORT ADMINISTRATION (ELR) 3-12 Credit Hours
(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved sport management setting. 50 contact hours per credit hour.
Prerequisite: SPAD 35092 and SPAD 45091; minimum 2.500 overall GPA; and special approval.
Schedule Type: Practical Experience
Contact Hours: 10-40 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 45096 INDIVIDUAL INVESTIGATION IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Individual investigation in sport administration. Faculty approval is required.
Prerequisite: Sport administration major; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

SPAD 45192 INTERNSHIP IN PROFESSIONAL GOLF MANAGEMENT (ELR) 2-12 Credit Hours
(Repeatable for credit)Supervised full-time experience providing knowledge of overall agency operation in approved sport administration, professional golf management setting. 100 contact hours per credit hour with seminar interactive requirements.
Prerequisite: SPAD 15015 and SPAD 25192; and special approval.
Schedule Type: Practical Experience
Contact Hours: 13-80 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 46028 SPORT IN FILM 3 Credit Hours
(Slashed with SPAD 56028) Critically evaluates the role of sport in film as it relates to a variety of issues in society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 46080 LEGAL ISSUES IN SPORT AND RECREATION 3 Credit Hours
(Slashed with SPAD 56080) A discussion of legal issues as they apply to the sport and recreation industries.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 46095 SPECIAL TOPICS IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Special topics in Sport Administration.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPAD 50020 HIGH PERFORMANCE ATHLETES IN SPORT 3 Credit Hours
(Slashed with SEPP 40020) This course provides an understanding of various aspects of training, coaching, and best practices in working with athletes in a high-performance environment along with an emphasis on the social-psychological factors related to the successful performance of elite level athletes and teams.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 50221 EXERCISE PSYCHOLOGY 3 Credit Hours
(Slashed with SEPP 40221) This course is designed to examine the science and practice of exercise psychology from both a theoretical and applied perspective. Students will be engaged in a comprehensive inquiry into behaviors and lifestyles that influence physical and mental health from physical activity, exercise, and psychological lenses. Students will explore topics such as stress, anxiety, cognitive functioning, mood, body image, personality, emotion, and childhood inactivity/obesity as they relate to exercise behaviors and contexts. Students will gain a general understanding of issues in exercise psychology related to theory, practice, and research. In addition, students will develop practical skills to promote exercise adherence and create an exercise intervention program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 53018 ETHICS IN SPORT 3 Credit Hours
(Slashed with SPAD 43018 and SPAD 73018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 53093 VARIABLE TITLE WORKSHOP IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Topics vary in sport studies. Maximum 4 credit hours may be applied to degree.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SPAD 55007 PRINCIPLES AND APPLICATION OF SPORT PSYCHOLOGY 3 Credit Hours
(Slashed with SEPP 45007) This course encompasses the most current developments in the field of psychology with a strong foundation of the principles of human behavior in the sport and movement sciences. It incorporates sound practical theory with a focus on the application of that knowledge to be readily used by students in a range of sport and movement science careers; such as athletic training, coaching, sport management, consulting, physical education teachers and related areas with the goal to improve the sport performance and experience for all.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55022 EVENT PLANNING AND PRODUCTION 3 Credit Hours
(Slashed with SPAD 45022) Students learn the proper planning process that all sport events undergo. Students apply these concepts in actual events that they develop and hold.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

SPAD 55024 SPORT IN GLOBAL PERSPECTIVE 3 Credit Hours
(Slashed with SPAD 45024) Students critically analyze how sport relates to general features of globalization and provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics). The underlying assumption is that sport is part of a growing network of global inter-dependencies that bind human beings together.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55026 SPORT AND THE MEDIA 3 Credit Hours
(Slashed with SPAD 45026) Course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality and disability; an examination of the structure of sports journalism and production; and an analysis of the role of mediated sport in culture more generally. The roles of institutions, producers, texts and audiences and their relationships to each other are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55029 HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS 3 Credit Hours
(Slashed with SPAD 45029) Examination of the historical development of athletics within American institutions of higher learning, with an emphasis upon concepts and ideals that underlie the developments and the major problems affecting contemporary intercollegiate athletics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55031 SPORT TOURISM 3 Credit Hours
(Cross-listed with RPTM 45031) (Slashed with SPAD 45031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55032 SALES MANAGEMENT IN SPORT AND ENTERTAINMENT 3 Credit Hours
(Slashed with SPAD 45032) Students are introduced to the area of sales-force management in sport and entertainment. Historical, theoretical and conceptual frameworks are examined thoroughly, as well as functions, activities and skills of the professional salesperson in the age of information and technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55033 CHANGE YOUR MIND, GAME AND LIFE 1 Credit Hour
(Slashed with SPAD 45033) Course focuses students on mental training to enhance sport performance and have personal growth experiences. Course assists students to tap into their inner potential by refocusing their mind, to learn they are responsible for their own life experiences, to learn that the things they want most in their lives are found within themselves and to take responsibility for their upsets.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPAD 55034 ESPORT MANAGEMENT 3 Credit Hours
(Slashed with SPAD 45034) Students will learn about the esport industry, its consumer and constituents. Also, students will investigate the steps and components necessary to manage esport teams and esport events.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55035 SPORTS WAGERING 3 Credit Hours
(Slashed with SPAD 45035) This course investigates the sports wagering industry. Students will learn about the different forms of wagering, the statutes and cases impacting sports wagering as well as impact on society of increased access to sports wagering. Prerequisite: Graduate Standing
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SPAD 55050 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours
(Slashed with SPAD 45050 and SPAD 75050) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55300 MOTIVATION IN SPORT, PERFORMANCE, AND MOVEMENT SETTINGS 3 Credit Hours
(Slashed with SEPP 45300) This course provides an in-depth and wide-ranging look at motivational theories and its application to sport, performance and physical activity. It combines the many theoretical concepts of the diverse frameworks and principles with a survey of motivational interventions performed in the sport domain. Students will leave the class with a rigorous and comprehensive knowledge of constructs, cutting-edge research, effective interventions and future outlook of motivation in sport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 56028 SPORT IN FILM 3 Credit Hours
(Slashed with SPAD 46028) Critically evaluates the role of sport in film as it relates to a variety of issues in society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 56080 LEGAL ISSUES IN SPORT AND RECREATION 3 Credit Hours
(Slashed with SPAD 46080) A discussion of legal issues as they apply to the sport and recreation industries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 58225 SPORT PERFORMANCE PSYCHOLOGICAL INTERVENTIONS 3 Credit Hours
(Slashed with SEPP 48225) This course combines the theoretical concepts of sport and performance psychology with applied skill development to enhance performance. Students will gain knowledge of psychological skills training, learn techniques and develop confidence in their skills to work with athletes and performers. The focus of this course in on both, educational psychological interventions for personal development as well as teaching athletes strategies to enhance mental skill. Learning will be done hands-on, via case studies or scenario-based activities. Through the course of this class this course, students will create and present their individual program for an athlete or performer. This course will include learning and understanding the APA/AASP ethics' code to develop awareness of the boundaries of ethical conduct of the profession.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 63091 RESEARCH SEMINAR 1 Credit Hour
(Slashed with SPAD 73091) Presentation and discussion of research by faculty and students. Maximum 2 credit hours may be applied toward degree requirements.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

SPAD 63096 INDIVIDUAL INVESTIGATION IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for maximum 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

SPAD 63098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

SPAD 63195 SPECIAL TOPICS IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Selected and varied topics of relevance in sport administration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPAD 63199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Highly-individualized investigative study resulting in developing and writing a scholarly, comprehensive paper. Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPAD 63299 THESIS II 2 Credit Hours
Highly-individualized investigative study resulting in developing and writing a scholarly, comprehensive paper. Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SPAD 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPAD 65006 CONTEMPORARY ISSUES IN SPORT MANAGEMENT 3 Credit Hours
(Slashed with SPAD 75006) A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65008 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY 3 Credit Hours
(Slashed with SPAD 75008) Sociological analysis of sport from a theoretical and empirical perspective.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65021 ORGANIZATION AND MANAGEMENT OF SPORTS PROGRAMS 3 Credit Hours
A study of the pragmatic understanding necessary in the organization and management of a sports program at the high school, college or professional level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65033 SPORT LAW 3 Credit Hours
Course provides students with a basic understanding of tort, contract and constitutional law in relation to sport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65034 CONTEMPORARY SPORT LAW 3 Credit Hours
(Slashed with SPAD 75034) Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports.
Prerequisite: SPAD 65033; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65036 SPORT IN HIGHER EDUCATION 3 Credit Hours
Identification of contemporary problems and issues in collegiate sport, their history and the role of sport in colleges and universities now and in the future.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65037 NATIONAL COLLEGIATE ATHLETIC ASSOCIATION COMPLIANCE ADMINISTRATION 3 Credit Hours
This course introduces students to basic NCAA compliance principles and the NCAA rules that affect the administration of a college athletic department. This course offers an understanding of the structure and function of a Division I compliance operation and explores compliance at the Divisions II & III level. The governing principles of institutional control and ethical conduct will be explored from a compliance perspective.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65038 SPORT PROMOTION AND FUNDRAISING 3 Credit Hours
(Slashed with SPAD 75038) Analysis of contemporary sports promotions strategies, as well as promotion of fundraising tactics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65039 FINANCIAL ASPECTS OF SPORT 3 Credit Hours
Review of basic accounting, sources and uses of funds, capital budgeting, leasing and investments as they apply in a sports context. Students are introduced to financial software used in the sport industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65040 SPORT ECONOMICS 3 Credit Hours
Course provides students with key economic theories and principles as applied to the sport industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65042 LEADERSHIP OF SPORT 3 Credit Hours
Study of theoretical and applied constructs foundational to the leadership behavior applied to sport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65045 SPORT MARKETING 3 Credit Hours
Students develops an understanding of strategic marketing concepts and principles as they apply to the context of sport and entertainment. Students examine a variety of topics related to the marketing mix, consumer/fan behavior and research methodology. They also explore sport, entertainment and business organization relationships.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65046 FACILITY MANAGEMENT AND OPERATIONS 3 Credit Hours
Analysis of management competencies necessary to operate sport facilities. Conceptual and technical aspects of planning and design are introduced.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65048 INTRAMURAL AND CLUB SPORT ADMINISTRATION 3 Credit Hours
Students focus on developing an understanding of how these programs work and what role they play in various recreational environments. Course emphasizes decision-making techniques and communication skills leading to effective planning, organizing and managing a recreational sports-related service or product.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65092 INTERNSHIP IN SPORT ADMINISTRATION 2-4 Credit Hours
(Repeatable for credit) Field experience involving supervised contact with sport administrators. Students work as an understudy with these administrators in all phases of their positions.
Prerequisite: Graduate standing and special approval.
Schedule Type: Practical Experience
Contact Hours: 13-27 other
Grade Mode: Standard Letter-IP

SPAD 73018 ETHICS IN SPORT 3 Credit Hours
(Slashed with SPAD 43018 and SPAD 53018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 73091 RESEARCH SEMINAR 1 Credit Hour
(Slashed with SPAD 63091) Presentation and discussion of research by faculty and students. Maximum 2 credit hours may be applied toward degree requirements.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

SPAD 75006 CONTEMPORARY ISSUES IN SPORT MANAGEMENT 3 Credit Hours
(Slashed with SPAD 65006) A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 75008 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY 3 Credit Hours
(Slashed with SPAD 65008) Sociological analysis of sport from a theoretical and empirical perspective.
Prerequisite: SPAD 75006; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 75034 CONTEMPORARY SPORT LAW 3 Credit Hours
(Slashed with SPAD 65034) Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 75038 SPORT PROMOTION AND FUNDRAISING 3 Credit Hours
(Slashed with SPAD 65038) Analysis of contemporary sports promotions strategies, as well as promotion of fundraising tactics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 75050 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours
(Slashed with SPAD 45050 and SPAD 55050) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Technical and Applied Studies (TAS)

TAS 20092 PRACTICUM FOR TECHNICAL AND APPLIED STUDIES (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience in a job related to the student's program and career objectives.
Prerequisite: Sophomore standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

TAS 22095 SPECIAL TOPICS IN TECHNICAL AND APPLIED STUDIES 1-4 Credit Hours
(Repeatable for credit) Various special topics will be announced in the schedule of classes under this course number with different section numbers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

TAS 30095 SPECIAL TOPICS IN TECHNICAL AND APPLIED STUDIES 1-4 Credit Hours
(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

TAS 37900 TECHNICAL AND APPLIED STUDIES CORNERSTONE 3 Credit Hours
Cornerstone course instructs students about how the work role in industrial and information societies has evolved to its current organization. Students personalize the information by reflecting on the role of work in their own lives by reviewing theory and application of their own career management, examine the stages of career development, job stress, entrepreneurial careers and organization.
Prerequisite: Major in Technical and Applied Studies, Information Technology, Insurance Studies or Engineering Technology.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TAS 40092 INTERNSHIP FOR TECHNICAL AND APPLIED STUDIES (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience in a job related to the student's life and career objectives. Student works with a business or organization for a minimum of 45 hours for each hour of credit.
Prerequisite: Junior standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

TAS 47999 TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC) 3 Credit Hours
Acts as the culminating experience of degree program. Designed to help students articulate and integrate the competencies that are part of their bachelor's degree program. Students will engage in research, writing and application of program specific ethical issues, knowledge and skills specific to their chosen field. Students will explore career opportunities and trends in their field of study. In part, an electronic portfolio is used to help describe familiarity with the competencies gained throughout their degree program.
Prerequisite: Technical and Applied Studies major, Information Technology major, Insurance Studies major, Cybercriminology major or Animation and Game Design major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

Theatre (THEA)

THEA 11000 THE ART OF THE THEATRE (DIVG) (KFA) 3 Credit Hours
Using the life-centered nature of theatre as a medium of analysis, this course is designed to develop critically engaged audience members who are aware of the impact, significance and historical relevance of the interconnection between culture and theatre performance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

THEA 11002 MUSICAL THEATRE PERFORMANCE I 3 Credit Hours
Course focuses on the foundational skills of acting and singing in musical theatre. Students study and practice beginning-level character development, vocal technique, song interpretation and audition skill in a supportive environment.
Prerequisite: Musical Theatre major.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 11100 MAKING THEATRE: CULTURE AND PRACTICE 2 Credit Hours
Overview of theatre practices through creative experiential learning. The focus and course content combines practical and cultural experiences and culminates with a performance event that provides a solid foundation in the artistic process and an identity for the first-year theatre student.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

THEA 11303 THE ART OF ACTING 3 Credit Hours
General introduction to acting: the actor's instrument, sensory awareness, personal and group response, objectives and tactics. Basic scene work.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

THEA 11521 GRAPHICS FOR THE THEATRE 3 Credit Hours
An introduction to computer software currently used by professional theatre designers and technicians. These applications include image processing software, computer-aided design software and 3D visualization software.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 11722 FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND 2 Credit Hours
An introduction to professional theatre production principles and practices in the areas of scenery, stagecraft and sound.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: CTAG Performing Arts, TAG Arts and Humanities

THEA 11723 FUNDAMENTALS OF PRODUCTION LABORATORY I: SCENERY 1 Credit Hour
Practice in theatre production techniques in the area of scenery.
Prerequisite: Special approval.
Corequisite: THEA 11722.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

THEA 11724 FUNDAMENTALS OF PRODUCTION LABORATORY II: PROPS AND SCENIC ART 1 Credit Hour
Practice in theatre production techniques in the area of properties and scenic art.
Prerequisite: Special approval.
Corequisite: THEA 11722.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Performing Arts, TAG Arts and Humanities

THEA 11725 FUNDAMENTALS OF THEATRE DESIGN AND PRODUCTION 3 Credit Hours
Course introduces students to the fundamental concepts and practices of theatre design and production. Students explore various areas of design, including scenic, costume, lighting and sound design, as well as the process of bringing these elements together in a production. Through lectures, hands-on projects and collaboration, students gain an understanding of how design enhances storytelling in theatre and how technical elements contribute to the overall production.
Prerequisite: Major or minor in School of Theatre and Dance.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 11732 FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS 2 Credit Hours
An introduction to professional theatre production principles and practices in the areas of costumes, lighting and projections.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: CTAG Performing Arts

THEA 11733 FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES 1 Credit Hour
Practice in theatre production techniques in the area of costumes.
Prerequisite: Special approval.
Corequisite: THEA 11732.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

THEA 11734 FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS 1 Credit Hour
Practice in theatre production techniques in the area of lighting, sound and projections.
Prerequisite: Special approval.
Corequisite: THEA 11732.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

THEA 14092 BACHELOR OF FINE ARTS INTRODUCTORY PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1 Credit Hour
(Repeatable for credit) Practical experience in theatre and dance production. Foundational training for work in various production contexts.
Prerequisite: Theatre Design, Technology and Production major.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 20102 MUSIC THEORY FOR MUSICAL THEATRE I 2 Credit Hours
Study the basic principles and applications of music theory as it may apply to the work of a professional singing actor. It will begin by gaining a thorough understanding of the rudiments of music and progress to studying the objective and subjective aspects of music and its structure, principally pertaining to the world of musical theatre. The course is intended to establish fundamental concepts to be further explored in THEA 20103.
Prerequisite: Musical Theatre major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

THEA 20103 MUSIC THEORY FOR MUSICAL THEATRE II 2 Credit Hours
Study the basic principles and applications of music theory as it may apply to the work of a professional singing actor. Course focuses on the interpretation of music for musical theater and serves as a continuation of the material presented in THEA 20102.
Prerequisite: Musical Theatre major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

THEA 20204 EAR TRAINING AND SIGHT SINGING FOR MUSICAL THEATRE I 1 Credit Hour
Course concentrates on the foundational aural skills needed in the study and application of music theory and performance. Students focus on basic interval, harmonic and rhythmic identification. Course also addresses beginning-level melodic dictation and sight singing of beginning-level diatonic melodies.
Prerequisite: Musical Theatre major.
Pre/corequisite: THEA 20102.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

THEA 20205 EAR TRAINING AND SIGHT SINGING FOR MUSICAL THEATRE II 1 Credit Hour
Course continues the development of skills begun in THEA 20204. Students focus on identifying and singing intermediate to advanced diatonic and chromatic melodies and harmonies.
Prerequisite: THEA 20204.
Pre/corequisite: THEA 20103.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

THEA 21002 MUSICAL THEATRE PERFORMANCE II 3 Credit Hours
Course builds on the foundational skills studied in THEA 11002. Emphasis is placed on music analysis and interpretation as it pertains to musical theatre song. Students engage in preliminary scene study and analysis.
Prerequisite: THEA 11002.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 21016 MAKEUP FOR STAGE AND SCREEN 3 Credit Hours
Study of stage, TV and photographic makeup techniques and materials. Four lecture demonstration laboratory hours per week; special projects as assigned.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21095 SPECIAL TOPICS IN THEATRE 1-3 Credit Hours
(Repeatable for credit) Offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

THEA 21111 SCRIPT ANALYSIS 3 Credit Hours
Principles, theories and techniques of play script analysis for theatrical production.
Prerequisite: THEA 11100; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

THEA 21303 ACTING PROCESS 3 Credit Hours
Fundamentals of naturalistic acting and interaction; development of spontaneity, believability and a sense of truth; game playing and basic stage technique.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 lecture, 1 lab
Grade Mode: Standard Letter

THEA 21306 MUSICAL THEATRE PERFORMANCE I 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Performance-oriented class that will focus on techniques and styles of performance in musical theatre and cabaret from Gilbert and Sullivan to present.
Prerequisite: Musical theatre major.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 21501 SOPHOMORE PORTFOLIO REVIEW 1 Credit Hour
Preparation and review of a portfolio of work, judged by the design technology faculty at the beginning of the spring semester. Student must pass to remain in the BFA design technology program.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 21521 THEATRICAL DRAFTING 3 Credit Hours
Drafting techniques for all design and technology students. Includes plans, elevations, sections, detailed drawings light plots.
Prerequisite: THEA 11521 and THEA 11722 and THEA 11723; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21522 LIGHTING DESIGN 3 Credit Hours
Exploration of the tools of the lighting designer applied to design choices; frequent paper design projects.
Prerequisite: THEA 11732 and THEA 11734; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21523 COSTUME TECHNOLOGY 3 Credit Hours
Study of the basics of costume construction, pattern drafting, tailoring and millinery for costumes in the performing arts. A variety of historical periods and styles are covered. Students create portfolio-quality projects.
Prerequisite: THEA 11732; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21524 COSTUME DESIGN 3 Credit Hours
Theory and practice of costume design. Emphasis on play text analysis, formation of concepts, use of design elements and principles, period styles.
Prerequisite: THEA 11732; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21526 BASIC COSTUME CONSTRUCTION 3 Credit Hours
Course is designed to provide the student with a more advanced set of sewing skills in preparation for stitcher positions in the entertainment field. Prepares students for more advanced costume technology courses.
Prerequisite: THEA 11732; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21528 SOUND AND PROJECTION DESIGN AND TECHNOLOGY 3 Credit Hours
Studies in sound design and projection design with emphasis on practical application and specific processes related to designing for theatre and dance.
Prerequisite: THEA 11521; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21621 SCENE PAINTING 3 Credit Hours
Techniques of scene painting; emphasis on a variety of techniques through practical projects.
Prerequisite: THEA 11722 and THEA 11724; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21622 SCENE DESIGN 3 Credit Hours
Theory and practice of scene design; emphasis on script analysis, formation of concepts, use of design elements and principles in period styles and genres.
Prerequisite: THEA 11722 and THEA 11723; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21700 MOVEMENT I 3 Credit Hours
Beginning exploration of technical skills emphasizing the physical components of expressive action through integration of breath, text and body conditioning.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 21736 STAGE MANAGEMENT 3 Credit Hours
Introduction to the skills and techniques necessary to stage manage a theatrical production. Focus on the production process, preparing for and running rehearsals and performances, paperwork and communication skills.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21800 VOICE I 3 Credit Hours
Breathing, physical alignment, sound and text explorations designed to develop relaxed, free and fully connected voice production for the actor. Proper use and care of the voice.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 22092 PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Practical experience in theatre production under faculty supervision. Available for lower-division students only. Required of all theatre majors.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement, TAG Arts and Humanities

THEA 22192 PRACTICUM I: PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for credit) Practical experience in theatre performance under faculty supervision. Available for lower-division students only.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement, TAG Arts and Humanities

THEA 22292 PRACTICUM I:THEATRE MANAGEMENT (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Practical experience in theatre management under faculty supervision.
Prerequisite: Freshmen or sophomore only; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

THEA 23092 BACHELOR OF FINE ARTS SOPHOMORE PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1 Credit Hour
(Repeatable for credit) Practical experience at the sophomore level in theatre and dance production.
Prerequisite: Theatre design, technology and production major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 31030 GLOBAL THEATRE HISTORIES 3 Credit Hours
Theatre creates meaning within the particular historical and cultural contexts in which it is created and received. In this course, students are introduced to several key moments, figures, productions and styles; they explore how primary and secondary research can be used to understand those works within the contexts of their creation and illuminate their ongoing relevance to contemporary artists and audiences today. Students practice engaging with the conventions of various cultural performances. They develop skills in finding, reading, interpreting, summarizing and applying cultural and historical research to understand and explain performances.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31110 HISTORY OF THEATRE AND DRAMA I 3 Credit Hours
Theatre history and drama in Europe from antiquity through the renaissance.
Prerequisite: THEA 21111; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31111 HISTORY OF THEATRE AND DRAMA II 3 Credit Hours
Theatre history and drama in Europe and the United States from 1700 to the present.
Prerequisite: THEA 21111; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31200 APPLIED VOICE FOR MUSICAL THEATRE 2 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors or musical theatre majors. Individual study. An audition is required. This course is not part of the ODHE Transfer Assurance Guides.
Prerequisite: Musical Theatre major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 1.5 other
Grade Mode: Standard Letter

THEA 31303 CHARACTER AND SCENE STUDY I 3 Credit Hours
The development of character in the realistic scene.
Prerequisite: THEA 21303; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31304 CHARACTER AND SCENE STUDY II 3 Credit Hours
Further character and scene exploration; spontaneity and creative choice making.
Prerequisite: THEA 31303; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31401 DIRECTING 3 Credit Hours
Theoretical and practical work in the process of play direction; the director's mission; play analysis and design collaboration; the rehearsal process.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31526 FLAT PATTERNING FOR THEATRE 3 Credit Hours
The course is designed to provide the student with a basic set of skills in flat patterning techniques, using the sloper (a basic fitted pattern from which patterns for different styles can be developed) and individualizing patterns to meet the actors costume needs. This class is also preparatory for more advanced costume technology courses.
Prerequisite: THEA 21526.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31701 MOVEMENT II 3 Credit Hours
Development of movement exploration and improvisation skills which focus on physical relationships in performance and utilize the components of energy, space and time.
Prerequisite: THEA 11303 or THEA 21306; and special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 31801 VOICE II 3 Credit Hours
Continuation of THEA 21800. Explorations involve various texts and incorporation of voice principles at a more detailed level.
Prerequisite: THEA 21800; and special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 32000 BACHELOR OF FINE ARTS PORTFOLIO REVIEW 1 Credit Hour
(Repeatable for credit) Review of a portfolio of theatre and related work, and a review of the student's academic progress and coursework judged by the design/technology faculty at the beginning of the spring semester. Student must pass to remain in the B.F.A. degree.
Prerequisite: Theatre Design, Production and Technology major; and junior standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 32002 MUSICAL THEATRE PERFORMANCE III 3 Credit Hours
Course focuses on the performance aspects of musical theatre while emphasizing the professional practices necessary for a successful career in the industry. Students continue to develop their acting and vocal skills while exploring the business side of musical theatre, including audition techniques, marketing and networking.
Prerequisite: THEA 21002.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 33092 BACHELOR OF FINE ARTS JUNIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 2 Credit Hours
(Repeatable for credit) Practical experience at the junior level in theatre and dance production.
Prerequisite: Theatre design, technology and production major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 34092 BACHELOR OF FINE ARTS ADVANCED PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1-2 Credit Hours
(Repeatable for credit) Practical experience at an advanced level in theatre and dance production.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 40091 VARIABLE TOPICS SEMINAR: DEVISING THEATRE 3 Credit Hours
(Slashed with THEA 50091) A devised theatre event is work that has emerged and been generated by a group of people working in collaboration. Devising Theatre explores the processes of creating original performances defined and determined by its makers. Process and product originate from stimuli other than traditional play scripts. Students learn specialist techniques by developing solo and group performance pieces. Alternative modes of making theatre performances are considered.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 41010 THEATRE AND SOCIAL CHANGE 3 Credit Hours
(Slashed with THEA 51010) This course interweaves the history, theory, practice and play text development in the field of theatre and social change.
Prerequisite: THEA 11000 or THEA 11100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41026 PLAYWRITING (WIC) 3 Credit Hours
(Repeatable for a total of 6 credit hours)(Slashed with THEA 51026) Principles underlying playwriting for the contemporary theatre; analysis of short play form.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

THEA 41027 ADVANCED PLAYWRITING 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51026) Application of principles of playwriting to the longer play and to variations from traditional realism; play analysis and composition.
Prerequisite: THEA 41026; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41089 INTERNATIONAL EXPERIENCE: THEATRE AND SOCIAL CHANGE IN CZECHIA (DIVG) (ELR) 3 Credit Hours
(Slashed with THEA 51089)(Repeatable for credit) Using a combination of in-depth research and direct learning experiences, this course explores the intersection between theatre and socio-political change through the example of Czechoslovakia's history from the 1968 Prague Spring to the Velvet Revolution of 1989/90 and on through today's concerns of Western late-stage capitalism. Students study both historical and contemporary texts, as well as view productions while on a study abroad program.
Prerequisite: ENG 21011.
Schedule Type: International Experience, Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

THEA 41095 SPECIAL TOPICS IN THEATRE 1-3 Credit Hours
(Repeatable for credit)(Slashed with THEA 51095) Course offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

THEA 41096 INDEPENDENT STUDY IN THEATRE 1-3 Credit Hours
(repeatable for a total of 6 hours) selected research topics in theatre; to be elected only after all coursework in study area completed.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

THEA 41113 THEATRE IN A MULTICULTURAL AMERICA (DIVD) 3 Credit Hours
(Slashed with THEA 51113) A study of theatre and drama in the Native American, Hispanic-American, African-American and Asian-American communities in the United States from 1980 to the present.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

THEA 41115 LGBTQ THEATRE (DIVD) 3 Credit Hours
(Slashed with THEA 51115) Studies of various theatrical representations of Lesbian, Gay, Bisexual, Transgender and Queer people as seen through the frameworks of history, gender theory, identity, politics, psychology, law and justice.
Prerequisite: Junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

THEA 41130 THEATRE AND DRAMA IN AMERICA 3 Credit Hours
(Slashed with THEA 51130) The history of theatre and drama in America from their beginnings to the present.
Prerequisite: THEA 21111; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41140 AMERICAN MUSICAL THEATRE HISTORY (WIC) 3 Credit Hours
Comprehensively examines the history of American musical theater and incorporates the exploration of musical literature in production and performance.
Prerequisite: Theatre major; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

THEA 41191 VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY 3 Credit Hours
(Repeatable for credit)(Slashed with THEA 51191) Seminar in theatre history and literature providing an in-depth focus on selected topics such as: African-American theatre, women in theatre, politics and theatre, theatre in a multicultural society, costume history on stage and screen.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 41301 ACTING FOR THE CAMERA I 3 Credit Hours
(Slashed with THEA 51301) Introduction to the specific techniques used in film acting. The course provides students with the necessary tools to make the transition from stage acting to camera acting.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41302 ACTING FOR THE CAMERA II 3 Credit Hours
(Slashed with THEA 51302) Further development on the specific techniques used in film acting. The course continues to assist students in making the transition from stage acting to camera acting.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41304 ACTING II-SCENE STUDY-MODERN AMERICAN REALISM 3 Credit Hours
(Slashed with THEA 51304) The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 41305 PROFESSIONAL ASPECTS: PERFORMANCE 3 Credit Hours
(Slashed with THEA 51305) A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered: pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41306 PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY 3 Credit Hours
A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects. Use of computers as a resource and tool emphasized.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41307 MUSICAL THEATRE PERFORMANCE II 3 Credit Hours
Repeatable for credit. Advanced work in musical theatre performance techniques for junior- and senior-level students. Course content includes selecting appropriate musical theatre audition material and developing contrasting selections from the musical theatre repertory. Preparation for musical theatre auditions is included.
Prerequisite: THEA 21306; and special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 41308 MUSICAL THEATRE AUDITION 3 Credit Hours
(Repeatable for credit) Course explore the various genres and styles of American musical theatre songs with specific emphasis on finding practical audition repertoire for each student. Performance and research are the primary activities in the class.
Prerequisite: Major or minor in School of Theatre and Dance.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 41401 ADVANCED DIRECTING 3 Credit Hours
(Slashed with THEA 51401) Advanced work in directing for the theatre. Topics include the director as creative/interpretative artist and the director and the actor; students direct individual projects.
Prerequisite: THEA 11303 and THEA 31401; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41420 THEATRICAL DRAFTING II 3 Credit Hours
(Slashed with THEA 51420) Advanced 2D and 3D drafting techniques for technical directors and theatre designers. Representation of scenery through drafting using current AutoCAD software.
Prerequisite: THEA 21521.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41430 ADVANCED CONSTRUCTION THEORY 3 Credit Hours
(Slashed with THEA 51430) The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop, including reliably predicting the performance of untraditional, unusual or unfamiliar structures and use of mathematical models, formulas, and representative diagrams.
Prerequisite: THEA 11722 and THEA 41560; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41440 SHOP MANAGEMENT 3 Credit Hours
(Slashed with THEA 51440) Study of resource management, both human and non-human, for professional and academic shops. Topics include scheduling, budgeting, health and safety, interactions with other theatre workers and leadership development.
Prerequisite: THEA 11722; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41499 MUSICAL THEATRE SHOWCASE (ELR) 2 Credit Hours
(Repeatable for credit) (Slashed with THEA 51499) Development, promotion, and presentation of a Musical Theatre showcase for industry casting personnel in New York City. Audition required prior to registration for this course.
Prerequisite: Senior standing; and special approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

THEA 41501 SENIOR PORTFOLIO REVIEW 1 Credit Hour
Review of a portfolio of theatre and related work, and a review of the student's academic progress coursework and professional potential judged by the design technology faculty at the end of the fall semester. Student must pass to remain eligible for the bfa design technology degree.
Prerequisite: Theatre design, production and technology major; senior standing and; special approval.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 41521 ADVANCED LIGHTING TECHNOLOGY I 3 Credit Hours
(Slashed with THEA 51521) Advanced study of the technologies used in lighting design; conventional and intelligent fixtures, electricity, projection techniques and special effects.
Prerequisite: THEA 11732 and THEA 11734; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41522 DESIGN STUDIO: LIGHTING 3 Credit Hours
(Slashed with THEA 51522) Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems.
Prerequisite: THEA 21522; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41523 SOUND DESIGN AND TECHNOLOGY I 3 Credit Hours
(Slashed with THEA 51523) Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment mixing consoles amplifiers speakers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41524 DESIGN STUDIO: COSTUME 3 Credit Hours
(Slashed with THEA 51524) Advanced study in costume design. Genres styles in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer shop/personnel and designer director.
Prerequisite: THEA 21524; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41525 PROPS AND CRAFTS 3 Credit Hours
(Slashed with THEA 51525) Examination of the processes related to the creation and procurement of scenic and costume props.
Prerequisite: THEA 11722 and THEA 11732; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41526 ADVANCED LIGHTING TECHNOLOGY II 3 Credit Hours
(Slashed with THEA 51526) Course focuses on the practice of intelligent lighting programming and the technology of intelligent lighting fixtures.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41527 SOUND DESIGN AND TECHNOLOGY II 3 Credit Hours
(Slashed with THEA 51527) Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored.
Prerequisite: THEA 41523; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41528 THEATRE SOUND REINFORCEMENT 3 Credit Hours
(Slashed with THEA 51528) Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real time digital processing of audio.
Prerequisite: THEA 41523; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41529 ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN 3 Credit Hours
(Slashed with THEA 51529) Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required.
Prerequisite: Junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41531 THEATRICAL RIGGING 3 Credit Hours
(Slashed with THEA 51531) Course is designed to teach students the principles of stage rigging, knot tying and counterweight rigging systems used in theatrical and other live entertainment situations. Students examine the process involved in overhead applications for the theatre industry. Students learn the proper method to design and rig in theatrical environments through the explanation of tools, equipment, hardware and safety practices.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41540 DRAPING FOR THE THEATRE I 3 Credit Hours
(Slashed with THEA 51540) The course is designed to provide an introduction to the basics of draping and building flat patterning techniques from this knowledge as they apply to theatre.
Prerequisite: THEA 31526; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41541 DRAPING FOR THE THEATRE II 3 Credit Hours
(Slashed with THEA 51541) Course is designed to build upon skills developed in Draping for the Theatre I. Emphasis is placed on learning to drape over period undergarments such as corsetry, panniers, bustles, etc.
Prerequisite: THEA 31526; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41560 THEATRE FABRICATION TECHNOLOGY 3 Credit Hours
(Slashed with THEA 51560) History of technical production practice, materials theory and application in scenic construction technology.
Prerequisite: THEA 21521; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41562 ADVANCED PROJECTION DESIGN 3 Credit Hours
(Slashed with THEA 51562) Studies in projection design, digital media, and related technologies. Advanced software applications will be explored.
Prerequisite: THEA 11521; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41620 HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) 3 Credit Hours
Students explore the way in which theatre designers approach period style in their own creative work.
Prerequisite: Theatre design, technology and production major; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

THEA 41621 PRESENTATION MEDIA 3 Credit Hours
(Slashed with THEA 51621) Advanced process techniques in rendering, model building and design presentation for the scenic costume and lighting designer in traditional and new media.
Prerequisite: THEA 11722 and THEA 11732 and THEA 21521; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41622 DESIGN STUDIO: SCENERY 3 Credit Hours
(Slashed with THEA 51622) Advanced study in scenic design. Explores genres styles performance spaces, including practical considerations.
Prerequisite: THEA 21622; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41625 HISTORY OF COSTUME AND TEXTILES FOR THEATRE 3 Credit Hours
(Slashed with THEA 51625) This class is designed to give a global overview of the history of period costume and textiles from 1500 to 1990, a span of time that is most often used in theatrical production and broken down into commonly regarded "time periods" in the history of costume as well as looking at clothing history across various continents and regions. Emphasis is placed on how, as theatre practitioners, we can recreate the silhouettes of these periods and regions in ways that make sense to our audience using the textiles available today. We will also look at the social and cultural influences of clothing, recognition of historic silhouette, and focus how to utilize various tools needed to accurately research any given period or region.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41702 MOVEMENT AND DANCE FOR ACTORS 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51702) Designed to acquaint actors with theatre dance techniques and choreographic styles by concentrating on vernacular dances used throughout musical theatre. Course combines basic ballet, jazz and tap terminology.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 41703 STAGE COMBAT 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51703) Introductory course focuses on creating the illusion of violence for the stage and screen. Basic instruction is given in unarmed and armed stage combat. Emphasis is on the development of technique; the process of the work; and the performance, with a focus on safety, accuracy and the fundamental techniques recognized by the Society of American Fight Directors (SAFD). Basic techniques are incorporated into short scenes to provide experience performing fights in production.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 41726 THEATRE MANAGEMENT 3 Credit Hours
Principles and practices of managing theatrical-producing organizations. Problems of finance, personnel, policy, program building and public relations. Production participation as assigned.
Prerequisite: Junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41734 COSTUME PRODUCTION MANAGEMENT 3 Credit Hours
(Slashed with THEA 51734) The course is designed to provide an introduction to managerial processes as they apply to costume production; the role of a shop manager, the roles of a wardrobe supervisor and wardrobe crew, and the running of a smooth technical rehearsal and production.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41736 PRODUCTION AND STAGE MANAGEMENT 3 Credit Hours
(Slashed with THEA 51736) Advanced investigation of the methodology used in stage managing professional theatrical productions and production management processes. Focus on production processes for various theatre, dance, opera and entertainment genres.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41804 MILLINERY TECHNIQUES 3 Credit Hours
(Slashed with THEA 51804) This course is designed to provide an introduction to the basics of millinery techniques. Emphasis is placed on essential millinery principles, quality millinery supplies and finishing techniques, as well as the design and patterning of a variety of hat wear.
Prerequisite: Junior standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

THEA 41808 ACTING STYLES I: SHAKESPEARE 3 Credit Hours
(Slashed with THEA 51808) The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies and scenes from Shakespeare.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 41999 CAPSTONE PROJECT (ELR) 1-3 Credit Hours
The capstone project represents a culminating event for the student. Capstone projects can be undertaken in the junior or senior year and are identified in consultation with a faculty advisor. Honor students may combine the capstone project with an Honors thesis.
Prerequisite: Junior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 42002 MUSICAL THEATRE PERFORMANCE IV 3 Credit Hours
Course focuses on synthesizing the multiple aspects of musical theatre performance. Solo and ensemble work are emphasized with special concentration on scene work specific to musical theatre. This course is the culmination of the four-course sequence in musical theatre performance.
Prerequisite: THEA 32002.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 42040 SHOP MANAGEMENT 3 Credit Hours
(Slashed with THEA 52040) Course provides an in-depth exploration of the principles and practices of shop management specific to scenic and costume design, integrating foundational concepts of managerial science. Students learn about production processes, resource management, budgeting, organizational behavior, safety practices/OSHA requirements and strategic planning. The course emphasizes both theoretical frameworks and practical applications, preparing students for successful careers in theatrical production and management.
Prerequisite: THEA 11725 and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 42062 PRESENTATION MEDIA 3 Credit Hours
(Slashed with THEA 52062) Course explores the fundamental skills in drawing, painting, drafting and model building specifically designed for theatre production. Students develop techniques in visualizing and constructing set and costume designs. Emphasis is placed on artistic interpretation, spatial understanding and technical skills needed to communicate design concepts effectively for stage productions.
Prerequisite: THEA 11725 and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 42092 PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Practical experience in theatre production under faculty supervision.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 42101 DYE TECHNIQUES AND FABRIC MODIFICATION 3 Credit Hours
(Slashed with THEA 52101) This course is designed to enable the artisan to identify fiber content and determine appropriate mediums for fabric dyeing. The course explores various techniques such as shabori, stamping, rubbing, and surface lifting in order to create special effects on fabrics. A collection of dye fabric samples and information will be created so student may use as a reference book.
Prerequisite: Junior standing; and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

THEA 42150 3D CHARACTERS: FOAM FABRICATION AND FIGURE FINISHING TECHNIQUES 3 Credit Hours
(Slashed with THEA 52150) This course provides knowledge and application of the different types of plastics/foams used for 3D character building. This course is designed to enable the artisan to work with a range of materials when building atypical pieces for costumes or props.
Prerequisite: Junior standing; and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

THEA 42192 PRACTICUM II: PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for credit) Advanced practical experience in theatre performance under faculty supervision. Available for upper division students only.
Prerequisite: Junior or senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 42292 PRACTICUM II: THEATRE MANAGEMENT (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre management under faculty/staff supervision. Available for upper division students only.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

THEA 42999 PORTHOUSE PERFORMANCE EXPERIENCE (ELR) 3 Credit Hours
(Repeatable for credit) Intensive advanced training in practical aspects of production at Porthouse Theatre. Periodic seminars, research, written work and laboratory sessions in preparation for performance in a theatre company.
Prerequisite: Major or minor in the School of Theatre and Dance.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 50091 VARIABLE TOPIC SEMINAR: DEVISING THEATRE 3 Credit Hours
A devised theatre event is work that has emerged and been generated by a group of people working in collaboration. Devising Theatre explores the processes of creating original performances defined and determined by its makers. Process and product originate from stimuli other than traditional play scripts. Students learn specialist techniques by developing solo and group performance pieces. Alternative modes of making theatre performances are considered.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 51010 THEATRE AND SOCIAL CHANGE 3 Credit Hours
(Slashed with THEA 41010) This course interweaves the history, theory, practice and play text development in the field of theatre and social change.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51026 PLAYWRITING 3 Credit Hours
(Repeatable once for credit) Principles underlying playwriting for the contemporary theatre; analysis of short play form.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51027 ADVANCED PLAYWRITING 3 Credit Hours
(Repeatable once for credit)(Slashed with THEA 41027) Application of principles of playwriting to the longer play and to variations from traditional realism;play analysis and composition.
Prerequisite: THEA 51026; and graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51089 INTERNATIONAL EXPERIENCE: THEATRE AND SOCIAL CHANGE IN CZECHIA 3 Credit Hours
(Slashed with THEA 41089)(Repeatable for credit) Using a combination of in-depth research and direct learning experiences, this course explores the intersection between theatre and socio-political change through the example of Czechoslovakia's history from the 1968 Prague Spring to the Velvet Revolution of 1989/90 and on through today's concerns of Western late-stage capitalism. Students study both historical and contemporary texts, as well as view productions while on a study abroad program.
Prerequisite: Graduate standing.
Schedule Type: International Experience, Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

THEA 51095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Offered irregularly when unusual resources permit a topic.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

THEA 51113 THEATRE IN A MULTICULTURAL AMERICA 3 Credit Hours
A study of theatre and drama in the Native American, Hispanic American, African-American, and Asian American communities in the United States from 1980 to the present.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51115 LGBTQ THEATRE 3 Credit Hours
Studies of various theatrical representations of Lesbian, Gay, Bisexual, Transgender and Queer people as seen through the frameworks of history, gender theory, identity, politics, psychology, law, and justice.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51130 THEATRE AND DRAMA IN AMERICA 3 Credit Hours
The history of theatre and drama in America from their beginnings to the present.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51191 VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY 3 Credit Hours
(Repeatable for credit)Seminar focuses on selected topics in these areas, for example performance art, performance theory or theatre in a multicultural society.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 51301 ACTING FOR THE CAMERA I 3 Credit Hours
An introduction to the specific techniques used in film acting. The course provides students with the necessary tools to make the transition from stage acting to camera acting.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51302 ACTING FOR THE CAMERA II 3 Credit Hours
Further development on the specific techniques used in film acting as applied to the Graduate Actor. The course continues to assist in making the transition from stage acting to camera acting.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51303 ACTING I FOUNDATIONS/STANISLAVSKI AND MICHAEL CHEKHOV 3 Credit Hours
The Stanislavski and Michael Chekhov Techniques: A thorough exploration of Stanislavski's Method of Psycho-Physical Action, and the Michael Chekhov technique including atmosphere, psychological gesture, and qualities of movement.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 51304 ACTING II: SCENE STUDY-MODERN AMERICAN REALISM 3 Credit Hours
The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 51305 PROFESSIONAL ASPECTS: PERFORMANCE 3 Credit Hours
(Slashed with THEA 41305) A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51308 MUSICAL THEATRE AUDITION 2 Credit Hours
(Repeatable for a maximum of 4 credit hours) Explore the various genres and styles of American musical theatre songs with specific emphasis on finding practical audition repertoire for each student. Performance and research will be the primary activities in the class.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

THEA 51401 ADVANCED DIRECTING 3 Credit Hours
Advanced work in directing for the theatre. Topics include director as creative interpretative artist, the director and the actor. Students direct individual projects.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51420 THEATRICAL DRAFTING II 3 Credit Hours
(Slashed with THEA 41420) Advanced 2D and 3D drafting techniques for technical directors and theatre designers. Representation of scenery through drafting using current AutoCAD software.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51430 ADVANCED CONSTRUCTION THEORY 3 Credit Hours
(Slashed with THEA 41430) The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop, including reliably predicting the performance of untraditional, unusual or unfamiliar structures and use of mathematical models, formulas, and representative diagrams. Graduate Students will cover steel construction, and cables.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51440 SHOP MANAGEMENT 3 Credit Hours
(Slashed with THEA 41440) Study of resource management, both human and non-human, for professional and academic shops. Topics include scheduling, budgeting, health and safety, interactions with other theatre workers and leadership development.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51499 MUSICAL THEATRE SHOWCASE 2 Credit Hours
(Repeatable for credit) (Slashed with THEA 41499) Development, promotion and presentation of a Musical Theatre showcase for industry casting personnel in New York City. Audition required prior to registration for this course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 51521 ADVANCED LIGHTING TECHNOLOGY I 3 Credit Hours
Advanced study of the technologies used in lighting design; conventional and intelligent fixtures, electricity, projection techniques and special effects.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51522 DESIGN STUDIO: LIGHTING 3 Credit Hours
Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51523 SOUND DESIGN AND TECHNOLOGY I 3 Credit Hours
Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment, mixing consoles, amplifiers, speakers.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51524 DESIGN STUDIO: COSTUME 3 Credit Hours
Advanced study in costume design. Genres, styles, in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer/shop personnel and designer/ director.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51525 PROPS AND CRAFTS 3 Credit Hours
Examination of the processes related to the creation and procurement of scenic and costume props.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51526 ADVANCED LIGHTING TECHNOLOGY II 3 Credit Hours
(Slashed with THEA 41526) Course focuses both on the practice of intelligent lighting programming and the technology of intelligent lighting fixtures.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51527 SOUND AND DESIGN TECHNOLOGY II 3 Credit Hours
(Slashed with THEA 41527) Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored.
Prerequisite: THEA 51523; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51528 THEATRE SOUND REINFORCEMENT 3 Credit Hours
Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real time digital processing of audio. rerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51529 ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN 3 Credit Hours
Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51531 THEATRICAL RIGGING 3 Credit Hours
(Slashed with THEA 41531) Course is designed to teach students the principles of stage rigging, knot tying and counterweight rigging systems used in theatrical and other live entertainment situations. Students examine the process involved in overhead applications for the theatre industry. Students learn the proper method to design and rig in theatrical environments through the explanation of tools, equipment, hardware and safety practices.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51540 DRAPING FOR THE THEATRE I 3 Credit Hours
(Slashed with THEA 41540) The course is designed to provide an introduction to the basics of draping and building flat patterning techniques from this knowledge as they apply to theatre. More in-depth content for this graduate level course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51541 DRAPING FOR THE THEATRE II 3 Credit Hours
(Slashed with THEA 41541) Course is designed to build upon skills developed in Draping for the Theatre I. Emphasis is placed on learning to drape over period undergarments such as corsetry, panniers, bustles, etc.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51560 THEATRE FABRICATION TECHNOLOGY 3 Credit Hours
History of technical production practice, materials theory and application in scenic construction technology.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51562 ADVANCED PROJECTION DESIGN 3 Credit Hours
(Slashed with THEA 41562) Studies in projection design, digital media, and related technologies. Advanced software applications will be explored.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51621 PRESENTATION MEDIA 3 Credit Hours
Advanced process techniques in rendering, model building and design presentation for the scenic costume and lighting designer in traditional and new media.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51622 DESIGN STUDIO:SCENERY 3 Credit Hours
Advanced study in scenic design. Explores genres, styles, performance spaces, including practical considerations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51625 HISTORY OF COSTUME AND TEXTILES FOR THEATRE 3 Credit Hours
(Slashed with THEA 41625) This class is designed to give a global overview of the history of period costume and textiles from 1500 to 1990, a span of time that is most often used in theatrical production and broken down into commonly regarded “time periods” in the history of costume as well as looking at clothing history across various continents and regions. Emphasis is placed on how, as theatre practitioners, we can recreate the silhouettes of these periods and regions in ways that make sense to our audience using the textiles available today. We will also look at the social and cultural influences of clothing, recognition of historic silhouette, and focus how to utilize various tools needed to accurately research any given period or region.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51701 MOVEMENT, FORM AND SPACE I-THE ACTOR'S PHYSICAL INSTRUMENT 3 Credit Hours
Development of technical skills emphasizing the physical components of expressive action through integration of breath, voice and body conditioning.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 51702 MOVEMENT AND DANCE FOR ACTORS 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Designed to acquaint actors with theatre dance techniques and choreographic styles by concentrating on vernacular dances used throughout musical theatre. Course combines basic ballet, jazz, and tap terminology.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 51703 STAGE COMBAT 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with THEA 41703) Introductory course focuses on creating the illusion of violence for the stage and screen. Basic instruction is given in unarmed and armed stage combat. Emphasis is on the development of technique; the process of the work; and the performance, with a focus on safety, accuracy and the fundamental techniques recognized by the Society of American Fight Directors (SAFD). Basic techniques are incorporated into short scenes to provide experience performing fights in production.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 51734 COSTUME PRODUCTION MANAGEMENT 3 Credit Hours
(Slashed with THEA 41734) The course is designed to provide an introduction to managerial processes as they apply to costumes, the role of a shop manager, the role of a wardrobe supervisor and the wardrobe crew, the running of a smooth technical rehearsal and production.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51736 PRODUCTION AND STAGE MANAGEMENT 3 Credit Hours
Advanced investigation of the methodology used in stage managing professional theatrical productions and production management processes. Focus on production processes for various theatre, dance, opera and entertainment genres.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51803 VOICE AND SPEECH I 3 Credit Hours
Practical study and application of voice and speech production for the actor into various styles of verse and prose, including heightened language and text.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 51804 MILLINERY TECHNIQUES 3 Credit Hours
(Slashed with THEA 41804) This course is designed to provide an introduction to the basics of millinery techniques. Emphasis is placed on essential millinery principles, quality millinery supplies and finishing techniques, as well as the design and patterning of a variety of hat wear.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

THEA 51808 ACTING STYLES I: SHAKESPEARE 3 Credit Hours
The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies, and scenes from Shakespeare.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 52040 SHOP MANAGEMENT 3 Credit Hours
(Slashed with THEA 42040) Course provides an in-depth exploration of the principles and practices of shop management specific to scenic and costume design, integrating foundational concepts of managerial science. Students learn about production processes, resource management, budgeting, organizational behavior, safety practices/OSHA requirements and strategic planning. The course emphasizes both theoretical frameworks and practical applications, preparing students for successful careers in theatrical production and management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 52062 PRESENTATION MEDIA 3 Credit Hours
(Slashed with THEA 42062) Course explores the fundamental skills in drawing, painting, drafting and model building specifically designed for theatre production. Students develop techniques in visualizing and constructing set and costume designs. Emphasis is placed on artistic interpretation, spatial understanding and technical skills needed to communicate design concepts effectively for stage productions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 52101 DYE TECHNIQUES AND FABRIC MODIFICATION 3 Credit Hours
(Slashed with THEA 42101) This course is designed to enable the artisan to identify fiber content and determine appropriate mediums for fabric dyeing. The course explores various techniques such as shabori, stamping, rubbing, and surface lifting in order to create special effects on fabrics. A collection of dye fabric samples and information will be created so student may use as a reference book.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

THEA 52150 THREE-DIMENSIONAL CHARACTERS: FOAM FABRICATION AND FIGURE FINISHING TECHNIQUES 3 Credit Hours
(Slashed with THEA 42150) This course provides knowledge and application of the different types of plastics/foams used for 3D character building. This course is designed to enable the artisan to work with a range of materials when building atypical pieces for costumes or props.
Prerequisite: Graduate Standing and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

THEA 60196 INDIVIDUAL INVESTIGATION: HISTORIC TEXTILES 3 Credit Hours
(Repeatable for credit)Identification and analysis of textile fabric as the reflection of culture.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 60199 M.F.A. THESIS PROJECT 3 Credit Hours
(Repeatable for credit)Students must register for course during the semester of their M.F.A. thesis project.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 60992 PROFESSIONAL THEATRE INTERNSHIP I 3,6 Credit Hours
(Repeatable once) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre Company.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 61000 INTRODUCTION TO GRADUATE STUDY IN THEATRE 3 Credit Hours
Orientation to bibliography and research in the field of theatre with emphasis on application of research to performance.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61051 GRADUATE PORTFOLIO REVIEW 1 Credit Hour
(Repeatable for credit) This review offers students the opportunity to develop and present a professional-level portfolio and related documentation that shows their development as graduate students in theatre design and technology. Students meet with their faculty advisors to develop their portfolios and receive verbal and written responses to their work. This feedback provides students a benchmark for how they will be assessed in the design technology industry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 61094 COLLEGE TEACHING IN THEATRE 3 Credit Hours
(Repeatable for credit) Strategies for teaching, issues on implications of pedagogical practice and responsibilities of academic leadership.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Offered irregularly when unusual resources permit a topic different from existing courses. Topic are announced when scheduled.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

THEA 61096 INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

THEA 61098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's-level graduate students. Credits may be applied toward meeting degree requirements with school approval.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 61303 ACTING III SCENE STUDY: NATURALISM AND ABSURD 3 Credit Hours
In-depth scene study in the genres of Naturalism and Absurd theatre. Exploration of the works of Chekhov, Strindberg, Beckett and others.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 61305 ACTING STYLES II: GREEK AND COMEDY OF MANNERS 3 Credit Hours
Application of acting, movement and speech techniques to these specific genres. Focus on style and physicalization using Greek and English Restoration playwrights as well as Molière, Wilde and others.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61306 PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY 3 Credit Hours
A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects. Emphasis is placed on developing skills and materials for finding employment and the use of marketing communication techniques.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61309 MASTER OF FINE ARTS COMPREHENSIVE PROJECT IN ACTING 1-3 Credit Hours
Intensive work in the development of the practical aspects of production; includes performance or exhibition of work, documentation of that work in a format appropriate for area and project, and an exit interview.
Prerequisite: THEA 61000; and graduate standing; and special approval of instructor.
Schedule Type: Laboratory
Contact Hours: 3-9 lab
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 61310 MASTER OF FINE ARTS DESIGN AND TECHNOLOGY CULMINATING PROJECT 3 Credit Hours
An intensive experience in the development of design and/or technical aspects of a theatrical production; the scope of work may include but not necessarily be limited to research, drawings and drafting, renderings and associated digital image, video or audio files. Documentation (appropriate for the area and project) is presented at an exit interview.
Prerequisite: THEA 61000; and graduate standing; and special approval of instructor.
Schedule Type: Individual Investigation, Masters Thesis, Studio
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 61420 COLLABORATION IN PRODUCTION STUDIO 1 Credit Hour
Knowledge acquisition and the development of skills to create resolve and present well-reasoned theatrical design. Students will employ the design and production process, observation of deadlines, and collaboration with other designers and technical directors, as a structure to elevate production.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

THEA 61525 MILLINERY AND 3-D CHARACTERS 3 Credit Hours
Advanced studies of techniques of millinery construction and 3D character construction with an emphasis on current practice in the industry.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61528 DESIGN PROCESS AND COLLABORATION 3 Credit Hours
Introduction to the design process and collaboration in a theatrical production. Students have the opportunity to analyze best practices, strategies and the strengths and challenges of designers.
Prerequisite: THEA 61000; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61531 PERIOD STYLE FOR THEATRE DESIGNERS 3 Credit Hours
An exploration of the relationship of period style, historical context and the designer's artistic choices in contemporary interpretations of period plays.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61623 DIGITAL RENDERING THEATRE DESIGN 3 Credit Hours
Explores a variety of digital rendering methods for artistic 2D and 3D graphics visualization of theatrical design concepts.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61701 MOVEMENT, FORM AND SPACE II-NEUTRAL AND CHARACTER MASK 3 Credit Hours
Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through performance in masks.
Prerequisite: THEA 51701; and graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 61703 MOVEMENT, FORM AND SPACE III 3 Credit Hours
Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through period movement. This course allows actors to effectively perform movement and styles from specific historical periods and genres.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

THEA 61803 VOICE AND SPEECH II 3 Credit Hours
Ongoing study and application of voice and speech technique into various styles of text, and the analysis and development of accents for performance and presentation.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 61804 VOICE AND SPEECH III 3 Credit Hours
Advanced study and application of voice and speech techniques, focusing on the extremes of vocal demands.
Prerequisite: THEA 51803; and graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 61806 SINGING FOR THE ACTOR 1 Credit Hour
A comprehensive study of performance techniques and repertoire appropriate to the singing actor.
Prerequisite: THEA 51801; and graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

THEA 61992 PROFESSIONAL THEATRE INTERNSHIP II 3,6 Credit Hours
(Repeatable for credit)Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a professional theatre company.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62000 INTRODUCTION TO GRADUATE STUDY IN THEATRE 3 Credit Hours
Course focuses on developing the academic and professional skills needed for success in a rigorous graduate program. Emphasis is placed on critical thinking, research methods, theatrical production processes, dramaturgy and effective teaching strategies. Students explore approaches to theatrical design, production and pedagogy, while also learning how to critically analyze dramatic works within a historical, cultural and theoretical context.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 62092 PRACTICUM: DESIGN/TECHNOLOGY 3 Credit Hours
(Repeatable for credit) Practical experience for the graduate student in theatre design and technology under faculty supervision.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62192 PRACTICUM: PERFORMANCE 3 Credit Hours
(Repeatable for credit) (Cross-listed with KBT 62192) Practical experience for the graduate student in theatre performance under faculty supervision.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62292 PRACTICUM:THEATRE MANAGEMENT 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Practical experience for the graduate student in theatre management under faculty/staff supervision.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62392 PRACTICUM: PERORMANCE PEDAGOGY 1 Credit Hour
(Repeatable for credit) Advanced practical experience in theatre performance pedagogy under faculty supervision.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 62892 THEATRE PRACTICUM 1 Credit Hour
(Repeatable twice for credit) Practical experience for the graduate student in cocurricular theatre activities, under faculty supervision.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours)(Slashed with THEA 72992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble.
Prerequisite: Graduate standing; and special approval of advisor.
Schedule Type: Practical Experience
Contact Hours: 1-6 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 63001 SCENIC DESIGN I: FOUNDATIONS IN SINGLE SET SCENIC DESIGN 2 Credit Hours
Introduction to the methodology and practice of professional scene design. Application of knowledge made through a series of design projects. Script Analysis, perspective rendering and model-making techniques will be emphasized for single set productions.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63002 SCENIC DESIGN II: ADVANCED SINGLE SET SCENIC DESIGN 2 Credit Hours
Inquiry to the methodology and practice of professional scene design. Application of knowledge will be through a series of complex design projects. Script analysis, drafting, perspective rendering and more advanced model-making techniques will be emphasized.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63003 SCENIC DESIGN III: DESIGNING BEYOND DRAMA 2 Credit Hours
An advanced approach to professional scene design as it applies to opera, musical theatre, and the entertainment industry. Advanced design communication techniques will be applied through a series of design projects. Textual analysis, conceptual unit/multi-set productions, storyboarding, and advanced visual communication/presentation techniques will be emphasized.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special permission.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63004 SCENIC DESIGN IV: ADVANCED MULTI-SETTING DESIGN 2 Credit Hours
An advanced approach to professional scene design as it applies to opera, musical theatre, and the entertainment industry in non-traditional spaces. Advanced design communication techniques will be applied through a series of design projects. Analysis, conceptual unit/multi-set productions, storyboarding, and advanced visual communication/presentation techniques will be emphasized.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special permission.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63005 SCENIC DESIGN V: ENTERTAINMENT AND PRODUCTION DESIGN 2 Credit Hours
An advanced approach to professional scene design as it applies to industrials,showrooms and the entertainment industry. Knowledge of techniques will be applied through a series of design projects, analysis, conceptual approaches, storyboarding, and advanced visual communication/presentation techniques. This course will focus on refinement of the theoretical and practical skills of the professional scenic designer.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63006 SCENIC DESIGN VI: NON-TRADITIONAL AND SITE-SPECIFIC PERFORMANCES 2 Credit Hours
An advanced approach to professional scene design as it applies to industrials and the entertainment industry. Site specific design communication techniques will be applied through a series of design projects. Analysis, conceptual approaches, storyboarding, and advanced visual communication/presentation techniques will be emphasized.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63092 PRODUCTION COLLABORATION: SCENIC DESIGN 1-2 Credit Hours
(Repeatable for credit) Practical preparation, design and production work as applied to Scenic design within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in scene design. Repeatable to a maximum of 8 credits.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

THEA 63192 MENTORSHIP IN PERFORMANCE 3 Credit Hours
(Repeatable for a total of 6 credit hours) Development of advanced skills and abilities to mentor student performers in aspects of the profession, including professional behavior, understanding of the business and the actor's creative process. Major work done while participating in rehearsal and performance of main stage productions or assisting in THEA 41305/ THEA 51305. Students may take the course alongside THEA 62192.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 64001 THEATRE TECHNICAL DIRECTION I: FOUNDATIONS I 2 Credit Hours
Investigation of publications in the field of technical theatre and their relevance to examining the technical manager as planner, artist, creative thinker positive leader and colleague.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64002 THEATRE TECHNICAL DIRECTION II: FOUNDATIONS II 2 Credit Hours
Continued Investigation of publications in the field of technical theatre and their relevance to examining the technical manager as planner, artist, creative thinker positive leader and colleague.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64003 THEATRE TECHNICAL DIRECTION III: TOURING PRODUCTIONS 2 Credit Hours
Course covers the logistics of transporting a theatrical production, the concepts and needs of touring productions, and different construction techniques needed for disassembly and quick reassembly.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64004 THEATRE TECHNICAL DIRECTION IV: EDUCATIONAL THEATRE 2 Credit Hours
Examination of the roles of the technical director in academia, including the evolution of and current state of technical theatre education. Course will explore the work and presentations of the USITT Education Commission.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64005 THEATRE TECHNICAL DIRECTION V: MECHANICS AND AUTOMATION 2 Credit Hours
Examination of the techniques and applications of automated scenery and stage mechanics.
Prerequisite: Graduate Standing in the School of Theatre & Dance and special permission.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64006 THEATRE TECHNICAL DIRECTION VI: HEALTH AND SAFETY 2 Credit Hours
Focus on the health & safety concerns of live performance, including the organizations OSHA, NFPS, ANSI, Red Cross, their protocols and their relation to theatre.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64092 PRODUCTION COLLABORATION: TECHNICAL DIRECTION 1-2 Credit Hours
(Repeatable for credit) Practical preparation, design and production work as applied to technical direction within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in technical direction. Repeatable to a maximum of 8 credits.
Prerequisite: Graduate standing in the School of Theatre and Dance.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

THEA 64192 MENTORSHIP AT PORTHOUSE 3 Credit Hours
(Repeatable for a total of 6 credit hours) Development of advanced skills and abilities to mentor student performers in aspects of the profession, including professional behavior, understanding of the business and the actor's creative process. Major work done while participating in rehearsal of Porthouse Theatre productions. Students may take the course alongside THEA 62192.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 65000 HISTORY, HISTORICISM, THEORY AND PRACTICE IN THEATRE AND DRAMA 3 Credit Hours
Course covers the breadth of theatre history and historicism and application of theatre theory to practice by focusing on the six major stylistic periods: Greek and Roman, Medieval, Renaissance, Romanticism, Realism and Non Realism (symbolism, expressionism, surrealism, absurdism) and contemporary period (postmodernism, feminism and interculturalism, multiculturalism). Using lecture, scholarly articles, video viewing and practical writing projects, students learn about and practice each style, as well appl the style to students' respective areas of graduate study (i.e. actor, director, designer).
Prerequisite: THEA 61000; and graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 65001 LIGHTING DESIGN I: DRAMA 2 Credit Hours
Advanced exploration and development of artistic processes and method for lighting design in drama.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65002 LIGHTING DESIGN II: MUSICAL THEATRE 2 Credit Hours
Advanced exploration and development of artistic processes and methods for lighting design in musical theatre.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65003 LIGHTING DESIGN III: DANCE AND OPERA 2 Credit Hours
Advanced exploration and development of artistic processes and methods for lighting design in classical and contemporary dance and opera.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65004 LIGHTING DESIGN IV: NON-TRADITIONAL PRODUCTIONS 2 Credit Hours
Exploration and development of artistic processes and methods in lighting design for non- traditional works, including multidisciplinary and devised productions.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65005 LIGHTING DESIGN V: ARCHITECTURAL AND INTERIOR LIGHTING 2 Credit Hours
Exploration and development of artistic processes and methods in lighting design for architectural and commercial interiors.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65006 LIGHTING DESIGN VI: NEW TECHNOLOGY 2 Credit Hours
Exploration of innovative technology and technological tools and their application to lighting design. The course includes exploration of non-conventional, automated, projection and LED technologies.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65092 PRODUCTION COLLABORATION: LIGHTING DESIGN 1-2 Credit Hours
(Repeatable for credit) Practical preparation, design and production work as applied to lighting design within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in lighting. Repeatable to a maximum of 8 credits.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

THEA 65192 TEACHING PRACTICUM 1-6 Credit Hours
(Repeatable for credit) Application of strategies for teaching at the college level. Development of advanced skills in course preparation, classroom management and pedagogical practice. Major work done teaching or assisting with undergraduate classes.
Prerequisite: THEA 62000; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3.6-21.6 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 66001 COSTUME DESIGN I: SCRIPT ANALYSIS 2 Credit Hours
Exploration and development of different methods and artistic processes for costume design. By focusing on textual analysis, the costume student will be able to explore a wide variety of performance types.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66002 COSTUME DESIGN II: PERFORMANCE GENRES 2 Credit Hours
Exploration and development of different methods and artistic processes for costume design in diverse genres, including dance, opera, and circus.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66003 COSTUME DESIGN III: THEATRICAL STYLES 2 Credit Hours
Advanced exploration of costume designs which incorporate both historical and thematic stylized conventions.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66004 COSTUME DESIGN IV: ADVANCED RENDERING 2 Credit Hours
Development of advanced figure drawing study and rendering techniques in order to strengthen the student's skill and facility in producing costume renderings.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66005 COSTUME DESIGN V: RESEARCH METHODS 2 Credit Hours
Intensive focus on the variety of research methodologies and their application to both contemporary and period costume designs.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66006 COSTUME DESIGN VI: TEXTILES 2 Credit Hours
An understanding of the appropriate application of many common and specialty fabrics used in costume design.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66092 PRODUCTION COLLABORATION: COSTUME DESIGN/ TECHNOLOGY 1-2 Credit Hours
(Repeatable for credit) Practical preparation, design and production work as applied to Costuming within the School of Theatre and Dance.This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in costumes. Repeatable to a maximum of 8 credits.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

THEA 72992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours
(Repeatable for a total of 12 credit hours)(Slashed with THEA 62992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble.
Prerequisite: Doctoral standing and special approval of advisor.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1-6 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

Translation Studies (TRST)

TRST 20009 MULTILINGUAL INFORMATION LIFECYCLE 3 Credit Hours
Introduction to the multilingual information cycle, including general technological issues, text preparation, translation in markup languages, computer-assisted translation tools and multilingual information flow for multilingual and multicultural work. Course is taught in English.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 30230 APPROACHES TO TRANSLATION 3 Credit Hours
Introduction to foreign language translation. Introduces concepts, resources, principles and techniques of text analysis and translation strategies applicable to various types of texts.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 30330 CROSS-LANGUAGE MEDIATION 3 Credit Hours
An exploration of textual and contextual factors impacting cross-language mediation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 40095 SPECIAL TOPICS IN TRANSLATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with TRST 50095 and TRST 70095) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with translation studies carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Translation Studies (TRST) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

TRST 50009 THEORY AND PRACTICE OF INTERPRETING 3 Credit Hours
(Slashed with TRST 70009) Survey of the theory and practice of unimodal (spoken word) interpreting in its multiple contexts: conference, medical, judicial, liaison, and media interpreting, with an emphasis on community interpreting. Stakeholders, discourses, modalities, and environments; characteristics of interpreted speech; identities and intervenient roles of interpreters (coordinators, co-participants, diplomats); professionalization and 'volunteerization'; ethics and protocols; research paradigms and future directions; quality and assessment; legal frameworks and language policy; histories of interpreting. Pedagogies of dialogue interpreting [process, interactive, demand-control schema; cognitive and effort models]; memory; technologies; terminology. Course conducted in English.
Prerequisite: Graduate standing; Translation major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 50031 PROFESSIONAL EDITING FOR TRANSLATORS 3 Credit Hours
Provides practical instruction in the editing of translated texts representing a variety of text types. Course covers the skills and techniques that are required for all stages of the editing process and using the best practices of professional translation. Topics include the stages of editing, from rough translation to finished draft; electronic tools for multilingual translation editing; translation style guides; and pre- and post-editing of machine translation. Interactive lecture and workshop formats.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 50095 SPECIAL TOPICS IN TRANSLATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with TRST 40095 and TRST 70095) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 60001 GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES 3 Credit Hours
Individual instruction and assistance with problems encountered in academic research and writing in translation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60009 INTRODUCTION TO TRANSLATION TECHNOLOGY 3 Credit Hours
This course provides an in-depth exploration of the principles, processes and technologies involved with managing the document life cycle within a multilingual environment. It examines the various stages that documents undergo both online and offline, from authoring, management and retrieval to translation, publishing and archiving, along with the tools, challenges and requirements at each phase. Key concepts for translation technologies, such as translation memory systems and terminology management, are also introduced. Through a series of modules and hands-on activities, students explore the impact of information technology on content creation and translation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60010 THEORY OF TRANSLATION AND INTERPRETING 2 Credit Hours
Introduction to the theoretical bases and methods of language mediation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

TRST 60011 TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION 3 Credit Hours
This course provides students with an introduction to translation technology and software tools used within the translation industry as part of translation workflows. The course surveys the three main forms of translation technology: terminology management systems, translation memories and machine translation. The course first introduces the fundamental principles of terminology management and lays out best practices for creating and maintaining terminological databases (termbases). The course then turns to translation memories, databases created from aligned parallel corpora that allow translators to reuse past translations. Finally, the role of machine translation and AI in human translation workflows is examined, focusing specifically on human-machine interaction in the workflow, including the activity of post-editing. The course concludes with an examination of how translation technology affects translation quality, the management of translation technology for projects and predictions for the future of translation technology within the language industry.
Prerequisite: TRST 60009; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60012 SOFTWARE AND WEBSITE LOCALIZATION 3 Credit Hours
This course introduces students to the principles, techniques and best practices involved with the internationalization and localization of various types of digital content, including software, websites, web pages and graphics. Localization entails adapting content related to a product, service or idea to suit the language and culture of a specific market or locale. As a rapidly growing industry, localization is expanding at an annual rate of 6.5-7.5%, making it a thriving field with excellent career prospects for students interested in language, culture and technology. Throughout this course, students gain a solid understanding of the central concepts and terminology used within the field of localization. They also learn about the formal standards and best practices for creating, maintaining and sharing resources generated by translation and localization technologies. Alongside essential theoretical perspectives and principles, the course provides hands-on experience with contemporary translation and localization practices. Students work with up-to-date computer-assisted translation (CAT) tools, as well as text and multimedia editing platforms to apply their learning within practical contexts. By bridging the gap between theory and practice, projects and activities involve practical exercises based on the concepts, technologies and processes discussed during class.
Prerequisite: TRST 60011 with a minimum B grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60013 LANGUAGE PROJECT MANAGEMENT 3 Credit Hours
This course offers an introduction to the knowledge, skills, tools and techniques of project management and applies these concepts within the language industry context. The language industry is predominantly outsourced, digitized and project based, which means that regardless of the career path on which you embark, translation and localization projects have a major influence on your role and how you conduct your work. This course provides students with an analytical framework, as well as pragmatic tools and techniques to navigate work within the industry and build broadly applicable expertise throughout time. After all, project management is the "art and science of getting stuff done." Project management not only equips students with the tools to get work done and lead and manage diverse teams of people effectively, but also helps them build an understanding of the core concepts and dynamics of projects. This is true regardless of whether you work within the language industry or another profession entirely.
Prerequisite: TRST 60011 and TRST 60012 with a minimum B grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60031 INTERCULTURAL COMMUNICATION IN THE LANGUAGE INDUSTRY 3 Credit Hours
The role and impact of intercultural communication models, theories and approaches in shaping language industry dynamics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60040 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60092 TRANSLATION INTERNSHIP 1-3 Credit Hours
(Repeatable for credit) Supervised practical experience in translation or localization or a related role at a cooperating organization, subject to availability. The internship may be undertaken on-site or remotely. Students must have completed TRST 60011. Requires preparation of an internship report or portfolio connecting academic coursework to on-the-job experiences.
Prerequisite: TRST 60011; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 60095 SPECIAL TOPICS IN TRANSLATIONS STUDIES 1-3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 60098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with translation studies carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

TRST 60099 CAPSTONE PROJECT IN TRANSLATION 3 Credit Hours
Guided selection, completion, critically reflective analysis and defense of a professional-level translation or translation-related project.
Prerequisite: TRST 60010 and TRST 60011; and graduate studies.
Schedule Type: Project or Capstone
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory

TRST 60100 PRACTICE OF TRANSLATION 2 Credit Hours
Introductory course in which students translate a variety of non-specialized, nonfiction short texts in different domains; identify the most common semantic, syntactic, stylistic, cultural and discourse-level problems encountered in translation; and apply appropriate cognitive strategies.
Prerequisite: Graduate standing.
Pre/corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

TRST 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Write a thesis on a topic dealing with translation studies carried out under the supervision of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 60298 APPLIED TRANSLATION RESEARCH 1-3 Credit Hours
(Repeatable for credit) Research experience in translation or interpreting in a corporate, translation bureau or freelance setting, supervised by a faculty member.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Write a thesis on a topic dealing with translation studies carried out under the supervision of a faculty member.
Prerequisite: TRST 61099; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 60630 CAREER PATHS IN THE LANGUAGE INDUSTRY 3 Credit Hours
This course adopts a holistic approach to career management and planning in the language industry. It involves self-assessment of interests, values and skills and a deep understanding of career development theories and the job search process. Students gain insights into their own narratives, constructing new meanings and engaging in dynamic career exploration, and master using a range of career, vocational, educational, occupational and labor market information resources and systems. They develop the ability to integrate self-knowledge and industry awareness into their decision-making processes, enabling them to set meaningful goals and devise effective strategies to navigate career challenges in a complex global economy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70001 APPLIED LINGUISTICS AND TRANSLATION INFORMATICS 3 Credit Hours
Advanced topics in applied linguistics, including corpus and text linguistics as they apply to translation. Advanced topics in translation informatics in multilingual environments.
Prerequisite: TRST 60011; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70002 THE LANGUAGE INDUSTRY 3 Credit Hours
Study of the socio-economic context of professional translation and the language services business sector. Includes in-depth study of the language industry drawing on industry analysis and business case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70003 TERMINOLOGY STUDIES 3 Credit Hours
Advanced topics in terminology, lexicography, ontology and knowledge organization systems.
Prerequisite: TRST 60011; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70004 TRANSLATION PEDAGOGY 3 Credit Hours
Teaching methods and curriculum design for translation programs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70005 CURRENT TRENDS IN TRANSLATION STUDIES 3 Credit Hours
A critical examination of the main trends in translation theory and an exploration of emerging developments in translation studies.
Prerequisite: TRST 60010; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70006 EMPIRICAL METHODS FOR TRANSLATION STUDIES 3 Credit Hours
Study of the methods and research designs used to conduct empirical research in translation, with an emphasis on experimental design of cross-language tasks; the use and analysis of bilingual verbal protocols; the application of new methods, such as keystroke-logging and eye-tracking; and the particular empirical and methodological issues involved in cross-language research data-gathering and statistical analysis.
Prerequisite: Translation studies major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

TRST 70007 CORPORA IN TRANSLATION 3 Credit Hours
Exploration of corpus-based applications in translation studies research and the practice of translation. Competence in utilizing translation-oriented corpus-based tools and corpus building will be fostered.
Prerequisite: Translation studies major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70008 TRANSLATION AND COGNITION 3 Credit Hours
Study of foreign language translation and interpreting from a cognitive science perspective. Includes discussion of current empirical research; application of selected models of cognition to problems in translation studies; and research design in translation process research.
Prerequisite: Translation studies major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70009 THEORY AND PRACTICE OF INTERPRETING 3 Credit Hours
(Slashed with TRST 50009) Survey of the theory and practice of unimodal (spoken word) interpreting in its multiple contexts: conference, medical, judicial, liaison, and media interpreting, with an emphasis on community interpreting. Stakeholders, discourses, modalities, and environments; characteristics of interpreted speech; identities and intervenient roles of interpreters (coordinators, co-participants, diplomats); professionalization and 'volunteerization'; ethics and protocols; research paradigms and future directions; quality and assessment; legal frameworks and language policy; histories of interpreting. Pedagogies of dialogue interpreting [process, interactive, demand-control schema; cognitive and effort models]; memory; technologies; terminology. Course conducted in English.
Prerequisite: Doctoral standing; and Translation Studies major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70095 SPECIAL TOPICS IN TRANSLATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with TRST 40095 and TRST 50095) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 80091 SEMINAR IN TRANSLATION STUDIES 3 Credit Hours
(Repeatable for credit) Seminar for doctoral students to present and discuss research related to specific areas of translation studies. May be taken for a total of 6 credit hours, either alone or in combination with TRST 80191.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

TRST 80095 SPECIAL TOPICS IN TRANSLATION STUDIES 1-3 Credit Hours
(Repeatable for credit) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 80098 RESEARCH IN TRANSLATION STUDIES 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activities about topics in translation studies under faculty supervision with departmental approval. The work for this course should result in a paper, presentation or some other appropriate gradable product.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory

TRST 80191 SEMINAR IN TRANSLATION INFORMATICS 3 Credit Hours
(Repeatable for credit) Seminar for doctoral students to present and discuss research related to specific areas of translation informatics. May be taken for a total of 6 credit hours, either alone or in combination with TRST 80191.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

TRST 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation. Registration in at least two semesters is required the first of which will be the semester in which dissertation work begins and continuing until 30 hours are completed.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met.
Prerequisite: TRST 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

University College (UC)

UC 10001 FLASHES 101 1 Credit Hour
(Equivalent to UC 10002 or UC 20007) Course aims to foster a university-wide sense of belonging; promote engagement in the curricular and co-curricular life of the university; articulate what students can expect from and contribute to their community; and help students continue to clarify their purpose, meaning and direction. This course is required for all new degree-seeking, first-time students to Kent State. The course is not required for transfer students with 30 or more credit hours or students who are admitted as an adult student.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

UC 10002 ADULT STUDENT ORIENTATION 1 Credit Hour
(Equivalent to UC 10001) Course focuses on balancing adult roles and responsibilities with college demands. Students sharpen learning skills and study strategies while making connections with other adult students at Kent State.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

UC 10095 SPECIAL TOPICS IN UNIVERSITY COLLEGE 1-3 Credit Hours
(Repeatable for credit) Variable topics course that covers areas not treated adequately in traditional coursework related to student success and the student experience.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UC 10096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) Experiential learning opportunity, working with a faculty member in his or her area of expertise.
Prerequisite: None.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP

UC 10162 INTRODUCTION TO PROFESSIONAL DEVELOPMENT 1 Credit Hour
Course exposes students to professional skills and competencies they will need and use in the future. Students begin to develop important career ready competencies. Students learn about the art of networking and relationship building, what it means to be culturally agile, how to succinctly present themselves (elevator pitch and executive summaries), how to use career job sites and resources for career exploration and-or researching companies. Students must have satisfactorily completed UC 10001 before taking this course.
Prerequisite: Ambassador Crawford College of Business and Entrepreneurship major or College of Applied and Technical Studies major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 10192 EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR) 1 Credit Hour
(Repeatable for maximum 2 credits) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

UC 20007 LIFE BEYOND KSU 1 Credit Hour
(Equivalent to UC 10001) Equips students with the knowledge and tools critical for entering the professional world through research and application of career-related concepts and activities. Reserved for students who have not successfully completed the Flashes 101 course.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 20010 CAREER NAVIGATION: CONSTRUCTING POSSIBILITIES 2 Credit Hours
Navigating a career and life planning can be complex. Course is designed to equip students with self-awareness, knowledge and skills useful in deciding how to use opportunities to build meaningful futures and how to maintain flexibility and adaptability in the work environment. Students learn how to balance planning with uncertainty and navigate a lifetime of meaningful occupational realities. Through experiential activities, discussions and reflective exercises, students gain self-understanding and connect academic opportunities to careers and specializations in career fields. Designed for students who have not yet declare a major, are interested in finding personal meaning and mattering in occupational and life decisions or are contemplating or engaged in life and career exploration or change.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

UC 20011 CAREER CONFIRMATION 1 Credit Hour
This course is designed to support students as they develop a professional self-image, explore their personal work values and learn about important decision-making skills needed to navigate the workforce. Through hands-on application, activities and reflective exercises, students will develop skills needed to network with professionals, approach work with an equitable perspective and practice, and connect vocational identity to community belonging. This course is designed for exploratory students who are close to a decision, or students with a declared major who are exploring post-graduation paths. This course will support the student's journey to build a professional mission that guides the development of short- and long-term career goals.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 20095 SPECIAL TOPICS IN UNIVERSITY COLLEGE 1-3 Credit Hours
(Repeatable for credit) Variable topics course that encourages interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UC 20193 VARIABLE TITLE WORKSHOP IN UNIVERSITY COLLEGE 1-3 Credit Hours
(Repeatable for credit) Workshop focused on variable topics.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

UC 20201 PEER SUCCESS ACADEMY 2 Credit Hours
The P.E.E.R. (Peer Experiential Education and Reflection) Success Academy is designed to train students to cultivate and nurture critical skills that serve as a foundation for peer educator positions across Kent State University. The course curriculum is designed to be hands on, immersing students in skill development with content pertaining to mentorship, leadership, group dynamics, personal strengths, problem solving, value free advice, diversity, equity, inclusion and belonging, emotional intelligence, conflict management and self-wellness.
Prerequisite: UC 10001.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

UC 20203 THEORY AND PRACTICE OF PEER TUTORING 1 Credit Hour
Preparation for tutoring in several academic areas. Emphasis on the student as learner. Introduction to current learning theories. Opportunities provided to adapt learning strategy to particular disciplines. Field experience included.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 20250 COLLEGIATE LEADERSHIP COMPETITION 2 Credit Hours
This experiential, competency-based course is designed to help students become more aware of a wide range of managerial and leadership concepts. Students will develop leadership skills and gain an opportunity to build their resume and professional network. This course will increase the student's understanding of personal strengths and areas for improvement by stretching them to the boundaries of their knowledge, skills, and abilities. Likewise, students will build skills around ethical decision making, problem solving, negotiation, conflict management, and presentation skills. Students will represent Kent State University at the Collegiate Leadership Competition against other schools in the Great Lakes Region.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

UC 20260 (R)EVOLUTION LEADERSHIP 1 Credit Hour
The (R)evolution leadership course is an experiential, competency-based course designed to equip students with the tools and the introspection they need to be successful leaders and engaged community members in a complex and ever changing landscape. Students are taken through a series of leadership modules and develop a capstone project that will utilize the skills they have gained and make a positive impact on the community.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 20292 EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR) 1 Credit Hour
(Repeatable for maximum 2 credits) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

UC 30202 FLASHES 101: PEER SUCCESS MENTOR SEMINAR 2 Credit Hours
(Repeatable a maximum of 4 credits) Required of all student success leaders who are paired with a faculty member in assisting with UC 10097. Students need to meet the minimum requirements for the college or department in which they serve as a student success leader.
Prerequisite: UC 20201.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

UC 30392 EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR) 1 Credit Hour
(Repeatable for credit) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

UC 31000 MCNAIR RESEARCH METHODS I 1 Credit Hour
This course is part one of the McNair Research Methods series, which provides students in the McNair Scholars Program with practical research skills and professional development. The primary goal of the course is to prepare you to successfully complete all stages of your faculty-mentored independent research projects and to explore options for graduate study.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 31001 MCNAIR RESEARCH METHODS II 1 Credit Hour
This course is part two of the McNair Research Methods series. This course will continue to provide students in the McNair Scholars Program with practical research skills and professional development. The primary goals of the course are to prepare Scholars to successfully complete all stages of their faculty-mentored independent research projects and prepare for graduate study.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 40010 MCNAIR SCHOLARS SEMINAR I 1 Credit Hour
McNair Scholars are required to take this course after participation in Summer Research Institute. The course provides training related to the graduate school application process. This course will assist scholars with applying to graduate school programs, further developing research projects, and navigating the personal, professional and technical challenges in completing a graduate degree. The prerequisites for this course are acceptance to the McNair Scholars Program and successful completion of the Summer Research Institute.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 40201 PEER SUCCESS TRAINER SEMINAR 3 Credit Hours
Course provides training and skill development for experienced student leaders involved in assisting with training student peers enrolled in UC 20201, P.E.E.R. Success Academy.
Prerequisite: UC 30202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UC 40202 FLASHES 101: PEER SUCCESS COACH SEMINAR 3 Credit Hours
The seminar course is designed for Peer Success Coaches to develop effective coaching strategies, methods, and habits to support Peer Success Mentors in their role. Throughout the course, Peer Success Coaches will learn how to develop, implement, and facilitate group check-in activities that position the Peer Success Mentors to cultivate a peer success network within the larger group for support.
Prerequisite: UC 30202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UC 40492 EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR) 1 Credit Hour
(Repeatable for credit) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

UC 41010 MCNAIR SCHOLARS SEMINAR II 1 Credit Hour
McNair Scholars are required to take this course after participation in Summer Research Institute. This course provides training related to the graduate school application process. This course will assist scholars with applying to graduate school programs, further developing research projects, and navigating the personal, professional, and technical challenges in completing a graduate degree. Registration is restricted to McNair Scholars. The prerequisites for this course are acceptance to the McNair Scholars Program and successful completion of the Summer Research Institute.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

Urban Design (UD)

UD 55705 FORCES THAT SHAPE CITIES 1-3 Credit Hours
(Repeatable for maximum 3 credit hours) Course examines the forces that have shaped urban form through history, how they impact our cities today and the challenges they will pose for the future.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

UD 60701 URBAN DESIGN STUDIO I 3-6 Credit Hours
Introduction to urban design and its relationship to other design disciplines through the analysis of neighborhoods and the definition of comprehensive area improvement programs.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6-10 other
Grade Mode: Standard Letter

UD 60702 URBAN DESIGN STUDIO II 3-6 Credit Hours
Urban design explorations of the formal relationships between buildings, open spaces and street sin the development of high density, mixed-use projects.
Prerequisite: UD 60701; and graduate standing.
Schedule Type: Studio
Contact Hours: 6-10 other
Grade Mode: Standard Letter

UD 60703 URBAN DESIGN STUDIO III 3-6 Credit Hours
Design of a comprehensive redevelopment strategy and implementation strategies for an urban area of diverse existing character.
Prerequisite: UD 60701 or UD 60702; and graduate standing.
Schedule Type: Studio
Contact Hours: 6-12 other
Grade Mode: Standard Letter

UD 60705 MASTER PROJECT IN URBAN DESIGN PREPARATION 1-3 Credit Hours
(Repeatable for maximum three credit hours) Development of a rationale and structure for the independent design project to be completed in the final semester of the program.
Prerequisite: UD 60703; and graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

UD 60798 MASTERS PROJECT IN URBAN DESIGN 6-9 Credit Hours
Independent urban design project, completed under the direction of an individual advisor selected from the graduate faculty.
Prerequisite: UD 60703 and 60705; and graduate standing.
Schedule Type: Master's Project
Contact Hours: 10-15 other
Grade Mode: Standard Letter-IP

UD 65101 COMMUNITY DEVELOPMENT PROCESS 1-3 Credit Hours
Advanced course on comprehensive community development. Case study analysis, qualitative research and work with community initiatives are required.
Prerequisite: UD 55705 and 60703 and 65102; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UD 65102 URBAN SYSTEMS 1-3 Credit Hours
Introduction to urban systems in its socio-economic, environmental and engineering aspects: residential fabric, commercial sector, open space network, transportation systems, and infrastructures.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

UD 65632 URBAN ECOLOGICAL SYSTEMS 3 Credit Hours
Study of how ecological systems in highly anthropocentric environments provide necessary ecological services. Emphasized is the role that water plays in activating the supporting, provisioning, regulating, and cultural ecosystem services required for human well-being.
Prerequisite: UD 65102; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UD 66896 URBAN DESIGN PRACTICUM PROJECT 2-4 Credit Hours
Culminating experience that combines research and urban actions/interventions.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 6-12 other
Grade Mode: Standard Letter

UD 66995 SPECIAL TOPICS IN URBAN DESIGN 1-4 Credit Hours
(Repeatable for credit) Special topics in urban design.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

User Experience (UX)

UX 60501 INTRODUCTION TO USER EXPERIENCE 3 Credit Hours
This course provides a comprehensive overview of User Experience (UX) from various perspectives, including the origins of UX as a professional discipline, the goals and values of UX within organizations, and elements of UX practice. It further introduces roles and contributions of specialization areas within UX, as well as the principles of user experience design. Students will develop and document their professional development goals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60502 USER EXPERIENCE PROCESSES AND PRACTICE 3 Credit Hours
Students engage in a structured walkthrough of the major goals, responsibilities, and elements of User Experience (UX) in an agile environment. This course introduces important models of iterative design processes and the professional practices of research, design, prototyping, testing and team communication. Students will explore personal goals for specialization in UX.
Prerequisite: Graduate standing.
Pre/corequisite: UX 60501.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60503 FUNDAMENTALS OF INTERACTION DESIGN 3 Credit Hours
This course offers students a comprehensive understanding of interaction design principles and their practical implementation. It covers the concept of prototyping, enabling students to create their own prototypes, and refine them based on peer feedback.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60504 ACCESSIBILITY AND UNIVERSAL DESIGN 3 Credit Hours
This course will provide user experience researchers and designers with the skills to evaluate technology accessibility, as well as an understanding of the principles of universal design and how they guide and influence the design of digital experiences
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60511 INFORMATION ARCHITECTURE FUNDAMENTALS 3 Credit Hours
Introduction to the fundamental concepts of information architecture (IA) and underlying cognitive processes of concept structure and information categorization. Students develop practical skills for content analysis and the design and evaluation of information architectures. Major topics include organization, navigation, labeling and design for finding.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60521 DATA-DRIVEN INTERACTION FUNDAMENTALS 3 Credit Hours
Recent technological advances, particularly in machine learning (ML) and artificial intelligence (AI), have ushered in a new era of data-driven interactions between users and technology. This course is designed to prepare students for UX careers in these data-driven environments by providing a fundamental understanding of data, databases, ML, and AI. Students will explore the future of user experience shaped by ML and AI and discuss the ethical dimensions of this evolution, including issues of fairness, accountability and transparency.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60531 DISCOVERY RESEARCH FUNDAMENTALS 3 Credit Hours
In order to design a successful user experience, UX professionals seek to discover users' needs, goals and tasks. This course covers discovery research methods such as interviews, surveys, diary studies and other methods applicable to the formative stages of the design process.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60541 USER EXPERIENCE EVALUATION FUNDAMENTALS 3 Credit Hours
Evaluating prototypes and products is a critical component of user experience design. This course covers qualitative and quantitative evaluation methods, such as heuristic evaluation, cognitive walkthrough, usability testing, A/B testing and experimental design. Students will learn how to choose evaluation methods, how to conduct them and how to communicate the results of evaluations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60691 SEMINAR IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with UX 80691) Advanced research by students who are qualified to examine problems of certain special areas in user experience.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

UX 60693 VARIABLE TITLE WORKSHOP IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) Intensive examination of special topics of interest to those involved in user experience.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

UX 60792 ELECTIVE INTERNSHIP IN USER EXPERIENCE 2-3 Credit Hours
(Repeatable for credit) Supervised work experience in user experience design of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6.33-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

UX 61095 SPECIAL TOPICS IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with UX 81095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in user experience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UX 61096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit). Individual investigation in areas not covered by the existing curriculum for master's level students.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

UX 66199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: UX 60501 and UX 60502 and UX 60503 and UX 60504; and a minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

UX 66299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: UX 66199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

UX 80691 SEMINAR IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with UX 60691) Advanced research by students who are qualified to examine problems of certain special areas in user experience.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

UX 81095 SPECIAL TOPICS IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with UX 61095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in user experience.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UX 81096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit). Research or individual investigation in areas not covered by the existing curriculum for doctoral level students. Deliverables determined with instructor of record.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

User Experience Design (UXD)

UXD 20001 INTRODUCTION TO USER EXPERIENCE DESIGN 3 Credit Hours
Students explore the context within which User Experience Design exists and the fundamental research that explains human behavior and how that research informs design decisions. Students are also introduced to the basic design processes and deliverables employed by UXD professionals.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UXD 40104 USABILITY 3 Credit Hours
Provides a conceptual and practical overview of the processes and methods of usability testing such as development of test protocols, goals, facilitation, analysis and reporting of results. Actual usability tests are performed, using quantitative and qualitative methods and employing emerging software tools to facilitate data collection and analysis.
Prerequisite: UXD 20001.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

UXD 41095 SPECIAL TOPICS IN USER EXPERIENCE DESIGN 1-3 Credit Hours
(Repeatable for credit) Topics could include current or emerging issues in user experience design. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UXD 41096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE DESIGN 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

Veterinary Technology (VTEC)

VTEC 10001 INTRODUCTION TO VETERINARY TECHNOLOGY 2 Credit Hours
Introduction to veterinary technician's career: medical terminology, career choices, occupational safety, human-animal bond, pet loss, euthanasia, animal husbandry and basic nutrition and basic animal behavior.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VTEC 10002 VETERINARY NURSING I 3 Credit Hours
Introduction to animal nursing: record keeping, kennel sanitation, animal restraint, syringe and needle identification/handling, injection techniques, physical exams, grooming and administration of medications and breed identification.
Prerequisite: Admission to technical study; and veterinary technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

VTEC 10003 VETERINARY PHARMACOLOGY I 2 Credit Hours
This is the first of two courses in the Veterinary Technology program that presents an introduction to the principles of pharmacology for the Veterinary Technician. The course will provide an overview of veterinary pharmacology and therapeutics, including a basic understanding of pharmacokinetics, terminology, prescription writing, methods of administration, controlled substance use and regulations and dosage calculations.
Prerequisite: CHEM 10050 or CHEM 10055; and VTEC 10001 and VTEC 10002 and VTEC 10204.
Pre/corequisite: VTEC 10205.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VTEC 10204 CLINICAL LABORATORY I 3 Credit Hours
Introduction to clinical laboratory: equipment and equipment maintenance; internal and external parasites; urinalysis. Lecture 2 hours, laboratory 3 hours weekly.
Prerequisite: Veterinary technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

VTEC 10205 VETERINARY NURSING II 3 Credit Hours
Clinical application off-site. Emphasis on skills from VTEC 10002; physical exam, medications, blood vessels catheterization, venipuncture; fluid therapy, wound care, patient rehabilitation and physical therapy, first aid, bandaging and CPR.
Prerequisite: Minimum C grade in all the following courses: BSCI 10005 and CHEM 10050; or CHEM 10055; and VTEC 10002 and VTEC 10204.
Pre/corequisite: VTEC 10001.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.7 lecture, 5 lab
Grade Mode: Standard Letter

VTEC 20001 NUTRITION OF DOMESTIC ANIMALS FOR VETERINARY TECHNICIANS 2 Credit Hours
Students will gain a basic understanding of clinical nutrition for domestic animals, both small and large, for various life stages and illnesses. Concepts will include nutrient composition, reading pet food labels, evaluation pet foods, understanding specialty, prescription, and alternative diets, use of various feeding tubes and their application to domestic animals and understanding illnesses that can occur due to improper nutrition.
Prerequisite: VTEC 10001 and VTEC 10002 and VTEC 10204.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VTEC 20002 DISEASES OF DOMESTIC ANIMALS FOR VETERINARY TECHNICIANS 2 Credit Hours
Students will gain knowledge of disease and pathology in domesticated large and small animal species. Discussion of the immune system and it's role in disease, classifications of disease, basic vaccination protocols, preventative medicine, as well as the etiology, clinical signs, treatment and control of diseases of domestic animals will take place.
Prerequisite: VTEC 10001 and VTEC 10205 and VTEC 20008 and VTEC 20215.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VTEC 20003 VETERINARY PHARMACOLOGY II 2 Credit Hours
Course includes continuation of dosage calculations, classification of medication including indications, side effects and contraindications of commonly used veterinary drugs.
Prerequisite: CHEM 10050 or CHEM 10055; and VTEC 10003 and VTEC 10205.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VTEC 20008 CLINICAL LABORATORY II 3 Credit Hours
Continuation and application of laboratory skills from Clinical Laboratory I; hematology, serology, cytology and other laboratory skills. Lecture 2 hours, laboratory 3 hours weekly.
Prerequisite: Minimum C grade in the following courses: BSCI 10005 and CHEM 10050; or CHEM 10055; and VTEC 10002 and VTEC 10204.
Pre/corequisite: VTEC 10001 and VTEC 10205.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.7 lecture, 5 lab
Grade Mode: Standard Letter

VTEC 20009 LARGE ANIMAL NURSING 3 Credit Hours
Continuing nursing skills/techniques emphasizing large animal species: restraint, venipuncture, behavior, breeds, feedstuffs, food safety, meds, preventive care, surgical procedures, lameness.
Prerequisite: BSCI 10110 and CHEM 10050 (or CHEM 10055) and VTEC 10001 and VTEC 10002 and VTEC 10204 and VTEC 10205 and VTEC 20008 and VTEC 20010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.7 lecture, 5 lab
Grade Mode: Standard Letter

VTEC 20010 IMAGING TECHNIQUES 3 Credit Hours
Principles and application of the production of X-rays, processing, radiation safety, storage, patient positioning and other imaging techniques.
Prerequisite: BSCI 10005 and CHEM 10050 (or CHEM 10055) and VTEC 10001 and VTEC 10002 and VTEC 10003 and VTEC 10204 and VTEC 10205 and VTEC 20008.
Pre/corequisite: VTEC 20003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.7 lecture, 5 lab
Grade Mode: Standard Letter

VTEC 20212 SURGERY AND ANESTHESIA 3 Credit Hours
Principles and application of the use of anesthetics, patient monitoring, dental prophylaxis, pre-surgery preparation, post-surgical patient care, sterilization, surgical preparation and assisting and equipment maintenance.
Prerequisite: Minimum C grade in the following courses: BSCI 10005 and CHEM 10050 (or CHEM 10055) and VTEC 10001 and VTEC 10002 and VTEC 10003 and VTEC 10204 and VTEC 10205 and VTEC 20008.
Pre/corequisite: VTEC 20003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.7 lecture, 5 lab
Grade Mode: Standard Letter

VTEC 20215 VETERINARY OFFICE APPLICATIONS 1 Credit Hour
Overview of veterinary practice management including veterinary medical record keeping, marketing, staff responsibilities, interoffice communications and public relation techniques. Automated veterinary office processing and record-keeping. Computer hardware and software commonly found in small to mid-sized veterinary practices described along with office procedures and work flow.
Prerequisite: BSCI 10005 and VTEC 10001 and VTEC 10002 and VTEC 10204.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

VTEC 20216 LABORATORY AND EXOTIC ANIMAL MEDICINE 2 Credit Hours
Introduction to laboratory medicine and management, including basic husbandry, common diseases, and treatment protocols for various laboratory animal species, pocket pets, avian and exotic species. The student will learn scientific names and primary use of common laboratory animals and will practice restraint, sexing, appropriate methods of venipuncture, administration of medications and anesthetic techniques.
Prerequisite: VTEC 10001 and VTEC 10205 and VTEC 20003 and VTEC 20008 and VTEC 20010 and VTEC 20212.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

VTEC 20392 PRACTICUM IN VETERINARY HOSPITAL (ELR) 5 Credit Hours
(Repeatable for credit)Students gain practical experience in veterinary clinic or approved clinical site to focus on mastery of all clinical skills needed for this career.
Prerequisite: BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.
Corequisite: VTEC 20213 and VTEC 20214.
Schedule Type: Practical Experience
Contact Hours: 5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Visual Communication Design (VCD)

VCD 13000 VISUAL DESIGN THINKING 3 Credit Hours
Introduction to design thinking, including the principles, processes and applications, and how to improve an existing product or design a new concept. Students will explore the language of design, how it is influenced by form, content and context. Focus will be placed on design theory, brainstorming, ideation, two-dimensional design, environmental design, typography, illustration, motion, photography and interactive media.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 13001 INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO 3 Credit Hours
An introduction to basic design processes using research, writing, conceptual problem-solving and format organization of two dimensional space utilizing type and imagery. The course structure and projects are designed to challenge the student to manipulate the elements of graphic design in an experimental way, and to develop critical thought and aesthetic response. The projects utilize different compositional elements (abstract shapes, letterforms, images) as a way to learn the basic principles of two-dimensional design—hierarchy, unity, balance, contrast, alignment, repetition. Students will use several methods of design development—sketching, tracing, detailed drawings, computer renderings, research of existing work, class discussions and critiques. Software will be used to develop final compositions.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 17000 COLOR: THEORY AND APPLICATION 3 Credit Hours
This course provides students with an in-depth discovery and application of color theory through practical hands-on experience using paint and collage techniques. A sequence of exercises, problems, and lectures are designed with specific color objectives in mind, providing students with a direct physical experience of color structure and interconnections, and how they impact the eye and mind. Visual examples and media demonstrations, including hand techniques, mixing color, applying paint and exploring cut and torn collage elements are provided to enhance learning objectives and creative outcomes. Projects are based on the relative effects of hue, saturation, color temperature and value. The language of color is both intentional and efficient.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 18002 PHOTOGRAPHY II 3 Credit Hours
Course further develops basic technical information and introduces studio lighting techniques and protocols. The class is studio-based and introduces and explores gaining command of continuous lighting source (LED), composition, studio practices: The technical information will be supplemented with a series of photographic assignments that apply this information.
Prerequisite: CCI 12001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 20010 DESIGN RESEARCH AND METHODS 3 Credit Hours
This course is an introduction to research methods used in the professional practice of visual communication design. Students are exposed to strategies, tactics and frameworks used in the creation of design artifacts. Students will gain an understanding of research strategies, tactics, tools and applied use through a combination of classroom lectures, readings, online forums, homework assignments and group discussion.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 22000 DESIGN/ILLUSTRATION TECHNIQUES I 3 Credit Hours
Introductory course in design/illustration. Object drawing with emphasis toward rendering materials and techniques used in reproduction, perspective, spacial organization and use of reference material.
Prerequisite: VCD 13000; and a minimum B- grade in VCD 13001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 22001 DESIGN/ILLUSTRATION TECHNIQUES II 3 Credit Hours
Continuation of Design Illustration Techniques I foundational drawing and composition skills. Introduction to color theory as it applies to illustration and design. Students explore color mixing and color schemes through traditional watercolor and digital color approaches.
Prerequisite: VCD 22000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 23001 TYPOGRAPHY I 3 Credit Hours
Historical study of letter forms and their application to the development of new forms. Execution and use of letter forms as design elements in layout and illustration using fundamental typographic theories and rules of spatial organization.
Prerequisite: VCD 13000; and a minimum B- grade in VCD 13001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 25000 DESIGN HISTORY AND THEORY 3 Credit Hours
This course is a chronological overview of design history and theory. Together we will examine design history and schools of thought, with a strong focus on the impact of the industrial revolution. We will explore aesthetics and theory and how art, architecture, and craft guilds shaped the modern design profession. Topics include the early alphabet, print, processes, illustration, photography, corporate design, modern design, and the advent of the GUI interface and modern digital design. Students will look at design history starting with the eighteenth century and working our way through the industrial revolution, Dadaism, World War I and II, Postmodernism, the rise of consumerism, social responsibility and the evolving role of the designer. This course has an inclusive perspective of design history, researching beyond the Bauhaus and Swiss perspective, looking at influences from Japan, Brazil, Morocco and Turkey. We will study various design heroes from minority communities and how religion has influenced design. This course also introduces students to female design leaders and their unique contributions to the design profession.
Prerequisite: VCD 13000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 28003 DIGITAL IMAGING I 3 Credit Hours
Designed to give students an intermediate working knowledge of the digital photographic workflow, including intermediate Photoshop editing skills, an overview of Adobe Raw, Bridge and Lightroom along with color calibration and color management tools. Students will complete a series of photographic assignments to which they will apply this information.
Prerequisite: CCI 12001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 28004 PHOTOGRAPHIC PERSPECTIVES 3 Credit Hours
Examines the use of the photographic medium in the context of the commercial marketplace. Discusses the advancement of material processes, provides a comprehensive overview of commercial imagery and market development, examines industry trends, and introduces several theoretical criticisms pertaining to constructed photography.
Prerequisite: Photography major or minor or photo journalism major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 32000 ILLUSTRATION I 3 Credit Hours
Continuation of Design Illustration Techniques I and II with emphasis on technique and creative solutions as they apply to specific illustration areas: narrative, editorial, book, advertising and institutional.
Prerequisite: VCD 20010, VCD 22001 and VCD 33000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 32001 ILLUSTRATION II 3 Credit Hours
Illustration as communication: conceptual problem-solving visualizations of ideas utilizing felt tip markers as the medium of expression.
Prerequisite: VCD 32000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 33000 GRAPHIC DESIGN I 3 Credit Hours
Studio course covering the structuring of two-dimensional communication design utilizing headline, body copy and illustration with the addition of conceptual content. The projects employ systems thinking, utilize design research methods and introduce principles of information design.
Prerequisite: Minimum B- grade in VCD 23001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 33001 GRAPHIC DESIGN II 3 Credit Hours
Continuation of Graphic Design I, utilizing basic layout with emphasis on concept as applied to problem-solving methodologies through a series of exercises and problems.
Prerequisite: VCD 33000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 33101 INTERACTION DESIGN I 3 Credit Hours
The conceptualization and prototyping of interactive experiences.
Prerequisite: EMAT 33310 or VCD 23001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 34004 VISUAL ETHICS 3 Credit Hours
Course topics include the understanding of visual form, the responsibility of the designer, photographer and illustrator, and those working in collaboration with visual communicators. Topics covered include image manipulation, copyright laws, ethical and professional guidelines, sustainable design practices and acting as an advocate of the consumer and audience member. Discussion topics include credibility, dignity and developing a personal philosophy towards visual ethics.
Prerequisite: EMAT 10010 or UXD 20001 or VCD 13000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 34005 ELEMENTS OF BRAND DESIGN 3 Credit Hours
This course is an introduction to the creative process of designing brand communications. Key components include identity elements, packaging programs and other brand experiences.
Prerequisite: VCD 20010 and VCD 22001 and VCD 33000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 38004 ADVANCED PHOTOGRAPHY 3 Credit Hours
Introduction of professional strobe lighting equipment, materials and techniques along with the development of conceptual abilities and problem solving skills as applied to studio portraiture, still life, and location photography. Special lighting equipment and accessories furnished.
Prerequisite: VCD 18002.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 38007 PHOTOGRAPHY TECHNIQUES 3 Credit Hours
Explorations of current influences, innovations and trends in photography. Projects can include interdisciplinary collaborations such as the intersection of photojournalism and commercial photography, architecture and photography and others.
Prerequisite: VCD 48005.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 38011 EDITORIAL PHOTOGRAPHY 3 Credit Hours
This course explores and develops the style and protocols unique to editorial photography. Exploring and understanding visual storytelling; research methods and techniques; differences between advertising, fine art and editorial photography. Course will emphasize multiple styles of editorial work including portraiture, environmental, fashion, studio and location assignments. The importance of design along with critical thinking skills in image creation along with discussion of locations, model releases, editing, captioning, etc. will also be covered.
Prerequisite: VCD 28003 and VCD 38004.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 40035 PROFESSIONAL PORTFOLIO BFA DESIGN 3 Credit Hours
Develop a professional portfolio in design and or illustration through selection and refinement of previously completed classroom work and development of projects in areas of deficiency, with emphasis on organization and presentation. Organization and participation in gallery show at the semester's conclusion.
Prerequisite: Visual communication design major within the bachelor of fine arts (BFA); and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 40053 GLYPHIX RESEARCH LABORATORY 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50053) Professional experience through a research focused design studio. Involves responsibilities and procedures for the research, conceptual development and production of design materials for stakeholders including (but not limited to) businesses, on-campus organizations, nonprofit organizations, charities, art groups and select on-campus research initiatives and departments.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 40089 GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50089) Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience.
Prerequisite: School of visual communication major or minor.
Schedule Type: International Experience, Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

VCD 40095 SPECIAL TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 1-3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50095) Explores topics of special interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

VCD 40096 INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION 1-8 Credit Hours
(Repeatable for a maximum of 16 credit hours)Individual study related to topics of graphic design and illustration approved by and under the direction of a faculty member.
Prerequisite: None.
Schedule Type: Individual Investigation
Contact Hours: 1-8 other
Grade Mode: Standard Letter-IP

VCD 40182 INTERNSHIP PREPARATION: DESIGN, ILLUSTRATION AND PHOTOGRAPHY 2 Credit Hours
Preparation for experience in studio, agency or company involving design, illustration or photography responsibilities and procedures to broaden a student's understanding of the profession through real world job situations. Through this course, students will gain a better understanding of the types of design, illustration and photography internships and jobs; how to develop materials (resume, cover letter, etc.) necessary for an entry level job search; and professional skills necessary for professional practice in design, illustration and photography.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VCD 40192 INTERNSHIP: DESIGN, ILLUSTRATION AND PHOTOGRAPHY (ELR) 1-4 Credit Hours
(Repeatable for credit) Experience in a design, illustration or photography studio, agency or company with responsibilities and to broaden a student's understanding of the profession through a real job situation.
Prerequisite: VCD 40182.
Schedule Type: Practical Experience
Contact Hours: 3-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

VCD 40193 VARIABLE TITLE WORKSHOP IN VISUAL COMMUNICATION DESIGN 1-3 Credit Hours
(Repeatable for credit)Workshop setting dealing with intensive examination of special topics in VCD.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

VCD 40195 SELECTED TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 1-3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50195) Explores selected topics of interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Visual Communication Design majors and minors or Photography majors and minors.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

VCD 40295 SELECTED TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50295) Explores selected topics of interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Visual Communication Design majors and minors or Photography majors and minors.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42002 EDITORIAL ILLUSTRATION 3 Credit Hours
(Slashed with VCD 52002) Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42003 ADVERTISING ILLUSTRATION 3 Credit Hours
(Slashed with VCD 52003) Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42005 CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE 3 Credit Hours
(Slashed with VCD 52005) Focuses on the application of the fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, advertising, editorial illustration and book illustration.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42006 CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS 3 Credit Hours
(Slashed with VCD 52006) This course focuses on the application of fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, book illustration, advertising, and editorial illustration.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42007 GRAPHIC NARRATIVE 3 Credit Hours
(Slashed with VCD 52007) This course fuses written and visual content, allowing students to both author and illustrate visual narratives. Through readings, various genres of written form are explored and both historical and emerging narrative formats within the field of illustration are emphasized.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43002 TYPOGRAPHY II 3 Credit Hours
(Slashed with VCD 53002) The use of typography (rather than visual imagery) as the primary design form in solving graphic design communication problems.
Prerequisite: VCD 33001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43003 IDENTITY SYSTEMS 3 Credit Hours
(Slashed with VCD 53003) This course is an in-depth investigation into the development of identity systems as a foundational visual design framework for communications. This includes the study of design of type, symbols, and pictorial elements as both singular marks and as a system. This is followed by the design of an overall communications program. The final product includes the documentation of design guidelines, through a rigorous process of research and analysis, creative ideation and design development.
Prerequisite: VCD 33001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43004 PROFESSIONAL COMMUNICATION FOR DESIGN 3 Credit Hours
(Slashed with VCD 53004) Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 43005 INTEGRATED BRAND DESIGN 3 Credit Hours
(Slashed with VCD 53005) This course explores the design and development of a comprehensive brand program. From design strategy and identity elements through a range of tactical applications and environments, it results in the documentation of an integrated brand program.
Prerequisite: VCD 34005.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43006 BRAND EXPERIENCES 3 Credit Hours
(Slashed with VCD 53006) This course investigates the unique design opportunities of communications in the built environment. It includes interpretive storytelling, identity, wayfinding, and placemaking and promotion for a variety of communication needs. Considerations include human scale, dimension, legibility, materiality, and fabrication. It follows a process of research and analysis, strategy, ideation, design development, and design intent documentation. Projects are often site specific and sometimes executed in small teams.
Prerequisite: VCD 34005.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43007 INFORMATION DESIGN 3 Credit Hours
(Slashed with VCD 53007) This course is an introduction to data visualizations and sequence-based information visualization. Students will focus on how design principles use composition, graphics, color, and typography to create news graphics; maps, charts, tables, and diagrams. Deliverables in this course will be both static and digital-based artifacts. Students must have intermediate knowledge in visual communication design (typography, color, composition, etc.) and skills in using Adobe Creative Suite (Illustrator, Photoshop, and InDesign). It is helpful if students have experience using Adobe Affects and have web design skills.
Prerequisite: EMAT 33310 or VCD 13001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43051 TYPE HIGH PRESS 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 53051) Students will explore aspects of letterpress printing. Course content will include typesetting, printing basics, and a brief history of movable type printing and typography. Students will work on a series of projects to acclimate themselves to the equipment and various printing techniques.
Prerequisite: VCD 33000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43060 TYPEFACE DESIGN 3 Credit Hours
(Slashed with VCD 53060) This course will serve as an introduction to the core principles of typeface design. It is a fast paced and challenging course with a requirement for a high level of engagement and research on the part of the student. Building on skills learned in other VCD classes, this is an advanced level course dealing with the underlying themes in typeface design and their relationship to the typographer's needs.
Prerequisite: VCD 23001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43101 INTERACTION DESIGN II 3 Credit Hours
(Slashed with VCD 53101) Students will continue their study of interaction design by working on two projects and two exercises. They will work to develop the content, to compile user research, structure the information architecture, design the interface and prototype their concepts. Students are encouraged to focus on a specific context and audience while demonstrating its use in a final prototype that represents a pathway of experience. Students will focus on the designer's role in the development of interactive spaces and communities, as well as the interdisciplinary exchange with other professionals (computer programmers, software developers, and marketing professionals). We will study human-computer interaction and focus on the needs of the user to create the best user experience. When possible, students will work on real-world projects that allow for collaboration with programmers and developers.
Prerequisite: VCD 33101.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 44001 EXHIBITION DESIGN 3 Credit Hours
The study of content, narrative development, consideration of space, and the use of materials and media in environmental and exhibition design. Includes working in scale, 2D and 3D rendering, physical and digital modeling.
Prerequisite: VCD 34005.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 44006 MOTION DESIGN I 3 Credit Hours
A studio course designed to teach the fundamentals of motion graphic design. Materials and information are delivered through a series of lectures, demos and hands-on exercises.
Prerequisite: EMAT 33310 or UXD 20001 or VCD 13001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 46003 EXPERIMENTAL TYPOGRAPHY 3 Credit Hours
(Slashed with VCD 56003) This course uses typography as an instrument for conceptual and creative expression and communication. Projects emphasize typographic research, process, experimentation and interpretation. Artifacts can range from screen-based solutions, print pieces, 3D experiences and more, with a strong emphasis on type.
Prerequisite: VCD 33001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter-IP

VCD 47000 VISUAL DESIGN FOR MEDIA 3 Credit Hours
(Slashed with VCD 57000) Apply design concepts to digitally-generated communication using a layout software program. This course is a survey of the basic principles of two-dimensional design, typography, design concepts and color theory. Class projects enable the student to explore visual design principles and processes, develop critical thinking about aesthetics and reflect on the impact of design on the users' comprehension and response. This course may not be used towards degree requirements by visual communication design majors.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

VCD 48001 PHOTOGRAPHIC PROJECT 3 Credit Hours
Provides students the opportunity to conceptualize, organize and produce a semester-long photographic project of their choice under the supervision of the course instructor. Projects will augment students' existing photographic portfolios.
Prerequisite: Photography major; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48002 ADVANCED PHOTOGRAPHIC PROJECT 3 Credit Hours
Continuation of VCD 48001. Each student will conceptualize, organize and produce a semester-long photographic project of their choice under the supervision of the course instructor. Projects will augment students' existing photographic portfolios.
Prerequisite: VCD 48001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48003 PROFESSIONAL PORTFOLIO PHOTOGRAPHY 3 Credit Hours
Students will create personal, professional portfolios (electronic and hard copy) developed through branding and identity explorations. Each portfolio will be a blend of the student's best work and career path desires and expressed through sophisticated grinding and design principles. Students will also develop and hang an exhibition of their student work in the Taylor Hall art gallery.
Prerequisite: Photography major; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48005 COLOR PHOTOGRAPHY 3 Credit Hours
This course introduces students to the technical and aesthetic considerations of color theory and practice in color photography. The main objective of the course is to combine an in-depth study of color theory with theoretical and practice-based systems and other color theory explorations. The course will also cover the technical aspects of color in photography, including management, implementation, color temperature, and digital color correction. Students will use these skills, their own research and lecture information and utilize them through a series of technical and aesthetic assignments to their own images created specifically for this course.
Prerequisite: VCD 28003 and VCD 38004.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48008 ADVANCED DIGITAL IMAGING 3 Credit Hours
This course emphasizes advanced techniques in the use of image editing software to develop workflow techniques and post-production and editing skills. Technical information will be supplemented with a series of photographic assignments that explore advanced application and usage of tools and skills covered as well as new Additional explorations into current digital technologies such as virtual reality, CGi generated imagery and compositing with made photography, Advanced compositing of multiple shoots into cohesive wholes, etc. Software used includes Photoshop, Lightroom, and Capture One Pro.
Prerequisite: VCD 28003 and VCD 38004.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48009 FASHION PHOTOGRAPHY 3 Credit Hours
Emphasis on editorial and advertising fashion photography. Students will explore: Fashion shoot protocols and techniques; Studio and Location Lighting Techniques, History and Theory of Fashion Photography, Fashion Shoot management. In partial collaboration with Fashion School BFA students along with live models on both studio and location shoots. The technical information will be supplemented with a series of photographic project assignments both in studio and on location.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48010 ARCHITECTURAL PHOTOGRAPHY 3 Credit Hours
(Slashed with VCD 58010) The course introduces and develops professional practice and techniques for expressing exterior and interior architectural space including image capture, composition, lighting, staging, technical and esthetic considerations, post-production, camera functionality, among others. Other explorations include Art in Architectural Photography and the Architectural Documentary. DSLR camera or equivalent is needed for this course. Refer to Recommended Camera List for suggestions, provided within syllabus.
Prerequisite: Junior standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48092 PRACTICUM IN PHOTOGRAPHY (ELR) 1-3 Credit Hours
(Repeatable for a total of 10 hours) Individual or group investigation into student selected areas of photographic field.
Prerequisite: Photography or visual communication design major; and junior and senior standing.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

VCD 49198 WRITING FOR PROFESSIONAL PRACTICE (ELR) (WIC) 2 Credit Hours
Course explores writing for creative professionals, including designers, photographers and illustrators. Students define and practice writing in the academic setting and the professional arena. Students practice writing creative briefs, proposals and contracts. They also develop estimates and grant proposals in order to secure funding and determine budgets. At the end of the semester, students practice presenting ideas through writing and oral presentations. Students are encouraged to combine course efforts by writing about a senior capstone project, an individual investigation or another project in an upper-level studio course. Writing about current or recent work helps students apply writing techniques in concrete and tangible scenarios.
Prerequisite: Senior standing.
Pre/corequisite: VCD 34004.
Schedule Type: Research
Contact Hours: 2 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement, Writing Intensive Course

VCD 49199 CAPSTONE PROJECT (ELR) 3 Credit Hours
(Repeatable for credit) A capstone project in design, illustration, or photography structured by the student (with approval by faculty), culminating in a final presentation or exhibit.
Prerequisite: VCD 13001; and senior standing.
Schedule Type: Lecture, Combined Lecture and Studio, Project or Capstone, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

VCD 50053 GLYPHIX RESEARCH LABORATORY 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40053) Professional experience through a research focused an internal design studio. Involves responsibilities and procedures for the research, conceptual development and production of design communication materials for stakeholders off-campus clients including (but not limited to) businesses, on-campus nonprofit organizations, nonprofit organizations, charities, art arts groups and selected on- campus groups and select on-campus research initiatives and departments.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 50089 GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40089) Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience.
Prerequisite: Visual Communication Design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 50092 INTERNSHIP-GRAPHIC DESIGN AND ILLUSTRATION 1-6 Credit Hours
(Repeatable for credit)Experience in design studio, agency or company involving design responsibilities and procedures to broaden a student's understanding of the profession through a real job situation.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 50095 SPECIAL TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 1-3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40095) Explores topics of special interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

VCD 50193 VARIABLE TITLE WORKSHOP IN VCD 1-3 Credit Hours
(Repeatable for credit) Workshop setting dealing with intensive examination of special topics in VCD.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

VCD 50195 SELECTED TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 1-3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40195) Explores selected topics of interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

VCD 50295 SELECTED TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40295) Explores selected topics of interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52002 EDITORIAL ILLUSTRATION 3 Credit Hours
(Slashed with VCD 42002) Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52003 ADVERTISING ILLUSTRATION 3 Credit Hours
(Slashed with VCD 42003) Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52005 CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE 3 Credit Hours
(Slashed with VCD 42005) Focuses on the application of the fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, advertising, editorial illustration and book illustration. Students must demonstrate proficiency in drawing to register for this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52006 CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS 3 Credit Hours
(Slashed with VCD 42006) This course focuses on the application of fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, book illustration, advertising, and editorial illustration.
Prerequisite: Master of fine arts (MFA) or master of arts (MA) in visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52007 GRAPHIC NARRATIVE 3 Credit Hours
(Slashed with VCD 42007) This course fuses written and visual content, allowing students to both author and illustrate visual narratives. Through readings, various genres of written form are explored and both historical and emerging narrative formats within the field of illustration are emphasized.
Prerequisite: Master of fine arts (MFA) or master of arts (MA) in visual communication design (VCD); and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53000 STUDIO PRODUCTION 3 Credit Hours
A technical lecture course designed to teach the fundamental techniques and processes of electronic prepress and printing production. This material is presented through a series of lectures, demos, written tests and field trips.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 53002 TYPOGRAPHY II 3 Credit Hours
(Slashed with VCD 43002) The use of typography (rather than visual imagery) as the primary design form in solving graphic communication problems.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53003 IDENTITY SYSTEMS 3 Credit Hours
(Slashed with VCD 43003) This course is an in-depth investigation into the development of identity systems as a foundational visual design framework for communications. This includes the study of design of type, symbols and pictorial elements as both singular marks and as a system. This is followed by the design of an overall communications program. The final product includes the documentation of design guidelines, through a rigorous process of research and analysis, creative ideation and design development.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53004 PROFESSIONAL COMMUNICATION FOR DESIGN 3 Credit Hours
(Slashed with VCD 43004) Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 53005 INTEGRATED BRAND DESIGN 3 Credit Hours
(Slashed with VCD 43005) This course explores the design and development of a comprehensive brand program. From design strategy and identity elements through a range of tactical applications and environments, it results in the documentation of an integrated brand program.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53006 BRAND EXPERIENCES 3 Credit Hours
(Slashed with VCD 43006) This course investigates the unique design opportunities of communications in the built environment. It includes interpretive storytelling, identity, wayfinding and placemaking and promotion for a variety of communication needs. Considerations include human scale, dimension, legibility, materiality, and fabrication. It follows a process of research and analysis, strategy, ideation, design development and design intent documentation. Projects are often site specific, and sometimes executed in small teams.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53007 INFORMATION DESIGN 3 Credit Hours
(Slashed with VCD 43007) This course is an introduction to data visualizations and sequence-based information visualization. Students will focus on how design principles use composition, graphics, color, and typography to create news graphics; maps, charts, tables, and diagrams. Deliverables in this course will be both static and digital-based artifacts. Students must have intermediate knowledge in visual communication design (typography, color, composition, etc.) and skills in using Adobe Creative Suite (Illustrator, Photoshop, and InDesign). It is helpful if students have experience using Adobe Affects and have web design skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53051 TYPE HIGH PRESS 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 43051) Students will explore aspects of letterpress printing. Course content will include typesetting, printing basics, and a brief history of movable type printing and typography. Students will work on a series of projects to acclimate themselves to the equipment and various printing techniques.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53060 TYPEFACE DESIGN 3 Credit Hours
(Slashed with VCD 43060) This course will serve as an introduction to the core principles of typeface design. It is a fast paced and challenging course with a requirement for a high level of engagement and research on the part of the student. Building on skills learned in other VCD classes, this is an advanced level course dealing with the underlying themes in typeface design and their relationship to the typographer's needs.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53101 INTERACTION DESIGN II 3 Credit Hours
(Slashed with VCD 43101) Students will continue their study of interaction design by working on two projects and two exercises. They will work to develop the content, to compile user research, structure the information architecture, design the interface and prototype their concepts. Students are encouraged to focus on a specific context and audience while demonstrating its use in a final prototype that represents a pathway of experience. Students will focus on the designer's role in the development of interactive spaces and communities, as well as the interdisciplinary exchange with other professionals (computer programmers, software developers, and marketing professionals). We will study human-computer interaction and focus on the needs of the user to create the best user experience. When possible, students will work on real-world projects that allow for collaboration with programmers and developers
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 54006 MOTION DESIGN I 3 Credit Hours
(Slashed with VCD 44006) A studio course designed to teach the fundamentals of motion graphic design. Materials and information are delivered through a series of lectures, demos and hands-on exercises.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 56003 EXPERIMENTAL TYPOGRAPHY 3 Credit Hours
(Slashed with VCD 46003) This course uses typography as an instrument for conceptual and creative expression and communication. Projects emphasize typographic research, process, experimentation and interpretation. Artifacts can range from screen-based solutions, print pieces, 3D experiences, and more, with a strong emphasis on type.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter-IP

VCD 57000 VISUAL DESIGN FOR MEDIA 3 Credit Hours
(Slashed with VCD 47000) Apply design concepts to digitally-generated communication using a layout software program. This course is a survey of the basic principles of two-dimensional design, typography, design concepts and color theory. Class projects enable the student to explore visual design principles and processes, develop critical thinking about aesthetics and reflect on the impact of design on the users' comprehension and response. This course may not be used towards degree requirements by visual communication design majors.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

VCD 58010 ARCHITECTURAL PHOTOGRAPHY 3 Credit Hours
(Slashed with VCD 48010) The course introduces and develops professional practice and techniques for expressing exterior and interior architectural space including image capture, composition, lighting, staging, technical and esthetic considerations, post-production, camera functionality, among others. Other explorations include Art in Architectural Photography and the Architectural Documentary. DSLR camera or equivalent is needed for this course. Refer to Recommended Camera List for suggestions, provided within syllabus.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 60010 DESIGN RESEARCH METHODS 3 Credit Hours
Introductory course to the design research methods employed in the professional practice of visual communication design. Students will gain an understanding of research strategies, tactics and tools, and will apply their use through a combination of readings, videos, online discussion and a final cumulative project. Focus will be directed on the design process, research and ideation skills, and understanding research methods in the context of today's design profession.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

VCD 60011 TYPOGRAPHIC STRUCTURES AND SYSTEMS 3 Credit Hours
Serves as an intensive introduction to typography and its application in visual communication design. Students will learn to create successful typographic compositions by controlling hierarchy, contrast, space, and grids. The course also covers the organization of information, and facilitates discussion and creative work on the effects of type choice and style in communication. Students will be familiarized with typography for print and screen-based environments.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 60012 CONCEPT DEVELOPMENT AND IMPLEMENTATION 3 Credit Hours
Serves as an intensive introduction to conceptual development and how it is implemented with form in visual communication design.
Prerequisite: VCD 60011; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 60013 GRAPHIC DESIGN ADVANCED 3 Credit Hours
Builds on typography and concept development. Students will gain experience combining layout, concept and problem-solving methodologies through a series of exercises and problems. Projects facilitate the student's ability to employ narrative and storytelling methods, along with design research, analysis, documentation and implementation. The structure of this course is designed to foster self-initiative. Exercises will be completed outside class time and students will be given a great amount of flexibility as they frame projects and decipher solutions to problems.
Prerequisite: VCD 60010, VCD 60011 and VCD 60012; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 60020 GRADUATE STUDIO IN VISUAL COMMUNICATION DESIGN 3 Credit Hours
(Repeatable for credit) Research based, hands-on studio course providing a context for collaborative and individual projects in design, illustration and/or photography.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter-IP

VCD 60091 GRADUATE SEMINAR IN VISUAL COMMUNICATION DESIGN 3 Credit Hours
(Repeatable for credit) Focuses on design theory and research methodologies pertaining to design. Content consists mostly of readings, discussions and student presentations.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

VCD 60094 PROFESSIONAL AND TEACHING DEVELOPMENT 3 Credit Hours
For VCD student teaching or who anticipate teaching in higher education. This experience also supports future careers in management, art direction and instructional roles in industry. Discussions include grading, critiques, classroom management and evaluation techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 60095 SPECIAL TOPICS IN GRAPHIC DESIGN/ILLUSTRATION 1-4 Credit Hours
(Repeatable for a maximum of 16 credit hours)To broaden course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. Used to fulfill primary studio requirements in graphic design and or illustration.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

VCD 60096 INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION 1-16 Credit Hours
(Repeatable for credit)Individual investigation related to topics of graphic design and illustration approved and under the direction of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-16 other
Grade Mode: Standard Letter-IP

VCD 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Independent research under the direction of a faculty member in the division of design/illustration.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

VCD 60099 MASTER OF ARTS PROJECT GRAPHIC DESIGN AND ILLUSTRATION 3 Credit Hours
A research project for M.A. students approved in consultation with the faculty adviser which culminates in a visual project exhibition and formal presentations.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Project or Capstone, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 60171 CRITICAL PRACTICES IN DESIGN RESEARCH 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 80171) This graduate seminar course introduces methods for integrating critical practices into larger communication design research agendas. The term “critical practices” includes three areas of design-centered inquiry: critical design, critical making, and design authorship.
Prerequisite: Master of fine arts (MFA) or master of arts (MA) in visual communication design major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 60191 ADVANCED RESEARCH 3 Credit Hours
Serves as the research intensive continuation of VCD 60091 Graduate Seminar. Students will focus on the development of their MFA thesis proposals by identifying a topic, investigating relevant literature and media, developing a thesis statement, and writing the full thesis proposal. Deliverables include a finished MFA thesis proposal, research schedule, and corresponding logic model.
Prerequisite: VCD 60091 and VCD 60094; and visual communication design major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

VCD 60200 DESIGN THEORY I: CULTURE, COMMUNITIES AND CONTEXT 3 Credit Hours
(Slashed with VCD 80200) Introduces students to design theory through a lens of classic and contemporary readings taken from various disciplines. This survey of perspectives assists students in developing their individual voice as a designer. Delves into issues that affect the field of graphic design and will continue to shape culture and history. Students are asked to question ideas of community and to expand on their ideas with examples through media and technology. Students critically question notions of history, psychology and social behaviors. The writing and criticism of advertising, communication, design artifacts and culture are the primary communication tool of the class, which is completed through papers and personal reflections.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 61099 GRADUATE PORTFOLIO/GRAPHIC DESIGN AND ILLUSTRATION 1 Credit Hour
A formal review of the work completed in the first 12 semester credit hours of graphic design and/or illustration courses for both Master of Fine Arts and Master of Arts.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 68199 M.A.THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours, 2-6 hours in a single semester or distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 68299 M.A.THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: VCD 68199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 69199 M.F.A. THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours; 2 -6 hours in a single semester or distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 69299 M.F.A. THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: VCD 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 80171 CRITICAL PRACTICES IN DESIGN RESEARCH 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 60171) This graduate seminar course introduces methods for integrating critical practices into larger communication design research agendas. The term "critical practices" includes three areas of design-centered inquiry: critical design, critical making, and design authorship. This course is not repeatable.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 80200 DESIGN THEORY I: CULTURE, COMMUNITIES AND CONTEXT 3 Credit Hours
(Slashed with VCD 60200) Introduces students to design theory through a lens of classic and contemporary readings taken from various disciplines. This survey of perspectives assists students in developing their individual voice as a designer. The class delves into issues that affect the field of graphic design and will continue to shape culture and history. Students are asked to question ideas of community and to expand on their ideas with examples through media and technology. Students critically question notions of history, psychology and social behaviors. The writing and criticism of advertising, communication, design artifacts and culture are the primary communication tool of the class, which is completed through papers and personal reflections.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Viticulture and Enology (VIN)

VIN 10510 MOLECULAR PRINCIPLES IN WINE AND BEER 4 Credit Hours
Covers the basic chemistry involved in the wine and winemaking process and the beer and brewing process. Includes basic understanding of the chemistry involved in the fermentation process, flavor, aroma and color of wine and beer.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter-IP

VIN 11100 INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT 3 Credit Hours
Introduces students to current practices for establishing a commercial vineyard and maintaining its health and productivity once established. Topics covered include varietal selection, site preparation, equipment, site selection, first season establishment, vine growth development and training, trellis systems, vine propagation, weed control and vine disease control. Field work sessions consisting of 16 hours of hands-on experience is scheduled in area vineyards.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

VIN 11200 BOTANICAL VITICULTURE 4 Credit Hours
Provides students with an overview of the plant kingdom and an examination of grapevine form and function from a botanical perspective.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter-IP

VIN 11392 WINTER VITICULTURE FIELDWORK (ELR) 2 Credit Hours
(Repeatable for credit) Provides students initiated in the field of viticulture practical experience in winter vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork portion of the course, which serves as experience for those seeking employment in commercial viticulture.
Prerequisite: VIN 11100.
Schedule Type: Field Experience, Lecture
Contact Hours: 1.5 lecture, 2.5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

VIN 11492 SPRING VITICULTURE FIELDWORK (ELR) 2 Credit Hours
(Repeatable for credit) Designed to provide students initiated in the field of viticulture practical experience in spring vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork experience portion of the course, which serves as experience for those seeking employment in commercial viticulture.
Prerequisite: VIN 11100.
Schedule Type: Field Experience, Lecture
Contact Hours: 1.5 lecture, 2.5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

VIN 11592 SUMMER/FALL VITICULTURE FIELDWORK (ELR) 2 Credit Hours
(Repeatable for credit) Provides viticulture students practical experience in summer and fall vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork portion of the course, which serves as experience for those seeking employment in commercial viticulture.
Prerequisite: VIN 11100.
Schedule Type: Field Experience, Lecture
Contact Hours: 1.5 lecture, 2.5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

VIN 11800 INTRODUCTION TO BREWING 3 Credit Hours
This course is designed to introduce students to the basic principles of brewing on the home scale with an overview of brewing on the commercial scale. Students will learn about brewing, malt extracts, beer kits, brewing sugars, water, hops, yeast, boiling and cooling, fermentation, lagering beer, and priming and bottling. At the conclusion of this class, students will have the knowledge to brew small batches of beer successfully on the home scale.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

VIN 14000 INTERMEDIATE BREWING 3 Credit Hours
Intermediate Brewing is designed to give students a depth of knowledge in all grain brewing on the home scale, developing skills and knowledge of brewing on the commercial scale. Students will delve into brewing, water, hops, yeast, boiling and cooling, fermentation, lagering beer, filtering, and priming and bottling.
Prerequisite: VIN 11800.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

VIN 20095 SPECIAL TOPICS IN VITICULTURE AND ENOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Various special topics to be announced in the Schedule of Classes, offering current topics in viticulture and enology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

VIN 21100 INTEGRATED PEST MANAGEMENT 2 Credit Hours
Effective grape production depends on the grower developing a system of grape management that is appropriate for each vineyard. Decisions need to be made for how to manage all of the normal cultural practices such as planting, fertility, harvesting and pruning, as well as managing the insect, disease and weed problems that occur either regularly or sporadically. Course addresses management issues related to common, expected pest problems, as well as the occasional appearance of minor pest problems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

VIN 21300 REGIONAL VINEYARD MANAGEMENT 2 Credit Hours
A general study of vineyard management in the general wine growing regions in the Continental United States. Covers management of the mature vineyard from region to region and builds on the topics covered in prerequisite course.
Prerequisite: VIN 11100.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

VIN 24000 SENSORY EVALUATION OF BEER 3 Credit Hours
Intended for those individuals who need to develop an understanding of the principles of sensory evaluation used in commercial beer making. It also benefits beer enthusiasts interested in reaching advanced levels of appreciation, as well beer producers, beer merchants and beer chemists, who by the nature of their profession need to discern flavors and establish tasting benchmarks. Students practice sensory analysis at home and in workshops to further their sensory evaluation skills and techniques.
Prerequisite: VIN 11800.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

VIN 28992 BREWERY PRODUCTION FIELD EXPERIENCE (ELR) 2 Credit Hours
Provide students initiated in the field of brewing with actual and practical exposure to the technology of brewing. Students are expected to improve their understanding of the methods and science involved by on-site participation in each of the various activities associated with finished beer production. Course serves as actual practical exposure and may qualify as experience for those seeking employment in commercial brewing.
Prerequisite: VIN 11800 and VIN 14000.
Schedule Type: Lecture, Practical Experience
Contact Hours: .6 lecture, 4.25 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

VIN 29300 SOILS FOR VITICULTURE 3 Credit Hours
Explores soil properties and behavior and their influence on wines. Focuses not only on growth and production, but on the long-term effects of viticulture on soil quality and the wider environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

Women's Studies (WMST)

WMST 20101 INTRODUCTION TO WOMEN'S STUDIES: TRADITIONS, TRAJECTORIES, TROUBLES 3 Credit Hours
The course introduces students to Women's Studies - what it studies, how it came into being, what happened next. In focus are its traditions, its consequential contexts of struggle and protest, its pioneers, the multiple fields from which they came to this fresh-born academic hub. The course examines worldwide spread of WMST programs, their variant, evolving interests and work, the hounding, keenly felt disruptions and conflicts. We sample key scholarship with staying power; we peruse pieces across an interdisciplinary range; we visit early ideas now fallen out of favor, relegated to archives and/or bins. We also, importantly, consider how rifts and various troubles led to crucial metamorphoses as well as new fields.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30001 ARENAS FOR FEMINIST THOUGHT: TOUCHY SUBJECTS, UNSETTLED MATTERS AND FEMINIST RESPONSE-ABILITY 3 Credit Hours
A multi-layered inquiry into the substantial discursive project initially undertaken by feminists to break the hold of dominant theory and begin to articulate theory from new standpoints expressed in new language. This course opens an arena within which to study real engagements of thinkers, theorists, their thoughts, theories, arguments, critical appraisals, etc. as they have emerged, developed and contended. The course coheres in a sense of feminist thinkers as profoundly responsive to their contexts, situated in times, places and atmospheres powerfully infused with settled and unsettled meanings.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30002 FEMINIST RESEARCH METHODS 3 Credit Hours
Explores different qualitative and quantitative methodologies through applied research on WMST-related topics as well as on topics informed by feminist standpoints and thought/theory. Provides sturdy foundation for undergraduate students whose aims include undergraduate research, graduate school, and/or actual fieldwork.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30091 KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD) 3 Credit Hours
(Repeatable for credit) A critical investigation of the position and category of women from a cross-cultural, historical and interdisciplinary perspective, with special emphasis on major themes and issues in women's studies. Issues including race, ethnicity and sexuality may also be addressed.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

WMST 30095 SPECIAL TOPICS IN WOMEN'S STUDIES 1-4 Credit Hours
(Repeatable for credit) Study of selected topics in women's studies organized around historical and theoretical issues and movements. This includes contemporary feminist theory, suffragist movement and third wave feminism.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

WMST 30100 HISTORY OF WOMEN IN THE UNITED STATES 3 Credit Hours
(Cross-listed with HIST 31075) An exploration of the political, economic, social, intellectual and cultural forces that have shaped women's lives, women's thought, perceptions of womanhood and feminism, from 1607 to the present in what is now the United States.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30196 WOMEN STUDIES INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) The design and completion of a scholarly research project related to women's studies, and the presentation of findings at the end of the term. Arrangements must be made in the semester prior to registration.
Prerequisite: Special approval by instructor.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

WMST 30201 WITCHES: THE MONSTROUS FEMININE 3 Credit Hours
This course counterbalances student inquiry with lectures and materials at once grounded in women's and gender/sexuality studies and reliant on a range of interdisciplinary sources. The course centers two key touchstones: witch and monstrous feminine. Course trajectories traverse history, culture, religion, politics and academic and popular renderings to locate keys: hunts, trials, dynamics of allegation, guilt and innocence. The course aims to 'correct' traditions of objectification and typecasting by interrogating real subjectivities and the dimensionality of feminine, monstrous and witch.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30202 FEMINIST HUMOR: DISARMING LAUGHTER, DISRUPTIVE DISCOURSE 3 Credit Hours
This course utilizes four key terms to set its directions of inquiry: humor, laughter, discourse and feminist. The most fundamental pursuits are inductive in nature, grounding studies in actual discursive practice, the realities of women's politically-charged and personally-resonant humor, laughter and feminisms as they converge in contexts both private and public, mediated and live/face-to-face. Scholarship on feminist humor provides our final framing.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30301 REPRESENTATIONS OF WOMEN AND FEMINISM IN POPULAR CULTURE 3 Credit Hours
The basic challenge of this course is that it requires the study of two things simultaneously: 'women' and 'women as represented' in popular culture. From the classic object of woman sexed and gendered, feminist study has evolved to also consider woman the subject, the autonomous person with agency within her environment. The course covers much ground: dominant narratives; the often-overlapping contexts of media, politics, morality and religion; the signs inherent in language and imagery; and the power asymmetry and embattled definitions of “woman.” Throughout the course, we employ varied approaches that resist any one right answer, easy dogmatic conclusion or evaluation of the narratives.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30302 GLOBAL FEMINISMS: A WORLD AND CENTURY OF WOMEN'S ACTIVISM 3 Credit Hours

This course explores real and diverse circumstances where feminisms have emerged. Over the semester, we examine feminist movements and their respective contexts; feminists' distinct directions of thought and action; individuals, groups and organizations that have participated in defining feminism; and finally, the connectivity that makes transnational feminist work possible. The course is grounded in sites of 'agonizing and organizing,' as well as in those feminist narratives that search for cohesion even where there is tension. Finally, throughout the course, we embrace and explore complexities of unresolved issues: none more basic than the still controversial claim that women's rights are human rights.

Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 32323 RAPE CULTURE: RETHINKING DANGER, POWER, SEX AND FEMINIST FRAMINGS 3 Credit Hours

Nothing is simple, incontrovertible or 'cool' in 'rape culture.' The subject, act and discourse surrounding rape is embedded in culture and confounded by culture: by opinions, standpoints, simplistic arguments and personal and political interests. Feminist framings of 'rape culture' invite different inquiry: into mythology, ideology, theory and alternative interpretations of bodies in a given context. Famed feminist Andrea Dworkin interrogates rape culture's center: powers practically guaranteed, moreover "exercised… [and] protected… by religion … by universities … [even] by [poets and artists], the unacknowledged legislators of the world." This course utilizes multiple approaches to study and interrogate 'rape culture,' each of which illuminates this inherently dark subject in new light.

Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 40992 PRACTICUM IN WOMEN'S STUDIES (ELR) 3 Credit Hours

(Repeatable for credit) An assignment at a private, public or nonprofit organization that centers on women's issues such as education health and policy making. Arrangements must be made in the semester prior to registration.

Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

WMST 41199 CAPSTONE IN WOMEN'S STUDIES (ELR) 3 Credit Hours

The capstone project is a guided undertaking that serves as culmination of students' experiences. The emphasis is 'putting it all together,' integrating the Women's Studies minor into 'the bigger picture': major(s), other concentrations, research, envisioned graduate study and/or vocation. WMST Capstone can be taken junior or senior year, contrived/structured by students in consultation with faculty advisor(s), ideally advisors from major and minor. Net outcome may be paper--senior thesis for students who desire such--presentation, curated portfolio of prior academic work.

Prerequisite: Junior Standing.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

WMST 44321 PIVOTAL PRAXIS: EXPERIMENTS IN ACTIONABLE FEMINISM 3 Credit Hours

This course engages students at the pumping heart of the whole feminist story: its actual work. For feminists on the ground, pivotal praxis is feminism: getting the vote, demanding equality, wrangling through contentious issues, women's marches and campaigns. In a word: practice. Experiments in practical, actional feminism. Our study probes ideas that hit streets as well as ideas born of "done things." Under scrutiny are scenes: socio-political, cultural spaces wherein women enact change, determine outcomes recognized as feminist. These include but are not limited to the realpolitik of suffrage vs. anti-suffrage, consciousness-raising, the famed national women's convention in Houston, internet activism, transversal coalition-building across boundaries/borders. The course provides opportunity for students' own experiments and exercises in feminist praxis.

Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Diversity Course Requirement

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

The purpose of Kent State's diversity requirement is to help educate students to live in a world of diverse communities, many of which are becoming increasingly permeated with cultural and ideological differences. The study of diversity is intended to promote awareness of local and global differences, to identify shared values, to improve understanding of one's own culture, and to encourage people to explore and respect differences.

The diversity requirement is part of the university's broader efforts to encourage, both at the university and beyond, the development of communities in which all members and their contributions are recognized and valued. Diversity courses provide opportunities for students to learn about such matters as the history, culture, values and notable achievements of people other than those of their own national origin, ethnicity, religion, sexual orientation, age, gender, physical and mental ability, and social class. Diversity courses also provide opportunities to examine problems and issues that may arise from differences, and opportunities to learn how to deal constructively with them.

Courses that satisfy the diversity requirement aim to give students significant opportunities to:

- Address diversity issues, particularly those involving unequal and/or discriminatory treatment
- Compare positive and negative implications of various parochial or "...centric" perspectives
- Encourage global awareness and sensitivity
- Engage issues of racial or ethnic perceptions, attitudes and stereotypes
- Examine patterns and trends of diversity in the United States
- Explore ways to communicate and participate constructively in a diverse community
- Foster appreciation of aesthetic dimensions of other traditions and cultures
- Learn systematic approaches to understanding cultural differences and commonalities
- Learn systematic techniques for dealing constructively with problems arising out of cultural differences
- Participate in special programs that promote understanding other peoples
- Study Western and non-Western cultures in a world context or from a comparative perspective
- Understand how one's own culture shapes one's perceptions, ideology and values

It is understood that not every course will address all of these criteria.

Requirements

As part of the requirements for any bachelor's degree at Kent State, all students must satisfy the diversity requirement, consisting of one course addressing domestic (U.S.) issues and one course addressing global issues.

At least one course must come from the Kent Core. Students may satisfy the second diversity requirement in one of three ways:

1. They may complete the second diversity course from the Kent Core, which also will count toward fulfilling the Kent Core.
2. They may complete any non-Kent Core diversity course. This course may also count toward major or minor program requirements or may be used as an elective.
3. They may satisfy the global diversity requirement by completing a course in another country.

Courses With Domestic Diversity Focus

Code	Title	Credit Hours
AFS 23002	BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM)	3
AFS 33110	BLACK WOMEN, CULTURE AND SOCIETY: HISTORICAL PERSPECTIVES (DIVD)	3
AFS 33171	AFRICAN-AMERICAN COMMUNITIES (DIVD)	3
AFS 33310	AFRO-LATINX COMMUNITIES IN THE U.S. (DIVD)	3
ARTH 42059	AFRICAN AMERICAN ART AND VISUAL CULTURE (DIVD)	3
ARTH 42065	FEMINIST AND QUEER ART AND CULTURAL THEORY (DIVD)	3
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
COMM 35912	GENDER AND COMMUNICATION (DIVD)	3
COMM 46605	COMMUNICATION ACROSS THE LIFESPAN (DIVD)	3
CRIM 36800	LGBTQ POPULATIONS IN THE JUSTICE SYSTEM (DIVD)	3
CRIM 37311	MINORITIES IN CRIME AND JUSTICE (DIVD)	3
CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)	3
CRIM 37511	IMMIGRATION: LAW, CRIME AND JUSTICE (DIVD)	3
ECON 32083	THE ECONOMICS OF POVERTY (DIVD)	3
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	3
ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)	3
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	3
ENG 33005	NATIVE AMERICAN LITERATURE (DIVD)	3
ENG 34021	WOMEN'S LITERATURE (DIVD)	3
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)	3
ENG 41001	SOCIOLINGUISTICS IN SCHOOLING (DIVD) (WIC)	3
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
GEOG 17064	GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	3
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
HDF 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	3
HIST 30030	IDEAS IN ACTION: U.S. INTELLECTUAL HISTORY (DIVD)	3

HIST 31084	THE INVENTION OF AMERICA: 1492-1714 (DIVD)	3
HIST 31085	ALEXANDER HAMILTON'S WORLD: 18TH-CENTURY AMERICA (DIVD)	3
HIST 31104	MIGRATIONS TO AMERICA, 1607 TO PRESENT (DIVD)	3
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
MDJ 40027	RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES (DIVD)	3
MUS 22131	SURVEY OF ROCK MUSIC HISTORY (DIVD)	3
MUS 42161	HISTORY OF JAZZ (DIVD)	3
MUS 42165	HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC)	3
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	3
PH 44000	HEALTH DISPARITIES (DIVD) (WIC)	3
PHIL 31035	PHILOSOPHY AND JUSTICE (DIVD)	3
PHIL 31040	FEMINIST PHILOSOPHY (DIVD)	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	3
POL 40470	WOMEN, POLITICS AND POLICY (DIVD)	3
POL 40620	POLITICS OF SOCIAL MOVEMENTS (DIVD)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	3
PSYC 40625	DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD)	3
RPTM 36040	UNIVERSAL DESIGN, ACCESSIBILITY, AND PEOPLE WITH DISABILITIES (DIVD)	3
RPTM 36085	LEISURE AND CULTURE (DIVD)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
SOC 32560	SOCIOLOGY OF FAMILIES (DIVD)	3
SOC 32565	SOCIOLOGY OF SEXUALITIES (DIVD)	3
SOC 32569	MINORITIES IN THE UNITED STATES (DIVD)	3
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	3
SOC 42315	SOCIOLOGY OF GENDER (DIVD)	3
SOC 42568	RACE AND ETHNIC STUDIES (DIVD)	3
SOC 42879	AGING IN SOCIETY (DIVD)	3
SPAD 25000	SPORT IN SOCIETY (DIVD)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
THEA 41113	THEATRE IN A MULTICULTURAL AMERICA (DIVD)	3
THEA 41115	LGBTQ THEATRE (DIVD)	3
WMST 30091	KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD)	3

Courses With Global Diversity Focus

Code	Title	Credit Hours
ACCT 43089	INTERNATIONAL ACCOUNTING EXPERIENCE (DIVG) (ELR)	3
AFS 23001	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	3
AFS 24407	INTRODUCTION TO CARIBBEAN STUDIES (DIVG)	3
AFS 32050	AFRICAN LITERATURES (DIVG)	3
AFS 34000	INTRODUCTION TO AFRICAN WORLD VIEW (DIVG)	3
AFS 37100	AFRICANA WOMEN'S LITERATURE (DIVG)	3
ANTH 18210	INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS)	3
ANTH 18420	INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
ANTH 38789	FACES: HUMAN HEAD ANATOMY WITH A FORENSIC ART FOCUS (DIVG) (ELR)	3
ANTH 48245	PSYCHOLOGICAL ANTHROPOLOGY (DIVG)	3
ANTH 48250	MEDICAL ANTHROPOLOGY (DIVG)	3
ANTH 48262	PEOPLES AND CULTURES OF AMAZONIA (DIVG)	3
ANTH 48889	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
ARTE 41089	INTERNATIONAL EXPERIENCE: ART EDUCATION (DIVG) (ELR)	1-3
ARTH 22010	INTRODUCTION TO ASIAN ART (DIVG)	3
ARTH 22021	ART HISTORY: AFRICAN ART (DIVG) (KFA)	3
ARTH 42025	ART OF WEST AFRICA (DIVG)	3
ARTH 42028	CONTEMPORARY AFRICAN ART: 1980-PRESENT (DIVG)	3
ARTH 42089	INTERNATIONAL EXPERIENCE: ART HISTORY (DIVG) (ELR)	1-3
ARTS 45089	INTERNATIONAL EXPERIENCE: STUDIO ART (DIVG) (ELR)	1-3
AS 30189	STUDY ABROAD: SPECIAL TOPICS (DIVG) (ELR)	1-3
BSCI 30189	SCIENTIFIC INQUIRY AND OBSERVATION OF THE NATURAL WORLD (DIVG) (ELR)	3
BSCI 30789	FEASTS AND PLAGUES: THE SCIENCE OF ITALIAN FOOD, WINE AND DISEASE - INTERNATIONAL EXPERIENCE (DIVG) (ELR)	3
BSCI 30889	BEAUTY AND THE BRAIN: EXPLORING FLORENCE THROUGH THE SENSES (DIVG) (ELR)	3
BSCI 40389	ECOLOGY AND NATURAL HISTORY OF MEDITERRANEAN ECOSYSTEMS (DIVG) (ELR)	3
BSCI 30189	SCIENTIFIC INQUIRY AND OBSERVATION OF THE NATURAL WORLD (DIVG) (ELR)	3
CCI 40089	BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR)	3
CCI 40189	ITALIAN POP CULTURE (DIVG) (ELR)	3
CCI 40289	ITALIAN CINEMA (DIVG) (ELR)	3
BSCI 40389	ECOLOGY AND NATURAL HISTORY OF MEDITERRANEAN ECOSYSTEMS (DIVG) (ELR)	3
BUS 30189	INTERNATIONAL BUSINESS EXPERIENCE (DIVG) (ELR)	3
CCI 40489	MULTIMEDIA EXPERIENTIAL LEARNING (DIVG) (ELR)	1
CCI 41389	FROM IDEAS TO STORIES: STORYTELLING IN TUSCANY (DIVG) (ELR)	3
CCI 45089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	1-3
CCI 46089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	3
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	3
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	3
CLAS 41089	CLASSICS INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	3
DAN 27076	DANCE AS AN ART FORM (DIVG) (KFA)	3

ECON 42189	INTERNATIONAL ECONOMIC EXPERIENCE (DIVG) (ELR)	3
ENG 31006	WORLD ENGLISHES (DIVG) (WIC)	3
ENG 33013	AFRICANA WOMEN'S LITERATURE (DIVG)	3
ENG 33015	AFRICAN LITERATURES (DIVG)	3
ENG 34011	WORLD LITERATURE IN ENGLISH (DIVG)	3
ENG 40089	INTERNATIONAL EXPERIENCE: THEMES IN STUDY ABROAD (DIVG) (ELR)	3
ENTR 47189	INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP (DIVG) (ELR)	3
ENTR 47289	INTERNATIONAL ENTREPRENEURSHIP. THE ITALIAN PERSPECTIVE (DIVG) (ELR)	3
FDM 30189	FLORENCE FASHION DESIGN STUDIO I (DIVG) (ELR)	6
FDM 30289	FLORENCE FASHION DESIGN STUDIO II (DIVG) (ELR)	6
FDM 30389	PARIS FASHION DESIGN STUDIO I (DIVG) (ELR)	6
FDM 30489	PARIS FASHION DESIGN STUDIO II (DIVG) (ELR)	6
FDM 35089	INTERNATIONAL EXPERIENCE: THE PARISIAN LUXURY MARKET (DIVG) (ELR)	3
FDM 35589	INTERNATIONAL EXPERIENCE: ITALIAN FASHION AND CULTURE (DIVG) (ELR)	3
FDM 35689	INTERNATIONAL EXPERIENCE: EUROPEAN FASHION MARKETING (DIVG) (ELR)	3
FDM 35789	INTERNATIONAL EXPERIENCE: EUROPEAN FASHION MARKETING SEMINAR (DIVG) (ELR)	3
FDM 35889	INTERNATIONAL EXPERIENCE: EUROPEAN FASHION DESIGN (DIVG) (ELR)	3
FDM 35989	INTERNATIONAL EXPERIENCE: EUROPEAN FASHION DESIGN SEMINAR (DIVG) (ELR)	3
FDM 36589	INTERNATIONAL EXPERIENCE: PARISIAN FASHION, CULTURE AND CRAFT (DIVG) (ELR)	3
FDM 45589	INTERNATIONAL EXPERIENCE: EUROPEAN FASHION STUDY TOUR FOR FLORENCE STUDENTS (DIVG) (ELR)	3
FDM 45689	INTERNATIONAL EXPERIENCE: PARISIAN FASHION STUDY TOUR FOR PARIS STUDENTS (DIVG) (ELR)	3
FIN 46089	INTERNATIONAL FINANCE EXPERIENCE (DIVG) (ELR)	3
FR 10089	BASIC CONVERSATIONAL FRENCH (DIVG) (ELR)	2
FR 20089	BASIC PROFESSIONAL FRENCH (DIVG) (ELR)	2
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
GEOG 22040	INTRODUCTION TO GLOBAL TOURISM (DIVG)	3
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	3
GEOG 32080	POLITICS AND PLACE (DIVG)	3
GEOG 36065	CITIES AND URBANIZATION (DIVG)	3
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	3
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)	3
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	3
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)	3
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	3
HDF 42089	HUMAN DEVELOPMENT AND FAMILY SCIENCE INTERNATIONAL EXPERIENCE (DIVG) (ELR)	3
HDF 44089	FAMILIES IN FLORENCE, ITALY: LOVE, PARENTING AND POLICY (DIVG) (ELR)	3
HDF 45089	LIFESPAN DEVELOPMENT PRACTICES AND OUTCOMES: THE ITALIAN EXPERIENCE (DIVG) (ELR)	3
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
HIST 31114	TRADITION AND REVOLUTION IN SOUTHEAST ASIA (DIVG)	3
HIST 31140	MODERN LATIN AMERICA (DIVG)	3
HIST 31141	EARLY MODERN LATIN AMERICA (C. 1450-1820) (DIVG)	3
HRM 34189	INTERNATIONAL EXPERIENCE IN HUMAN RESOURCE MANAGEMENT (DIVG) (ELR)	3
INTS 10504	THE NEW PANGAEA: YOUR ROLE IN OUR GLOBAL COMMUNITY (DIVG)	3
INTS 30570	PALESTINE AND ISRAEL (DIVG)	3
INTS 40089	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	3
INTS 40560	HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG)	3
JWST 40089	STUDY ABROAD (DIVG) (ELR)	1-4
MCLS 20089	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
MCLS 21417	MULTICULTURALISM IN TODAY'S GERMANY (DIVG)	3
MCLS 22217	DIVERSITY IN TODAY'S RUSSIA (DIVG)	3
MCLS 28404	THE LATIN AMERICAN EXPERIENCE (DIVG)	3
MCLS 30089	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
MGMT 44189	INTERNATIONAL MANAGEMENT EXPERIENCE (DIVG) (ELR)	3
MKTG 45189	INTERNATIONAL EXPERIENCE IN MARKETING (DIVG) (ELR)	3
MSSH 40089	STUDY ABROAD (DIVG) (ELR)	1-4
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
MUS 42181	POPULAR WORLD MUSIC (DIVG)	3
MUS 45301	AFRICAN ENSEMBLE (DIVG)	1
MUS 45302	CARIBBEAN STEELBAND (DIVG)	1
MUS 45315	ASIAN MUSIC ENSEMBLE (DIVG)	1
NEUR 30889	BEAUTY AND THE BRAIN: EXPLORING FLORENCE THROUGH THE SENSES (DIVG) (ELR)	3
NURS 40020	COMMUNITY HEALTH NURSING (DIVG)	4
NURS 40089	INTERNATIONAL HEALTH CARE POLICIES (DIVG) (ELR) (WIC)	3
NURS 41089	INTERNATIONAL EXPERIENCE HEALTH CARE POLICES (DIVG) (ELR)	3
NURS 44001	POPULATION-BASED NURSING FOR PROFESSIONAL NURSING PRACTICE (DIVG)	3
OGE 10095	SPECIAL TOPICS: STUDY ABROAD (DIVG) (ELR)	0
PACS 32030	INTERNATIONAL CONFLICT RESOLUTION (DIVG)	3
PACS 32040	CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG)	3
PACS 40089	INTERNATIONAL EXPERIENCE: PEACE AND CONFLICT STUDIES (DIVG) (ELR)	1-4
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC)	3
PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
PH 40089	GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND (DIVG) (ELR)	1-3
PH 43089	PLAGUES THAT SHAPED THE WORLD (DIVG) (ELR)	3

PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
PHIL 41491	SEMINAR IN ASIAN PHILOSOPHY (DIVG)	3
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
POL 10500	WORLD POLITICS (DIVG) (KSS)	3
POL 30520	EUROPEAN POLITICS (DIVG)	3
POL 30530	ASIAN POLITICS (DIVG)	3
POL 30540	AFRICAN POLITICS (DIVG)	3
POL 30550	LATIN AMERICAN POLITICS (DIVG)	3
POL 30560	MIDDLE EAST POLITICS (DIVG)	3
POL 30570	PALESTINE AND ISRAEL (DIVG)	3
POL 40540	POLITICS OF DEVELOPMENT (DIVG)	3
POL 40560	HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG)	3
POL 40589	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM)	3
REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM)	3
RPTM 26060	INTRODUCTION TO GLOBAL TOURISM (DIVG)	3
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	3
SOC 32673	CITIES AND URBAN SOCIAL LIFE (DIVG)	3
SPA 44089	VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY (DIVG) (ELR)	1-4
SPAN 18489	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
SPAN 28489	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
SPAN 38489	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
SPAN 58424	SPANISH-AMERICAN CULTURE THROUGH SONGS (DIVG)	3
THEA 11000	THE ART OF THE THEATRE (DIVG) (KFA)	3
THEA 41089	INTERNATIONAL EXPERIENCE: THEATRE AND SOCIAL CHANGE IN CZECHIA (DIVG) (ELR)	3
VCD 40089	GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE (DIVG) (ELR)	3

Flashes 101 (New Student Orientation)

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

All undergraduate students are required to satisfactorily complete UC 10001 to earn an associate or bachelor's degree at Kent State. New student orientation courses from another college or university may not be substituted for Kent State's course.

The only exceptions to the requirement are the following:

1. Incoming students who are designated by Kent State admissions as adult students (21 years or older). These students are encouraged to contact the Center for Adults and Veteran Services or a Regional Campus advising office for information regarding the availability of special orientation programs for adult students.
2. Students who transfer 30 or more credit hours from another higher education institution, excluding post-secondary and dual-enrollment credit (College Credit Plus).

Full-time students are expected to complete UC 10001 during their first semester of enrollment. Part-time students are expected to complete the course before they attain sophomore standing (30 credit hours).

Experiential Learning Requirement

Kent State University's experiential learning requirement (ELR) provides students with the opportunity to initiate lifelong learning through the development and application of academic knowledge and skills in new or different settings.

Kent State recognizes that there are diverse ways to fulfill the experiential learning requirement. To accommodate such diversity, an experiential learning activity may fall into one or more of the following categories:

- **Civic Engagement** enables Kent State students to interact with people from diverse backgrounds; to challenge their understanding of community needs and the systems addressing those needs; and to explore ways of improving community life. The primary purpose for activities that fall into this category encompasses community involvement, awareness, learning or reflection.
- **Creative/Artistic** activities enable Kent State students to engage in various forms of creative expression to produce works that reflect a synthesis of knowledge and skills. These works may be original or interpretative and may be expressed though performances, portfolios, exhibits, pieces of work or other significant projects.
- **Practical Experiences** enable Kent State students to actively extend learning to new contexts outside the typical classroom environment. These experiences allow students to use skills and concepts related to their career path while engaging in work-like settings that are common to their field of study
- **Research** activities enable Kent State students to engage in systematic inquiry that contributes to the discovery or interpretation of knowledge significant to their field of study. This research can be applied, creative/artistic, descriptive, experimental, historical, inferential, observational or theoretical.
- **Study abroad/Away** activities enable Kent State students to be immersed in an off campus environment. These experiences contribute to a student's understanding of culture, customs, diversity, history, language, politics, religion, society and/or traditions.

Requirements

1. As part of the requirements for any baccalaureate, all students must satisfy the experiential learning requirement.
2. The requirement may be fulfilled by a course, a component of a course or a non-credit paid or unpaid experience. Courses may be at either the lower-or upper-division level.
3. For non-course options, students must obtain prior approval from their program faculty for the experience.
4. The requirement may be fulfilled individually or collaboratively.
5. Students must meet the learning outcomes listed below and any additional learning outcomes as defined by their program.
6. Satisfactory completion of this requirement will be determined by the faculty.
7. Experiential learning opportunities must be completed while enrolled at Kent State University.
8. These experiential learning opportunities must meet existing university regulations and guidelines (e.g., institutional review board approval for research with animals or human subjects, memoranda of affiliation/understanding with community partners).

Learning Outcomes

Students will be able to:

- Connect ideas, concepts and skills developed at the university with their applications to new and different contexts.
- Demonstrate the implementation of ideas, concepts and/or skills studied at the university in new and different contexts.
- Demonstrate how this experience has broadened their understanding of the discipline, the world of themselves as learners.
- Reflect on the meaning of the experience for their current and future learning.

Courses

Code	Title	Credit Hours
ACCT 43010	PRINCIPLES OF AUDITING (ELR) (WIC)	3
ACCT 43089	INTERNATIONAL ACCOUNTING EXPERIENCE (DIVG) (ELR)	3
ACCT 43092	ACCOUNTING INTERNSHIP (ELR)	3
ACTT 21092	INTERNSHIP IN ACCOUNTING TECHNOLOGY (ELR)	2-3
ADED 42292	FIELD WORK PRACTICUM (ELR)	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
AERN 35892	SMALL UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM (ELR)	2
AERN 42392	ADVANCED PISTON AIRCRAFT MAINTENANCE (ELR)	1-8
AERN 42492	INSPECTION AUTHORIZATION II (ELR)	2-4
AERN 42592	ADVANCED TURBINE AIRCRAFT MAINTENANCE (ELR)	1-8
AERN 42799	STRATEGIC AVIATION MAINTENANCE MANAGEMENT CAPSTONE (ELR) (WIC)	2
AERN 45099	AERONAUTICAL STUDIES CAPSTONE (ELR)	3
AERN 45199	AIRPORT OPERATIONS (ELR)	3
AERN 45299	STRATEGIC AVIATION MANAGEMENT (ELR)	3
AERN 45399	AIR TRAFFIC CONTROL CAPSTONE (ELR)	1
AERN 45499	AIR TRAFFIC CONTROL CAPSTONE LABORATORY (ELR)	2
AERN 45648	THEORY OF FLIGHT INSTRUCTION (ELR)	3
AERN 45892	UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM (ELR)	2
AFS 37010	RESEARCH METHODS IN AFRICANA STUDIES (ELR)	3
AFS 37020	THE MODEL AFRICAN UNION (ELR)	3
AFS 41192	PRACTICUM IN AFRICANA COMMUNITIES (ELR)	1-12
AFS 47099	SENIOR SEMINAR IN AFRICANA STUDIES (ELR) (WIC)	3
AGD 21092	ANIMATION AND GAME DESIGN PRACTICUM (ELR)	1-3
AGD 43092	INTERNSHIP IN ANIMATION AND GAME DESIGN (ELR) (WIC)	1-3
AGD 49999	SENIOR CAPSTONE PROJECT (ELR) (WIC)	3
AGRI 40092	AGRIBUSINESS INTERNSHIP (ELR)	3
ANTH 38096	INDIVIDUAL INVESTIGATION IN ANTHROPOLOGY (ELR)	1-3
ANTH 38480	ARCHAEOLOGICAL ANALYSIS (ELR) (WIC)	3
ANTH 38789	FACES: HUMAN HEAD ANATOMY WITH A FORENSIC ART FOCUS (DIVG) (ELR)	3
ANTH 48092	FORENSIC ARCHAEOLOGY FIELD SCHOOL (ELR)	3
ANTH 48214	POLITICS OF CULTURE (ELR) (WIC)	3
ANTH 48225	ARCHAEOLOGY OF DEATH (ELR) (WIC)	3
ANTH 48492	ARCHAEOLOGICAL FIELD METHODS (ELR)	3
ANTH 48889	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
ARCH 30102	THIRD-YEAR DESIGN STUDIO II (ELR)	5
ARCH 30112	THIRD-YEAR DESIGN STUDIO II, FLORENCE, ITALY (ELR)	5
ARCH 46992	FIELD STUDY (ELR)	1-3
ARCS 40022	URBAN DESIGN DISCOURSE (ELR)	3
ART 30692	EXPERIENTIAL LEARNING IN THE VISUAL ARTS (ELR)	1-3
ART 40099	B.A. STUDIO ART CAPSTONE (ELR) (WIC)	3
ARTE 31092	ART EDUCATION :TEACHING PRACTICUM (ELR)	3
ARTE 41002	ART EDUCATION: FOUNDATIONS AND CONCEPTS - SECONDARY (ELR)	3
ARTE 41089	INTERNATIONAL EXPERIENCE: ART EDUCATION (DIVG) (ELR)	1-3
ARTE 41090	STUDY AWAY: ART EDUCATION (ELR)	1-3
ARTE 41192	ART EDUCATION: FIELD EXPERIENCE (ELR) (WIC)	3
ARTE 41592	ART EDUCATION: STUDENT TEACHING AND SEMINAR (ELR)	9
ARTH 42089	INTERNATIONAL EXPERIENCE: ART HISTORY (DIVG) (ELR)	1-3
ARTH 42090	STUDY AWAY: ART HISTORY (ELR)	1-3
ARTH 42092	MUSEUM INTERNSHIP (ELR)	3
ARTH 42098	RESEARCH IN ART HISTORY (ELR)	1-3
ARTS 44098	RESEARCH IN STUDIO ART (ELR)	1-3
ARTS 44192	INTERNSHIP OR PRACTICUM IN STUDIO ART (ELR)	1-6
ARTS 45089	INTERNATIONAL EXPERIENCE: STUDIO ART (DIVG) (ELR)	1-3
ARTS 45090	STUDY AWAY: STUDIO ART (ELR)	1-3
ARTS 45098	SENIOR THESIS RESEARCH AND PROPOSAL (ELR)	1
ARTS 45099	SENIOR THESIS EXHIBITION (ELR)	3
AS 30092	INTERNSHIP (ELR)	1-12
AS 30189	STUDY ABROAD: SPECIAL TOPICS (DIVG) (ELR)	1-3
AS 30290	STUDY AWAY: SPECIAL TOPICS (ELR)	1-3
AS 30798	GENDER AND SEXUALITY RESEARCH FORUM (ELR)	3
AS 41099	CAPSTONE IN GENDER AND SEXUALITY STUDIES (ELR)	3
ASEI 40092	ADVANCED PRACTICUM: AMERICAN SIGN LANGUAGE/ENGLISH INTERPRETING-COMMUNITY SETTING INTERPRETING (ELR)	9
ASEI 43092	DEAF CULTURE IMMERSION EXPERIENCE (ELR)	1
ASEI 43192	ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING (ELR)	9
ASL 49092	PRACTICUM IN AMERICAN SIGN LANGUAGE (ELR)	1-3
ASL 49309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC)	3
ATTR 45492	INTER-PROFESSIONAL INTERNSHIP IN SPORTS MEDICINE (ELR)	3
BA 44092	INTERNSHIP IN BUSINESS ANALYTICS (ELR)	3
BA 44099	CAPSTONE IN BUSINESS ANALYTICS (ELR) (WIC)	3

BMRT 21092	INTERNSHIP IN MANAGEMENT TECHNOLOGY (ELR)	1-3
BMRT 22099	CAPSTONE IN LOGISTICS AND SUPPLY CHAIN MANAGEMENT (ELR)	3
BMRT 40092	PRACTICUM IN APPLIED BUSINESS AND TECHNOLOGY (ELR)	1-4
BMS 40196	INDIVIDUAL INVESTIGATION IN BIOMEDICAL SCIENCES (ELR)	1-3
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30189	SCIENTIFIC INQUIRY AND OBSERVATION OF THE NATURAL WORLD (DIVG) (ELR)	3
BSCI 30275	LOCAL FLORA (ELR)	4
BSCI 30789	FEASTS AND PLAGUES: THE SCIENCE OF ITALIAN FOOD, WINE AND DISEASE - INTERNATIONAL EXPERIENCE (DIVG) (ELR)	3
BSCI 30889	BEAUTY AND THE BRAIN: EXPLORING FLORENCE THROUGH THE SENSES (DIVG) (ELR)	3
BSCI 40159	MOLECULAR BIOLOGY LABORATORY (ELR) (WIC)	3
BSCI 40192	INTERNSHIP IN BIOLOGICAL SCIENCES (ELR)	3-12
BSCI 40196	INDIVIDUAL INVESTIGATION (ELR)	1-3
BSCI 40199	SENIOR HONORS THESIS (ELR)	1-9
BSCI 40292	INTERNSHIP IN PRIMARY CARE FOR THE UNDERSERVED (ELR)	2
BSCI 40365	FIELD METHODS IN ORNITHOLOGY (ELR)	3
BSCI 40368	WETLAND ECOLOGY AND MANAGEMENT (ELR)	4
BSCI 40374	CONSERVATION BIOLOGY (ELR)	4
BSCI 40376	TROPICAL FIELD BIOLOGY AND CONSERVATION (ELR)	5
BSCI 40378	FIELD COURSE TO SOUTH AFRICA (ELR)	4
BSCI 40389	ECOLOGY AND NATURAL HISTORY OF MEDITERRANEAN ECOSYSTEMS (DIVG) (ELR)	3
BSCI 40525	WILDLIFE RESOURCES (ELR)	3
BTEC 40192	INTERNSHIP IN BIOTECHNOLOGY (ELR)	2-9
BTEC 40196	INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)	2-9
BUS 20192	INTERNSHIP IN BUSINESS (ELR)	1-3
BUS 30189	INTERNATIONAL BUSINESS EXPERIENCE (DIVG) (ELR)	3
BUS 40192	INTERNSHIP IN BUSINESS (ELR)	1-3
CAE 45092	AERONAUTICS AND ENGINEERING INTERNSHIP/COOPERATIVE EDUCATION (ELR) (WIC)	1-3
CCI 40089	BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR)	3
CCI 40189	ITALIAN POP CULTURE (DIVG) (ELR)	3
CCI 40289	ITALIAN CINEMA (DIVG) (ELR)	3
CCI 40389	DOCUMENTARY FILMMAKING (DIVG) (ELR)	3
CCI 40489	MULTIMEDIA EXPERIENTIAL LEARNING (DIVG) (ELR)	1
CCI 41389	FROM IDEAS TO STORIES: STORYTELLING IN TUSCANY (DIVG) (ELR)	3
CCI 45089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	1-3
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	3
CCI 46089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	3
CES 20092	FIELD EXPERIENCE I: MIDDLE CHILDHOOD (ELR)	1
CES 37692	ADDICTIONS COUNSELING PRACTICUM (ELR)	4-9
CHEM 20098	INTRODUCTION TO CHEMICAL RESEARCH (ELR)	1-3
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 40092	INTERNSHIP IN CHEMISTRY AND BIOCHEMISTRY (ELR)	1-9
CHEM 40099	SENIOR HONORS THESIS (ELR)	1-10
CI 47192	STUDENT TEACHING IN CURRICULUM AND INSTRUCTION (ELR)	1-5
CIS 44048	BUILDING SOLUTIONS FOR BUSINESSES (ELR) (WIC)	3
CIS 44292	BUSINESS EXPERIENCE AND INTERNSHIP (ELR)	3
CLAS 41089	CLASSICS INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
CLAS 41092	FIELD EXPERIENCE IN CLASSICS (ELR)	1-4
CLAS 41304	LITERATURE OF THE ROMAN WORLD (ELR) (WIC)	3
CLAS 41503	LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC)	3
CMGT 33092	CONSTRUCTION MANAGEMENT INTERNSHIP (ELR) (WIC)	2-3
CMGT 43099	CONSTRUCTION MANAGEMENT CAPSTONE (ELR)	3
COMM 45092	INTERNSHIP IN COMMUNICATION STUDIES (ELR)	3-6
COMM 45903	COMMUNICATION CAMPAIGNS (ELR)	3
COMM 45865	ORGANIZATIONAL COMMUNICATION TRAINING AND DEVELOPMENT (ELR)	3
COMM 46091	SENIOR SEMINAR (ELR)	3
COOP 20092	COOPERATIVE EDUCATION (ELR)	0
CRIM 46792	INTERNSHIP (ELR)	3-9
CRIM 46798	RESEARCH IN CRIMINOLOGY AND JUSTICE STUDIES (ELR)	3-12
CS 33092	SPEED PROGRAMMING PRACTICUM (ELR)	2
CS 33192	INTERNSHIP IN COMPUTER SCIENCE (ELR)	1-3
CS 44901	SOFTWARE DEVELOPMENT PROJECT (ELR) (WIC)	4
CS 48102	GAME DEVELOPMENT PRACTICUM (ELR) (WIC)	4
CS 49998	RESEARCH (ELR)	1-6
CS 49999	CAPSTONE PROJECT (ELR) (WIC)	4
CTTE 44092	IN-SERVICE TEACHING - PRACTICUM (ELR)	2
CTTE 44099	IN-SERVICE TEACHING - CAPSTONE (ELR)	1
DAN 37092	KENT DANCE ENSEMBLE (ELR)	1
DAN 37192	DANCE PRACTICUM - PERFORMANCE (ELR)	1
DAN 37292	DANCE PRACTICUM - TEACHING (ELR)	1
DAN 37392	DANCE PRACTICUM - CHOREOGRAPHY (ELR)	1
DAN 47192	INTERNSHIP IN DANCE (ELR)	1
DAN 47199	BACHELOR OF ARTS CAPSTONE (ELR)	1-3
DAN 47299	BACHELOR OF FINE ARTS CAPSTONE (ELR)	1-3
DI 30099	CHALLENGE-BASED INNOVATION (ELR)	3
DI 49099	DESIGN INNOVATION WORKSHOP (ELR)	1-4
DI 49999	DESIGN INNOVATION GRAND CHALLENGES STUDIO PROJECT (ELR)	3
ECED 20192	CLINICAL EXPERIENCE IN PRESCHOOL (ELR)	2
ECED 30292	CLINICAL EXPERIENCE PRIMARY II (ELR)	1
ECED 30392	CLINICAL EXPERIENCE PRIMARY III (ELR)	1

ECED 40092	INTEGRATED FIELD EXPERIENCES (ELR)	3
ECED 40142	HOME-SCHOOL-COMMUNITY-PARTNERSHIPS IN DIVERSE CONTEXTS (ELR)	3
ECED 40292	INTERNSHIP IN ELEMENTARY SCHOOLS (ELR)	4-9
ECED 40492	CLINICAL EXPERIENCE PRIMARY IV (ELR)	1
ECON 32050	APPLIED ECONOMETRICS I (ELR)	3
ECON 42189	INTERNATIONAL ECONOMIC EXPERIENCE (DIVG) (ELR)	3
ECON 42292	INTERNSHIP IN ECONOMICS (ELR)	3
ECON 42298	RESEARCH IN ECONOMICS (ELR)	1-6
ECON 42299	SENIOR PROJECT (ELR)	1-3
EERT 10192	OVERHEAD LINE TECHNOLOGY PRACTICUM I (ELR)	5
EERT 10292	OVERHEAD LINE TECHNOLOGY II PRACTICUM (ELR)	5
EERT 20192	OVERHEAD LINE TECHNOLOGY III PRACTICUM (ELR)	5
EERT 20292	OVERHEAD LINE TECHNOLOGY PRACTICUM IV (ELR)	5
EHHS 20092	PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES (ELR)	1-12
EHHS 40092	PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES (ELR)	1-6
EHHS 49592	STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION (ELR)	10
EMAT 40999	INTERDISCIPLINARY PROJECTS (ELR)	3
EMAT 49992	INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY (ELR)	1-6
ENG 30066	WRITING IN THE PUBLIC SPHERE (ELR)	3
ENG 34090	SHAKESPEARE IN PERFORMANCE (ELR)	3
ENG 40089	INTERNATIONAL EXPERIENCE: THEMES IN STUDY ABROAD (DIVG) (ELR)	3
ENG 40099	WRITING PORTFOLIO (ELR)	2
ENG 41092	ESL PRACTICUM IN INTENSIVE ENGLISH PROGRAMS (ELR)	3
ENG 41094	COLLEGE TEACHING ASSISTANT (ELR)	1-3
ENG 41098	GUIDED RESEARCH IN ENGLISH (ELR)	1-3
ENG 41192	ESL PRACTICUM IN A P-12 SETTING (ELR)	3
ENG 41198	RESEARCH ASSISTANT IN ENGLISH (ELR)	1-3
ENG 41292	TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM (ELR)	3,6
ENG 41392	STUDENT TEACHING (ELR)	9
ENG 42092	WRITING INTERNSHIP (ELR)	1-3
ENG 42192	SERVICE LEARNING IN ENGLISH STUDIES (ELR)	3
ENG 43092	TEACHING POETRY IN THE SCHOOLS (ELR)	3
ENG 49091	SENIOR SEMINAR (ELR) (WIC)	3
ENGR 43099	MECHATRONICS CAPSTONE (ELR) (WIC)	3
ENGR 43899	ENGINEERING TECHNOLOGY CAPSTONE (ELR) (WIC)	3
ENGR 45099	CAPSTONE: FOUNDRY TOOLING AND PATTERN MAKING (ELR)	3
ENGR 45799	AIRCRAFT DESIGN I (ELR)	3
ENGR 45899	AIRCRAFT DESIGN II (ELR) (WIC)	3
ENGR 46099	COMPUTER ENGINEERING TECHNOLOGY CAPSTONE (ELR)	3
ENGR 48099	ENGINEERING CAPSTONE I (ELR)	3
ENGR 48199	ENGINEERING CAPSTONE II (ELR) (WIC)	3
ENGT 23099	ENGINEERING TECHNOLOGY DESIGN PROJECT (ELR)	3
ENGT 33092	ENGINEERING TECHNOLOGY INTERNSHIP AND PROFESSIONAL DEVELOPMENT (ELR) (WIC)	1-3
ENGT 43092	ENGINEERING TECHNOLOGY PRACTICUM (ELR)	1-3
ENGT 43099	ENGINEERING TECHNOLOGY CAPSTONE (ELR)	3
ENOL 22092	INTERMEDIATE ENOLOGY: HARVEST AND CRUSH WITH FIELDWORK (ELR)	4
ENOL 23092	INTERMEDIATE ENOLOGY: POSTHARVEST WITH FIELDWORK (ELR)	4
ENOL 25792	FALL WINE PRODUCTION FIELD WORK (ELR)	3
ENOL 25992	CELLAR OPERATIONS FIELD WORK (ELR)	2
ENTR 47048	ENTREPRENEURIAL EXPERIENCE I (ELR)	3
ENTR 47189	INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP (DIVG) (ELR)	3
ENTR 47289	INTERNATIONAL ENTREPRENEURSHIP. THE ITALIAN PERSPECTIVE (DIVG) (ELR)	3
ENTR 47292	ENTREPRENEURIAL INTERNSHIP (ELR)	3
ENVS 42099	INTEGRATIVE SENIOR PROJECT (ELR) (WIC)	3
ENVS 46092	INTERNSHIP IN ENVIRONMENTAL STUDIES (ELR)	3-6
ESCI 22000	DEGREE AND CAREER PATHS IN EARTH SCIENCES (ELR)	1
ESCI 41092	SUMMER FIELD CAMP (ELR)	6
EXSC 43098	RESEARCH IN EXERCISE SCIENCE (ELR)	1-3
EXSC 45096	INDIVIDUAL INVESTIGATION IN EXERCISE SCIENCE (ELR)	1-3
EXSC 45492	INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR)	1-8
EYEC 10192	PRESCHOOL CLINICAL EXPERIENCE I (ELR)	1
EYEC 20192	PRESCHOOL CLINICAL EXPERIENCE II (ELR)	1
EYEC 22140	PRESCHOOL SEMINAR: SUPPORTING A CULTURALLY SUSTAINING PEDAGOGY (ELR)	2
EYEC 22192	PRESCHOOL STUDENT TEACHING (ELR)	2
FDM 30189	FLORENCE FASHION DESIGN STUDIO I (DIVG) (ELR)	6
FDM 30190	NEW YORK CITY FASHION DESIGN STUDIO I (ELR)	6
FDM 30289	FLORENCE FASHION DESIGN STUDIO II (DIVG) (ELR)	6
FDM 30290	NEW YORK CITY FASHION DESIGN STUDIO II (ELR)	6
FDM 30389	PARIS FASHION DESIGN STUDIO I (DIVG) (ELR)	6
FDM 30489	PARIS FASHION DESIGN STUDIO II (DIVG) (ELR)	6
FDM 35089	INTERNATIONAL EXPERIENCE: THE PARISIAN LUXURY MARKET (DIVG) (ELR)	3
FDM 35589	INTERNATIONAL EXPERIENCE: ITALIAN FASHION AND CULTURE (DIVG) (ELR)	3
FDM 35689	INTERNATIONAL EXPERIENCE: EUROPEAN FASHION MARKETING (DIVG) (ELR)	3
FDM 35789	INTERNATIONAL EXPERIENCE: EUROPEAN FASHION MARKETING SEMINAR (DIVG) (ELR)	3
FDM 35889	INTERNATIONAL EXPERIENCE: EUROPEAN FASHION DESIGN (DIVG) (ELR)	3
FDM 35989	INTERNATIONAL EXPERIENCE: EUROPEAN FASHION DESIGN SEMINAR (DIVG) (ELR)	3
FDM 36589	INTERNATIONAL EXPERIENCE: PARISIAN FASHION, CULTURE AND CRAFT (DIVG) (ELR)	3
FDM 40098	RESEARCH IN FASHION DESIGN AND MERCHANDISING (ELR)	1-3
FDM 40099	SENIOR FASHION DESIGN THESIS I (ELR)	6

FDM 40199	SENIOR FASHION DESIGN THESIS II (ELR)	3
FDM 40299	APPLIED PRINCIPLES IN FASHION MERCHANDISING (ELR)	3
FDM 45192	INTERNSHIP IN FASHION MERCHANDISING (ELR)	3
FDM 45292	INTERNSHIP IN FASHION DESIGN (ELR)	3
FDM 45392	FIELD EXPERIENCE: FASHION STUDY TOUR (ELR)	1-3
FDM 45589	INTERNATIONAL EXPERIENCE: EUROPEAN FASHION STUDY TOUR FOR FLORENCE STUDENTS (DIVG) (ELR)	3
FDM 45590	STUDY TOUR FOR NYC STUDIO STUDENTS (ELR)	3
FDM 45689	INTERNATIONAL EXPERIENCE: PARISIAN FASHION STUDY TOUR FOR PARIS STUDENTS (DIVG) (ELR)	3
FIN 46059	APPLIED FINANCIAL MANAGEMENT STRATEGIES (ELR) (WIC)	3
FIN 46089	INTERNATIONAL FINANCE EXPERIENCE (DIVG) (ELR)	3
FIN 46192	INTERNSHIP IN FINANCE (ELR)	3
FR 10089	BASIC CONVERSATIONAL FRENCH (DIVG) (ELR)	2
FR 20089	BASIC PROFESSIONAL FRENCH (DIVG) (ELR)	2
FR 33335	INTRODUCTION TO FRENCH THEATRE (ELR) (WIC)	3
FR 33336	INTRODUCTION TO FRENCH POETRY (ELR) (WIC)	3
FR 33337	INTRODUCTION TO FRENCH LITERARY PROSE (ELR) (WIC)	3
GEOG 32023	FOOD AND PLACE (ELR)	3
GEOG 40191	SEMINAR IN GEOGRAPHY (ELR) (WIC)	3
GEOG 40192	PRACTICUM IN GEOGRAPHY (ELR)	1-3
GEOG 40199	CAPSTONE IN APPLIED GEOGRAPHY (ELR) (WIC)	3
GEOG 40392	PRACTICUM IN EMERGING GEOGRAPHIC TRENDS (ELR)	1-6
GEOG 40492	STUDY AWAY IN GEOGRAPHY (ELR)	1-3
GEOG 46092	INTERNSHIP IN GEOGRAPHY AND PLANNING (ELR)	3-6
GEOG 49098	RESEARCH IN GEOGRAPHIC INFORMATION TECHNOLOGY (ELR)	1-3
GEOG 49198	RESEARCH IN CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS (ELR)	1-3
GER 41216	CONTEMPORARY GERMAN CULTURE (ELR) (WIC)	3
GER 41230	ADVANCED TRANSLATION PRACTICE: GERMAN (ELR) (WIC)	3
GER 41330	TWENTIETH-CENTURY GERMAN AUTHORS (ELR) (WIC)	3
GER 41399	RESEARCH PROJECT IN GERMAN LITERATURE (ELR)	3
GERO 44092	PRACTICUM IN GERONTOLOGY (ELR)	3,6
HDF 42089	HUMAN DEVELOPMENT AND FAMILY SCIENCE INTERNATIONAL EXPERIENCE (DIVG) (ELR)	3
HDF 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	3
HDF 44089	FAMILIES IN FLORENCE, ITALY: LOVE, PARENTING AND POLICY (DIVG) (ELR)	3
HDF 44092	PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY SCIENCE (ELR)	3-6
HDF 45089	LIFESPAN DEVELOPMENT PRACTICES AND OUTCOMES: THE ITALIAN EXPERIENCE (DIVG) (ELR)	3
HED 42392	STUDENT TEACHING IN HEALTH EDUCATION (ELR)	9
HED 44092	INTERNSHIP IN COMMUNITY HEALTH EDUCATION (ELR)	9
HEM 43092	PRACTICUM IN HOSPITALITY AND EVENT MANAGEMENT (ELR)	1-6
HEM 43099	CAPSTONE: STRATEGIC HOSPITALITY AND EVENT MANAGEMENT (ELR)	2
HIST 40092	INTERNSHIP IN HISTORY (ELR)	3
HIST 49091	SENIOR SEMINAR IN HISTORY (ELR) (WIC)	3
HIST 49199	SENIOR HONORS PROJECT (ELR)	3-6
HONR 40099	SENIOR HONORS THESIS/PROJECT (ELR)	1-10
HORT 35092	HORTICULTURE PRACTICUM (ELR)	3
HORT 36092	INTERNSHIP IN HORTICULTURE (ELR)	1-4
HORT 46092	PRACTICUM IN HORTICULTURE (ELR)	3
HRM 34189	INTERNATIONAL EXPERIENCE IN HUMAN RESOURCE MANAGEMENT (DIVG) (ELR)	3
HRM 44492	BUSINESS EXPERIENCE AND INTERNSHIP IN HUMAN RESOURCE MANAGEMENT (ELR)	3
HRM 44499	HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR)	3
HSRV 21092	INTERNSHIP IN HUMAN SERVICES I (ELR)	3
HSRV 21192	INTERNSHIP IN HUMAN SERVICES II (ELR)	3
ID 44592	PROFESSIONAL INTERIOR DESIGN INTERNSHIP (ELR)	1-4
IGST 40099	SENIOR PROJECT (ELR) (WIC)	3
IGST 40192	INTERNSHIP IN INTEGRATIVE STUDIES (ELR)	3-6
IHS 44092	PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR)	3-10
INS 49092	INSURANCE PRACTICUM GENERAL (ELR)	3
INTS 40089	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	3
INTS 40092	INTERNSHIP (ELR)	1-6
INTS 40799	CAPSTONE IN INTERNATIONAL STUDIES (ELR) (WIC)	3
IT 21092	PRACTICUM FOR INFORMATION TECHNOLOGY (ELR)	1-3
IT 36392	INTERNSHIP FOR INFORMATION TECHNOLOGY STUDENTS (ELR)	1-3
ITAL 35332	RECENT ITALIAN LITERATURE (ELR)	3
JWST 30092	INTERNSHIP IN JEWISH STUDIES (ELR)	3-6
JWST 40089	STUDY ABROAD (DIVG) (ELR)	1-4
JWST 40090	STUDY AWAY (ELR)	1-4
KBT 22092	PRACTICUM I:DESIGN/TECHNOLOGY (ELR)	3
KBT 22192	PRACTICUM I:PERFORMANCE (ELR)	3
KBT 41992	THEATRE PRODUCTION INTERNSHIP (ELR)	1-6
KBT 42092	PRACTICUM II: DESIGN/TECHNOLOGY (ELR)	3
KBT 42192	PRACTICUM II:PERFORMANCE (ELR)	3
LGBT 31138	LGBTQ RESEARCH METHODS (ELR)	3
LGBT 40192	PRACTICUM IN LGBTQ STUDIES (ELR)	3-6
LTCA 43092	INTERNSHIP ADMINISTRATOR RESIDENCY I (ELR)	9
LTCA 43192	INTERNSHIP ADMINISTRATOR RESIDENCY II (ELR)	9
MA 10092	MEDICAL ASSISTING PRACTICUM (ELR)	3
MATH 19099	FIELD EXPERIENCE IN MATHEMATICS INSTRUCTION (ELR)	1

MATH 21092	COMPUTER PRACTICUM (ELR)	2
MATH 40055	ACTUARIAL MATHEMATICS I (ELR) (WIC)	4
MATH 41001	MODERN ALGEBRA I (ELR) (WIC)	3
MATH 41002	MODERN ALGEBRA II (ELR) (WIC)	3
MATH 42001	ANALYSIS I (ELR) (WIC)	3
MATH 42002	ANALYSIS II (ELR) (WIC)	3
MATH 42039	MODELING PROJECTS (ELR) (WIC)	3
MATH 49992	INTERNSHIP IN MATHEMATICS (ELR)	1-3
MATH 49998	RESEARCH (ELR)	1-15
MCED 41192	MIDDLE CHILDHOOD EDUCATION GENERALIST PRACTICAL EXPERIENCE (ELR)	1
MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR)	9
MCLS 20089	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
MCLS 30089	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
MCLS 40692	STUDENT TEACHING OF A SECOND LANGUAGE (ELR)	3-9
MDJ 33092	STUDENT MEDIA PRACTICUM IN DIGITAL MEDIA PRODUCTION (ELR)	1-3
MDJ 40092	INTERNSHIP (ELR)	1-3
MDJ 40099	SENIOR HONORS PROJECT IN MEDIA AND JOURNALISM (ELR)	2-4
MDJ 41099	ADVERTISING CAMPAIGNS (ELR)	3
MDJ 41192	PRACTICUM IN ADVERTISING AND PUBLIC RELATIONS (ELR)	3
MDJ 41199	CAPSTONE: CAMPAIGNS IN ADVERTISING AND PUBLIC RELATIONS (ELR)	3
MDJ 48099	CAPSTONE: PUBLIC RELATIONS CAMPAIGNS (ELR)	3
MDJ 49099	PRODUCTION II (ELR)	3
MGMT 44192	INTERNSHIP IN MANAGEMENT (ELR)	3
MGMT 44299	MANAGEMENT CAPSTONE (ELR) (WIC)	3
MGMT 44392	BUSINESS CONSULTING AND PRACTICUM (ELR)	3
MKTG 45084	MARKETING POLICIES AND STRATEGIES (ELR) (WIC)	3
MKTG 45189	INTERNATIONAL EXPERIENCE IN MARKETING (DIVG) (ELR)	3
MKTG 45192	SALES INTERNSHIP (ELR)	3
MKTG 45292	MARKETING INTERNSHIP (ELR)	3
MSSH 40089	STUDY ABROAD (DIVG) (ELR)	1-4
MSSH 40090	STUDY AWAY (ELR)	1-4
MSSH 40092	INTERNSHIP (ELR)	1-6
MUS 38599	RECITAL (ELR)	1
MUS 40092	MUSIC TECHNOLOGY INTERNSHIP (ELR)	2
MUS 41299	SENIOR PROJECT:MUSIC COMPOSITION (ELR)	2
MUS 42392	STUDENT TEACHING (ELR)	9
MUS 48598	MUSIC RESEARCH (ELR)	2,3
MUS 48599	CAPSTONE RECITAL (ELR)	1
MUS 48699	COMPOSITION RECITAL (ELR)	2
MUS 49525	SEMINAR FOR STUDENT TEACHING (ELR)	3
NEUR 30889	BEAUTY AND THE BRAIN: EXPLORING FLORENCE THROUGH THE SENSES (DIVG) (ELR)	3
NEUR 40192	INTERNSHIP IN NEUROSCIENCE (ELR)	3-12
NRST 20092	ADN NURSING PRACTICE INTERNSHIP (ELR)	1-4
NURS 40045	INTEGRATION OF LEADERSHIP AND MANAGEMENT IN NURSING (ELR)	6
NURS 40089	INTERNATIONAL HEALTH CARE POLICIES (DIVG) (ELR) (WIC)	3
NURS 40092	NURSING PRACTICE INTERNSHIP (ELR)	1-4
NURS 41089	INTERNATIONAL EXPERIENCE HEALTH CARE POLICES (DIVG) (ELR)	3
NURS 43001	HEALTH PROMOTION IN PROFESSIONAL NURSING PRACTICE (ELR)	3
NURS 47099	CAPSTONE FOR PROFESSIONAL NURSING PRACTICE (ELR) (WIC)	3
NUTR 43515	COMMUNITY NUTRITION (ELR)	3
NUTR 45092	PRACTICUM IN NUTRITION (ELR)	1-3
NUTR 45098	RESEARCH IN NUTRITION (ELR)	1-3
OGE 10095	SPECIAL TOPICS: STUDY ABROAD (DIVG) (ELR)	0
OTA 10192	FIELDWORK 1A (ELR)	1
OTA 20392	FIELDWORK 1B (ELR)	1
OTA 20492	FIELDWORK 1C (ELR)	1
OTA 21092	CLINICAL APPLICATIONS I (ELR)	4
OTA 21192	CLINICAL APPLICATIONS II (ELR)	4
OTEC 26692	INTERNSHIP FOR OFFICE TECHNOLOGY (ELR)	2-3
PACS 35092	INTERNSHIP IN PEACE AND CONFLICT STUDIES (ELR)	1-9
PACS 40089	INTERNATIONAL EXPERIENCE: PEACE AND CONFLICT STUDIES (DIVG) (ELR)	1-4
PACS 40090	STUDY AWAY: PEACE AND CONFLICT STUDIES (ELR)	1-4
PESP 45092	INTERNSHIP IN PHYSICAL EDUCATION (ELR)	2-4
PESP 45692	INTERNSHIP IN ATHLETIC COACHING (ELR)	2-4
PESP 49592	STUDENT TEACHING IN PHYSICAL EDUCATION (ELR)	12
PH 15092	PUBLIC HEALTH FIELD EXPERIENCE I (ELR)	1-3
PH 20392	COMMUNITY HEALTH WORKER CERTIFICATION II-INTERNSHIP (ELR)	3
PH 25092	PUBLIC HEALTH FIELD EXPERIENCE II (ELR)	1-3
PH 35001	COMMUNITY-BASED PUBLIC HEALTH PRACTICE (ELR)	3
PH 40089	GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND (DIVG) (ELR)	1-3
PH 40092	INTERNATIONAL HEALTH PRACTICUM (ELR)	3-6
PH 40100	VECTOR-BORNE AND ZOONOTIC DISEASES (ELR)	3
PH 40103	FOOD PROTECTION (ELR)	3
PH 40105	WATER AND WASTEWATER MANAGEMENT (ELR)	3
PH 41092	FIELD EXPERIENCE IN MEETING THE BASIC HEALTH AND HUMAN NEEDS (ELR)	3
PH 42092	ENVIRONMENTAL, OCCUPATIONAL, HEALTH AND SAFETY INTERNSHIP (ELR)	4-6
PH 43089	PLAGUES THAT SHAPED THE WORLD (DIVG) (ELR)	3
PH 43092	INTERNSHIP IN CLINICAL TRIALS RESEARCH (ELR)	3-6
PH 44092	INTERNSHIP IN PUBLIC HEALTH (ELR)	3-6
PH 45092	SERVICE LEARNING PRACTICUM IN COMMUNITY-BASED PUBLIC HEALTH (ELR)	3
PH 49000	CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR)	3
PHIL 30025	ENVIRONMENTAL PHILOSOPHY (ELR)	3
PHIL 31060	PHILOSOPHY OF ART AND BEAUTY (ELR)	3
PHIL 49999	SENIOR HONORS PROJECT (ELR)	2,3
PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1

PHY 40092	INTERNSHIP IN PHYSICS (ELR)	1-3
PHY 40096	INDIVIDUAL INVESTIGATION (ELR)	1-3
PHY 40099	SENIOR HONORS THESIS (ELR)	1-10
PLST 36792	INTERNSHIP IN PARALEGAL (ELR)	3-12
POL 30001	RESEARCH METHODS (ELR)	3
POL 39592	GENEVA INTERNSHIP (ELR)	3
POL 40589	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
POL 40992	INTERNSHIP (ELR)	1-3
POL 41990	COLUMBUS PROGRAM IN STATE ISSUES (ELR)	15
POL 42990	WASHINGTON PROGRAM IN NATIONAL ISSUES (ELR)	15
POL 43499	CAPSTONE IN GLOBAL ISSUES (ELR)	1
PROS 44092	PRACTICUM IN PROFESSIONAL STUDIES (ELR)	1-12
PSYC 31498	UNDERGRADUATE RESEARCH (ELR)	1-6
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
PSYC 41492	INTERNSHIP IN PSYCHOLOGY (ELR)	1-6
PSYC 41498	INDIVIDUAL INVESTIGATION (ELR)	1-6
PTST 11092	CLINICAL EDUCATION I (ELR)	1
PTST 22092	CLINICAL EDUCATION PRACTICUM II (ELR)	2
PTST 22392	ATHLETIC TRAINING PLUS PHYSICAL THERAPIST ASSISTANT CLINICAL EDUCATION PRACTICUM (ELR)	4
PTST 23092	CLINICAL EDUCATION PRACTICUM III (ELR)	2
RADT 25092	MAMMOGRAPHY CLINICAL (ELR)	2
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM)	3
REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM)	3
RIS 44092	COMPUTED TOMOGRAPHY/MAGNETIC RESONANCE INTERNSHIP (ELR)	1-3
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
RPTM 46092	INTERNSHIP IN RECREATION (ELR)	9
RSPC 41092	PRACTICUM FOR RESPIRATORY CARE (ELR)	3
RUSS 32303	MODERN WRITERS (ELR) (WIC)	3
RUSS 32421	RUSSIAN CIVILIZATION (ELR) (WIC)	3
RUSS 42230	ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC)	3
SEPP 45092	PRACTICUM IN SPORT PERFORMANCE (ELR)	1-3
SOC 31092	PRACTICUM IN SOCIOLOGY (ELR)	1-3
SOC 32210	RESEARCHING SOCIETY (ELR) (WIC)	3
SOC 42092	INTERNSHIP IN SOCIOLOGY (ELR)	3
SPA 43405	CLINICAL PREPARATION IN AUDIOLOGY (ELR)	2
SPA 44089	VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY (DIVG) (ELR)	1-4
SPA 44311	CLINICAL PREPARATION IN SPEECH-LANGUAGE PATHOLOGY (ELR) (WIC)	2
SPAD 25092	PRACTICUM I IN SPORT ADMINISTRATION (ELR)	1-3
SPAD 25192	PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT I (ELR)	1-3
SPAD 35092	PRACTICUM II IN SPORT ADMINISTRATION (ELR)	1-3
SPAD 35192	PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT II (ELR)	1-3
SPAD 45092	INTERNSHIP IN SPORT ADMINISTRATION (ELR)	3-12
SPAD 45192	INTERNSHIP IN PROFESSIONAL GOLF MANAGEMENT (ELR)	2-12
SPAN 18489	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
SPAN 28489	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
SPAN 38330	EARLY SPANISH LITERATURE (ELR) (WIC)	3
SPAN 38331	RECENT SPANISH LITERATURE (ELR) (WIC)	3
SPAN 38334	EARLY SPANISH-AMERICAN LITERATURE (ELR) (WIC)	3
SPAN 38335	RECENT SPANISH-AMERICAN LITERATURE (ELR) (WIC)	3
SPAN 38489	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	1-4
SPAN 48230	ADVANCED TRANSLATION PRACTICE: SPANISH (ELR) (WIC)	3
SPED 43309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC)	3
SPED 43392	PRACTICUM: DEAF EDUCATION (ELR)	1-3
SPED 44092	FIELD EXPERIENCE 1 FOR INTERVENTION SPECIALISTS (ELR)	3
SPED 44192	FIELD EXPERIENCE 2 FOR INTERVENTION SPECIALISTS (ELR)	3
SPED 44492	STUDENT TEACHING IN SPECIAL EDUCATION (ELR)	4-9
SPED 45089	VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION (DIVG) (ELR)	1-4
SPED 45090	VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION (ELR)	1-4
SWK 44192	FIELD EXPERIENCE I (ELR)	3
SWK 44292	FIELD EXPERIENCE II (ELR)	3
SWK 44299	SOCIAL WORK CAPSTONE (ELR) (WIC)	3
TAS 20092	PRACTICUM FOR TECHNICAL AND APPLIED STUDIES (ELR)	1-3
TAS 40092	INTERNSHIP FOR TECHNICAL AND APPLIED STUDIES (ELR)	1-3
TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC)	3
THEA 14092	BACHELOR OF FINE ARTS INTRODUCTORY PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	1
THEA 22092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	1
THEA 22192	PRACTICUM I:PERFORMANCE (ELR)	3
THEA 22292	PRACTICUM I:THEATRE MANAGEMENT (ELR)	3
THEA 23092	BACHELOR OF FINE ARTS PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	1
THEA 33092	BACHELOR OF FINE ARTS JUNIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	2
THEA 41089	INTERNATIONAL EXPERIENCE: THEATRE AND SOCIAL CHANGE IN CZECHIA (DIVG) (ELR)	3
THEA 41499	MUSICAL THEATRE SHOWCASE (ELR)	2
THEA 41999	CAPSTONE PROJECT (ELR)	1-3
THEA 42092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	3
THEA 42192	PRACTICUM II: PERFORMANCE (ELR)	3
THEA 42292	PRACTICUM II: THEATRE MANAGEMENT (ELR)	3
THEA 42999	PORTHOUSE PERFORMANCE EXPERIENCE (ELR)	3
UC 10192	EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR)	1
UC 20292	EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR)	1
UC 30392	EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR)	1
UC 40492	EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR)	1
VCD 40089	GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE (DIVG) (ELR)	3

VCD 40192	INTERNSHIP (ELR)	1-3
VCD 48092	PRACTICUM IN PHOTOGRAPHY (ELR)	1-3
VCD 49198	WRITING FOR PROFESSIONAL PRACTICE (ELR) (WIC)	2
VCD 49199	CAPSTONE PROJECT (ELR)	3
VIN 11392	WINTER VITICULTURE FIELDWORK (ELR)	2
VIN 11492	SPRING VITICULTURE FIELDWORK (ELR)	2
VIN 11592	SUMMER/FALL VITICULTURE FIELDWORK (ELR)	2
VIN 28992	BREWERY PRODUCTION FIELD EXPERIENCE (ELR)	2
VTEC 20392	PRACTICUM IN VETERINARY HOSPITAL (ELR)	5
WMST 40992	PRACTICUM IN WOMEN'S STUDIES (ELR)	3
WMST 41199	CAPSTONE IN WOMEN'S STUDIES (ELR)	3

Kent Core (General Education Requirement)

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

The Kent Core is the foundation of the university's mission to prepare students to live in today's complex, global society. It broadens intellectual perspectives, fosters ethical and humanitarian values and prepares students for responsible citizenship and productive careers. Through this learning experience, students develop the intellectual flexibility they need to adapt to an ever-changing world.

Kent Core courses enable students to:

- Acquire critical-thinking and problem-solving skills
- Apply principles of effective written and oral communication
- Broaden their imagination and develop their creativity
- Cultivate their natural curiosity and begin a lifelong pursuit of knowledge
- Develop competencies and values vital to responsible uses of information and technology
- Engage in independent thinking, develop their own voice and vision and become informed, responsible citizens
- Improve their understanding of issues and behaviors concerning inclusion, community and tolerance
- Increase their awareness of ethical implications of their own and others' actions
- Integrate their major studies into the broader context of a liberal education
- Strengthen quantitative reasoning skills
- Understand basic concepts of the academic disciplines

Although not every Kent Core course will address all these goals, learning within the Kent Core as a whole enables students to acquire the tools for living rich and meaningful lives in a diverse society.

Requirements

- As part of the requirements for any bachelor's degree and the Associate of Arts and Associate of Science degrees, all students must complete a minimum 36-37 credit hours of the Kent Core distributed as indicated within the specific categories.
- As part of the requirements for any applied and technical associate degrees (A.A.B., A.A.S., A.T.S.), all students must complete a minimum 15 credit hours of the Kent Core distributed as indicated within the specific categories.
- Colleges or degree programs may augment the university's minimum Kent Core, and they may specify for their students certain courses in fulfillment of the requirements. It is essential, therefore, that students consult that section of the catalog for their college and degree program.
- The Kent Core should normally be completed within the 60 credit hours that immediately follow the first date of enrollment in a bachelor's degree program.
- Honors equivalents shall satisfy the Kent Core.
- None of the courses on the Kent Core list may be taken pass/fail.

Transfer Credit, Proficiency Testing and Other Options in Meeting the Kent Core

1. Certain alternatives to formal Kent State coursework may be recognized in the fulfilling of the Kent Core.
2. Credits earned for specified courses within the Kent Core course list through external credit-conferring testing programs, such as the College Board Advanced Placement and College Level Examination Program (CLEP), will be applied toward the fulfillment of the Kent Core as appropriate for the specific courses for which credit is received.
3. Courses transferred from accredited post-secondary institutions will be applied toward fulfillment of the Kent Core as appropriate for the specific courses for which credit is awarded.
4. The university's Credit-By-Examination (CBE) program may be utilized in fulfillment of the Kent Core within the conditions, guidelines and policies established for that program and for the course (s) for which credit is sought.
5. Proficiency, as established by placement examinations or other recognized procedures and mechanisms for this purpose, can be used to fulfill Categories I (Composition) and II (Mathematics and Critical Reasoning) of the Kent Core. For example, students who are placed into ENG 21011 and complete it with a passing grade will have met the Category I. It is assumed that students who are placed at and pass the higher level of one of these sequenced courses have also mastered the content of the prerequisite course. While students may meet the requirements of Categories I and II through proficiency, minimum credit hours must be met in Categories III, IV, V and VI. Students meeting Categories I and II requirements through proficiency must substitute other courses, which shall be elective, to earn the minimum credit hours required for the bachelor's or associate degree.

To fulfill the purposes of general education, any of the above alternatives to the fulfillment of the Kent Core by formal coursework at Kent State University must be exercised by the students within the first 60 credit hours of academic credits earned at and/or transferred to Kent State University.

Students who transfer to the university with more than 45 credit hours of applicable credits (including students with associate's degrees in technology from the Kent State University Regional Campuses or those who transfer to bachelor's-level programs from associate-level technology programs) must exercise such option(s) within the first calendar year of their Kent State University enrollment.

Post-undergraduate students who have earned a baccalaureate from a regionally accredited institution will be deemed to have completed the equivalent of the university's Kent Core requirement. By virtue of having earned a bachelor's degree, these students will be recognized as

having completed their general education requirements. If they pursue an academic program at Kent State University that requires specific courses that are also in the Kent Core but are unmet, they can be held to those requirements because the courses are considered program requirements first and foremost.

Kent State students who update their official catalog from a year prior to 2010 to the current catalog year will be given special consideration in determining completion of the Kent Core. If students have met all of the general education requirements (or Liberal Education Requirement) in their prior catalog, their Kent Core will be considered complete. Students must contact their advisor to determine eligibility.

Kent Core for the Associate of Arts (A.A.), Associate of Science (A.S.) and Bachelor's degrees

Code	Title	Credit Hours
I. Composition		6
II. Mathematics and Critical Reasoning		3
III. Humanities and Fine Arts		9
IV. Social Sciences		6
V. Basic Sciences		6-7
VI. Additional		6
Minimum Total Credit Hours:		**36-37**

Kent Core course listing in PDF format

Kent Core for A.A.B, A.A.S and A.T.S. degrees

Code	Title	Credit Hours
I. Composition		3
II. Mathematics and Critical Reasoning		3
III. Humanities and Fine Arts		3
IV. Social Sciences		3
V. Basic Sciences		3
Minimum Total Credit Hours:		**15**

Kent Core course listing in PDF format

Kent Core Coursework

I. Composition

Code	Title	Credit Hours
ENG 11011	COLLEGE WRITING (KCMP) (OT36 for both courses)	3
or ENG 11002	COLLEGE WRITING-STRETCH (KCMP)	
ENG 21011	RESEARCH WRITING (KCMP) (OT36)	3
HONR 10197	FRESHMAN HONORS COLLOQUIUM I (KCMP)	3
HONR 10297	FRESHMAN HONORS COLLOQUIUM II (KCMP)	3

II. Mathematics and Critical Reasoning

Code	Title	Credit Hours
CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	4
MATH 10041	INTRODUCTORY STATISTICS (KMCR) (OT36 for both courses)	4
or MATH 10040	INTRODUCTORY STATISTICS PLUS (KMCR)	
MATH 10051	QUANTITATIVE REASONING (KMCR) (OT36 for both courses)	4
or MATH 10050	QUANTITATIVE REASONING PLUS (KMCR)	
MATH 11008	EXPLORATIONS IN MODERN MATHEMATICS (KMCR)	3
MATH 11009	MODELING ALGEBRA (KMCR) [1]	4-5
or MATH 10772	MODELING ALGEBRA PLUS (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (OT36) [2]	3-4
or MATH 10675	ALGEBRA FOR CALCULUS BOOST (KMCR)	
or MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR) (OT36)	3
MATH 11022	TRIGONOMETRY (KMCR) (OT36)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (OT36)	5
MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR) (OT36)	3
MATH 12012	CALCULUS WITH PRECALCULUS II (KMCR) (OT36)	3
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR) [3]	4-5
or MATH 10771	BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR)	
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR) (OT36)	3

III. Humanities and Fine Arts

Minimum one course must be selected from the Humanities in Arts and Sciences area, and minimum one course must be selected from the Fine Arts area.

Code	Title	Credit Hours
Humanities in Arts and Sciences		
AFS 23001	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	3
AFS 23002	BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM)	3
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM) (OT36)	3
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM) (OT36)	3
ENG 21054	INTRODUCTION TO SHAKESPEARE (KHUM) (OT36)	3
ENG 22071	STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM) (OT36)	3
ENG 22072	STORIES TO SAVE THE WORLD: LITERATURE AND THE FUTURE OF HUMANITY (KHUM) (OT36)	3
ENG 22073	MAJOR MODERN WRITERS: BRITISH AND UNITED STATES (KHUM) (OT36)	3
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM) (OT36)	3
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM) (OT36)	3

HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM) (OT36)	3
HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM) (OT36)	3
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) (OT36)	3
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM) (OT36)	3
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM) (OT36)	3
REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM) (OT36)	3
Humanities in Communication and Information		
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM) (OT36)	3
Fine Arts		
ARCH 10001	UNDERSTANDING ARCHITECTURE (KFA) (OT36)	3
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA) (OT36)	3
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA) (OT36)	3
ARTH 12001	ART AS A WORLD PHENOMENON (KFA) (OT36)	3
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA) (OT36)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA) (OT36)	3
ARTH 22021	ART HISTORY: AFRICAN ART (DIVG) (KFA)	3
DAN 27076	DANCE AS AN ART FORM (DIVG) (KFA) (OT36)	3
MUS 22111	UNDERSTANDING WESTERN MUSIC (KFA) (OT36)	3
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA) (OT36)	3
THEA 11000	THE ART OF THE THEATRE (DIVG) (KFA) (OT36)	3

IV. Social Sciences

Courses must be selected from two curricular areas.

Code	Title	Credit Hours
ANTH 18210	INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS) (OT36)	3
ANTH 18420	INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS) (18420)	3
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS) (OT36)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS) (OT36)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS) (OT36)	3
ENVS 22070	NATURE AND SOCIETY (KSS) (OT36)	3
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS) (OT36)	3
GEOG 17064	GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS) (OT36)	3
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS) (OT36)	3
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS) (OT36)	3
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS) (OT36)	3
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS) (OT36)	3
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS) (OT36)	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS) (OT36)	3
POL 10500	WORLD POLITICS (DIVG) (KSS) (OT36)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS) (OT36)	3
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS) (OT36)	3
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS) (OT36)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS) (OT36)	3
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS) (OT36)	3

V. Basic Sciences

Minimum one laboratory course (marked "KLAB") must be selected. Students taking a 1-credit hour science lab course must take the lecture course in the same or previous term.

Code	Title	Credit Hours
ANTH 18630	HUMAN EVOLUTION (KBS)	3
ANTH 18631	ISSUES IN HUMAN EVOLUTION (KBS) (KLAB) (OT36)	1
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
or EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 10001	HUMAN BIOLOGY (KBS) (OT36)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS) (OT36)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB) (OT36)	1
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB) (OT36) [5]	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB) (OT36) [5]	4
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) (OT36) [5]	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) (OT36) [5]	3
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) (OT36) [5]	4
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS) (OT36)	3
CHEM 10031	CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB) (OT36)	1
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS) (OT36)	3
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
or CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
or CHEM 11060	GENERAL CHEMISTRY I BOOST (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 10055	MOLECULES OF LIFE (KBS)	3
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
or CHEM 10971	HONORS GENERAL CHEMISTRY II (KBS)	
ESCI 11040	HOW THE EARTH WORKS (KBS) (OT36)	3
ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) (OT36)	1

ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS) (OT36)	3
ESCI 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB) (OT36)	1
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS) (OT36)	3
ESCI 21080	ALL ABOUT THE OCEANS (KBS) (OT36)	3
GEOG 21062	PHYSICAL GEOGRAPHY (KBS) (OT36)	3
GEOG 21063	PHYSICAL GEOGRAPHY LABORATORY (KBS) (KLAB) (OT36)	1
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS) (OT36)	3
PHY 12201	TECHNICAL PHYSICS I (KBS) (KLAB)	3
PHY 12202	TECHNICAL PHYSICS II (KBS) (KLAB)	4
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS) (OT36)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS) (OT36)	4
PHY 13012	COLLEGE PHYSICS II (KBS) (OT36)	2
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) (OT36)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) (OT36)	1
PHY 21040	PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS) (OT36)	3
PHY 21041	PHYSICS IN ENTERTAINMENT AND THE ARTS LABORATORY (KBS) (KLAB) (OT36)	1
PHY 21430	FRONTIERS IN ASTRONOMY (KBS) (OT36)	3
PHY 21431	FRONTIERS IN ASTRONOMY LABORATORY (KBS) (KLAB) (OT36)	1
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5

VI. Additional

Select courses from I.-V. Any of the following courses below may also be selected:

Code	Title	Credit Hours
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (OT36)	3
HONR 13597	COLLOQUIUM: THE WESTERN IDENTITY (KADL)	3
MCLS 20001	GLOBAL LITERACY AND CULTURAL AWARENESS (KADL)	3
PHIL 11009	CRITICAL THINKING (KADL)	3

[1] MATH 10772 and MATH 11009 are equivalent; students earn credit once.
[2] MATH 10775 is equivalent to MATH 11010; students earn credit once.
[3] MATH 10771 and MATH 14001 are equivalent; students earn credit once.
[4] ATTR 25057 and EXSC 25057 are equivalent, and ATTR 25058 and EXSC 25058 are equivalent; students earn credit once for each group.
[5] Science-related major course; not recommended for non-science majors.

Writing-Intensive Course Requirement

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

The purpose of the writing-intensive course (WIC) requirement is to assist undergraduates in becoming effective writers within their major discipline. Building on earlier writing courses, the WIC focuses on writing forms and standards used in the professional life of the discipline. Through these courses, students should understand and experience the ways in which writing shapes and enhances the acquisition and communication of knowledge.

All writing-intensive courses must meet the following criteria:

- Be designed, at least in part, to help students become effective writers in a specific discipline
- Involve a substantial amount of writing
- Provide at least one writing assignment where there is an opportunity for guided revision before grading occurs

Requirements

1. As part of the requirements for any baccalaureate, all students must satisfy the writing-intensive course requirement.
2. At least one upper-division course from the writing-intensive course list must be completed with a minimum C grade.
3. Students should fulfill the requirement by taking a course in the major. In rare instances, a student may use a writing-intensive course from another discipline if approved by the student's major department or school.

Courses

Code	Title	Credit Hours
ACCT 43010	PRINCIPLES OF AUDITING (ELR) (WIC)	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
AERN 42799	STRATEGIC AVIATION MAINTENANCE MANAGEMENT CAPSTONE (ELR) (WIC)	2
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
AFS 37000	ORAL AND WRITTEN DISCOURSES IN AFRICANA STUDIES (WIC)	3
AFS 47099	SENIOR SEMINAR IN AFRICANA STUDIES (ELR) (WIC)	3
AGD 43092	INTERNSHIP IN ANIMATION AND GAME DESIGN (ELR) (WIC)	1-3
AGD 49999	SENIOR CAPSTONE PROJECT (ELR) (WIC)	3
AGRI 45000	SENIOR SEMINAR (WIC)	3
ANTH 38480	ARCHAEOLOGICAL ANALYSIS (ELR) (WIC)	3
ANTH 48214	POLITICS OF CULTURE (ELR) (WIC)	3
ANTH 48225	ARCHAEOLOGY OF DEATH (ELR) (WIC)	3
ARCH 30001	SITE DESIGN (WIC)	1
ARCH 30031	ARCHITECTURAL DISCOURSES (WIC)	3
ARCH 40001	SUSTAINABLE DESIGN (WIC)	1
ARCS 40114	THEORY AND CRITICISM IN ARCHITECTURAL MEDIA (WIC)	3
ART 40008	PROFESSIONAL PRACTICES IN VISUAL ARTS (WIC)	3
ART 40099	B.A. STUDIO ART CAPSTONE (ELR) (WIC)	3

ARTE 41192	ART EDUCATION: FIELD EXPERIENCE (ELR) (WIC)	3
ARTH 32000	RESEARCH AND WRITING IN ART HISTORY (WIC)	3
ASEI 43113	ASL TO ENGLISH INTERPRETING PROCESSES (WIC)	3
ASL 39223	SOCIOLINGUISTICS OF THE DEAF COMMUNITY (WIC)	3
ASL 49309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC)	3
ATTR 43018	ETHICAL LEADERSHIP FOR HEALTH CARE (WIC)	3
BA 44065	STRATEGIES IN PRODUCTION AND OPERATIONS MANAGEMENT (WIC)	3
BA 44099	CAPSTONE IN BUSINESS ANALYTICS (ELR) (WIC)	3
BSCI 40159	MOLECULAR BIOLOGY LABORATORY (ELR) (WIC)	3
BSCI 40520	BEHAVIORAL EVOLUTION (WIC)	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
BTEC 40210	CASE STUDIES IN BIOTECHNOLOGY (WIC)	3
CAE 45092	AERONAUTICS AND ENGINEERING INTERNSHIP/COOPERATIVE EDUCATION (ELR) (WIC)	1-3
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
CHEM 30108	ANALYTICAL CHEMISTRY LABORATORY II (WIC)	2
CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC)	2
CIS 44048	BUILDING SOLUTIONS FOR BUSINESSES (ELR) (WIC)	3
CLAS 41304	LITERATURE OF THE ROMAN WORLD (ELR) (WIC)	3
CLAS 41503	LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC)	3
CMGT 33092	CONSTRUCTION MANAGEMENT INTERNSHIP (ELR) (WIC)	2-3
COMM 34000	DIFFICULT DECISIONS IN COMMUNICATION (WIC)	3
COMM 45902	COMMUNICATION AND INFLUENCE (WIC)	3
CS 44901	SOFTWARE DEVELOPMENT PROJECT (ELR) (WIC)	4
CS 48102	GAME DEVELOPMENT PRACTICUM (ELR) (WIC)	4
CS 49999	CAPSTONE PROJECT (ELR) (WIC)	4
CTTE 46018	DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION (WIC)	3
DAN 47163	DANCE HISTORY II (WIC)	3
ECED 40127	DEVELOPING A BALANCED LITERACY PROGRAM (WIC)	3
ECED 40403	TEACHING WRITERS IN THE ELEMENTARY YEARS (WIC)	3
ECON 42191	SENIOR SEMINAR IN ECONOMICS (WIC)	3
EMAT 41510	PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC)	3
ENG 31006	WORLD ENGLISHES (DIVG) (WIC)	3
ENG 41001	SOCIOLINGUISTICS IN SCHOOLING (DIVD) (WIC)	3
ENG 49091	SENIOR SEMINAR (ELR) (WIC)	3
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
ENGR 43099	MECHATRONICS CAPSTONE (ELR) (WIC)	3
ENGR 43899	ENGINEERING TECHNOLOGY CAPSTONE (ELR) (WIC)	3
ENGR 45899	AIRCRAFT DESIGN II (ELR) (WIC)	3
ENGR 48199	ENGINEERING CAPSTONE II (ELR) (WIC)	3
ENGT 33092	ENGINEERING TECHNOLOGY INTERNSHIP AND PROFESSIONAL DEVELOPMENT (ELR) (WIC)	1-3
ENTR 37080	NEW VENTURE CREATION (WIC)	3
ENVS 42099	INTEGRATIVE SENIOR PROJECT (ELR) (WIC)	3
ESCI 31070	EARTH MATERIALS II (WIC)	4
EXSC 45081	ADVANCED PHYSIOLOGY OF EXERCISE (WIC)	3
FDM 35010	CONTEMPORARY FASHION DESIGNERS (WIC)	3
FDM 40270	FASHION INDUSTRY RESEARCH METHODS (WIC)	3
FDM 40291	SEMINAR IN FASHION MERCHANDISING (WIC)	3
FIN 46059	APPLIED FINANCIAL MANAGEMENT STRATEGIES (ELR) (WIC)	3
FR 33335	INTRODUCTION TO FRENCH THEATRE (ELR) (WIC)	3
FR 33336	INTRODUCTION TO FRENCH POETRY (ELR) (WIC)	3
FR 33337	INTRODUCTION TO FRENCH LITERARY PROSE (ELR) (WIC)	3
FR 43230	ADVANCED TRANSLATION PRACTICE:FRENCH (WIC)	3
GEOG 40191	SEMINAR IN GEOGRAPHY (ELR) (WIC)	3
GEOG 40199	CAPSTONE IN APPLIED GEOGRAPHY (ELR) (WIC)	3
GER 41216	CONTEMPORARY GERMAN CULTURE (ELR) (WIC)	3
GER 41230	ADVANCED TRANSLATION PRACTICE: GERMAN (ELR) (WIC)	3
GER 41330	TWENTIETH-CENTURY GERMAN AUTHORS (ELR) (WIC)	3
GERO 44030	RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD (WIC)	3
HDF 44023	BUILDING FAMILY STRENGTHS (WIC)	3
HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	5
HEM 43027	HOSPITALITY AND EVENT MANAGEMENT: HUMAN RESOURCE STRATEGIES (WIC)	3
HIST 49091	SENIOR SEMINAR IN HISTORY (ELR) (WIC)	3
HORT 36025	PROFESSIONAL PRACTICE IN HORTICULTURE (WIC)	3
HRM 44445	GLOBAL HUMAN RESOURCE MANAGEMENT (WIC)	3
ID 30331	DESIGN WRITING FOR INTERIORS (WIC)	1
IGST 40099	SENIOR PROJECT (ELR) (WIC)	3
IHS 44091	PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC)	3
INS 39001	INSURANCE OPERATIONS (WIC)	3
INTS 40799	CAPSTONE IN INTERNATIONAL STUDIES (ELR) (WIC)	3
IT 36318	SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC)	3
MATH 40012	THEORY OF STATISTICS (WIC)	3
MATH 40055	ACTUARIAL MATHEMATICS I (ELR) (WIC)	4
MATH 41001	MODERN ALGEBRA I (ELR) (WIC)	3
MATH 41002	MODERN ALGEBRA II (ELR) (WIC)	3
MATH 42001	ANALYSIS I (ELR) (WIC)	3
MATH 42002	ANALYSIS II (ELR) (WIC)	3
MATH 42039	MODELING PROJECTS (ELR) (WIC)	3

MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC)	6
MDJ 31002	ADVERTISING COPYWRITING (WIC)	3
MDJ 40010	ETHICS AND ISSUES IN MEDIA AND JOURNALISM (WIC)	3
MDJ 48001	MEDIA RELATIONS AND PUBLICITY (WIC)	3
MGMT 44163	GLOBAL BUSINESS MANAGEMENT (WIC)	3
MGMT 44299	MANAGEMENT CAPSTONE (ELR) (WIC)	3
MKTG 45084	MARKETING POLICIES AND STRATEGIES (ELR) (WIC)	3
MUS 32212	WESTERN MUSIC HISTORY II (WIC)	3
MUS 42165	HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC)	3
NURS 30070	HEALTH CARE POLICY (WIC)	3
NURS 40026	PROFESSIONAL AND EVIDENCE-BASED PRACTICE FOR THE ACCELERATED B.S.N. (WIC)	3
NURS 40089	INTERNATIONAL HEALTH CARE POLICIES (DIVG) (ELR) (WIC)	3
NURS 40874	EVIDENCE-BASED PRACTICE FOR NURSES (WIC)	3
NURS 47000	CAPSTONE CLINICAL FOR PROFESSIONAL NURSING PRACTICE (WIC)	3
NURS 47099	CAPSTONE FOR PROFESSIONAL NURSING PRACTICE (ELR) (WIC)	3
NUTR 43013	RESEARCH AND STATISTICAL METHODS IN NUTRITION AND DIETETICS (WIC)	3
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC)	3
PESP 35010	PSYCHOLOGICAL DIMENSIONS OF MOTOR BEHAVIOR (WIC)	3
PH 44000	HEALTH DISPARITIES (DIVD) (WIC)	3
PHIL 31091	PHILOSOPHERS IN DEPTH (WIC)	3
PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2
PLST 38006	APPLIED LEGAL RESEARCH AND LITIGATION (WIC)	3
POL 40191	SEMINAR IN AMERICAN POLITICS (WIC)	3
POL 40391	SEMINAR IN PUBLIC POLICY (WIC)	3
POL 40591	SEMINAR IN INTERNATIONAL RELATIONS-COMPARATIVE POLITICS (WIC)	3
PROS 44004	RESEARCH AND WRITINGS IN PROFESSIONAL STUDIES (WIC)	3
PSYC 41573	LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH:SOCIAL/CLINICAL (WIC)	3
PSYC 41574	LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH:COGNITIVE/ LEARNING (WIC)	3
PSYC 41901	WRITING IN PSYCHOLOGY (WIC)	1
PSYC 41980	RESEARCH WRITING IN PSYCHOLOGY (WIC)	1
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
RPTM 46030	DYNAMICS OF LEISURE BEHAVIOR (WIC)	3
RSPC 40002	RESEARCH DEVELOPMENT IN RESPIRATORY CARE (WIC)	3
RUSS 32303	MODERN WRITERS (ELR) (WIC)	3
RUSS 32421	RUSSIAN CIVILIZATION (ELR) (WIC)	3
RUSS 42230	ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC)	3
SOC 32210	RESEARCHING SOCIETY (ELR) (WIC)	3
SPA 44311	CLINICAL PREPARATION IN SPEECH-LANGUAGE PATHOLOGY (ELR) (WIC)	2
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC)	3
SPAD 45030	SPORT ENTERPRISE (WIC)	3
SPAN 38330	EARLY SPANISH LITERATURE (ELR) (WIC)	3
SPAN 38331	RECENT SPANISH LITERATURE (ELR) (WIC)	3
SPAN 38334	EARLY SPANISH-AMERICAN LITERATURE (ELR) (WIC)	3
SPAN 38335	RECENT SPANISH-AMERICAN LITERATURE (ELR) (WIC)	3
SPAN 48230	ADVANCED TRANSLATION PRACTICE: SPANISH (ELR) (WIC)	3
SPED 43309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC)	3
SPED 44951	CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC)	3
SWK 44299	SOCIAL WORK CAPSTONE (ELR) (WIC)	3
TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC)	3
THEA 41026	PLAYWRITING (WIC)	3
THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC)	3
THEA 41620	HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC)	3
VCD 49198	WRITING FOR PROFESSIONAL PRACTICE (ELR) (WIC)	2

COLLEGES

- Ambassador Crawford College of Business and Entrepreneurship
- College of Aeronautics and Engineering
- College of Applied and Technical Studies
- College of Architecture and Environmental Design
- College of Arts and Sciences
- College of Communication and Information
- College of Education, Health and Human Services
- College of Nursing
- College of Podiatric Medicine
- College of Public Health
- College of the Arts
- Graduate College
- Honors College
- University College

Ambassador Crawford College of Business and Entrepreneurship

Ambassador Crawford College of Business and Entrepreneurship
Business Administration Building
Kent Campus
330-672-2772
www.kent.edu/business

Mission of the College

Employing an entrepreneurial mindset, we generate positive impact through top-tier research, innovative education and meaningful engagement with the business community. We are guided by our core values of excellence, accountability, collaboration and respect.

Departments

- Department of Accounting
- Department of Economics
- Department of Finance
- Department of Information Systems and Business Analytics
- Department of Management
- Department of Marketing and Entrepreneurship

Undergraduate Programs

Majors

- Accounting - B.B.A.
- Business Analytics - B.B.A.
- Business Management - B.B.A.
- Computer Information Systems - B.B.A.
- Economics - B.B.A.
- Entrepreneurship - B.B.A.
- Finance - B.B.A.
- General Business - B.B.A.
- Human Resource Management - B.B.A.
- Marketing - B.B.A.

Minors

- Accounting
- Business
- Computer Information Systems
- Data Analytics
- Economics
- Entrepreneurship for Business Majors
- Entrepreneurship for Non-Business Majors
- Finance
- Healthcare Systems Management for Business Majors
- Healthcare Systems Management for Non-Business Majors
- Human Resource Management
- International Business for Business Majors
- International Business for Non-Business Majors
- Leadership
- Management for Business Majors
- Management for Non-Business Majors
- Marketing
- Military and Leadership Studies

Graduate Programs

Majors

- Accounting - M.S.A.
- Business Administration - M.B.A.
- Business Administration - Ph.D.
- Business Analytics - M.S.
- Economics - M.A.E.

Minors

- Quantitative Methods in Econometrics

Certificates

Undergraduate Certificates

- Professional Sales

Graduate Certificates

- Accounting Analytics
- Accounting Fundamentals
- Advanced Accounting
- Business Analytics
- Financial Management
- Human Resource Management
- International Business
- Leadership and Management
- Leading Through Challenge
- Quantitative Business Management

Ambassador Crawford College of Business and Entrepreneurship Faculty

Department of Accounting Faculty

- Ballestero, Ryan C. (2021), Assistant Professor, Ph.D., University of Texas - Austin, 2021
- Fang, Shunlan (2014), Associate Professor, Ph.D., Temple University, 2013
- Laksmana, Indrarini V. (2004), Professor, Ph.D., Georgia State University, 2004
- Li, Wei (2006), Associate Professor, Ph.D., Washington State University, 2006
- Loftus, Serena (2021), Assistant Professor, Ph.D., University Of Washington, 2015
- Miller, Scott E. (2019), Lecturer, M.A., The Ohio State University, 2005
- Nett, Malinda B. (2009), Associate Professor, M.Tax., University of Akron, 1995
- Sellers, R. Drew (2011), Associate Professor, D.M., Case Western Reserve University, 2008
- Tietz, Wendy M. (2000), Professor, Ph.D., Kent State University, 2007
- Zhang, R.Z. (2020), Assistant Professor, Ph.D., Tulane University, 2020

Department of Economics Faculty

- Bagheri, Omid (2017), Associate Professor, Ph.D., Virginia Polytechnic Institute and State University, 2017
- Boyd-Swan, Casey (2015), Associate Professor, Ph.D., Arizona State University , 2015
- Choi, Yoonho (2021), Assistant Professor, Ph.D., Iowa State University, 2017
- Cornelius, Rowena J. (2024), Assistant Professor, Ph.D., University Of Western Ontario
- Dechenaux, Emmanuel (2004), Professor, Ph.D., Purdue University, 2004
- Ellis, Michael A. (1990), Professor, Ph.D., Texas A&M University, Main Campus, 1991
- Engelhardt, Lucas M. (2010), Associate Professor, Ph.D., The Ohio State University, 2010
- Greenhalgh-Stanley, Nadia (2009), Professor, Ph.D., Syracuse University, 2009
- Johnson, Eric D. (2005), Associate Professor, Ph.D., University of California, San Diego , 1997
- Kim, Duhyeong (2023), Assistant Professor, Ph.D., University Of Western Ontario, 2023
- Leontieva, Ludmila (2007), Associate Professor, Ph.D., Rostov State University, 1991
- Liu, Dandan (2008), Professor, Ph.D., Texas A&M University, Main Campus, 2005
- Mukherjee, Deepraj (2012), Professor, Ph.D., University of Memphis, 2010
- Park, Jooyoun (2009), Associate Professor, Ph.D., University of Michigan, 2009
- Reynolds, Curtis Lockwood (2007), Professor, Ph.D., University of Michigan, 2007
- Rohlin, Shawn (2012), Professor, Ph.D., Syracuse University, 2009
- Sahajdack, Thomas (2016), Associate Professor, Ph.D., University of Illinois, 2016
- Shaeye, Abdihafit (2018), Associate Professor, Ph.D., University of Wisconsin, Milwaukee, 2017
- Wilson, Kathryn S. (1996), Professor, Ph.D., University of Wisconsin - Madison, 1996

Department of Finance Faculty

- Baran, Lindsay C. (2011), Associate Professor, Ph.D., University of North Carolina, Charlotte, 2010
- Beier, Lois J. (1985), Professor, J.D., University of Akron, 1980
- Billik, William M. (2009), Associate Professor, Ph.D., Kent State University, 2018
- Deng, Saiying (2019), Professor, Ph.D., Temple University , 2005
- Dennis, Steven A. (2014), Professor, Ph.D., University of Kentucky, 1993
- Harris, Jeremiah R. (2014), Associate Professor, Ph.D., Purdue University, 2014
- Jiang, Lei (2023), Professor, Ph.D., Emory University, 2011
- Lloyd, Albert A. (2022), Lecturer, M.B.A., Kent State University, 1996
- Pelleg, David S. (2018), Associate Lecturer, M.B.A., University of Chicago, 1994
- Pu, Xiaoling X. (2008), Professor, Ph.D., University of Massachusetts-Amherst, 2008
- Shynkevich, Andrei (2009), Associate Professor, Ph.D., Louisiana State University, 2009

Department of Information Systems and Business Analytics Faculty

- Akpan, Ikpe A. (2012), Professor, Ph.D., Lancaster University, 2006
- Asadi, Shahla (2023), Assistant Professor, Ph.D., University Of Technology - Malaysia, 2017
- Benitez, Jose A. (2023), Professor, Ph.D., University of Granada, 2009
- Berardi, Victor L. (1993), Associate Professor, Ph.D., Kent State University, 1998
- Brandyberry, Alan A. (2000), Professor, D.B.A., Southern Illinois University, Carbondale, 1995
- Datta, Pratim (2007), Professor, Ph.D., Louisiana State University, 2003
- Dragan, Natalia (2003), Associate Professor, Ph.D., Kent State University, 2010
- Kamali Ardakani, Mostafa (2022), Associate Professor, Ph.D., Catholic University of America, 2014
- Kwak, Dong-Heon (2014), Associate Professor, Ph.D., University of Wisconsin, Milwaukee, 2014
- Liu, Li (2023), Assistant Professor, Ph.D., University of North Carolina-Charlotte, 2019
- Liu, Si (2024), Assistant Professor, Ph.D., McMaster University, 2024
- Offodile, Onyebuchi F. (1988), Professor, Ph.D., Texas Tech University, 1984
- Patuwo, Eddy B. (1988), Professor, Ph.D., Virginia Polytechnic Institute and State University, 1989
- Polites, Greta L. (2012), Professor, Ph.D., University of Georgia, 2009
- Razavi, Rouzbeh (2017), Associate Professor, Ph.D., University of Essex, 2008
- Uprety, Dambar (2022), Assistant Professor, Southern Illinois University-Carbond, 2016

- Wu, Chaojiang (2019), Associate Professor, Ph.D., University of Cincinnati, 2013
- Zhu, Yi (2024), Assistant Professor, Ph.D., University of Minnesota-Twin Cities, 2024

Department of Management Faculty

- Arikan, Asli M. (2014), Professor, Ph.D., The Ohio State University, 2004
- Arikan, Ilgaz (2014), Professor, Ph.D., The Ohio State University, 2004
- Hogue, Mary B. (2001), Professor, Ph.D., University of Akron, 2000
- Kaur, Vaneet (2019), Assistant Professor, Ph.D., University of Jammu, 2018
- Knapp, Deborah K. (1992), Professor, Ph.D., Kent State University, 1994
- Landingham, Velvet L. (2004), Professor, Ph.D., Case Western Reserve University, 2004
- Palmer-Johnson, Catrina E. (2004), Assistant Professor, Ph.D., Rutgers University, 2021
- Riczo, Steve (2014), Associate Lecturer, M.H.A., Xavier University, 1982
- Whitmore, Mark D. (2011), Associate Professor, Ph.D., The Ohio State University, 1985

Department of Marketing and Entrepreneurship Faculty

- Aimone, Randy C. (2024), Lecturer, M.B.A., Pace University At New York City, 2008
- Bridges, Eileen (1994), Professor, Ph.D., Northwestern University, 1987
- Groening, Christopher (2013), Professor, Ph.D., University of Pittsburgh, 2008
- Heidler, Mary R. (2011), Associate Lecturer, M.B.A., American University, 1995
- Hsieh, Meng-Hua (2018), Associate Professor, Ph.D., University of Washington, 2013
- Jewell, Robert D. (2004), Professor, Ph.D., Ohio State University, 1999
- Jia, Lei (2022), Assistant Professor, Ph.D., Ohio State University, 2020
- Knapp-Blay, Kelly A. (2016), Associate Lecturer, M.B.A., Bowling Green State University, 1997
- Lee, Denise M. (2009), Senior Lecturer, M.B.A., Ashland University, 2006
- Liu, Kun (2018), Associate Professor, Ph.D., University of Utah, 2006
- Mahar, Christopher (2022), Associate Professor
- Mohammadi Darani, Milad (2019), Assistant Professor, Ph.D., Texas A&M University, Main Camp, 2019
- Spake, Deborah F. (2013), Professor, Ph.D., The University of Alabama, 1999
- Stettler, Tatiana R. (2015), Associate Professor, Ph.D., University of Bern, 2014
- Thacker, Donald (1998), Senior Lecturer, M.B.A., Kent State University-Stark Campus, 1996
- Wang, Tuo (2004), Associate Professor, Ph.D., University of Pittsburgh, 2004
- Wiggins, Jennifer A. (2006), Professor, Ph.D., University of Wisconsin-Madison, 2006
- Zourrig, Haithem (2016), Associate Professor, Ph.D., University of Montreal, 2010

Department of Accounting

Accounting (ACCT)

ACCT 23020 INTRODUCTION TO FINANCIAL ACCOUNTING 3 Credit Hours

(Equivalent to ACTT 11000) Introduction to the basic concepts and standards underlying financial accounting. Topics to be covered include revenue recognition, receivables, inventory, long-lived assets, liabilities and stockholders' equity. The impact of transactions on the accounting equation and financial statements (balance sheet, income statement and cash flows) is emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

ACCT 23021 INTRODUCTION TO MANAGERIAL ACCOUNTING 3 Credit Hours

(Equivalent to ACTT 11001) Introduction to managerial accounting concepts and tools that can be used to support decision-making in organizations. Includes coverage of cost systems, cost behavior, cost-volume-profit analysis, relevant costs and budgets.
Prerequisite: ACCT 23020 or ACTT 11000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

ACCT 33001 INTERMEDIATE FINANCIAL ACCOUNTING I 3 Credit Hours

Review of the accounting cycle; financial statement preparation, accounting for sales, receivables, inventory, current liabilities and long-term assets. Professional accounting research skills are emphasized.
Prerequisite: MATH 11012 or MATH 12002 or MATH 10051 or PHIL 21002; and minimum B- grade in ACCT 23020 (or ACTT 11000) and ACCT 23021 (or ACTT 11001); and minimum C grade in ENG 21011 and COMM 15000 and MATH 11010; and minimum 2.000 overall GPA; and Accounting major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33004 INTRODUCTION TO ACCOUNTING SYSTEMS 3 Credit Hours

Overview of accounting information systems with emphasis on internal controls. Course explores how the integrity and efficiency of business process are supported by information systems. Interpersonal skills and computer applications are emphasized.
Prerequisite: CIS 24053; and MATH 11012 or MATH 12002 or MATH 10051 or PHIL 21002; and minimum B- grade in ACCT 23021 (or ACTT 11001) and ACCT 23020 (or ACTT 11000); and minimum C grade in ENG 21011, COMM 15000 and MATH 11010; and minimum 2.000 overall GPA; and Accounting major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33010 COST ACCOUNTING 3 Credit Hours
Cost accounting for manufacturing and service organizations, including cost determination, cost analysis, costing systems, cost-volume-profit analysis, budgeting, cost allocation, activity-based costing, capital investment and performance measurement. Computer application skills are emphasized.
Prerequisite: Minimum C grade in ACCT 33001; and minimum 2.000 overall GPA; and Accounting major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33012 INTERMEDIATE FINANCIAL ACCOUNTING II 3 Credit Hours
Accounting for long-term liabilities, debt and equity investments, leases, pensions and other post-retirement benefits, income tax allocation, owners' equity and statement of cash flows. Professional accounting research skills and written communication skills are emphasized.
Prerequisite: Minimum C grade in ACCT 33001; and minimum 2.000 overall GPA; and Accounting major and minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33013 TAX FOR ENTREPRENEURS 3 Credit Hours
This course explores contemporary tax issues faced by entrepreneurs. Topical coverage includes the tax implications of business and financial decisions throughout the business life cycle and required tax compliance for various taxes including income, payroll and sales taxes. Analytical skills are emphasized through modeling tax outcomes.
Prerequisite: Minimum 2.000 overall GPA; not open to students declared in the Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33061 FINANCIAL REPORTING ISSUES AND ANALYSIS 3 Credit Hours
Financial analysis and interpretation of issues relative to the balance sheet, income statement and cash flow statement. Topics include assets, liabilities, owner's equity, inter-corporate investments, revenue and expense recognition and ratio analysis. Course may not be used to fulfill requirements in the Accounting major.
Prerequisite: ACCT 23021 or ACTT 11001; and minimum 2.000 overall GPA; not open to students declared in Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33063 COST CONTROL AND ANALYSIS FOR MANAGEMENT 3 Credit Hours
An in-depth study of cost accounting, focusing on the use of cost accounting information in planning, control and decision-making. Topics include cost terminology, costing systems, cost-volume-profit analysis, budgeting, cost allocation, activity-based costing, variance analysis, ethics and performance measurement. Course may not be used to fulfill requirements in the Accounting major.
Prerequisite: ACCT 23021 or ACTT 11001; and minimum 2.000 overall GPA; not open to students declared in Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43009 ACCOUNTING DATA ANALYTICS 3 Credit Hours
(Slashed with ACCT 53009) Students apply data analytical concepts, tools and techniques in an accounting context. Course explores how to acquire, cleanse and analyze accounting and other data in accounting-related settings. Students complete cases in financial accounting, managerial accounting, auditing and tax. Critical thinking and application of both general and accounting-specific data analytics software are emphasized.
Prerequisite: Minimum C grade in ACCT 33004, ACCT 33010 and ACCT 33012; and minimum 2.000 overall GPA; and Accounting major.
Corequisite: ACCT 43010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43010 PRINCIPLES OF AUDITING (ELR) (WIC) 3 Credit Hours
Integration of conceptual and practical aspects of auditing, importance of strong internal controls is stressed. Ethical decision making, written and verbal communication and interpersonal skills are emphasized.
Prerequisite: Minimum C grade in ACCT 33004 and ACCT 33012; and minimum 2.000 overall GPA; and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ACCT 43013 ADVANCED MANAGEMENT ACCOUNTING 3 Credit Hours
(Slashed with ACCT 53013) The course covers advanced current topics relating to the use of accounting information in managerial decision-making. Topical coverage includes balanced scorecards, pricing decisions, transfer pricing, performance measurement, and other current topics. Analytical skills are emphasized through cases, exercises, and other pedagogical tools.
Prerequisite: Minimum C grade in ACCT 33004 and ACCT 33010; and minimum 2.000 overall GPA and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43020 ADVANCED FINANCIAL ACCOUNTING 3 Credit Hours
(Slashed with ACCT 53020) Conceptual and practical issues surrounding: (1) financial reporting for investment activities of businesses when one firm possesses significant influence or control over another; (2) accounting for international business transactions, including the use of derivatives for hedging foreign exchange risk; and (3) translating foreign currency financial statements of foreign operations. Professional accounting research and written communication skills are emphasized.
Prerequisite: Minimum C grade in ACCT 33001 and ACCT 33004 and ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43031 INCOME TAXATION I - INDIVIDUAL TAXATION 3 Credit Hours
Introduction to Federal income tax for individual taxpayers. Detailed analysis recognition rules for individuals. Overview of tax rules related to entity choice for business owners.
Prerequisite: Minimum C grade in ACCT 33001; and minimum 2.000 overall GPA; and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43033 INCOME TAXATION II - ENTITY TAXATION 3 Credit Hours
(Slashed with ACCT 53033) Federal taxation of business entities, including income taxation of C corporations, partnerships, S corporations and trusts and estates; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized.
Prerequisite: ACCT 43031; and minimum 2.000 overall GPA; and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43043 INTERNAL AUDIT AND FRAUD EXAMINATION 3 Credit Hours
(Slashed with ACCT 53043) This course introduces students to the internal audit profession and the internal audit process. Topics include the definition of internal auditing, the International Professional Practices Framework (IPPF), risk, governance and control issues and conducting internal audit engagements. This course also provides an overview of fraud examination and forensic accounting, including the introduction to fraud in business, the circumstances in which it arises, techniques for preventing, detecting, measuring fraud and the skills necessary to respond and resolve fraud once discovered. Students apply the concepts to analyze cases in internal audit and fraud examination. Written and oral communication skills are emphasized.
Prerequisite: Minimum C grade in ACCT 43010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43089 INTERNATIONAL ACCOUNTING EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Slashed with ACCT 53089) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to accounting and finance. Includes pre-trip orientation sessions, visits to international businesses and organizations and opportunities for cultural activities.
Prerequisite: ACCT 23020 and ACCT 23021; and Accounting major; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ACCT 43092 ACCOUNTING INTERNSHIP (ELR) 3 Credit Hours
Study of activities related to concurrent on-the-job experience with cooperating industrial and public accounting firms. Students must have a minimum 3.000 GPA in all attempts of ACCT courses to register.
Prerequisite: Minimum C grade in ACCT 33001 or ACCT 33004; and minimum 3.000 overall GPA; and Accounting major; and junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ACCT 43093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Topic to be determined when a specific course is proposed for a particular term.
Prerequisite: Accounting major; and senior standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ACCT 43095 SPECIAL TOPICS: ACCOUNTING 3 Credit Hours
(Repeatable for credit) (Slashed with ACCT 53095) Offered periodically with different topics and different faculty involved.
Prerequisite: Accounting major; and senior standing; special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43096 INDIVIDUAL INVESTIGATION IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Individual research into a current accounting topic.
Prerequisite: Accounting major; and senior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ACCT 53001 FINANCIAL REPORTING I 3 Credit Hours
This is the first of a two-course sequence covering intermediate-level financial accounting. This course provides a comprehensive study of the concepts and applications underlying financial accounting, emphasizing the accounting cycle, basic financial statements and accounting for assets.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53010 AUDITING FUNDAMENTALS 3 Credit Hours
Integration of conceptual and practical aspects of auditing with a focus on understanding financial statements and internal controls. Ethical decision-making is also emphasized.
Prerequisite: Graduate standing.
Corequisite: ACCT 53001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53012 FINANCIAL REPORTING II 3 Credit Hours
This is the second course of a two-part sequence covering intermediate-level financial accounting. This course focuses on more complex issues of financial reporting theory and applications on current liabilities, long-term obligations, investments, income taxes, stockholders' equity, statement of cash flows.
Prerequisite: ACCT 53001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53013 ADVANCED MANAGEMENT ACCOUNTING 3 Credit Hours
(Slashed with ACCT 43013) The course covers advanced current topics relating to the use of accounting information in managerial decision-making. Topical coverage includes balanced scorecards, pricing decisions, transfer pricing, performance measurement, and other current topics. Analytical skills are emphasized through cases, exercises, and other pedagogical tools.
Prerequisite: ACCT 33010 or ACCT 63038; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53020 ADVANCED FINANCIAL ACCOUNTING 3 Credit Hours
(Slashed with ACCT 43020) Conceptual and practical issues surrounding: (1) financial reporting for investment activities of businesses when one firm possesses significant influence or control over another; (2) accounting for international business transactions, including the use of derivatives for hedging foreign exchange risk; and (3) translating foreign currency financial statements of foreign operations. Professional accounting research and written communication skills are emphasized.
Prerequisite: ACCT 33012 or ACCT 53012; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53033 INCOME TAXATION II - ENTITY TAXATION 3 Credit Hours
(Slashed with ACCT 43033) Federal taxation of business entities including income taxation of C corporations, partnerships, S corporations and trusts and estates; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized.
Prerequisite: ACCT 43031 or ACCT 53041; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53041 INDIVIDUAL INCOME TAX 3 Credit Hours
Federal income tax for individual taxpayers. Detailed analysis of income and expense recognition rules for individuals with emphasis on tax planning for sole proprietors and application of ethical framework for tax preparers.
Prerequisite: Graduate standing.
Corequisite: ACCT 53001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53043 INTERNAL AUDIT AND FRAUD EXAMINATION 3 Credit Hours
(Slashed with ACCT 43043) Course introduces students to the internal audit profession and the internal audit process. Topics include the definition of internal auditing, the International Professional Practices Framework (IPPF), risk, governance and control issues and conducting internal audit engagements. This course also provides an overview of fraud examination and forensic accounting, including the introduction to fraud in business, the circumstances in which it arises, techniques for preventing, detecting, measuring fraud and the skills necessary to respond and resolve fraud once discovered. Students apply the concepts to analyze cases in internal audit and fraud examination. Written and oral communication skills are emphasized.
Prerequisite: ACCT 43010 or ACCT 53010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53089 INTERNATIONAL ACCOUNTING EXPERIENCE 3 Credit Hours
(Slashed with ACCT 43089) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to accounting and finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities. Cannot be used to satisfy the Master of Science in Accounting (MSA) program requirement.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

ACCT 53095 SPECIAL TOPICS: ACCOUNTING 3 Credit Hours
(Repeatable for credit) (Slashed with ACCT 43095) Offered periodically with different topics and different faculty involved.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63022 PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING 3 Credit Hours
(Slashed with ACCT 73022) Students investigate issues confronting the accounting profession today by reviewing the past, examining the present and looking into the future. Topics covered include history and characteristics of the profession, regulation of the profession, ethical challenges facing accountants and auditors, fraud and the future of the profession. Professional accounting research and verbal and written communication emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63024 INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS 3 Credit Hours
(Slashed with ACCT 73024) Students apply data analytics to the audit of controls and security of accounting information systems. Includes examining the role of the IT audit function and applicable auditing standards; identifying system risks and evaluating controls in Enterprise Resource Planning (ERP) systems. Data analytics, writing and professional ethics are emphasized.
Prerequisite: ACCT 43010 or ACCT 53010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63031 ADVANCED AUDITING THEORY AND PRACTICE 3 Credit Hours
(Slashed with ACCT 73031) Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards on ethical considerations and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision making emphasized.
Prerequisite: ACCT 43010 or ACCT 53010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63037 FINANCIAL ACCOUNTING FOR DECISION MAKING 2 Credit Hours
In-depth study of financial accounting concepts and basic financial statements. Includes an examination of the significant accounting issues affecting financial reporting and their impact on analysis and interpretation of financial information for decision-making. Course may not be used to fulfill requirements in the Maser of Science in Accounting degree.
Prerequisite: Graduate standing; open only to students declared in the MBA and MA degrees.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ACCT 63038 MANAGERIAL ACCOUNTING FOR DECISION MAKING 2 Credit Hours
An in-depth study of cost accounting concepts and cost behavior for measuring product and service costs, pricing products and services, planning and controlling business operations and making business decisions. Course may not be used to fulfill requirements in the Master of Science in Accounting degree.
Prerequisite: ACCT 63037; and graduate standing; open only to students declared in the MBA and MA degrees.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ACCT 63045 TAX RESEARCH AND PLANNING 3 Credit Hours
Introduction to tax research methodology and tax preparer standards, with an emphasis on effectively communicating tax outcomes via written communications.
Prerequisite: Graduate standing.
Pre/corequisite: ACCT 43033 or ACCT 53033.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63050 ADVANCED ACCOUNTING ANALYTICS AND TECHNOLOGY 3 Credit Hours
Students apply advanced software tools used in accounting practice today, to acquire, clean and analyze accounting data. Students use tools to, analyze both numerical and textual data in accounting contexts such as, accounts receivable, cash flows, audit, managerial accounting and tax. Among others, software and methodologies to be covered may include, robotic process automation, data cleaning, process mining, artificial, intelligence, machine learning and textual analysis tools.
Prerequisite: ACCT 43009 or BA 64005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63092 INTERNSHIP 3 Credit Hours
(Repeatable for credit) Supervised practical experience with public accounting firm, corporation, governmental or not-for- profit organization. Periodic reports required. Cannot be used to satisfy the requirement of the Master of Science in Accounting (MSA) program.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

ACCT 63093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Topic to be determined when a specific course is proposed for a particular term.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ACCT 63095 SPECIAL TOPICS IN ACCOUNTING 3 Credit Hours
(Repeatable for credit) Offered periodically with different topics and different faculty involved.
Prerequisite: Accounting major; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 73022 PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING 3 Credit Hours
(Slashed with ACCT 63022) Students investigate issues confronting the accounting profession today by reviewing the past, examining the present and looking into the future. Topics covered include history and characteristics of the profession, regulation of the profession, ethical challenges facing accountants and auditors, fraud and the future of the profession. Professional accounting research and verbal and written communication emphasized.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 73024 INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS 3 Credit Hours
(Slashed with ACCT 63024) Students apply data analytics to the audit of controls and security of accounting information systems. Includes examining the role of the IT audit function and applicable auditing standards; identifying system risks and evaluating controls in Enterprise Resource Planning (ERP) systems. Data analytics, writing and professional ethics are emphasized.
Prerequisite: ACCT 43010; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 73031 ADVANCED AUDITING THEORY AND PRACTICE 3 Credit Hours
(Slashed with ACCT 63031) Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards, on ethical considerations, and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision making emphasized.
Prerequisite: ACCT 43010; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 73093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Topic be determined when a specific course is proposed for a particular term.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ACCT 73098 RESEARCH IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Review of sources, techniques and methodology. Individually selected topic is investigated and reported in formal paper.
Prerequisite: Accounting major; and doctoral standing.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ACCT 83031 AUDITING ISSUES 3 Credit Hours
Course provides doctoral students with an opportunity to broaden their understanding of financial and operational auditing theory and research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 83033 MANAGERIAL ACCOUNTING ISSUES 3 Credit Hours
Course provides an opportunity to survey major research topics in managerial accounting. Students develop a sound conceptual basis for reading, interpreting, analyzing, criticizing and conducting scholarly research on managerial accounting issues. Reading list includes research papers from various managerial accounting research areas and research methods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 83037 FINANCIAL ACCOUNTING ISSUES 3 Credit Hours
Course focuses on theoretical, analytical and empirical research in financial accounting and reporting. Emerging issues in financial accounting and reporting are examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 83038 BASIC ACCOUNTING RESEARCH METHODOLOGY 3 Credit Hours
Course introduces students to basic concepts in accounting research and to the application of research methods in various accounting areas (e.g., financial, managerial, auditing and information systems).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 83091 SEMINAR-SELECTED ACCOUNTING TOPICS 3 Credit Hours
(Repeatable for credit) Topics vary with each offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ACCT 83098 RESEARCH IN ACCOUNTING 3 Credit Hours
Students develop and present a paper on an original accounting research topic under the supervision of faculty members.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

Department of Economics

Economics (ECON)

ECON 12060 PERSONAL FINANCE 3 Credit Hours
Examines economic issues and problems of everyday life. Goal is to enable individuals to analyze their personal finances in order to learn how to get the most out of their income, increase income through a better understanding of possible investments, and protect what they have through selecting appropriate insurance. Topics covered include budgeting and financial planning, federal income taxes, insurance, borrowing, and investment principles and strategies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Personal Finance

ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS) 3 Credit Hours
Course discusses decision-making by buyers, sellers, and governments and how their interaction affects market determination of prices. Students compare outcomes and firm decisions in different market structures. Students develop tools to examine social problems such as poverty, crime, pollution and international relations, as well as make better decisions in their own lives.
Prerequisite: Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade or any higher level MATH course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS) 3 Credit Hours
Principles and policies affecting aggregate production, consumption, investment and government expenditures. Includes role of money, the banking system, inflation, unemployment and economic growth.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

ECON 32025 MONEY, CREDIT AND BANKING 3 Credit Hours
Organization of our money, credit and banking system principles and problems of monetary policy.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32040 INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS 3 Credit Hours
The study of individual choices under conditions of relative scarcity, and their consequences for prices and the allocation of resources in the economic system. Develops the analytical and theoretical tools pertinent in determining how scarce resources are allocated among competing wants and demonstrates how these tools are used in real world applications.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32041 INTERMEDIATE MACROECONOMIC THEORY AND POLICY 3 Credit Hours
This course analyzes key drivers of an economy's GDP, consumption, investment and interest rates. The class will examine economic growth and how it can be impacted by public policy. Students will understand the uses and limitations of a macroeconomic model and will be exposed to the two main schools of thought in macroeconomics. National and international data will be used to better understand these concepts.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32050 APPLIED ECONOMETRICS I (ELR) 3 Credit Hours
The course provides an introduction to the use of statistical analysis in economics. The initial part of the course reviews relevant concepts from probability and statistics. The second course segment focuses on linear regression analysis and the properties of regression estimators. The final course segment discusses extensions of the linear model, and considers problems that may arise in application including omitted variables, nonlinearity, measurement error, sample selection, heteroscedasticity and causality. The SAS statistical software package is used throughout the course for data analysis. Over the second half of the course, students complete an empirical project which requires students to connect the course concepts to the analysis of an economic policy question in a real world data set.
Prerequisite: MATH 11012 or MATH 12002; and ECON 22060; and BA 24056 or MATH 10041 or MATH 20011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ECON 32051 APPLIED ECONOMETRICS II 3 Credit Hours
The course provides a continuation of Applied Econometrics I, extending the basic linear regression models to more advanced models using cross-sectional, panel or time series data. The initial part of the course focuses on models for discrete and limited dependent variables. The second course segment addresses estimation methods for panel data. The final course segment provides an overview of time series estimation with an emphasis on forecasting in economic data.
Prerequisite: ECON 32050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32082 INTRODUCTION TO MANAGERIAL ECONOMICS 3 Credit Hours
Combines economic theory and quantitative analysis to develop resource-allocation decision-making skills which enable managers to evaluate problems, identify possible solutions and finally implement and monitor the best alternative to accomplish their stated objectives. Covers such topics as supply and demand, consumer theory, production, costs, contracts, game theory, principal-agent problems, and the basic economic models of perfect competition, oligopoly,monopolistic, competition and monopoly. Cannot be taken by economics majors. Not open to students who have completed ECON 32040.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32083 THE ECONOMICS OF POVERTY (DIVD) 3 Credit Hours
Nature and causes of poverty in United States. Analysis of impact of poverty upon economy and study of measures both real and potential for alleviating it.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ECON 32084 ECONOMICS OF THE ENVIRONMENT 3 Credit Hours
Examines economic theory of environmental and resource economics in a fashion that is understandable by students with varied backgrounds in economics. Emphasis on microeconomic theory and its application to environmental issues. Topics covered include "market failure" and its impact on the environment; cost benefit analysis; and input-output analysis. Designed for those interested in the environment or who may be planning careers in environmental or natural sciences.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42050 DATA ACQUISITION, PREPARATION AND VISUALIZATION 3 Credit Hours
(Slashed with ECON 52050) Accessing and collecting data from existing sources (databases and raw data), transformation of raw data into formats that can be used for final analysis, techniques for presentation and visualization of data, predictive analytics using machine learning and cross validation. Students will perform some work in SAS but will also be introduced to the R statistical language.
Prerequisite: BA 24056 or MATH 10041 or MATH 20011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42065 PROBLEMS OF MONETARY AND FISCAL POLICY 3 Credit Hours
(Slashed with ECON 52065) Analysis of objectives, techniques and economic effects of monetary and fiscal policies.
Prerequisite: ECON 32041.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42066 ECONOMICS OF ENTREPRENEURSHIP 3 Credit Hours
(Slashed with ECON 52066) This course presents a wide-ranging overview of the place of economics in entrepreneurship, with a special focus on how economic research is conducted to study the determinants of entrepreneurship.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42068 INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY 3 Credit Hours
(Slashed with ECON 52068) Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy.
Prerequisite: ECON 32040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42070 GAME THEORY 3 Credit Hours
Introduction to game theory and its application to economics. Analysis of strategic behavior by economic agents using equilibrium concepts from non-cooperative game theory.
Prerequisite: ECON 22060 and ECON 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42072 LABOR ECONOMICS: WORK AND PAY 3 Credit Hours
(Slashed with ECON 52072) The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and growing wage inequality.
Prerequisite: ECON 32040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42075 INTERNATIONAL ECONOMIC RELATIONS 3 Credit Hours
(Slashed with ECON 52075) Principles, problems and policies of international economic relations with extensive references to the United States, Western Europe, Latin America and former communist countries. Covers international aspects of interdependency, cooperation and multinational institutions.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42076 ECONOMIC DEVELOPMENT 3 Credit Hours
(Slashed with ECON 52076) Analysis of nature of significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42079 EUROPEAN ECONOMIC ISSUES 3 Credit Hours
(Slashed with ECON 52079) This course examines current economic issues in the European Union, including the monetary union and Euro, unemployment, immigration, health care, social security, poverty and inequality, and plans for expansion. The historical development and structure of the EU will also be covered and the role of cultural influences will be explored. In some semesters the course includes a required trip to visit European institutions over the Spring Break, at an additional fee.
Prerequisite: ECON 22060 and ECON 22061; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42080 REGIONAL ECONOMICS 3 Credit Hours
(Slashed with ECON 52080) Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42081 URBAN ECONOMICS: CITIES AND HOUSING 3 Credit Hours
(Slashed with ECON 52081) This course is an introduction to the field of urban economics. Urban economics is the study of the location decisions of households and firms. We will explore why cities exist, why firms cluster together, why people live in cities, and other issues such as education, discrimination in housing, the housing crisis and crime. A heavy emphasis in this class will be placed on the study of housing markets, policy and neighborhood choice.
Prerequisite: ECON 22060 and ECON 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42085 PUBLIC ECONOMICS: GOVERNMENT AND POLICY 3 Credit Hours
(Slashed with ECON 52085) Examination of the role of government in the economy, including market failures, the efficiency and equity of taxation, government involvement in health care, education, and income distribution, and current government policy issues.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42086 ECONOMICS OF HEALTH CARE 3 Credit Hours
(Slashed with ECON 52086) This is a one-semester course on a topic of major policy interest, particularly given the current health care reform debate. It is impossible to turn on the news today and not hear a story about the health care industry. Health care accounts for almost 20 percent of all that is produced in the United States. In addition, it has been a major political issue in recent years. The overall objective of the course is to use concepts and tools of economics to understand and evaluate what has and is happening in the health care profession and current policies under consideration.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42189 INTERNATIONAL ECONOMIC EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Slashed with ECON 52189) Firsthand exposure to international economics. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: Economics major or minor; and junior standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ECON 42191 SENIOR SEMINAR IN ECONOMICS (WIC) 3 Credit Hours
This is the culminating requirement for students majoring in Economics. The purpose of the seminar is to critically apply economic principles to a variety of topics in a very interactive setting. Writing and revising will be an important component of the course.
Prerequisite: Minimum C- grade in ECON 32040, ECON 32041 and ECON 32050.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ECON 42291 VARIABLE CONTENT SEMINAR IN ECONOMICS 1-4 Credit Hours
(Repeatable for a maximum of 12 hours) (Slashed with ECON 52291) Various special seminars will be announced in the schedule of classes under this course number.
Prerequisite: Permission.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECON 42292 INTERNSHIP IN ECONOMICS (ELR) 3 Credit Hours
(Repeatable for credit) Supervised practical experience in economics. May count toward the economics major electives or as a business elective.
Prerequisite: At least two of the following courses: ECON 32040, ECON 32041 or ECON 32050; a minimum 2.250 overall GPA; and economics major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ECON 42293 VARIABLE TOPIC WORKSHOP IN ECONOMICS 1-6 Credit Hours
(Repeated registration permitted when topic varies; repeatable for a total of 18 hours) various special workshops will be announced in the schedule of classes under this course number.
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ECON 42295 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) (Slashed with ECON 52295) Various special topics will be announced in the schedule of classes under this course number.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42296 INDIVIDUAL INVESTIGATION IN ECONOMICS 1-3 Credit Hours
(Repeatable for credit)Independent study done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.
Prerequisite: Senior Economics major; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ECON 42298 RESEARCH IN ECONOMICS (ELR) 1-6 Credit Hours
(Repeatable for credit)Research project done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.
Prerequisite: Senior Economics major; and special approval.
Schedule Type: Research
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ECON 42299 SENIOR PROJECT (ELR) 1-3 Credit Hours
(Repeatable for credit) Thesis or independent study project done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.
Prerequisite: Senior economics major; and special approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ECON 52050 DATA ACQUISITION, PREPARATION AND VISUALIZATION 3 Credit Hours
(Slashed with ECON 42050) Accessing and collecting data from existing sources (databases and raw data), transformation of raw data into formats that can be used for final analysis, techniques for presentation and visualization of data, predictive analytics using machine learning and cross validation. Students will perform some work in SAS but will also be introduced to the R statistical language.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52065 PROBLEMS OF MONETARY AND FISCAL POLICY 3 Credit Hours
(Slashed with ECON 42065) Study of monetary and fiscal policy frameworks and the problems in conducting monetary and fiscal policies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52066 ECONOMICS OF ENTREPRENEURSHIP 3 Credit Hours
(Slashed with ECON 42066) This course presents a wide-ranging overview of the place of economics in entrepreneurship, with a special focus on how economic research is conduced to study the determinants of entrepreneurship.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52068 INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY 3 Credit Hours
(Slashed with ECON 42068) Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52072 LABOR ECONOMICS: WORK AND PAY 3 Credit Hours
(Slashed with ECON 42072) The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and growing wage inequality. For students that did not attend Kent State University for their undergraduate degree, please contact the department for approval.
Prerequisite: ECON 32040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52075 INTERNATIONAL ECONOMIC RELATIONS 3 Credit Hours
(Slashed with ECON 42075) Principles, problems and policies of international economic relations with extensive references to the United States, Western Europe, Latin America and former communist countries. Covers international aspects of interdependency, cooperation and multinational institutions.
Prerequisite: ECON 22060 and 22061; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52076 ECONOMIC DEVELOPMENT 3 Credit Hours
(Slashed with ECON 42076) Analysis of nature and significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52079 EUROPEAN ECONOMIC ISSUES 3 Credit Hours
(Slashed with ECON 42079) This course examines current economic issues in the European Issues, including the monetary union and Euro, unemployment, immigration, health care, social security, poverty and inequality, and plans for expansion. The historical development and structure of the EU are also covered and the role of cultural influences are explored. In some semesters the course includes a required trip to visit European institutions over the Spring Break, at an additional fee.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52080 REGIONAL ECONOMICS 3 Credit Hours
(Slashed with ECON 42080) Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52081 URBAN ECONOMICS: CITIES AND HOUSING 3 Credit Hours
(Slashed with ECON 42081) This course is an introduction to the field of urban economics. Urban economics is the study of the location decisions of households and firms. We will explore why cities exist, why firms cluster together, why people live in cities, and other issues such as education, discrimination in housing, the housing crisis, and crime. A heavy emphasis in this class will be placed on the study of housing markets, policy, and neighborhood choice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52085 PUBLIC ECONOMICS: GOVERNMENT AND POLICY 3 Credit Hours
(Slashed with ECON 42085) Examination of public expenditure and taxation policies including the theory of public goods, collective decision making, cost-benefit analysis, equity and efficiency aspects of taxation and current government policy issues.
Prerequisite: ECON 22060; and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52086 ECONOMICS OF HEALTH CARE 3 Credit Hours
(Slashed with ECON 42086) This is a one-semester course on a topic of major policy interest, particularly given the current health care reform debate. It is impossible to turn on the news today and not hear a story about the health care industry. Health care accounts for almost 20 percent of all that is produced in the United States. In addition, it has been a major political issue in recent years. The overall objective of the course is to use concepts and tools of economics to understand and evaluate what has and is happening in the health care profession and current policies under consideration.
Prerequisite: ECON 22060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52189 INTERNATIONAL ECONOMICS EXPERIENCE 3 Credit Hours
(Slashed with ECON 42189) Firsthand exposure to international economics. Includes pre-trip orientation sessions, visits to international business and organizations, and opportunities for cultural activities.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

ECON 52291 VARIABLE CONTENT SEMINAR IN ECONOMICS 1-4 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Slashed with ECON 42291) Various special seminars will be announced in the schedule of classes under this course number.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECON 52293 VARIABLE TOPIC WORKSHOP IN ECONOMICS 1-6 Credit Hours
(Repeatable for a maximum of 18 credit hours) Various special workshops will be announced in the schedule of classes under this course number.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ECON 52295 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) (Slashed with ECON 42295) Various special topics will be announced in the schedule of classes under this course number.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECON 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ECON 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECON 62010 SURVEY OF ECONOMICS 3 Credit Hours
Survey of basic economic concepts and methods of analysis of both micro- and macroeconomics. Emphasis is placed on the use and relevance of economic concepts and tools in business decision-making.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62015 ECONOMICS OF INFORMATION 3 Credit Hours
Introduction to microeconomic theory and decision-making and its applications to the information economy. Overview of the economics of information. Consumer behavior and production theory; the demand for information; information as a factor of production; information costs and pricing. Case studies in the information industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62021 MACROECONOMIC ENVIRONMENT OF BUSINESS 2 Credit Hours
(Slashed with ECON 72021) Analysis of forces determining economic growth, employment, inflation and global economic environment with emphasis on understanding the business cycle and government stabilization policies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECON 62022 MANAGERIAL ECONOMICS 2 Credit Hours
(Slashed with ECON 72022) Uses economic theory and quantitative methodologies to develop decision-making skills which enable managers of local, national and multinational companies to evaluate problems and allocate resources efficiently.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECON 62050 MICROECONOMIC THEORY I 3 Credit Hours
(Slashed with ECON 72050) Formal analysis of foundational models in microeconomics, including consumer and producer theory, an introduction to non-cooperative game theory, market equilibrium under various market structures and a discussion of market failures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62051 MACROECONOMIC THEORY I 3 Credit Hours
(Slashed with ECON 72051) Formal analysis of models in macroeconomics, including models of economic growth, business cycles, consumption, investment, and unemployment, with applications to the analysis of monetary and fiscal policies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62052 DATA ACQUISITION AND PREPARATION FOR ACADEMIC RESEARCH 3 Credit Hours
(Slashed with ECON 72052) Students will learn to access and collect data from existing sources (databases and raw data), prepare the data for further analysis, tabulate/visualize the summary statistics, and perform basic analysis using several different statistical software. The course is designed primarily to aid students with their academic research projects. Students will primarily learn Stata and SAS for data preparation and analysis and Python for scraping texts from various web sources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62054 ECONOMETRICS I 3 Credit Hours
(Slashed with ECON 72054) Introduction to problems and methods of the empirical estimation of economic relationships.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62055 ECONOMETRICS II 3 Credit Hours
(Slashed with ECON 72055) Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation.
Prerequisite: ECON 62054; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62056 TIME SERIES ANALYSIS 3 Credit Hours
(Slashed with ECON 72056) Covers various univariate and multivariate time series models, including autoregressive moving average (ARMA), general autoregressive conditional heteroskedasticity (GARCH), value at risk (VaR), vector autoregressive (VAR) and vector error correction model (VECM), etc. Students will gain hands-on experience with all models learned in the course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62061 MONETARY THEORY AND POLICY 3 Credit Hours
(Slashed with ECON 72061) A study of the nature and definition of money, its relationship to prices, output, employment, and interest rates and problems related to the conduct of monetary policy.
Prerequisite: ECON 62021; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62072 ECONOMICS OF LABOR MARKETS 3 Credit Hours
The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and wage inequality.
Prerequisite: ECON 32040 or ECON 62022; and ECON 62054; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62075 INTERNATIONAL TRADE 3 Credit Hours
(Slashed with ECON 72075) Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade and the effect of international trade on domestic policy.
Prerequisite: ECON 62021 and ECON 62022; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62076 INTERNATIONAL FINANCE 3 Credit Hours
(Slashed with ECON 72076) Formal analysis of models of international monetary relations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas and international capital flows.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62092 INTERNSHIP IN ECONOMICS 3 Credit Hours
(Repeatable for credit) Supervised practical experience in economics. Students must have a minimum 3.000 GPA in the economics major within the MAE degree and completed 4 courses from the MAE.
Prerequisite: Admitted to the Master of Arts in Economics program; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

ECON 62095 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours
(Repeatable 3 times for credit) Various special topics will be announced in the Schedule of Classes under this course number.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62096 INDEPENDENT STUDY 1-3 Credit Hours
(Repeatable for credit)Independent study on a particular project or sequence of subjects. Maximum of 6 semester hours of work may be earned in independent study although no more than 3 hours in any one semester.
Prerequisite: Graduation standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ECON 62098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research for master's students. May apply toward degree requirements if approved in advance by department.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

ECON 62180 REGIONAL ECONOMICS 3 Credit Hours
Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62199 THESIS I 2-6 Credit Hours
Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.
Prerequisite: Graduate standing and special approval of adviser.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECON 62299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ECON 62199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECON 64004 QUANTITATIVE METHODS IN BUSINESS ADMINISTRATION I 3 Credit Hours
(Slashed with ECON 74004) Covers the mathematical tools that are of central importance in economics in the context of economic examples. Topics include functions, matrix algebra, differential calculus, optimization, integration and dynamic analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72021 MACROECONOMIC ENVIRONMENT OF BUSINESS 2 Credit Hours
(Slashed with ECON 62021) Analysis of forces determining economic growth, employment, inflation and global economic environment with emphasis on understanding the business cycle and government stabilization policies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECON 72022 MANAGERIAL ECONOMICS 2 Credit Hours
(Slashed with ECON 62022) Uses economic theory and quantitative methodologies to develop decision-making skills which enable managers to evaluate problems and allocate resources efficiently.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECON 72050 MICROECONOMIC THEORY I 3 Credit Hours
(Slashed with ECON 62050) Formal analysis of foundational models in microeconomics, including consumer and producer theory, an introduction to non-cooperative game theory, market equilibrium under various market structures and a discussion of market failures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72051 MACROECONOMIC THEORY I 3 Credit Hours
(Slashed with ECON 62051) Formal analysis of models in macroeconomics, including models of economic growth, business cycles, consumption, investment, and unemployment, with applications to the analysis of monetary and fiscal policies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72052 DATA ACQUISITION AND PREPARATION FOR ACADEMIC RESEARCH 3 Credit Hours
(Slashed with ECON 62052) In this course, students will learn to access and collect data from existing sources (databases and raw data), prepare the data for further analysis, tabulate/visualize the summary statistics, and perform basic analysis using several different statistical software. The course is designed primarily to aid students with their academic research projects. Students will primarily learn Stata and SAS for data preparation and analysis and Python for scraping texts from various web sources.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72054 ECONOMETRICS I 3 Credit Hours
(Slashed with ECON 62054) Introduction to problems and methods of the empirical estimation of economic relationships.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72055 ECONOMETRICS II 3 Credit Hours
(Slashed with ECON 62055) Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation.
Prerequisite: ECON 62054; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72056 TIME SERIES ANALYSIS 3 Credit Hours
(Slashed with ECON 62056) Covers various univariate and multivariate time series models, including autoregressive moving average (ARMA), general autoregressive conditional heteroskedasticity (GARCH), value at risk (VaR), vector autoregressive(VAR) and vector error correction model (VECM), etc. Students will gain hands-on experience with all models learned in the course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72061 MONETARY THEORY AND POLICY 3 Credit Hours
(Slashed with ECON 62061) Study of money in promoting exchange, its relationship to prices, output, employment, interest rates and banking and issues related to the conduct of monetary policy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72075 INTERNATIONAL TRADE 3 Credit Hours
(Slashed with ECON 62075) Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade and the effect of international trade on domestic policy.
Prerequisite: ECON 62021 and ECON 62022; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72076 INTERNATIONAL FINANCE 3 Credit Hours
(Slashed with ECON 62076) Formal analysis of models of international monetary relations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas, and international capital flows.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72180 REGIONAL ECONOMICS 3 Credit Hours
Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 74004 QUANTITATIVE METHODS IN BUSINESS ADMINISTRATION I 3 Credit Hours
(Slashed with ECON 64004) Covers the mathematical tools that are of central importance in economics in the context of economic examples. Topics include functions, matrix algebra, differential calculus, optimization, integration and dynamic analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 82024 SEMINAR IN APPLIED ECONOMIC ANALYSIS 3 Credit Hours
Discussion and analysis of selected current economic problems confronting the economy and the business sector. Emphasis will be on applied analysis.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 82072 ECONOMICS OF LABOR MARKETS 3 Credit Hours
The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and wage inequality.
Prerequisite: ECON 32040 or ECON 62022; and ECON 62054; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Department of Finance

Finance (FIN)

FIN 26051 BITCOIN AND BLOCKCHAIN TECHNOLOGY 3 Credit Hours
Digital currencies and distributed ledger technology will completely reshape the landscape of commerce and business. Course explores this from three different perspectives: the primary and secondary markets and emergence of digital tokens; capital formation in the digital economy; and financial technology transformation via distributed ledger blockchain.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 26074 LEGAL ENVIRONMENT OF BUSINESS 3 Credit Hours
(Equivalent to BMRT 21000) Coverage of the nature, structure and significance of the legal and regulatory areas which confront business, with special emphasis on business ethics environmental and international issues.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

FIN 26085 INTRODUCTION TO FINANCIAL MODELING 1 Credit Hour
Introduces students to financial modeling using both basic and advanced features in Microsoft Excel. Students will learn how to create and analyze databases for portfolios and other projects. Students will learn commands for statistical analysis and financial functions.
Prerequisite: CIS 24053; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FIN 26086 PRINCIPLES OF FINANCIAL MODELING 3 Credit Hours
Introduces students to financial modeling using both basic and advanced features in Microsoft Excel. Students learn how to create and analyze databases for portfolios and other projects. Students learn commands for statistical analysis and financial functions. Students create their own discounted cash flow analysis model, including creating a complete set of financial statements as well as a five-year forecast. Students are introduced to data visualization software.
Prerequisite: CIS 24053; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 26280 GOLDEN FLASH ASSET MANAGEMENT MEMBER 1 Credit Hour
(Repeatable for max 3 credit hours) This course is for members of the Golden Flash Asset Management Group, Kent State's student-managed investment fund. Requires special permission from the department chair, but any major on campus can join. To inquire about becoming a member, contact the chair of the Department of Finance. Students may repeat this course up to a maximum of 3 credits only toward general electives, if needed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FIN 26295 SPECIAL TOPICS IN FINANCE I 1-3 Credit Hours
(Repeatable for credit) Deals with special topics in finance; new subjects not covered in other existing courses.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

FIN 36040 PERSONAL FINANCIAL PLANNING 3 Credit Hours
Course examines basic personal financial planning and investment strategies with the goal of increasing personal financial literacy and future individual well-being. Course provides a foundation for understanding financial decisions and making informed choices. Course does not fulfill a requirement for the Finance major or minor. Students cannot earn credit toward graduation for both FIN 36040 and FIN 36063.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36051 THE FINANCIAL SYSTEM 3 Credit Hours
Analysis of financial markets and institutions emphasizing current issues, regulatory aspects, and management concerns. This is a fundamental course for business majors and minors.
Prerequisite: ACCT 23020 or ACTT 11000; and ECON 22060; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36053 BUSINESS FINANCE 3 Credit Hours
Introductory finance course analyzing the basic financial decisions of corporations and the interface of the firm with capital markets. Students discuss stocks, bonds, the time value of money, risk versus return and the essentials of capital budgeting.
Prerequisite: ACCT 23020 or ACTT 11000; and ECON 22060; and ECON 22061; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36054 INTERMEDIATE CORPORATE FINANCE 3 Credit Hours
Treatment of financial decision making processes in businesses. Overview of cost of capital, capital budgeting, capital structure, and working capital management.
Prerequisite: Minimum C grade in FIN 26085 (or FIN 26086), FIN 36053, ENG 21011 (or HONR 10297), COMM 15000 and MATH 11010 (or MATH 10675 or MATH 10775); and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36059 INTERMEDIATE INVESTMENTS 3 Credit Hours
Discussion of factors determining the value of investment securities with attention to economic, regulatory, and global influences. Either this course or FIN 36063, but not both, can count as an elective in an Ambassador Crawford College of Business and Entrepreneurship program.
Prerequisite: Minimum C grade in the following courses: FIN 26085 or FIN 26086; and FIN 36053; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36061 PRINCIPLES OF REAL ESTATE 3 Credit Hours
Principles and practices of real estate, real estate laws, contractual instruments, valuation, financing and markets in commercial and residential real estate.
Prerequisite: FIN 36053 with a minimum C grade; and minimum overall 2.000 GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36063 INDIVIDUAL INVESTMENT STRATEGIES 3 Credit Hours
Course examines more advanced strategies for personal investing in stocks, bonds, insurance, real estate and alternative investments. Course does not fulfill a requirement for the Finance major or minor. Students cannot earn credit toward graduation for both FIN 36040 and FIN 36063. Not open to students declared in Finance major or minor.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36072 LAW OF COMMERCIAL TRANSACTIONS 3 Credit Hours
Introduction to real and personal property, commercial paper, agency law, business organizations, bankruptcy, secured transactions and other related areas of business law.
Prerequisite: FIN 26074 or BMRT 21000; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36081 PRINCIPLES OF INSURANCE 3 Credit Hours
Examination of insurance industry, its regulatory environment and insurance contracts. Life and health insurance as well as property and liability insurance are covered.
Prerequisite: FIN 36053 with a minimum C grade; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36086 ADVANCED FINANCIAL MODELING 3 Credit Hours
Course is meant as a stepping-stone for advanced financial courses. Students touch upon three general areas of financial modeling: (1) financial-statement-based models, (2) portfolio investment models and (3) markets/securities/derivatives models. Students use Excel functions and techniques to solve problems for different and complicated scenarios. Students also use multiple regression analysis in Excel. Students use advanced features in Tableau and are introduced to Python.
Prerequisite: Minimum C grade in FIN 26085 (or FIN 26086), FIN 36053, ENG 21011 (or HONR 10297) and COMM 15000; and MATH 11010 (or MATH 10675 or MATH 10775); minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36280 GOLDEN FLASH ASSET MANAGEMENT JUNIOR OFFICER 2 Credit Hours
(Repeatable for max 6 credit hours) This course is for junior officers in the Golden Flash Asset Management Group, Kent State's student managed investment fund. Course examines the issues involved in the management and investment strategies of a portfolio of financial assets. Junior officers research prospective investments, generate reports and make decisions to invest or liquidate. Any recommendation to buy, sell or retain a position in a security is presented to all student team members and to the instructor. Oral presentations are required. Course credits count toward general electives, not finance major/minor electives.
Prerequisite: Special approval from department chair.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

FIN 46054 FINANCIAL RISK MANAGEMENT 3 Credit Hours
Understanding techniques and financial tools used in managing financial risk. Analysis of contracts (options, forwards, futures) undertaken in the context of financial regulation and ethical practices within the financial marketplace.
Prerequisite: FIN 36053 with a minimum C grade; and overall 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46055 ADVANCED DERIVATIVE SECURITIES 3 Credit Hours
(Slashed with FIN 56055) Comprehensive analysis of derivatives securities markets and their role in the financial system. Valuation methods, advanced hedging, arbitration techniques and the regulatory environment.
Prerequisite: FIN 36059; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46056 ADVANCED FIXED INCOME MANAGEMENT 3 Credit Hours
(Slashed with FIN 56056) Course investigates techniques and financial tools used in fixed income markets. Students analyze interest rate and bond mathematics; review the structure of debt markets; and examine the mechanics, securities, derivatives and structured products tied to the credit and debt markets.
Prerequisite: FIN 36051 and FIN 36059; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46059 APPLIED FINANCIAL MANAGEMENT STRATEGIES (ELR) (WIC) 3 Credit Hours
(Slashed with FIN 56059) Emphasis on financial policies and strategic financial decision-making with respect to both short-term and long-term financial management problems.
Prerequisite: FIN 36054; and MATH 10041 or BA 24056; and minimum 2.000 overall GPA; and Finance major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

FIN 46061 REAL ESTATE FINANCE 3 Credit Hours
(Slashed with FIN 56061) Course covers basic real estate law, project evaluation, financing strategies, investment decision making and real estate capital markets.
Prerequisite: FIN 36051 and FIN 36054 or FIN 36059; and 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46064 INTERNATIONAL BUSINESS FINANCE 3 Credit Hours
(Slashed with FIN 56064) Management of the finance function of an international company, including foreign exchange exposure management, foreign investment, short term and long term capital management and international accounting and taxation.
Prerequisite: Minimum C grade in FIN 36053; and minimum 2.000 overall GPA; and Finance major or minor or International Business minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46067 ADVANCED PORTFOLIO ANALYSIS 3 Credit Hours
(Slashed with FIN 56067) Examines the principles, methods, and techniques of portfolio analysis with emphasis on determination of portfolio risks and returns. The political, ethical, and global forces affecting asset risks and returns are evaluated.
Prerequisite: FIN 36051 and FIN 36059; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46068 COMMERCIAL BANK MANAGEMENT 3 Credit Hours
(Slashed with FIN 56068) Financial management techniques applied to commercial banks. Focus on management of liquidity, investment and loan portfolios and capital structure.
Prerequisite: FIN 36051; and FIN 36054 or FIN 36059; and minimum 2.000 overall GPA; and Finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46070 ADVANCED COMMERCIAL BANK MANAGEMENT 3 Credit Hours
(Slashed with FIN 56070) Course contains a mixture of lectures, guest speakers and case discussions regarding the banking industry. Advanced discussions of liquidity risk, interest rate risk, credit risk and solvency risk and the management of these risks. In-depth computer models for measuring and managing risks are discussed.
Prerequisite: FIN 46068; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46072 BUSINESS FINANCIAL DISTRESS AND BANKRUPTCY 3 Credit Hours
This course introduces the senior undergraduate or graduate business student to the business problems faced by a financially troubled company, and possible ways to save that company. Students will learn the economics and structure of secured lending, the ways a business can jettison costs to regain operations profitability, the many complications management faces when trying to fix the company and the rules controlling the aggressive actions of it's creditors. The course will have a special focus on the multi-billion dollar world of "distressed mergers and acquisitions," including ways Wall Street, Private Equity firms and competitors value a troubled business and try to buy the business at a bargain price.
Prerequisite: FIN 26074; and FIN 36051; and FIN 36054 or FIN 36059; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46089 INTERNATIONAL FINANCE EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Slashed with FIN 56089) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: Minimum 2.000 overall GPA; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FIN 46096 INDIVIDUAL INVESTIGATION IN FINANCE 1-3 Credit Hours
(Repeatable for credit) Opportunity for research in problem areas of interest in field of finance. Agreement of faculty member in the department must be secured prior to registering for course.
Prerequisite: Minimum 2.500 overall GPA; and finance major; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

FIN 46192 INTERNSHIP IN FINANCE (ELR) 3 Credit Hours
(Repeatable for Credit) An internship for finance majors and minors interested in obtaining career-relevant experience. Students and employers must satisfy criteria established by the department. Students are responsible for securing employment.
Prerequisite: FIN 36051; and FIN 36054 or FIN 36059; and a minimum 2.500 overall GPA; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FIN 46280 GOLDEN FLASH ASSET MANAGEMENT SENIOR OFFICER 3 Credit Hours
(Repeatable for max 6 credit hours) This course is for Senior officers in the Golden Flash Asset Management Group, Kent State's student-managed investment fund. Course examines the issues involved in the management and investment strategies of a portfolio of financial assets. It focuses on asset allocation, portfolio monitoring and evaluation, portfolio rebalancing and investment analysis under the supervision of the instructor. Senior officers are responsible for leading meetings, preparing and presenting the annual report, reviewing performance, making trades, monitoring risk, providing the economic report and ensuring a smooth flow of operations. Oral presentations are required. Course credits count toward general electives when taken for the first time. Course credits can count toward general electives or major electives if taken for the second time.
Prerequisite: Special approval by the department chair.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46295 SPECIAL TOPICS IN FINANCE II 1-3 Credit Hours
(Repeatable for credit) Deal with special topics in finance. New subjects not covered in other existing courses.
Prerequisite: FIN 36053; and minimum 2.500 overall GPA; and finance major; and senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

FIN 56055 ADVANCED DERIVATIVE SECURITIES 3 Credit Hours
(Slashed with FIN 46055) Comprehensive analysis of options and futures markets and their role in the financial system. Students explore valuation methods, advanced hedging, arbitration techniques and the regulatory environment.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56056 ADVANCED FIXED INCOME MANAGEMENT 3 Credit Hours
(Slashed with FIN 46056) Course investigates techniques and financial tools used in fixed income markets. Students analyze interest rate and bond mathematics; review the structure of debt markets; and examine the mechanics, securities, derivatives and structured products tied to the credit and debt markets.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56059 APPLIED FINANCIAL MANAGEMENT STRATEGIES 3 Credit Hours
(Slashed with FIN 46059) Emphasis on financial policies and strategic financial decision-making with respect to both short-term and long-term financial management problems.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56061 REAL ESTATE FINANCE 3 Credit Hours
(Slashed with FIN 46061) Course covers basic real estate law, project evaluation, financing strategies, investment decision making and real estate capital markets.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56064 INTERNATIONAL BUSINESS FINANCE 3 Credit Hours
(Slashed with FIN 46064) Management of the finance function of an international company, including foreign exchange exposure management, foreign investment, short term and long term capital management and international accounting and taxation.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56067 ADVANCED PORTFOLIO ANALYSIS 3 Credit Hours
(Slashed with FIN 46067) Examines the principles, methods and techniques of portfolio analysis with emphasis on determination of portfolio risks and returns. Students evaluate political, ethical, and global forces affecting asset risks and returns.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56068 COMMERCIAL BANK MANAGEMENT 3 Credit Hours
(Slashed with FIN 46068) Financial management techniques applied to commercial banks. Focus on management of liquidity, investment and loan portfolios and capital structure.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56089 INTERNATIONAL FINANCE EXPERIENCE 3 Credit Hours
(Slashed with FIN 46089) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

FIN 56280 GOLDEN FLASH ASSET MANAGEMENT DIRECTOR 3 Credit Hours
Course examines the issues involved in the management and investment strategies of a live portfolio of financial assets. Students study asset allocation, portfolio monitoring and evaluation, portfolio rebalancing and investment analysis of an international equity and fixed income portfolio under the supervision of the instructor. Written and oral presentations are required.
Prerequisite: Graduate standing; and special approval from the department chair.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 66040 INTERNATIONAL ISSUES IN BANKING AND FINANCE 3 Credit Hours
Examines the financial theory behind foreign exchange rates, risk management through derivatives, international banking transactions, bank credit analysis, real estate valuation and ESG investing.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 66050 LAW AND ETHICS 2 Credit Hours
Course is an overview of laws and regulations with related ethical impacts affecting business management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

FIN 66060 MANAGERIAL FINANCE 2 Credit Hours
Study of managerial decisions of the firm from a financial point of view. Topics include valuation, project analysis, and sources and uses of funds.
Prerequisite: ACCT 63037; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

FIN 86061 THEORIES OF FINANCIAL DECISION-MAKING 3 Credit Hours
A study of optimal investment decisions under conditions of certainty and uncertainty.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 86062 SEMINAR IN CORPORATE FINANCE 3 Credit Hours
A study of the theory and empirical evidence from a global perspective regarding corporate financial management.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 86064 SEMINAR IN FINANCIAL INSTITUTIONS 3 Credit Hours
A study of the theory and empirical evidence from a global perspective regarding the intersection of banking and empirical corporate finance/financial accounting.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 86066 SEMINAR IN INVESTMENTS 3 Credit Hours
A study of the theory and empirical evidence from a global perspective regarding investment analysis, valuation and portfolio selection.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 86391 SEMINAR IN FINANCIAL TOPICS 3 Credit Hours
(Repeatable for credit) A study of the theory and empirical evidence from a global perspective regarding a topic of the faculty member's expertise.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Department of Information Systems and Business Analytics

Business Analytics (BA)

BA 24056 BUSINESS ANALYTICS I 3 Credit Hours
(Equivalent to BMRT 21004) Introduction to concepts in statistical methods and their applications to real world problems. Examines both the theoretical and practical side of the different methods.
Prerequisite: MATH 11010 or MATH 11012 or MATH 12002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

BA 34055 COMPUTER DECISION MODELING 3 Credit Hours
Introduces students to the scientific decision-making tools of operations research and management science, and also to the use of spreadsheet modeling for problem formulation and solution without the need for mathematics. The concepts of modeling and better decision making are stressed along with illustrations from the various functional areas of business. Course not open to computer information systems majors.
Prerequisite: CIS 24053 or IT 11000; and BA 24056 or MATH 10041 or BMRT 21004; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34059 SERVICE OPERATIONS MANAGEMENT 3 Credit Hours
Provide students with the concepts and tools necessary to effectively manage service operations and to prepare students for management opportunities in service firms that represent the fastest-growing sector of the economy. The service management will be presented from an integrated viewpoint with a focus on customer satisfaction. The course materials are organized around four modules (1) understanding services (2) designing the service enterprise, (3) managing service operations and (4) toward world class-service.
Prerequisite: BA 34060; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34060 OPERATIONS MANAGEMENT 3 Credit Hours
A survey course in operations management that covers the managerial concepts and the quantitative tools used in the design, planning operation and control of operations systems.
Prerequisite: CIS 24053 or IT 11000; and BA 24056 or MATH 10041 or BMRT 21004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34064 MANUFACTURING RESOURCE PLANNING 3 Credit Hours
Introduce students to the basic tools operations managers use to inform their decisions on a daily basis. The course involves hands-on coverage of manufacturing resource planning tools, including forecasting and master production schedules, bill of materials structuring, order entry and purchasing, capacity requirements planning, routing, costing, customer service, shipping, invoicing and using an enterprise resource planning (ERP) software.
Prerequisite: BA 34060; and minimum 2.500 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34065 QUALITY ASSURANCE 3 Credit Hours
Introduction to importance of quality assurance and tools used to accomplish better quality in goods and services. Topics TQM, Six Sigma, quality philosophies, sampling plans and statistical process control, ISO, quality competition and awards.
Prerequisite: BA 34060; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34156 BUSINESS ANALYTICS II 3 Credit Hours
Course provides an introduction and application of business analytics to real-world problems. Students are exposed to methods and models that allows business users to make better decisions based on data. Discussed are methods for collecting, cleaning and visualizing data, linear, non-linear and optimization models to help decision makers choose the best decision, and some advanced forms of modeling. The goal of this course is for students to be exposed to essential topics in business analytics and to apply these techniques to real-world problems.
Prerequisite: BMRT 21004 or MATH 10041 or BA 24056.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44011 SYSTEMS SIMULATION 3 Credit Hours
(Slashed with BA 54011) Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulations studies, analysis and interpretation of results.
Prerequisite: BA 24056 or MATH 10041.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44038 ANALYTICS IN PRACTICE 3 Credit Hours
Course focuses on supporting techniques and managerial and professional skills necessary to being an effective business analyst. Other topics include project management, requirements analysis, change management, team dynamics, leadership, ethics and effective communication between all stakeholders.
Prerequisite: BA 34156.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44050 DATA VISUALIZATION 3 Credit Hours
(Slashed with BA 54050) Introduces students to data visualization, and specifically, how to use visualization to communicate information effectively from data. All aspects of effective data visualization, including understanding the context, choosing appropriate graphs and visuals, and communicating the information from data will be considered. While theoretical aspects of effective visualizations will be covered, the focus will be on implementing such designs. Concentrating significantly on the practice of effective visualizations.
Prerequisite: BA 24056 or MATH 10041; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44051 MACHINE LEARNING 3 Credit Hours
Machine Learning is one of the required courses for the Bachelor of Business Analytics (BANA) program. In this course, students learn the fundamentals of machine learning as applied to business problems. Specifically, the course concentrates on regression and classification methods, including regression, random forests, boosting trees, and neural networks, on unsupervised learning including k-means and hierarchical clustering, and on recommendation systems, and ensemble learning.
Prerequisite: BA 34156; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44052 TEXT ANALYSIS AND NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Slashed with BA 54052) Course is designed to provide students with a comprehensive understanding of how to analyze unstructured text data for actionable business insights. The course explores essential techniques in text analytics, ranging from basic Natural Language Processing (NLP) to advanced machine learning and deep learning models. The curriculum covers a variety of topics such as sentiment analysis, text classification, and feature engineering, along with cutting-edge methodologies like topic modeling and transformer models. Furthermore, the course delves into real-world applications of text analytics in various industries, including healthcare, finance and retail. Students will also examine the ethical considerations related to data privacy and bias in text analytics.
Prerequisite: BA 34156.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44061 OPERATIONS MANAGEMENT AND CONTROL 3 Credit Hours
Introduces the student to the key functions of an operations planning and control system. Operations planning and control systems provide information for the efficient flow of materials, the effective utilization of people and equipment and the proper coordination of internal activities with suppliers and customers.
Prerequisite: Minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44062 SUPPLY CHAIN MANAGEMENT 3 Credit Hours
Students learn the basic analytical tools needed to coordinate business operations across the value chain. Course involves hands-on coverage of supply chain management with emphasis on supplier partnering and development, customer relations management, strategic sourcing and pricing, e-business, measuring supply chain performance, mass customization, planning supply and demand coordination in the supply chain.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44065 STRATEGIES IN PRODUCTION AND OPERATIONS MANAGEMENT (WIC) 3 Credit Hours
Senior project in industrial management. Applies concepts from all prior coursework to the solution of real and simulated operating problems.
Prerequisite: Minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

BA 44092 INTERNSHIP IN BUSINESS ANALYTICS (ELR) 3 Credit Hours
(Repeatable for credit) A supervised field experience at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on-the-job experiences.
Prerequisite: BA 34156.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BA 44099 CAPSTONE IN BUSINESS ANALYTICS (ELR) (WIC) 3 Credit Hours
In this culminating project, students draw on the breadth and depth of the curriculum to address an industry supplied problem individually or in small teams. Specifically, students will improve, and present their solutions to their respective stakeholders, who will grade your final presentation and report.
Prerequisite: BA 44051; and senior standing.
Pre/corequisite: BA 44050.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

BA 44152 PROJECT MANAGEMENT 3 Credit Hours
This course covers the fundamental concepts, procedures and processes related to managing projects from initiation through planning, execution and closing. It also introduces the principles, tools and methods used in project management, and the use of project management software (ProjectLibre) in managing projects. The topics covered in the course can be helpful in preparing for Project Management Professional (PMP) certification.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 54038 ANALYTICS IN PRACTICE 3 Credit Hours
Course focuses on supporting techniques and managerial and professional skills necessary to being an effective business analyst. Other topics include project management, requirements analysis, change management, team dynamics, leadership, ethics and effective communication between all stakeholders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 54050 DATA VISUALIZATION 3 Credit Hours
(Slashed with BA 44050) Introduces students to data visualization, and specifically, how to use visualization to communicate information effectively from data. All aspects of effective data visualization, including understanding the context, choosing appropriate graphs and visuals, and communicating the information from data will be considered. While theoretical aspects of effective visualizations will be covered, the focus will be on implementing such designs. Concentrating significantly on the practice of effective visualizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 54052 TEXT ANALYSIS AND NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Slashed with BA 44052) Course is designed to provide students with a comprehensive understanding of how to analyze unstructured text data for actionable business insights. The course explores essential techniques in text analytics, ranging from basic Natural Language Processing (NLP) to advanced machine learning and deep learning models. The curriculum covers a variety of topics such as sentiment analysis, text classification, and feature engineering, along with cutting-edge methodologies like topic modeling and transformer models. Furthermore, the course delves into real-world applications of text analytics in various industries, including healthcare, finance and retail. Students will also examine the ethical considerations related to data privacy and bias in text analytics.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64005 ANALYTICS FOR DECISION MAKING 2 Credit Hours
Course uses computer capabilities to analyze and understand a variety of statistical and business analytics techniques and how to apply these techniques to solving business problems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BA 64018 QUANTITATIVE MANAGEMENT MODELING 3 Credit Hours
A variety of optimization and heuristic modeling techniques are explored. Decision-making environments, model selection, and interpretation are emphasized. Various linear and nonlinear mathematical programming techniques are the primary topic but are supplemented with other optimization and heuristic techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64026 SUPPLY CHAIN MANAGEMENT 2 Credit Hours
Introduces the knowledge base needed to coordinate business operations across firms' supply chains. Addresses how to integrate traditional business operations to align them in support of inter-firm collaboration required to compete globally. It covers specific topics relevant to supply chain management and offers a managerial orientation towards supporting supply chain operations. It immerses students into responsible operations and supply chain best practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BA 64036 BUSINESS ANALYTICS 3 Credit Hours
Overview of business analytics and its appropriate applications in various industries and functional areas. Critical thinking, problem definition, problem solving, effective communication, and leadership are emphasized. Methods such as data visualization and descriptive, predictive, and prescriptive analytics are covered from a broad perspective. This course is applied, hands-on, and case-based. Cases emphasize the communication of quantitative solutions to laypeople and required leadership during decision-making and implementation stages.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64037 ADVANCED DATA MINING AND PREDICTIVE ANALYTICS 3 Credit Hours
Course extends the coverage of data mining and predictive analytics. Topics focus on the applied use of these techniques in realistic settings. Covers statistical and machine learning techniques.
Prerequisite: BA 64036 or BA 64060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64060 FUNDAMENTALS OF MACHINE LEARNING 3 Credit Hours
(Slashed with BA 74060) In this course, students learn fundamentals of machine learning. Specifically, concentrating on classification modelling, segmentation and clustering and recommendation systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64061 ADVANCED MACHINE LEARNING 3 Credit Hours
Introduction to deep learning and time series data analysis. Students consider applications of deep learning to computer vision, text analysis and sequences, and time series data.
Prerequisite: BA 64060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64082 DATABASE MANAGEMENT AND DATABASE ANALYTICS 3 Credit Hours
(Slashed with BA 74082) The design, implementation and management of database management systems within organizations are studied from an applied perspective. Additional emphases include data warehousing, structured query language for analytics and introductions to NoSQL databases and big data analytics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64092 INTERNSHIP IN BUSINESS ANALYTICS 3 Credit Hours
(Repeatable for credit) A supervised field experience at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on-the-job experiences.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

BA 64099 CAPSTONE PROJECT IN BUSINESS ANALYTICS 3 Credit Hours
(Repeatable for credit) In this culminating project, students draw on the breadth and depth of the curriculum to address an industry supplied problem individually or in small teams. Projects will explore prescriptive analytics as is appropriate to their design project.
Prerequisite: BA 64036 or BA 64060; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

BA 74037 ADVANCED DATA MINING AND PREDICTIVE ANALYTICS 3 Credit Hours
(Slashed with BA 64037) Course extends the coverage of data mining and predictive analytics. Topics focus on the applied use of these techniques in realistic settings. Covers statistical and machine learning techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 74060 FUNDAMENTALS OF MACHINE LEARNING 3 Credit Hours
(Slashed with BA 64060) In this course, students learn fundamentals of machine learning. Specifically, concentrating on classification modelling, segmentation and clustering and recommendation systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 74061 ADVANCED MACHINE LEARNING 3 Credit Hours
(Slashed with BA 64061) Introduction to deep learning and time series data analysis. Students consider applications of deep learning to computer vision, text analysis and sequences and time series data.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 74082 DATABASE MANAGEMENT AND DATABASE ANALYTICS 3 Credit Hours
(Slashed with BA 64082) The design, implementation and management of database management systems within organizations are studied from an applied perspective. Additional emphases include data warehousing, structured query language for analytics and introductions to NoSQL databases and big data analytics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Computer Information Systems (CIS)

CIS 24053 INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES 3 Credit Hours
(Equivalent to IT 11000) This foundational course introduces students to hands-on application of contemporary information systems and digital technologies. From personal devices to cloud infrastructure and traditional office applications to cloud and enterprise systems. Students learn important concepts and theories and begin building their inventory of technical skills to solve problems for immediate application, to earn industry-valued certifications and to prepare for advanced coursework.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

CIS 24065 WEB PROGRAMMING 3 Credit Hours
Principles of visual design as applied to Web site interface development. The course exposes students to the basics of programming and relational database and how to develop a Web-based database driven interactive information system.
Prerequisite: CIS 24053.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 24093 VARIABLE TITLE WORKSHOP IN MANAGEMENT AND INFORMATION SYSTEMS 1-6 Credit Hours
(Repeatable for credit) Special workshop in management and information systems. Credits depend on scope of project.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CIS 24167 CLOUD INFRASTRUCTURE AND APPLICATIONS 3 Credit Hours
Information systems is critical to the efficient operation of any organization today, such as in hiring employees, performing background checks, ordering/creating products, transacting businesses, and providing follow-up services, among others. These can be large "integrated systems" or ERPs or loose collection of "Apps." This class explores the various alternatives available today and the likely future of new products in the future. Different viewpoints and debates will be explored in the class with opportunities for students to discuss and present their thoughts.
Prerequisite: Minimum C+ grade in CIS 24053; and minimum 2.250 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34032 DATA AND FILE TECHNOLOGY 3 Credit Hours
An introduction to file architecture and data base management systems. The application of these technologies is detailed.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34034 BUSINESS MODELING AND AGILE DESIGN 3 Credit Hours
Introduction to innovative modeling and reengineering methods, tools, and techniques such as Agile and SCRUM methods to analyze real-world business problems and offer solutions using existing and emerging digital technologies such as artificial intelligence, smart devices (Internet of Things), cybersecurity and the metaverse/augmented reality/eXtensible reality.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34045 SMALL SYSTEMS TECHNOLOGY 3 Credit Hours
An examination of the role of small computer systems within an organization's information systems environment.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34054 USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS 3 Credit Hours
Digital technologies are dramatically changing businesses and societies. Students will learn about how information systems (IS) are impacting various facets of business and society. Students will also learn about emerging digital technologies such as artificial intelligence, business data analytics, cryptocurrencies and FinTechs, smart devices, cybersecurity, and digital transformation with hands-on assignments related to building and delivering digital innovations for business and society.
Prerequisite: CIS 24053 or IT 11000; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34167 DESIGNING INNOVATIVE PROGRAMS AND APPS 3 Credit Hours
Course on front-end (client-side or user) design exposes students to the process of interface design, starting with the development of mobile-first interface prototypes using techniques such as wireframing and fun coding with HTML, CSS, JavaScript and JQuery. This course may offer certification opportunities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44008 MANAGING AGILE DIGITAL TRANSFORMATION PROJECTS 3 Credit Hours
(Slashed with CIS 54008) Drawn on the modern foundations of software development, this course will offer an overview and hands-on experience of the agile methodologies and techniques (e.g., Scrum, extreme programming) to support the agile implementation of digital transformation projects/strategies in organizations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44040 DESIGNING INNOVATIVE SERVER-SIDE SYSTEMS 3 Credit Hours
Course, on back-end (server-side) design, exposes students to the process of linking the front-end client interfaces to work with powerful servers that perform the magic in the background. Students will be exposed to topics such as server-side and serverless computing, and will use modern web languages such as but not limited to Python, NodeJS, Angular, React and Vue.
Prerequisite: CIS 34167.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44041 MANAGING CYBERSECURITY 3 Credit Hours
(Slashed with CIS 54041) Course explores digital technologies and business issues related to cybersecurity management. It offers the foundations to understand the cybersecurity threats and privacy risks embedded in the implementation of emerging digital technologies (e.g., artificial intelligence, smart devices, collaborative tools) and the execution of digital transformation projects/strategies. The course will also facilitate the development of technological skills to design, implement, and evaluate cybersecurity policies in organizations. The course offers certification opportunities.
Prerequisite: CIS 24053 and CIS 34054 with a minimum C+ grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44042 NETWORK THEORY AND APPLICATIONS 3 Credit Hours
Presentation of current and emerging network technologies and services in business applications and performance issues. Topics include transmission media, modulation and signaling schemes, switching and multiplexing techniques, local and wide area network protocols and standards, and internetworking devices.
Prerequisite: Minimum C+ grade in CIS 24053 and C grade in CIS 24065; and minimum overall 2.250 GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44043 DATABASE DESIGN AND DATA GOVERNANCE 3 Credit Hours
Databases provide the fundamental foundation for modern IT applications. Students will learn the basics of database design by working with relational SQL and NoSQL databases in a hands-on environment. Students will also learn to integrate data governance fundamentals into their database designs.
Prerequisite: CIS 34167.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44046 HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION 3 Credit Hours
(Slashed with CIS 54046) Course will cover some of the latest trends and future predictions for business value creation from digital technology investments in companies. This course has two key objectives. First, it will provide students with the theoretical foundations and techie-savvy managerial skills to create business value from their digital technology investments. Second, it will examine the digital technology selection, usage, exploitation and growth for different purposes (e.g., transformation, innovation and getting a competitive advantage). The course offers certification opportunities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44048 BUILDING SOLUTIONS FOR BUSINESSES (ELR) (WIC) 3 Credit Hours
Just like in industry, students will learn to work together in teams composed of information systems (IS) managers and IS designers to develop fully workable innovative projects (using existing and emerging technologies such as AI, smart devices (IoTs), cybersecurity and XR (eXtensible reality) for a real client. Students will use their diverse knowledge and previous learning as well as articulate their IT-based business solutions for business via "writing-intensive" industry-white papers and client-facing presentations, with regular instructor guidance and feedback.
Prerequisite: Minimum 2.250 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CIS 44093 VARIABLE TITLE WORKSHOP IN MANAGEMENT AND INFORMATION SYSTEMS 1-6 Credit Hours
(Repeatable for credit) Variable title workshop courses offered under Computer Information Systems.
Prerequisite: Minimum 2.25 overall GPA.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CIS 44095 SPECIAL TOPICS IN COMPUTER INFORMATION SYSTEMS 3 Credit Hours
(Repeatable for credit) Offered on a semester basis with different CIS topics and different faculty involved each time the course if offered.
Prerequisite: Minimum 2.250 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44151 INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CIS 54151) Students, in teams, will learn how to build agile and fast prototypes using "low-code, no-code" programming, artificial intelligence, Microsoft Power BI, and Microsoft Power Automate to digitally convert and create digital-first workflows and AI-based solutions with emphasis on requirements engineering and feasibility planning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44292 BUSINESS EXPERIENCE AND INTERNSHIP (ELR) 3 Credit Hours
(Repeatable for credit) Learning by experience and practice in an IT related company. The course exposes students to the various areas and activities related to the information systems profession in a cooperating organization.
Prerequisite: Minimum C+ grade in CIS 24053; and minimum 2.250 overall GPA.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CIS 44293 WORKSHOP IN PROFESSIONAL INFORMATION SYSTEMS CERTIFICATION 3 Credit Hours
(Repeatable for Credit) Supervised workshop designed to help students pass at least one VMware, Microsoft or other vendors' professional certification credentials. The student chooses the exam to take, with the course providing a supported self-study opportunity to prepare for the exam.
Prerequisite: Minimum C+ grade in CIS 24053; and minimum 2.250 overall GPA.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Standard Letter

CIS 44295 SPECIAL TOPICS IN INFORMATION SYSTEMS 3 Credit Hours
(Slashed with CIS 54295) (Repeatable for credit) Special topics course on the newest advances in information systems and how they support business activities. New and emerging topics in information systems are presented experimentally, with the content of the course changing from one offering to another.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54008 MANAGING AGILE DIGITAL TRANSFORMATION PROJECTS 3 Credit Hours
(Slashed with CIS 44008) Drawn on the modern foundations of software development, this course will offer an overview and hands-on experience of the agile methodologies and techniques (e.g., Scrum, extreme programming) to support the agile implementation of digital transformation projects/strategies in organizations.
Prerequisite: Graduate standing; or special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54041 MANAGING CYBERSECURITY 3 Credit Hours
(Slashed with CIS 44041) Course explores digital technologies and business issues related to cybersecurity management. It offers the foundations to understand the cybersecurity threats and privacy risks embedded in the implementation of emerging digital technologies (e.g., artificial intelligence, smart devices, collaborative tools) and the execution of digital transformation projects/strategies. The course will also facilitate the development of technological skills to design, implement, and evaluate cybersecurity policies in organizations. The course offers certification opportunities.
Prerequisite: Admission to MBA or MSBA program; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54046 HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION 3 Credit Hours
Course will cover some of the latest trends and future predictions for business value creation from digital technology investments in companies. This course has two key objectives. First, it will provide students with the theoretical foundations and techie-savvy managerial skills to create business value from their digital technology investments. Second, it will examine the digital technology selection, usage, exploitation and growth for different purposes (e.g., transformation, innovation, and getting a competitive advantage). The course offers certification opportunities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54151 INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CIS 44151) Students, in teams, will learn how to build agile and fast prototypes using "low-code, no-code" programming, artificial intelligence, Microsoft Power BI and Microsoft Power Automate to digitally convert and create digital-first workflows and AI-based solutions with emphasis on requirements engineering and feasibility planning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54295 SPECIAL TOPICS IN INFORMATION SYSTEMS 3 Credit Hours
(Slashed with CIS 44295) (Repeatable for credit) Special topics course on newest advances in information systems and how they support business activities. New and emerging topics in information systems are presented experimentally, with the content of the course changing from one offering to the another.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 64042 GLOBALIZATION AND TECHNOLOGY STRATEGY 2 Credit Hours
This course is designed for anyone dealing with technology in a globalized economy. Technology is pervasive in today's globalized world. Given that technology is central to every business operation, learning to manage technology in a global context is crucial. This course uses technology management as the central cog that impacts multiple business and social facets, including digital transformation, cybersecurity, international operations, sustainability, marketing, finance, culture, human capital and the political economy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CIS 74042 GLOBALIZATION AND TECHNOLOGY STRATEGY 3 Credit Hours
Focus is on the strategic issues around how a firm should manage its technology in a global market. Strategic issues include understanding the technological and competitive landscape, innovations, competitive advantages in the high-tech marketplace, outsourcing and information ethics. The core emphasis in on integrated decision-making in the age of globalization.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84008 THEORY DEVELOPMENT IN INFORMATION SYSTEMS RESEARCH 3 Credit Hours
Course offers the core foundations for theorizing in Information Systems research and provides the platform to develop world-class scientific skills to identify a relevant business and research problem to formulate compelling research questions. Students will learn the key ingredients of a theory and the approaches to building a theory. They will also understand the distinctions between variance and process models and how to build multilevel theories and use multidimensional constructs. They will assimilate the ingredients of a theory including constructs, measures, functional forms of relationships, assumptions and boundary conditions. Students will also discover how to leverage context and time in theory development in Information Systems research. While this course can be useful for doctoral students from other Business Administration or Social Sciences disciplines.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84009 ARTIFICIAL INTELLIGENCE AND CYBERSECURITY MANAGEMENT 3 Credit Hours
Course is designed to provide a comprehensive understanding of how AI technologies are transforming the landscape of cybersecurity, posing new challenges and opportunities for organizations. Students engage with a range of topics, from the fundamentals of AI and machine learning to advanced cybersecurity strategies, ethical considerations and policy development. Course emphasizes critical thinking and research skills, enabling students to analyze complex scenarios. Through a blend of theoretical knowledge and practical applications, students learn how AI algorithms can be employed for threat detection, risk management and response automation. They also examine the vulnerabilities and ethical concerns AI introduces into cybersecurity, such as biases in AI algorithms and the potential for AI-driven cyber attacks. Course prepares students to conduct and publish high-quality research in AI and cybersecurity management. It aims to cultivate a new generation of scholars and practitioners who can navigate and shape the future of cybersecurity in an AI-driven world.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84083 THE BRIGHT AND DARK SIDES OF DIGITAL TECHNOLOGIES 3 Credit Hours
Course meticulously explores the dual facets of the bright and dark sides of digital technologies. Covering a wide array of emerging technologies (Internet of Things), ethical considerations (data privacy, algorithmic bias) and theoretical frameworks (digital responsibility and socio-technical systems). Students will gain a profound understanding of the forefront of IS research. Course will also explore the various bright (digital responsibility, inclusion, accessibility) and dark sides (technostress, digital addiction, online harassment) of digital technologies at both individual (employees, individuals, customers) and organizational levels, with a primary focus on the individual.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84084 BUSINESS VALUE OF DIGITAL TRANSFORMATION 3 Credit Hours
Doctoral seminar is to investigate behavioral and managerial issues in the field of information systems-based digital transformation. The substantive domain of this digital transformation will emphasize what social scientists investigate with the organization as the unit of analysis. Course offers an in-depth exploration into the intersection of digital technology, strategic management and economic theory within these industries. It will provide students with a comprehensive understanding of how digital transformation drives value creation, influences competitive advantage and redefines business models in high-technology sectors. Students will gain a nuanced perspective on the transformative power of digital technologies. Students will explore the basis of strategy, deployment and competition in both legacy industries and high-technology industries and be introduced to conceptual frameworks based on cutting-edge research in economics and strategy. Students will learn how to develop and apply such frameworks in their research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84095 SPECIAL TOPICS IN INFORMATION SYSTEMS RESEARCH 3 Credit Hours
(Repeatable for credit) Variable content of relevance to IS research. Exact topics will be announced when scheduled.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Department of Management

Business Administration Interdisciplinary (BUS)

BUS 10123 EXPLORING BUSINESS 3 Credit Hours
(Equivalent to BMRT 11000) An introduction to the basic areas of business with an integrated perspective on how the various areas work together. Technological competencies and communicative skills will be developed. Team building opportunities will be announced. This course is open to any major. This course should be taken sometime during student's first 30 semester hours.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BUS 10195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Special topics course that will be offered on a semester basis with different topics and different faculty.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

BUS 20192 INTERNSHIP IN BUSINESS (ELR) 1-3 Credit Hours
(Repeatable for credit) Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BUS 20195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Special topics course that will be offered on a semester basis with different topics and different faculty.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

BUS 20293 VARIABLE TITLE WORKSHOP IN BUSINESS 1-3 Credit Hours
(Repeatable for credit) Variable topics.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

BUS 30062 ADVANCED PROFESSIONAL DEVELOPMENT 3 Credit Hours
This course provides an application of professional skills required in the workplace. Specifically, students are exposed to research and analysis methods that drive evidence-based conclusions; preparation and delivery of business proposals and reports; face-to-face and virtual team-building and team interaction; professionalism in job-seeking and networking techniques; etiquette involved in various messaging technologies; ethical decision making as well as other general business acumen, leadership, negotiation, critical thinking, time and self-management, conflict resolution, providing and receiving constructive feedback, etiquette appropriate attire.
Prerequisite: BUS 10123 and COMM 15000 and UC 10162; and ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BUS 30189 INTERNATIONAL BUSINESS EXPERIENCE (DIVG) (ELR) 3 Credit Hours
This is a two to three week course at an international site that explores business in emerging markets across a full range of functions such as marketing, finance, investment, and business strategies.
Prerequisite: ECON 22060 and ECON 22061; and special approval from instructor.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BUS 30195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Special topics course that will be offered on a semester basis with different topics and different faculty.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

BUS 30234 INTERNATIONAL BUSINESS 3 Credit Hours
Learn how international business is affected by the forces of globalization: opportunities, threats and challenges that ensue from hypercompetition and the institutional checks and balances necessary to prevent complexity deteriorating into chaos.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BUS 40192 INTERNSHIP IN BUSINESS (ELR) 1-3 Credit Hours
(Repeatable for credit) Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.
Prerequisite: Permission.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BUS 40195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Special topics course that will be offered on a semester basis with different topics and different faculty.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

BUS 60092 MBA INTERNSHIP 3 Credit Hours
(Repeatable for credit) Practical experience with a commercial or non-profit organization under the guidance of a member of the graduate faculty. Periodic progress reports are required with a graduate level quality paper and possible presentation at the end of the course. Students should have a minimum cumulative GPA 3.000 and completed 12 hours in the MBA program.
Prerequisite: Minimum overall 3.000 GPA; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 11 other
Grade Mode: Standard Letter

BUS 60095 SPECIAL TOPICS IN BUSINESS ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit)In-depth exposure to selected topics in business administration. Topics will vary depending on instructor and topic of current interest.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BUS 60096 INDIVIDUAL INVESTIGATION 2-3 Credit Hours
(Repeatable for credit) For M.B.A, M.S. or M.A. candidates who have completed a minimum 12 hours of work of superior quality with permission of the director graduate school of management.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-3 other
Grade Mode: Standard Letter

BUS 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

BUS 67093 WORKSHOP IN ADVANCED BUSINESS TOPICS 1-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) Designed for those MBA Graduates who want advanced education in selected areas of business. A variety of topics could be addressed in this workshop. The topics may include business technology, innovation in business, advanced leadership and a variety of other areas of interest.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Standard Letter-S/U

BUS 70095 SPECIAL TOPICS IN BUSINESS ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) In-depth exposure to selected topics in business administration. Topics will vary depending on instructor and topic of current interest.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BUS 70198 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral level students, or master's students with at least 34 hours of graduate coursework.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

BUS 71094 COLLEGE TEACHING 1-2 Credit Hours
(Repeatable for credit) Training, supervision and evaluation in college level instruction. Maximum of 2 hours applicable toward degree.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BUS 80050 RESEARCH DESIGN 3 Credit Hours
Students will become familiar with a variety of research design options that would enable them to test a conceptual model, including survey, experimental and quasi-experimental designs. Students will understand how to choose an appropriate design for their research question and to make informed decisions related to sampling, measure selection, use and study procedures.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

BUS 80052 REGRESSION ANALYSIS 3 Credit Hours
Statistical models for regression are widely used in fields of business. Use of these models requires a fundamental understanding of both the theory and their practical applications to problems. This course balances theory and application and provides several opportunities for application to practical problems.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

BUS 80054 ANALYSIS OF VARIANCE 3 Credit Hours
Analysis of variance models are used to analyze the data generated from experimental designs. Use of these models requires a fundamental understanding of experimental design and how it translates to statistical analysis of simple and interaction effects. This course bridges the link from experimental design to statistical analysis.
Prerequisite: BUS 80050; and BUS 80052 or ECON 72054; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

BUS 80056 STRUCTURAL EQUATION MODELING 3 Credit Hours
Course will provide students with a solid foundation in covariance-based structural equation modeling techniques, and also introduce them to component-based structural equation modeling. After a brief review of relevant concepts from the linear regression and multivariate analysis courses, we will cover structural equation modeling topics such as model specification, identification, estimation, fit and testing of both measurement and structural models. Time is devoted to understanding formative vs. reflective measurement, higher order constructs, mediation and moderation, multi-group analysis and assessing common method bias.
Prerequisite: BUS 80050; and BUS 80052 or ECON 72054; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

BUS 80091 DOCTORAL SEMINAR 1 Credit Hour
(Repeatable for credit) A continuing seminar for all students in a Ph.D. program which cuts across all areas of functional specialization.
Prerequisite: Admission to a PhD program.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

BUS 80095 SPECIAL TOPICS IN BUSINESS ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) In-depth exposure to selected topics in business administration. Topics will vary depending on instructor and topic of current interest.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BUS 80098 RESEARCH 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Usually research applied toward dissertation.
Prerequisite: PhD standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter

BUS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BUS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: BUS 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Human Resource Management (HRM)

HRM 34180 HUMAN RESOURCE MANAGEMENT 3 Credit Hours
Focuses on the importance of the management of human resources for any organization, its employees, customers, shareholders, and the community where it is located. The topic helps students understand the important issues that derive from managing people at work and the changing environment organizations face. Students will learn the integral role human resources management plays to the success or failure of an organization. Both practical and theoretical perspectives are presented.
Prerequisite: MGMT 24163 or BMRT 11009; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 34189 INTERNATIONAL EXPERIENCE IN HUMAN RESOURCE MANAGEMENT (DIVG) (ELR) 3 Credit Hours
Guided introduction to applied Human Resource Management in another culture by examining opportunities and challenges. Via select company tours, tour of historical sites and meetings with management from local companies as well as U.S. companies doing business in foreign countries, students will be exposed to the current HR functions and practices in a foreign country, such as selecting and managing a workforce, compliance with the employment laws, employee training and development, expatriation repatriation, performance management, and compensation issues.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA; and sophomore standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

HRM 44091 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for credit) (Slashed with HRM 54091) In-depth readings, discussion projects and presentations in a specialized area of human resource management.
Prerequisite: HRM 34180; and minimum 2.000 overall GPA.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44183 DEVELOPING AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS 3 Credit Hours
(Slashed with HRM 54183) Course focus is quality training design, based upon theory and empirical research. Implications for practice and current challenges in employee training and development are also highlighted.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44185 STAFFING HUMAN RESOURCES 3 Credit Hours
(Slashed with HRM 54185) Staffing, development of systems to select, place, promote, and retain employees to enhance organizational effectiveness and maintain legal compliance are core HRM activities in organizations. This course will provide students with an understanding of the technical components of selection, including how to determine which applicant characteristics should be examined, what procedures should be used to gather information, and how that information should be combined to identify qualified job applicants. In addition, this course focuses on promotion and retention of employees.
Prerequisite: HRM 34180 with a minimum C grade; and a minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44195 ADVANCED TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for credit) Advanced topics course that are offered on a yearly basis. Topics can span the full range of HR functions. This course can also have a practicum format.
Prerequisite: HRM 34180; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44445 GLOBAL HUMAN RESOURCE MANAGEMENT (WIC) 3 Credit Hours
(Slashed with HRM 54445) The course examines the impact of internationalization and cross-cultural challenges on organizations, the factors involved in selecting and managing an international workforce, the evaluation of employee relations and employment law, and address issues such as employee training and development, expatriation-repatriation, performance management, and compensation issues, all from the perspective of managing an international organization.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA; and student must be enrolled in the human resource management major or minor; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HRM 44492 BUSINESS EXPERIENCE AND INTERNSHIP IN HUMAN RESOURCE MANAGEMENT (ELR) 3 Credit Hours
(Repeatable for credit) Learning by experience by performing activities related to the Human Resource Management profession in a cooperating organization.
Prerequisite: HRM 34180 with a minimum C grade; and a minimum 2.000 overall GPA; and must be enrolled in the human resource management major or minor.
Schedule Type: Practical Experience
Contact Hours: 1 lecture, 14 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HRM 44495 SPECIAL TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for credit) Offered on a semester basis with different human resource management topics and different faculty involved each time the course if offered.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44499 HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR) 3 Credit Hours
This course bridges between Human Resource Management coursework and the world of HRM practice. The course will provide a variety of learning experiences to help students gain knowledge and practical experience to prepare them to embark on careers in the HRM profession. Upon completion of this course, students should have much to discuss in a job interview and a useful entry on their resumes.
Prerequisite: HRM 34180 minimum C grade; and minimum 2.000 overall GPA; and student must be enrolled in the human resource management minor or major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HRM 44660 PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS 3 Credit Hours
(Slashed with HRM 54660) The course provides overview of the performance management process, examines various approaches to performance management, and discusses sources of performance management information. Also considers the nature of the compensation systems and pay system mechanics, as well as methods for recognizing employee contributions through compensation.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44763 HUMAN RESOURCE ANALYTICS AND ERP SYSTEMS 3 Credit Hours
The course examines the use of HR data, metrics, analytics, and ERP systems to guide human resource management decision making and support the strategic goals of the organization. The course will introduce students to the characteristics of high quality data, introduce common analysis techniques, data interpretation and visualization, and report assessment. Through lecture, readings, and problem solving exercises using enterprise resource planning systems (SAP and Oracle), students will gain the knowledge and skills necessary to assess various human resource management initiatives and formulate solutions to common human-resource-related problems. Upon completion of the course, students will understand how HR analytics and ERP systems help an organization achieve its strategic goals.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54091 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for Credit) (Slashed with HRM 44091) In-depth readings, discussion projects and presentations in a specialized area of human resource management.
Prerequisite: Business administration major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54183 DEVELOPMENT AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS 3 Credit Hours
(Slashed with HRM 44183) Course focus is quality training design, based upon theory and empirical research. Implications for practice and current challenges in employee training and development are also highlighted.
Prerequisite: Business administration major within the master of business administration degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54185 STAFFING HUMAN RESOURCES 3 Credit Hours
(Slashed with HRM 44185) Staffing, development of systems to select, place, promote, and retain employees to enhance organizational effectiveness and maintain legal compliance are core HRM activities in organizations. This course will provide students with an understanding of the technical components of selection, including how to determine which applicant characteristics should be examined, what procedures should be used to gather information, and how that information should be combined to identify qualified job applicants. In addition, this course focuses on promotion and retention of employees.
Prerequisite: Business administration major within the master of business administration degree.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54445 GLOBAL HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Slashed with HRM 44445) The course examines the impact of internationalization and cross-cultural challenges on organizations, the factors involved in selecting and managing an international workforce, the evaluation of employee relations and employment law, and address issues such as employee training and development, expatriation repatriation, performance management, and compensation issues, all from the perspective of managing an international organization.
Prerequisite: Business administration major within the master of business administration degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54660 PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS 3 Credit Hours
(Slashed with HRM 44660) The course provides overview of the performance management process, examines various approaches to performance management, and discusses sources of performance management information. Also considers the nature of the compensation systems and pay system mechanics, as well as methods for recognizing employee contributions through compensation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 64263 EMPLOYEE SELECTION AND APPRAISAL 3 Credit Hours
(Slashed with HRM 74263) This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.
Prerequisite: HRM 64271; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 64271 HUMAN RESOURCE MANAGEMENT 2 Credit Hours
This course explores the management of a firm's human resources from practical and theoretical perspectives of managing people at work. How high performance work practices (HPWPs) help businesses to motivate their employees for strategic competitive advantage is emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HRM 64399 APPLIED TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
Devoted to intensive investigation of selected topics in human resource management. Students undertake three research projects: (1) quality metrics of selection procedures; (2) use of structured interviews in selection with a focus on the legal defensibility of employment interviews; and (3) use of artificial intelligence in employment interviews.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

HRM 74263 EMPLOYEE SELECTION AND APPRAISAL 3 Credit Hours
(Slashed with HRM 64263) This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 84108 ACQUIRING HUMAN RESOURCES 3 Credit Hours
Course focuses on research theories, methods, and issues in acquiring Human Resources, including employment law, job and work analysis, recruiting, and selection. The course involves critical review and evaluation of existing work and potential avenues for future research. Through reading assignments and a research paper, students should gain an appreciation for the existing state of research and begin to articulate major issues and challenges facing this field.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 84191 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for credit) Variable content of relevance to Human Research Management research. Exact topics will be announced when scheduled.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 84261 STRATEGIC DECISION-MAKING AND HUMAN RESOURCE MANAGEMENT 3 Credit Hours
Provides a first graduate-level introduction to the fundamental concepts of HRM/OB and strategic decision-making.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 84263 OPTIMIZING HUMAN RESOURCES 3 Credit Hours
Students learn areas of human resources management that include training and development, performance management, compensation and retention or turnover.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Management (MGMT)

MGMT 24163 PRINCIPLES OF MANAGEMENT 3 Credit Hours
(Equivalent to BMRT 11009) Introductory course in management and organizational design. The leading contributions in the area are reviewed and practical implications are developed. The course covers the principles that most management professors have come to expect in an introductory course: planning, organizing, leading, and controlling. In addition, the students need to be aware of critical issues managers must be aware of to succeed: diversity, globalization, ethics, technology, sustainability among them. The course serves as an introduction to many upper level business courses.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

MGMT 34157 INTRODUCTION TO THE U.S. HEALTHCARE SYSTEM 3 Credit Hours
Provides an overview of the management, economic and policy issues facing the healthcare, pharmaceutical, biotechnology and medical device industries. The course perspective is global, with emphasis on the U.S. as the largest and most profitable market.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34158 HEALTHCARE TECHNOLOGY MANAGEMENT 3 Credit Hours
Introduce the main components of health care information technology, with emphasis on the components that distinguish the health care delivery system from other business enterprises. Prepares students as clinical managers and consultants who must rely upon or manage information technology to accomplish their objectives.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34159 MANAGING HEALTHCARE ORGANIZATIONS 3 Credit Hours
Operational process management, cost-control and productivity is critical to cost-effective healthcare. Covers topics in improving operations such as patient flow, quality (concepts and mechanics) and process improvement. Students become familiar with methods and resources for implementing change in a health care setting, such as a hospital or outpatient clinic. Provides skills to assess current hospital operations and to identify the appropriate tools to address various functional areas, useful for managers, consultants, clinical providers and others. Process improvement methods such as lean thinking, six sigma, statistical tools, flowcharting, queuing models and other tools are covered. Health care settings beyond the hospital, such as outpatient clinics, are included.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34164 ORGANIZATIONAL MENTORING 3 Credit Hours
Course promotes leadership development through the study of leadership principles, styles, and role models. Students will learn through class lecture and discussion as well as hand-on leadership experience in Exploring Business Interactive Business Seminars (i.e., business labs). Students will work with course instructor to develop a personal leadership plan.
Prerequisite: BUS 10123; and minimum 2.000 overall GPA; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MGMT 34165 DYNAMICS OF LEADERSHIP 3 Credit Hours
This course discusses management and leadership concepts and does so by blending theory and practice. The courses uses case studies, practical application approaches, personal assessment and provides opportunities for students to develop individual and group leadership skills. In addition, many organizational behavior concepts are blended throughout the course.
Prerequisite: MGMT 24163 or BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34175 LEARNING TO LEAD 3 Credit Hours
This is a hands-on learning and leadership course. Classroom time occurs over 4 days at a residential camp before the semester begins. Students learn about leadership from professors, experts in the field, and each other through interactive discussions and activities. During the semester students continue their leadership development working with a personal mentor, and practice their skills through community service projects.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34185 ORGANIZATIONAL BEHAVIOR 3 Credit Hours
Determinants of individual and group behavior within work organizations. Topics covered include, motivation, job design, learning, decision making, leadership and group behavior as they relate to performance and other outcomes in work organizations.
Prerequisite: MGMT 24163 or BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34280 ORGANIZATIONAL CHANGE MANAGEMENT 3 Credit Hours
This course focuses on understanding the processes and challenges involved in responsible organizational change management. The course will provide students a blend of both research and best practice professional applications.
Prerequisite: MGMT 24163 or BMRT 11009; and MGMT 34165; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 44009 THE BUSINESS CASE FOR SUSTAINABILITY 3 Credit Hours
(Slashed with MGMT 54009) This course describes major global trends in the environment, society, and technology; and explores how they are transforming business and how they are deeply changing work, careers and our quality of life. We examine global markets and needs, as expressed by the United Nations Sustainable Development Goals (SDGs). Understanding these trends will help you make sense of the world you in which you live and work and provide insight into an array of career and entrepreneurial opportunities.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 44096 INDIVIDUAL INVESTIGATION IN MANAGEMENT 3 Credit Hours
(Repeatable for credit) Presents opportunity to undertake research. Approval of topic and agreement to work with student must be secured from faculty member and the chairperson of the department prior to registration.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

MGMT 44163 GLOBAL BUSINESS MANAGEMENT (WIC) 3 Credit Hours
Provides an overview of contemporary issues and theoretical frameworks in the field of international strategic management using traditional lecture and practical application cases.
Prerequisite: Minimum C grade in ENG 21011, COMM 15000 and MATH 11010; minimum 2.000 overall GPA; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MGMT 44189 INTERNATIONAL MANAGEMENT EXPERIENCE (DIVG) (ELR) 3 Credit Hours
This course focuses on strategy and policy development and execution for gaining and sustaining global competitive advantage. Strategic management of entrepreneurial and well-established firms, and operational and financial structures of international firms and markets are discussed.
Prerequisite: MGMT 24163 with a minimum C grade; and minimum 2.000 overall GPA; and sophomore standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MGMT 44191 SENIOR RESEARCH SEMINAR IN MANAGEMENT 3 Credit Hours
(Repeatable for credit) Combination of individual or group research and class discussion for superior students. Investigations in administration and organization conducted in accordance with scholarly interests of participants.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MGMT 44192 INTERNSHIP IN MANAGEMENT (ELR) 3 Credit Hours
(Repeatable for credit) A supervised field experience requiring a minimum of 145 hours of work at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on the job experiences.
Prerequisite: MGMT 24163 with minimum C grade; and minimum 2.000 overall GPA; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MGMT 44285 STRATEGIC MANAGEMENT 3 Credit Hours
Integration of the functional areas of business in the formulation and implementation of policy. Projects and case analyses of business situations provide students with the opportunity to apply analytical and creative problem solving skills.
Prerequisite: ACCT 23021 and MKTG 25010 and MGMT 24163 and BA 34060 and FIN 26074 and FIN 36053; and minimum 2.000 overall GPA; and major within the Ambassador Crawford College of Business and Entrepreneurship; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 44299 MANAGEMENT CAPSTONE (ELR) (WIC) 3 Credit Hours
Course integrates various management concepts in informing a manager's strategic decision making process. Students use case analyses and class lectures to demonstrate their leadership abilities in different business scenarios.
Prerequisite: ACCT 23021 and FIN 26074 and FIN 36053 and MGMT 24163 and BA 34060 and MKTG 25010; and minimum 2.000 overall GPA; and declared General Business major; and senior standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MGMT 44392 BUSINESS CONSULTING AND PRACTICUM (ELR) 3 Credit Hours
Provides decision-making tools for solving real-world problems by building synergies in prior knowledge to create a synthesis of real life solutions delivery mechanisms underpinning them to pressing problems of the local and international community. The practicum component includes consulting experience with both for profit and not-for-profit business clients.
Prerequisite: MGMT 24163; and minimum 2.000 overall GPA; and senior standing.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MGMT 44395 SPECIAL TOPICS IN MANAGEMENT 3 Credit Hours
(Repeatable for credit) Offered on a semester basis with different management topics and different faculty involved each time the course if offered.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 54009 THE BUSINESS CASE FOR SUSTAINABILITY 3 Credit Hours
(Slashed with MGMT 44009) This course describes major global trends in the environment, society, and technology; and explores how they are transforming business and how they are deeply changing work, careers and our quality of life. We examine global markets and needs, as expressed by the United Nations Sustainable Development Goals (SDGs). Understanding these trends will help you make sense of the world you in which you live and work and provide insight into an array of career and entrepreneurial opportunities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64050 ESSENTIALS OF BUSINESS MANAGEMENT 3 Credit Hours
This is an introductory management course that discusses functional areas of business and their strategic positioning in delivering business solutions.
Prerequisite: Non-ambassador crawford college of business and entrepreneurship majors; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64158 LEADERSHIP 2 Credit Hours
Students develop an understanding of the leadership process. Through critical thinking, class discussions and class activities, they build skills in leading others, leading themselves and teamwork.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MGMT 64160 LEADERSHIP AND ORGANIZATIONAL CHANGE 3 Credit Hours
(Slashed with MGMT 74160) Course provides students in-depth knowledge of leading organization change. Covers analysis of existing conditions, drivers of change and readiness for change along with methods of change and change implementation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

MGMT 64184 INTERNATIONAL BUSINESS 3 Credit Hours
Study of the business firm in a global context. Application of international business theories and practices to international operations of firms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64270 ORGANIZATIONAL ANALYSIS AND DESIGN 3 Credit Hours
(Slashed with MGMT 74270) Course provides students an in-depth examination of the key factors related to the design of organizations and analysis methods. Students will learn about the identification, capturing and assessment of core processes and the organizational structure elements used to design an organization around core processes. Students will learn various methodologies and analytics to analyze organizational effectiveness.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64275 GLOBAL STRATEGIC MANAGEMENT 3 Credit Hours
Global Strategic Management explores the global challenges facing today's manager. The global competition concepts and strategic managerial alternatives within the context of current global dynamics that impact: a) business operations, b) the political, economic and cultural environment, c) centralized versus de-centralized power in managing local, regional and global firms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64399 BUSINESS STRATEGY 3 Credit Hours
Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed; case analysis of actual business situations helps student further develop analytical and communication skills.
Prerequisite: 18 hours of graduate coursework; and admission to MBA or MSA program; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

MGMT 68051 BUSINESS PROFESSIONAL DEVELOPMENT I 1 Credit Hour
Development of professional business skills for the full-time MBA student to use in both the graduate program and career development.
Prerequisite: Admission to MBA program; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MGMT 68052 BUSINESS PROFESSIONAL DEVELOPMENT II 1 Credit Hour
Continuation of development of professional business skills for the full-time MBA student primarily focused on building and strengthening the skills needed by a manager for the workplace.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MGMT 74160 LEADERSHIP AND ORGANIZATIONAL CHANGE 3 Credit Hours
(Slashed with MGMT 64160) Develop understanding of the theories and techniques needed for the successful management of significant organizational change with emphasis on discussion, exercises and case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

MGMT 74185 BUSINESS STRATEGY 3 Credit Hours
Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed case analysis of actual business situations helps student further develop analytical and communication skills.
Prerequisite: Doctoral approval; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 74270 ORGANIZATIONAL ANALYSIS 3 Credit Hours
(Slashed with MGMT 64270) Theoretical basis and research findings are discussed, permitting the student to analyze and understand complex work organizations. Data provided prepares the student to analyze, design and solve organizational problems within the work environment.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

MGMT 84112 RESEARCH METHODOLOGY 3 Credit Hours
The objectives of this course are: to formulate a research problem and develop testable research hypotheses; develop research skills by learning the different research methods and techniques; explain information contained in research statistical outputs such as SAS and SPSS enable students to conduct meaningful and high quality research in their specific field of interest.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84262 THEORY OF THE FIRM 3 Credit Hours
Course focuses on developing a deep understanding of modern strategic theory in relation to other allied fields. Students will review fundamental concepts of strategic thinking and theory development and then move to contemporary theoretical issues including transaction-cost economics, the resource-based view, the emerging theories of real options and of dynamic capabilities, strategic optimization and constraint theory, and dealing with uncertainty through scenario-driven planning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84275 THEORETICAL AND EMPIRICAL GLOBAL STRATEGY 3 Credit Hours
Focuses on review and integration of the several streams of literature dealing with strategy for, and management of, the product-diversified and/or internationally-diversified firm. Also, in order to complement the emphasis of other doctoral offerings on strategy formulation topics, this seminar places a special emphasis on strategy process, organizational structure and administrative mechanisms. In particular, it explores the foundations as well as current research on corporate governance, broadly define. This includes (I) the set of mechanisms available to align the interest of top managers to those of shareowners, as well as (II) the mechanisms available to motivate and control middle managers so that their decisions and behaviors are aligned with intended corporate and/or international strategy and goals.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84277 ORGANIZATIONAL BEHAVIOR AND THEORY 3 Credit Hours
An examination of theory and research on individual and group behavior in organizations. Special attention is given to theories of motivation, job satisfaction, goal setting, task design, feedback systems, group dynamics, power and teams.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84285 TECHNOLOGY AND INNOVATION STRATEGY 3 Credit Hours
Covers topics pertaining to innovation management at micro-level (entrepreneurship, corporate entrepreneurship), meso-level (networks) and macro-level (cross-country and within-country comparisons).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84291 SEMINAR IN MANAGEMENT SYSTEMS 3 Credit Hours
(Repeatable for credit) Intensive investigation of selected topics in organization and strategic management. Student will be expected to undertake research on a topic determined in joint consultation with the instructor.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Department of Marketing and Entrepreneurship

Entrepreneurship (ENTR)

ENTR 27056 INTRODUCTION TO ENTREPRENEURSHIP 3 Credit Hours
Course examines the entrepreneurial process from idea to launch. Topics of study include the entrepreneurial mindset, attributes of successful entrepreneurs, trendspotting, opportunity recognition, innovation, defining problems and solutions, venture screening, risk assessment, risk tolerance, identification of resources and business planning. Additional focuses include sustainability, how to differentiate products and services to the market and how to turn opportunities into viable businesses. The course is delivered using a multi-discipline approach.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Entrepreneurship

ENTR 27466 SPEAKER SERIES IN ENTREPRENEURSHIP 1 Credit Hour
This course explores entrepreneurship using the experiences of a broad range of entrepreneurs. During the semester, a series of videos created by the Department of Marketing and Entrepreneurship's instructors, present entrepreneurs sharing their paths in establishing successful enterprises, including obstacles they encountered and missteps they made along the way. In addition, students will view videos of researchers who have studied entrepreneurship that provide additional insight into the patterns, realities and misconceptions associated with entrepreneurship and entrepreneurs
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENTR 37040 ENTREPRENEURIAL TOOLS 3 Credit Hours
This course provides an overview of the analytical, decision-making, and communication skills students need to succeed in subsequent coursework and as an entrepreneur. Topics include financial analysis, strategic analysis, for-profit business decision-making and persuasive communications.
Prerequisite: ENTR 27056 with a minimum C grade; minimum 2.000 overall GPA; and Entrepreneurship major or minor or Arts Entrepreneurship minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37045 SALES IN THE ENTREPRENEURIAL VENTURE 3 Credit Hours
This course focuses on the fundamentals of human persuasion and sales as they apply to the early stages of a new venture or start-up. Students will be introduced to the skills practiced by accomplished salespeople. These skills, grounded in understanding purchase decisions, will allow students to navigate the different steps of a sale. The course also addresses persuasion in the context of raising capital, establishing partnerships and recruiting and motivating employees. The importance of ethics and creativity throughout the entrepreneurial selling process is addressed as well.
Prerequisite: ENTR 27056; and minimum 2.000 overall GPA; and Entrepreneurship major or minor or Arts Entrepreneurship Minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37065 ENTREPRENEURIAL FINANCE 3 Credit Hours
This course exposes students to the core financial concepts relevant to entrepreneurial situations. Emphasis is given to: 1) the entrepreneur's personal finances and how entrepreneurs get paid, 2) sources of start-up business funding and the consequences associated with each of those options, 3) proper business set up, with focus on establishment of appropriate of financial and cash controls, 4) financial statement and profitability analysis, and the creation of projected financial statements, 5) bootstrapping and working capital management, 6) business decision-making based on financial analysis, 7) how to value and sell a business, and 8) proper transitioning for the business and the entrepreneur after the economic success or sale of a business.
Prerequisite: ECON 22060 and ENTR 27056; minimum 2.000 overall GPA; and Entrepreneurship major or minor or Arts Entrepreneurship minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37070 SOCIAL ENTREPRENEURSHIP 3 Credit Hours
Social entrepreneurs create innovative solutions to solve challenging social and environmental issues affecting the world around them. In this course, students will learn how to lead and manage charities, non-government organizations, social oriented enterprises and not for profit organizations. Students will apply entrepreneurial business and innovative skills to effectively tackle global issues impacting society.
Prerequisite: ENTR 27056.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37075 ENTREPRENEURIAL MARKETING 3 Credit Hours
Application of marketing concepts to entrepreneurial situations. Emphasis is given to market segmentation and analysis, product and service positioning and market-oriented firm development.
Prerequisite: ENTR 27056; and minimum 2.000 overall GPA; and Entrepreneurship major or minor; or Arts Entrepreneurship minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37080 NEW VENTURE CREATION (WIC) 3 Credit Hours
During this writing and research-intensive course, students will create a feasibility analysis and business plan that will improve the likelihood of new venture success. Topics addressed include: how to define an offering, SWOT & competitive analysis, industry analysis, marketing strategy, operational planning (personnel, inventory, supply chain and location), sales forecasting, financial planning (e.g., proformas, insurance and taxes), strategies for effective partnering with vendors and the identification of key managerial and human resource challenges that a new venture will face. Students will create an action plan for the first 120 days of a business that can be executed in the Entrepreneurial Experience I and II capstone courses.
Prerequisite: ENTR 27056; and ENTR 37040 with a minimum C grade; and ENTR 37065 or FIN 36053; minimum minimum 2.000 overall GPA; and Entrepreneurship major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ENTR 37195 SPECIAL TOPICS IN ENTREPRENEURSHIP I 1-4 Credit Hours
(Repeatable for credit) Special topics course offered on an irregular basis. Topics differ and faculty are involved each time the course is offered. Specific topics may need to request special approval to register the course. Special approval may include items such as: minimum GPA, course prerequisites and instructor approval. The course schedule will contain the enrollment requirements for a specific special topics course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ENTR 45096 INDIVIDUAL INVESTIGATION IN ENTREPRENEURSHIP 1-3 Credit Hours
(Repeatable for credit) Independent investigation of appropriate problem undertaken by a senior entrepreneurship major.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ENTR 47047 STRATEGIC DILEMMAS IN ENTREPRENEURSHIP 3 Credit Hours
Every entrepreneurial challenge requires making a choice. Most of these choices have strategic consequences for the entrepreneur, their ventures, as well as for co-founders, employees, investors and potential acquirers. Students work in groups to tackle a challenge of their interest. They participate in the cycle of inspiration, ideation and experimentation and learn about common entrepreneurial dilemmas around when to start, with whom, what and how. The topics covered include timing of entrepreneurial entry, type of entry, family business dilemmas, division of roles in a new venture, equity split, hiring dilemmas, investor dilemmas and exit choices.
Prerequisite: ENTR 27056 with a minimum C grade; minimum 2.000 overall GPA; and Entrepreneurship major or minor; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 47048 ENTREPRENEURIAL EXPERIENCE I (ELR) 3 Credit Hours
First of a two-course sequence designed to immerse entrepreneurship majors into the dynamics of starting and running a business through the creation of their own venture. Students in this course will utilize a plan they developed in New Venture Creation, ENTR 37080, or create a new business plan. Activities may include identifying market needs, researching financial viability of the business venture to meet that need, marshaling the resources to launch a business and launching the business.
Prerequisite: Minimum C grade in ENTR 37080 and minimum 2.000 overall GPA; and Entrepreneurship major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENTR 47049 ENTREPRENEURIAL EXPERIENCE II 3 Credit Hours
Second of a two-course sequence designed to immerse entrepreneurship majors into the dynamics of starting and running a business through the creation of their own venture. Activities include growing the business started during Entrepreneurial Experience I, meeting all operational requirements of the business, evaluating the business, and determining whether to continue the business or shut it down upon completion of the course.
Prerequisite: ENTR 47048; and minimum 2.000 overall GPA; and Entrepreneurship major and minor.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

ENTR 47091 SEMINAR IN ENTREPRENEURSHIP 3 Credit Hours
(Repeatable for credit) Current topics in entrepreneurship. Entrepreneurship majors will not receive credit for this course. Not open to Entrepreneurship majors.
Prerequisite: ENTR 27056; and student in the College of Business Administration; and junior or senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENTR 47189 INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP (DIVG) (ELR) 3 Credit Hours
The student will gain firsthand exposure to international businesses and organizations generally relating to business, and specifically relating to entrepreneurship. The course includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: ENTR 27056; and Entrepreneurship major or minor; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ENTR 47195 SPECIAL TOPICS IN ENTREPRENEURSHIP II 1-4 Credit Hours
(Repeatable for credit)Special topics course offered on an irregular basis; different topics and faculty involved each time the course is offered. Specific topics may need to request special approval to register for the course. Special approval may include items such as: minimum GPA, course prerequisites and instructor approval. The course schedule will contain the enrollment requirements for a specific special topics course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ENTR 47289 INTERNATIONAL ENTREPRENEURSHIP: THE ITALIAN PERSPECTIVE (DIVG) (ELR) 3 Credit Hours
Course explores the "Creative Entrepreneurial Business Model," particularly relevant in Italy and Mediterranean cultures, in comparison to international models. Students have the unique opportunity to analyze various entrepreneurial business models through conceptual frameworks, cases, guest speakers and site visits, contrasting them with prevalent U.S. models. The class emphasizes active learning, combining lectures, discussions, exercises, case analyses, site visits and presentations to provide a comprehensive understanding of entrepreneurial concepts in the context of international business excellence. This course is only offered in the Florence program.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ENTR 47292 ENTREPRENEURIAL INTERNSHIP (ELR) 3 Credit Hours
Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.
Prerequisite: Minimum 2.000 overall GPA; and Entrepreneurship major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Marketing (MKTG)

MKTG 25010 PRINCIPLES OF MARKETING 3 Credit Hours
(Equivalent to BMRT 21050) An overview of the processes, activities and problems associated with the conception, planning and execution of the pricing, promotion and distribution of ideas, goods and services to create exchange values in the market.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

MKTG 35030 MARKETING APPLICATIONS 3 Credit Hours
Students learn and apply strategic and financial analysis skills to make real-world marketing decisions. Emphasis on marketing planning and core strategic decisions in marketing, including segmentation, targeting and positioning.
Prerequisite: MKTG 25010 with a minimum C grade; and minimum 2.000 overall GPA; and marketing major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35035 CONSUMER BEHAVIOR 3 Credit Hours
Focus is on the decision-making processes of the individual consumer and the psychological, sociological, cultural and economic factors that influence those choices. Understanding why consumers behave in the way that they do is the heart of the study of consumer behavior and informs the formulation of marketing strategy. Periodically offered as an online course.
Prerequisite: MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35046 PROFESSIONAL SELLING 3 Credit Hours
Introduces students to effective communication, successful selling and persuasion techniques, building customer relationships, ethics, the buying and selling process and developing professional sales calls.
Prerequisite: BMRT 21050 or MKTG 25010 or MKTG 35035.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35050 MARKETING RESEARCH 3 Credit Hours
Learn how to formulate research questions, design a study to identify customer needs, attitudes, beliefs and behaviors utilizing existing and new marketing data and analyze the data and communicate the results.
Prerequisite: MKTG 25010; and MATH 10041 or BA 24056; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35056 SOCIAL MEDIA MARKETING 3 Credit Hours
Explore the various opportunities and risks that social media marketing holds for firms. During the course students will learn about topics such as social media's effect on marketing, creating and managing brand presences on social media, creating and marketing a branded viral video and identifying online influencers.
Prerequisite: MKTG 25010; and minimum GPA 2.000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35061 MARKETING ANALYTICS 3 Credit Hours
This course presents an overview of the process of conducting marketing analytics in a business organization. Broadly, this process encompasses distilling management questions into its causes and consequences, determining data requirements, assembling a data set amenable to analysis, model selection, analysis, and the communication of analytics insights. Consequently, marketing analytics is discussed as a rich, data-driven process to visualize, predict and improve business outcomes, and how to think about analysis and how to communicate its results are emphasized.
Prerequisite: MATH 10041 or BA 24056; and a marketing major or entrepreneurship major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45020 COMPETITIVE MARKET ANALYSIS 3 Credit Hours
Focuses on establishing and maintaining a competitive market position through product and pricing strategies driven by industry and competitive analysis. Students will participate in a marketing simulation where they will make marketing decisions and strive to compete effectively.
Prerequisite: MKTG 25010; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45023 CUSTOMER ANALYSIS 3 Credit Hours
Focuses on the methods marketers use to analyze and understand their customers. Incorporates market segmentation and targeting, understanding consumer and buyer decision-making, and customer relationship management. Students will complete a segmentation plan for a client firm.
Prerequisite: BA 24056 and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45045 ADVERTISING AND PROMOTION MANAGEMENT 3 Credit Hours
Increases students' understanding of advertising concepts as well as structure and functions of different "players" within the industry. Integrates marketing and advertising theory with application in advertising decision-making. Periodically offered as an online course.
Prerequisite: MKTG 25010 or BMRT 21050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45047 ADVANCED PROFESSIONAL SELLING 3 Credit Hours
Builds on the foundation established in Personal Selling and Sales Management (MKTG 45046) by applying sales concepts, participating in live sales calls with Business Partner Company Sales Reps, spending highly focused time in role plays with immediate feedback from the instructors, interacting with guest speakers who are experts in sales, and studying advanced sales and persuasion techniques. Experiential course that requires some flexibility with scheduling for the shadow experiences.
Prerequisite: MKTG 35046 or MKTG 45052 or ENTR 37045; and minimum 2.000 overall GPA.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MKTG 45048 COMPETITIVE SALES SKILLS DEVELOPMENT 1 Credit Hour
(Repeatable for credit) Develops competitive sales skills that will transfer to a professional sales career while learning specific skills to compete in regional, national and international collegiate sales competitions. Experiential course that requires some flexibility with scheduling for the sales competitions and coaching sessions.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MKTG 45049 SALES FORCE LEADERSHIP 3 Credit Hours
Focuses on the strategic areas of contemporary sales force leadership. Emphasis on strategies, leadership skills and management techniques. Provides CRM training and forecasting techniques.
Prerequisite: ENTR 37045 or MKTG 35046.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45051 DIGITAL MARKETING 3 Credit Hours
Understand the important and current applications of digital marketing tools and concepts. This course will cover concepts including customer relationship management, user experience, digital advertising and search engine optimization. We will explore why these are valuable tools and apply them to real-world examples.
Prerequisite: MKTG 25010; and minimum GPA 2.000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45052 SALES AND SALES MANAGEMENT 3 Credit Hours
Focuses on the tactical side of sales management with emphasis on persuasive communication and understanding others' perspectives to reach a "win-win" outcome. Incorporates sales management techniques including effective delegation, team-building and territory management. Students will engage in role playing and simulated selling scenarios.
Prerequisite: MKTG 35046.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45060 INTERNATIONAL MARKETING 3 Credit Hours
(Slashed with MKTG 55060) Examination of international marketing in terms of global markets and trade. Emphasizes differences among markets caused by geography, politics, economics, culture, commercial policy and trade practices.
Prerequisite: BMRT 21050 or MKTG 25010 or MKTG 35035.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45082 SERVICES MARKETING 3 Credit Hours
Provides an integrated understanding of what is required to develop and market a successful service to a chosen target market. Positioning of a service product can be achieved through the "4 Ps" tactics originally used for goods marketing in addition to three new Ps" for services, which include design of the delivery process, recruitment and training of people, and developing appropriate physical evidence. Readings, lectures, tests, and experiential activities are used to develop and assess learning.
Prerequisite: MKTG 25010; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45084 MARKETING POLICIES AND STRATEGIES (ELR) (WIC) 3 Credit Hours
Capstone course for marketing majors. Course deals with marketing policies and strategies with emphasis on managerial decision-making case approach.
Prerequisite: MKTG 35030 with a minimum C grade; and minimum 2.000 overall GPA; and marketing major; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MKTG 45091 MARKETING SEMINAR 1-4 Credit Hours
(Repeatable for credit)Current topics in marketing. Certain sections of this variable topic seminar may require instructor special approval or have further prerequisites. See current schedule of classes.
Prerequisite: MKTG 25010 or BMRT 21050 or MKTG 35035; and minimum 2.000 overall GPA.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MKTG 45095 SPECIAL TOPICS IN MARKETING 1-4 Credit Hours
(Repeatable for credit) Special Topics in Marketing permits the exploration of topics that are not covered, or not covered in as much depth, in scheduled courses. Credit hours depend on the scope of the project. Specific topics may need to request special approval to register for the course. Special approval may include items such as: minimum GPA, course prerequisites and instructor approval. The course schedule will contain the enrollment requirements for a specific special topics course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

MKTG 45096 INDIVIDUAL INVESTIGATION IN MARKETING 1-3 Credit Hours
(Repeatable for credit) Independent investigation of appropriate problem undertaken by a senior marketing major.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter

MKTG 45189 INTERNATIONAL EXPERIENCE IN MARKETING (DIVG) (ELR) 3 Credit Hours
The student will gain firsthand exposure to international businesses and organizations generally relating to business and specifically relating to marketing. The course includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: MKTG 25010; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MKTG 45192 SALES INTERNSHIP (ELR) 3 Credit Hours
Supervised practical experience in sales with a business. An internship application and faculty approval are needed prior to registration for this course.
Prerequisite: MKTG 35046 or MKTG 45052 or ENTR 37045; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MKTG 45292 MARKETING INTERNSHIP (ELR) 3 Credit Hours
Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.
Prerequisite: MKTG 25010 or BMRT 21050 or MKTG 35035; and special approval.
Schedule Type: Individual Investigation, Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MKTG 55060 INTERNATIONAL MARKETING 3 Credit Hours
(Slashed with MKTG 45060) Examination of international marketing in terms of global markets and trade. Emphasizes differences among markets caused by geography, politics, economics, culture, commercial policy and trade practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 65051 MARKETING MANAGEMENT 2 Credit Hours
Analysis of marketing management at a level appropriate to students with limited background in the subject. The course will include lectures, and will integrate a major experiential component (e.g., a marketing simulation, a client-based project, etc.). Services, global marketing, and legal and ethical issues will be integrated across topic areas.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MKTG 65054 INTERNATIONAL MARKETING 3 Credit Hours
Course focuses on the types of marketing decisions facing the international marketing manager or vice president in the multinational firm.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 75050 MODERN ENTREPRENEURIAL MANAGEMENT 3 Credit Hours
Analysis and application of the key elements of both entrepreneurship (new business starts) and entrepreneurship in existing companies.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 85057 RESEARCH DESIGN 3 Credit Hours
Focuses on the construction of a conceptual framework; the design of an experiment sampling plan data collection methods and the application of statistical techniques.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 85060 MARKETING STRATEGY 3 Credit Hours
Examines important topics in marketing management and strategy such as brand equity, competition, channel management, market orientation, product innovation, customer satisfaction and their impact on financial outcomes in the areas of business-to-consumer and business-to-business.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 85063 ANALYTICAL METHODS IN MARKETING RESEARCH 3 Credit Hours
Application of multivariant statistical techniques in marketing research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MKTG 85064 BUYER BEHAVIOR 3 Credit Hours
An analysis of extant and emerging theories, models and concepts of buyer consumer behavior and their development and testing.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MKTG 85066 MARKETING THEORY 3 Credit Hours
The central objective of the course is to develop the doctoral student's background in marketing theory, theory construction and the creation of marketing knowledge.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MKTG 85074 CONSUMER PSYCHOLOGY 3 Credit Hours
Analysis of extant and emerging theories, models and concepts in Consumer Psychology. The course provides coverage of classic and current research related to cognitive and affective processing and their impact on marketing-related outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MKTG 85098 RESEARCH IN MARKETING 3 Credit Hours
(Repeatable for credit) Designed to assist students in developing dissertation topics or to provide an opportunity to study material or topic not covered elsewhere in the program.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

MKTG 85191 SEMINAR IN MARKETING 3 Credit Hours
(Repeatable for credit) Course is designed to provide doctoral students with a broad exposure to a current and substantive topic area in marketing. This course will expose students to classic and new ideas, help them critically analyze these ideas, and provide them with the opportunity to relate these ideas to their own research interests.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Business Administration - Ph.D.

Ambassador Crawford College of Business and Entrepreneurship
www.kent.edu/business

About This Program

The Ph.D. degree in Business Administration offers rigorous coursework and research opportunities to prepare graduates for success in academia or industry. With top-notch faculty and cutting-edge resources, our program develops critical thinking skills, innovative problem-solving abilities and advanced research methods to equip graduates with the tools they need to make a significant impact in the world of business. Read more...

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- **Felecia Urbanek** | furbanek@kent.edu | 330-672-2282
- **Jen Wiggins, Ph.D.** | jwiggin2@kent.edu | 330-672-1259
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the Human Resource Management concentration are not being accepted at this time.

Examples of Possible Careers

- Assistant Professor of Accounting
- Assistant Professor of Finance
- Assistant Professor of Information Systems
- Assistant Professor of Management
- Assistant Professor of Marketing

Accreditation

AACSB International - The Association to Advance Collegiate Schools of Business

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Human Resource Management concentration are not being accepted at this time.

Admission to all concentrations are dependent on available funding.

- Master's degree from an accredited college or university with a minimum 3.000 GPA on a 4.000-point scale
- Official transcript(s)
- Minimum 600 GMAT or 315 GRE score
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 100 TOEFL iBT score *(starting with fall 2026 admission term, minimum score is 94)*
  - Minimum 7.0 IELTS score
  - Minimum 68 PTE score *(starting with fall 2026 admission term, minimum score is 65)*
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores may not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: January 1 (international student) and February 1 (domestic student)

Applications submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BUS 71094	COLLEGE TEACHING	1-2
Major Electives		12
Department Electives [1]		0-9
Econometrics or Psychometrics Track, choose from the following: [2]		12
Econometrics Track:		
ECON 72052	DATA ACQUISITION AND PREPARATION FOR ACADEMIC RESEARCH	
ECON 72054	ECONOMETRICS I	
ECON 72055	ECONOMETRICS II	
ECON 72056	TIME SERIES ANALYSIS	
Psychometrics Track:		
BUS 80050	RESEARCH DESIGN	
BUS 80052	REGRESSION ANALYSIS	
BUS 80054	ANALYSIS OF VARIANCE	
BUS 80056	STRUCTURAL EQUATION MODELING	
Culminating Requirement		
BUS 80199	DISSERTATION I [3]	30
Concentrations		
Choose from the following:		12
Accounting		
Finance		
Human Resource Management		
Information Systems		

Marketing	
Minimum Total Credit Hours:	**67**

1 Department elective need is determined by department. MKTG 85098 is the Department of Marketing and Entrepreneurship selected elective.

2 It is recommended that students complete either the Econometrics Track or the Psychometrics Track in its entirety; however, substitutions may be made with the permission of the concentration coordinator.

3 Successful completion of the comprehensive examinations and approval of a dissertation topic shall constitute admission to candidacy for the Ph.D. degree. The final phase of the Ph.D. program is the preparation of the Ph.D. dissertation. Upon completion, the dissertation is defended before a committee of the graduate faculty. Each doctoral candidate must register for BUS 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter BUS 80299, each semester, until all requirements for the degree have been met.

Accounting Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		12
ACCT 83031	AUDITING ISSUES	
ACCT 83033	MANAGERIAL ACCOUNTING ISSUES	
ACCT 83037	FINANCIAL ACCOUNTING ISSUES	
ACCT 83038	BASIC ACCOUNTING RESEARCH METHODOLOGY	
ACCT 83098	RESEARCH IN ACCOUNTING	
Minimum Total Credit Hours:		**12**

Finance Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		12
FIN 86061	THEORIES OF FINANCIAL DECISION-MAKING	
FIN 86062	SEMINAR IN CORPORATE FINANCE	
FIN 86064	SEMINAR IN FINANCIAL INSTITUTIONS	
FIN 86066	SEMINAR IN INVESTMENTS	
FIN 86391	SEMINAR IN FINANCIAL TOPICS	
Minimum Total Credit Hours:		**12**

Human Resource Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
HRM 84108	ACQUIRING HUMAN RESOURCES	3
HRM 84191	SEMINAR IN HUMAN RESOURCE MANAGEMENT	3
HRM 84263	OPTIMIZING HUMAN RESOURCES	3
MGMT 84277	ORGANIZATIONAL BEHAVIOR AND THEORY	3
Minimum Total Credit Hours:		**12**

Information Systems Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CIS 84008	THEORY DEVELOPMENT IN INFORMATION SYSTEMS RESEARCH	3
CIS 84009	ARTIFICIAL INTELLIGENCE AND CYBERSECURITY MANAGEMENT	3
CIS 84083	THE BRIGHT AND DARK SIDES OF DIGITAL TECHNOLOGIES	3
CIS 84084	BUSINESS VALUE OF DIGITAL TRANSFORMATION	3
Minimum Total Credit Hours:		**12**

Marketing Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		12
MKTG 85060	MARKETING STRATEGY	
MKTG 85064	BUYER BEHAVIOR	
MKTG 85066	MARKETING THEORY	
MKTG 85074	CONSUMER PSYCHOLOGY	
MKTG 85191	SEMINAR IN MARKETING	
Minimum Total Credit Hours:		**12**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an in-depth knowledge and understanding of their interest area and display a high degree of mastery in appropriate theories, analytical skills, research design and methodologies.
2. Conduct original research by integrating knowledge of specific areas of interest and successfully articulating their research in written form.
3. Effectively plan and deliver undergraduate business courses and reliably evaluate the undergraduate students.

Full Description

The Ph.D. degree in Business Administration prepares doctoral students to conduct high-quality, scholarly research and teach effectively in the field of business administration. The degree's purpose is to develop the intellectual potential of the student through the emphasis on specific areas of concentration within the framework of the general field of business administration. Academic objectives are accomplished through close student-faculty working relationships. The program provides the flexibility to allow for a considerable degree of individual design, based upon the career needs and objectives of the student.

The Business Administration major comprises the following concentrations:

- The **Accounting** concentration prepares highly qualified candidates for faculty positions in colleges and universities. In addition to completing doctoral-level coursework and a dissertation, students conduct scholarly research and become effective teachers.
- The **Finance** concentration prepares students for finance faculty positions in colleges and universities. Students complete courses in business and finance, learn how to conduct high-quality, scholarly research and become effective teachers.

- The **Human Resource Management** concentration prepares students for academic positions in the field of human resource management. Students are trained to be researchers and teachers.
- The **Information Systems** concentration creates a strong grounding in areas of behavioral, strategic, analytical and economic aspects of the impact of digital technologies; digitalization; and digital transformation on individuals, organizations and society. Students are trained to become world-class scholars and passionate and effective teachers.
- The **Marketing** concentration prepares highly qualified candidates for positions of professional responsibility in university teaching and research. The program offers a solid balance of teaching experience and preparation for conducting scientific research.

Department of Accounting

Ambassador Crawford College of Business and Entrepreneurship
402 Crawford Hall
Kent Campus
330-672-2545
accounting@kent.edu
www.kent.edu/business/accounting

Undergraduate Programs

- Accounting - B.B.A.

Undergraduate Minors

- Accounting

Graduate Programs

- Accounting - M.S.A.

Graduate Certificates

- Accounting Analytics
- Accounting Fundamentals
- Advanced Accounting

Department of Accounting Faculty

- Ballestero, Ryan C. (2021), Assistant Professor, Ph.D., University of Texas - Austin, 2021
- Fang, Shunlan (2014), Associate Professor, Ph.D., Temple University, 2013
- Laksmana, Indrarini V. (2004), Professor, Ph.D., Georgia State University, 2004
- Li, Wei (2006), Associate Professor, Ph.D., Washington State University, 2006
- Loftus, Serena (2021), Assistant Professor, Ph.D., University Of Washington, 2015
- Miller, Scott E. (2019), Lecturer, M.A., The Ohio State University, 2005
- Nett, Malinda B. (2009), Associate Professor, M.Tax., University of Akron, 1995
- Sellers, R. Drew (2011), Associate Professor, D.M., Case Western Reserve University, 2008
- Tietz, Wendy M. (2000), Professor, Ph.D., Kent State University, 2007
- Zhang, R.Z. (2020), Assistant Professor, Ph.D., Tulane University, 2020

Accounting (ACCT)

ACCT 23020 INTRODUCTION TO FINANCIAL ACCOUNTING 3 Credit Hours
(Equivalent to ACTT 11000) Introduction to the basic concepts and standards underlying financial accounting. Topics to be covered include revenue recognition, receivables, inventory, long-lived assets, liabilities and stockholders' equity. The impact of transactions on the accounting equation and financial statements (balance sheet, income statement and cash flows) is emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

ACCT 23021 INTRODUCTION TO MANAGERIAL ACCOUNTING 3 Credit Hours
(Equivalent to ACTT 11001) Introduction to managerial accounting concepts and tools that can be used to support decision-making in organizations. Includes coverage of cost systems, cost behavior, cost-volume-profit analysis, relevant costs and budgets.
Prerequisite: ACCT 23020 or ACTT 11000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

ACCT 33001 INTERMEDIATE FINANCIAL ACCOUNTING I 3 Credit Hours
Review of the accounting cycle; financial statement preparation, accounting for sales, receivables, inventory, current liabilities and long-term assets. Professional accounting research skills are emphasized.
Prerequisite: MATH 11012 or MATH 12002 or MATH 10051 or PHIL 21002; and minimum B- grade in ACCT 23020 (or ACTT 11000) and ACCT 23021 (or ACTT 11001); and minimum C grade in ENG 21011 and COMM 15000 and MATH 11010; and minimum 2.000 overall GPA; and Accounting major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33004 INTRODUCTION TO ACCOUNTING SYSTEMS 3 Credit Hours
Overview of accounting information systems with emphasis on internal controls. Course explores how the integrity and efficiency of business process are supported by information systems. Interpersonal skills and computer applications are emphasized.
Prerequisite: CIS 24053; and MATH 11012 or MATH 12002 or MATH 10051 or PHIL 21002; and minimum B- grade in ACCT 23021 (or ACTT 11001) and ACCT 23020 (or ACTT 11000); and minimum C grade in ENG 21011, COMM 15000 and MATH 11010; and minimum 2.000 overall GPA; and Accounting major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33010 COST ACCOUNTING 3 Credit Hours
Cost accounting for manufacturing and service organizations, including cost determination, cost analysis, costing systems, cost-volume-profit analysis, budgeting, cost allocation, activity-based costing, capital investment and performance measurement. Computer application skills are emphasized.
Prerequisite: Minimum C grade in ACCT 33001; and minimum 2.000 overall GPA; and Accounting major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33012 INTERMEDIATE FINANCIAL ACCOUNTING II 3 Credit Hours
Accounting for long-term liabilities, debt and equity investments, leases, pensions and other post-retirement benefits, income tax allocation, owners' equity and statement of cash flows. Professional accounting research skills and written communication skills are emphasized.
Prerequisite: Minimum C grade in ACCT 33001; and minimum 2.000 overall GPA; and Accounting major and minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33013 TAX FOR ENTREPRENEURS 3 Credit Hours
This course explores contemporary tax issues faced by entrepreneurs. Topical coverage includes the tax implications of business and financial decisions throughout the business life cycle and required tax compliance for various taxes including income, payroll and sales taxes. Analytical skills are emphasized through modeling tax outcomes.
Prerequisite: Minimum 2.000 overall GPA; not open to students declared in the Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33061 FINANCIAL REPORTING ISSUES AND ANALYSIS 3 Credit Hours
Financial analysis and interpretation of issues relative to the balance sheet, income statement and cash flow statement. Topics include assets, liabilities, owner's equity, inter-corporate investments, revenue and expense recognition and ratio analysis. Course may not be used to fulfill requirements in the Accounting major.
Prerequisite: ACCT 23021 or ACTT 11001; and minimum 2.000 overall GPA; not open to students declared in Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 33063 COST CONTROL AND ANALYSIS FOR MANAGEMENT 3 Credit Hours
An in-depth study of cost accounting, focusing on the use of cost accounting information in planning, control and decision-making. Topics include cost terminology, costing systems, cost-volume-profit analysis, budgeting, cost allocation, activity-based costing, variance analysis, ethics and performance measurement. Course may not be used to fulfill requirements in the Accounting major.
Prerequisite: ACCT 23021 or ACTT 11001; and minimum 2.000 overall GPA; not open to students declared in Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43009 ACCOUNTING DATA ANALYTICS 3 Credit Hours
(Slashed with ACCT 53009) Students apply data analytical concepts, tools and techniques in an accounting context. Course explores how to acquire, cleanse and analyze accounting and other data in accounting-related settings. Students complete cases in financial accounting, managerial accounting, auditing and tax. Critical thinking and application of both general and accounting-specific data analytics software are emphasized.
Prerequisite: Minimum C grade in ACCT 33004, ACCT 33010 and ACCT 33012; and minimum 2.000 overall GPA; and Accounting major.
Corequisite: ACCT 43010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43010 PRINCIPLES OF AUDITING (ELR) (WIC) 3 Credit Hours
Integration of conceptual and practical aspects of auditing, importance of strong internal controls is stressed. Ethical decision making, written and verbal communication and interpersonal skills are emphasized.
Prerequisite: Minimum C grade in ACCT 33004 and ACCT 33012; and minimum 2.000 overall GPA; and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ACCT 43013 ADVANCED MANAGEMENT ACCOUNTING 3 Credit Hours
(Slashed with ACCT 53013) The course covers advanced current topics relating to the use of accounting information in managerial decision-making. Topical coverage includes balanced scorecards, pricing decisions, transfer pricing, performance measurement, and other current topics. Analytical skills are emphasized through cases, exercises, and other pedagogical tools.
Prerequisite: Minimum C grade in ACCT 33004 and ACCT 33010; and minimum 2.000 overall GPA and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43020 ADVANCED FINANCIAL ACCOUNTING 3 Credit Hours
(Slashed with ACCT 53020) Conceptual and practical issues surrounding: (1) financial reporting for investment activities of businesses when one firm possesses significant influence or control over another; (2) accounting for international business transactions, including the use of derivatives for hedging foreign exchange risk; and (3) translating foreign currency financial statements of foreign operations. Professional accounting research and written communication skills are emphasized.
Prerequisite: Minimum C grade in ACCT 33001 and ACCT 33004 and ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43031 INCOME TAXATION I - INDIVIDUAL TAXATION 3 Credit Hours
Introduction to Federal income tax for individual taxpayers. Detailed analysis recognition rules for individuals. Overview of tax rules related to entity choice for business owners.
Prerequisite: Minimum C grade in ACCT 33001; and minimum 2.000 overall GPA; and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43033 INCOME TAXATION II - ENTITY TAXATION 3 Credit Hours
(Slashed with ACCT 53033) Federal taxation of business entities, including income taxation of C corporations, partnerships, S corporations and trusts and estates; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized.
Prerequisite: ACCT 43031; and minimum 2.000 overall GPA; and Accounting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43043 INTERNAL AUDIT AND FRAUD EXAMINATION 3 Credit Hours
(Slashed with ACCT 53043) This course introduces students to the internal audit profession and the internal audit process. Topics include the definition of internal auditing, the International Professional Practices Framework (IPPF), risk, governance and control issues and conducting internal audit engagements. This course also provides an overview of fraud examination and forensic accounting, including the introduction to fraud in business, the circumstances in which it arises, techniques for preventing, detecting, measuring fraud and the skills necessary to respond and resolve fraud once discovered. Students apply the concepts to analyze cases in internal audit and fraud examination. Written and oral communication skills are emphasized.
Prerequisite: Minimum C grade in ACCT 43010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43089 INTERNATIONAL ACCOUNTING EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Slashed with ACCT 53089) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to accounting and finance. Includes pre-trip orientation sessions, visits to international businesses and organizations and opportunities for cultural activities.
Prerequisite: ACCT 23020 and ACCT 23021; and Accounting major; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ACCT 43092 ACCOUNTING INTERNSHIP (ELR) 3 Credit Hours
Study of activities related to concurrent on-the-job experience with cooperating industrial and public accounting firms. Students must have a minimum 3.000 GPA in all attempts of ACCT courses to register.
Prerequisite: Minimum C grade in ACCT 33001 or ACCT 33004; and minimum 3.000 overall GPA; and Accounting major; and junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ACCT 43093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Topic to be determined when a specific course is proposed for a particular term.
Prerequisite: Accounting major; and senior standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ACCT 43095 SPECIAL TOPICS: ACCOUNTING 3 Credit Hours
(Repeatable for credit) (Slashed with ACCT 53095) Offered periodically with different topics and different faculty involved.
Prerequisite: Accounting major; and senior standing; special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 43096 INDIVIDUAL INVESTIGATION IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Individual research into a current accounting topic.
Prerequisite: Accounting major; and senior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ACCT 53001 FINANCIAL REPORTING I 3 Credit Hours
This is the first of a two-course sequence covering intermediate-level financial accounting. This course provides a comprehensive study of the concepts and applications underlying financial accounting, emphasizing the accounting cycle, basic financial statements and accounting for assets.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53010 AUDITING FUNDAMENTALS 3 Credit Hours
Integration of conceptual and practical aspects of auditing with a focus on understanding financial statements and internal controls. Ethical decision-making is also emphasized.
Prerequisite: Graduate standing.
Corequisite: ACCT 53001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53012 FINANCIAL REPORTING II 3 Credit Hours
This is the second course of a two-part sequence covering intermediate-level financial accounting. This course focuses on more complex issues of financial reporting theory and applications on current liabilities, long-term obligations, investments, income taxes, stockholders' equity, statement of cash flows.
Prerequisite: ACCT 53001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53013 ADVANCED MANAGEMENT ACCOUNTING 3 Credit Hours
(Slashed with ACCT 43013) The course covers advanced current topics relating to the use of accounting information in managerial decision-making. Topical coverage includes balanced scorecards, pricing decisions, transfer pricing, performance measurement, and other current topics. Analytical skills are emphasized through cases, exercises, and other pedagogical tools.
Prerequisite: ACCT 33010 or ACCT 63038; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53020 ADVANCED FINANCIAL ACCOUNTING 3 Credit Hours
(Slashed with ACCT 43020) Conceptual and practical issues surrounding: (1) financial reporting for investment activities of businesses when one firm possesses significant influence or control over another; (2) accounting for international business transactions, including the use of derivatives for hedging foreign exchange risk; and (3) translating foreign currency financial statements of foreign operations. Professional accounting research and written communication skills are emphasized.
Prerequisite: ACCT 33012 or ACCT 53012; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53033 INCOME TAXATION II - ENTITY TAXATION 3 Credit Hours
(Slashed with ACCT 43033) Federal taxation of business entities including income taxation of C corporations, partnerships, S corporations and trusts and estates; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized.
Prerequisite: ACCT 43031 or ACCT 53041; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53041 INDIVIDUAL INCOME TAX 3 Credit Hours
Federal income tax for individual taxpayers. Detailed analysis of income and expense recognition rules for individuals with emphasis on tax planning for sole proprietors and application of ethical framework for tax preparers.
Prerequisite: Graduate standing.
Corequisite: ACCT 53001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53043 INTERNAL AUDIT AND FRAUD EXAMINATION 3 Credit Hours
(Slashed with ACCT 43043) Course introduces students to the internal audit profession and the internal audit process. Topics include the definition of internal auditing, the International Professional Practices Framework (IPPF), risk, governance and control issues and conducting internal audit engagements. This course also provides an overview of fraud examination and forensic accounting, including the introduction to fraud in business, the circumstances in which it arises, techniques for preventing, detecting, measuring fraud and the skills necessary to respond and resolve fraud once discovered. Students apply the concepts to analyze cases in internal audit and fraud examination. Written and oral communication skills are emphasized.
Prerequisite: ACCT 43010 or ACCT 53010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 53089 INTERNATIONAL ACCOUNTING EXPERIENCE 3 Credit Hours
(Slashed with ACCT 43089) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to accounting and finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities. Cannot be used to satisfy the Master of Science in Accounting (MSA) program requirement.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

ACCT 53095 SPECIAL TOPICS: ACCOUNTING 3 Credit Hours
(Repeatable for credit) (Slashed with ACCT 43095) Offered periodically with different topics and different faculty involved.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63022 PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING 3 Credit Hours
(Slashed with ACCT 73022) Students investigate issues confronting the accounting profession today by reviewing the past, examining the present and looking into the future. Topics covered include history and characteristics of the profession, regulation of the profession, ethical challenges facing accountants and auditors, fraud and the future of the profession. Professional accounting research and verbal and written communication emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63024 INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS 3 Credit Hours
(Slashed with ACCT 73024) Students apply data analytics to the audit of controls and security of accounting information systems. Includes examining the role of the IT audit function and applicable auditing standards; identifying system risks and evaluating controls in Enterprise Resource Planning (ERP) systems. Data analytics, writing and professional ethics are emphasized.
Prerequisite: ACCT 43010 or ACCT 53010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63031 ADVANCED AUDITING THEORY AND PRACTICE 3 Credit Hours
(Slashed with ACCT 73031) Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards on ethical considerations and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision making emphasized.
Prerequisite: ACCT 43010 or ACCT 53010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63037 FINANCIAL ACCOUNTING FOR DECISION MAKING 2 Credit Hours
In-depth study of financial accounting concepts and basic financial statements. Includes an examination of the significant accounting issues affecting financial reporting and their impact on analysis and interpretation of financial information for decision-making. Course may not be used to fulfill requirements in the Maser of Science in Accounting degree.
Prerequisite: Graduate standing; open only to students declared in the MBA and MA degrees.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ACCT 63038 MANAGERIAL ACCOUNTING FOR DECISION MAKING 2 Credit Hours
An in-depth study of cost accounting concepts and cost behavior for measuring product and service costs, pricing products and services, planning and controlling business operations and making business decisions. Course may not be used to fulfill requirements in the Master of Science in Accounting degree.
Prerequisite: ACCT 63037; and graduate standing; open only to students declared in the MBA and MA degrees.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ACCT 63045 TAX RESEARCH AND PLANNING 3 Credit Hours
Introduction to tax research methodology and tax preparer standards, with an emphasis on effectively communicating tax outcomes via written communications.
Prerequisite: Graduate standing.
Pre/corequisite: ACCT 43033 or ACCT 53033.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63050 ADVANCED ACCOUNTING ANALYTICS AND TECHNOLOGY 3 Credit Hours
Students apply advanced software tools used in accounting practice today, to acquire, clean and analyze accounting data. Students use tools to, analyze both numerical and textual data in accounting contexts such as, accounts receivable, cash flows, audit, managerial accounting and tax. Among others, software and methodologies to be covered may include, robotic process automation, data cleaning, process mining, artificial, intelligence, machine learning and textual analysis tools.
Prerequisite: ACCT 43009 or BA 64005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 63092 INTERNSHIP 3 Credit Hours
(Repeatable for credit) Supervised practical experience with public accounting firm, corporation, governmental or not-for- profit organization. Periodic reports required. Cannot be used to satisfy the requirement of the Master of Science in Accounting (MSA) program.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

ACCT 63093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Topic to be determined when a specific course is proposed for a particular term.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ACCT 63095 SPECIAL TOPICS IN ACCOUNTING 3 Credit Hours
(Repeatable for credit) Offered periodically with different topics and different faculty involved.
Prerequisite: Accounting major; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 73022 PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING 3 Credit Hours
(Slashed with ACCT 63022) Students investigate issues confronting the accounting profession today by reviewing the past, examining the present and looking into the future. Topics covered include history and characteristics of the profession, regulation of the profession, ethical challenges facing accountants and auditors, fraud and the future of the profession. Professional accounting research and verbal and written communication emphasized.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 73024 INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS 3 Credit Hours
(Slashed with ACCT 63024) Students apply data analytics to the audit of controls and security of accounting information systems. Includes examining the role of the IT audit function and applicable auditing standards; identifying system risks and evaluating controls in Enterprise Resource Planning (ERP) systems. Data analytics, writing and professional ethics are emphasized.
Prerequisite: ACCT 43010; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 73031 ADVANCED AUDITING THEORY AND PRACTICE 3 Credit Hours
(Slashed with ACCT 63031) Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards, on ethical considerations, and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision making emphasized.
Prerequisite: ACCT 43010; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 73093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Topic be determined when a specific course is proposed for a particular term.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ACCT 73098 RESEARCH IN ACCOUNTING 1-3 Credit Hours
(Repeatable for credit) Review of sources, techniques and methodology. Individually selected topic is investigated and reported in formal paper.
Prerequisite: Accounting major; and doctoral standing.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ACCT 83031 AUDITING ISSUES 3 Credit Hours
Course provides doctoral students with an opportunity to broaden their understanding of financial and operational auditing theory and research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 83033 MANAGERIAL ACCOUNTING ISSUES 3 Credit Hours
Course provides an opportunity to survey major research topics in managerial accounting. Students develop a sound conceptual basis for reading, interpreting, analyzing, criticizing and conducting scholarly research on managerial accounting issues. Reading list includes research papers from various managerial accounting research areas and research methods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 83037 FINANCIAL ACCOUNTING ISSUES 3 Credit Hours
Course focuses on theoretical, analytical and empirical research in financial accounting and reporting. Emerging issues in financial accounting and reporting are examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 83038 BASIC ACCOUNTING RESEARCH METHODOLOGY 3 Credit Hours
Course introduces students to basic concepts in accounting research and to the application of research methods in various accounting areas (e.g., financial, managerial, auditing and information systems).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACCT 83091 SEMINAR-SELECTED ACCOUNTING TOPICS 3 Credit Hours
(Repeatable for credit) Topics vary with each offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ACCT 83098 RESEARCH IN ACCOUNTING 3 Credit Hours
Students develop and present a paper on an original accounting research topic under the supervision of faculty members.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

Accounting - B.B.A.

Ambassador Crawford College of Business and Entrepreneurship
Department of Accounting
www.kent.edu/business/accounting

About This Program

Looking to explore the world of accounting and advance your career prospects? The B.B.A. degree in Accounting offers a dynamic curriculum and renowned faculty to provide you with the essential skills and knowledge required to succeed in this ever-evolving field. Read more...

Contact Information

- **Wei Li, Ph.D.** | wli2@kent.edu | 330-672-2545
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Accountants and auditors

- 4.3% about as fast as the average
- 1,436,100 number of jobs
- $73,560 potential earnings

Budget analysts

- 3.4% about as fast as the average
- 55,400 number of jobs
- $78,970 potential earnings

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer Students: A minimum 2.000 overall GPA is required for admission into the major. Students who have completed (or the equivalent of) COMM 15000, ENG 21011, MATH 11010 (or placement out of ENG 11011 and/or MATH 11010) must have earned a minimum C grade; students who have completed ACCT 23020 and ACCT 23021 must have earned a minimum B- grade in both courses. If a student does not have at least a B- grade in both ACCT 23020 and ACCT 23021 but the student does have an average GPA of at least a 2.7 in ACCT 23020 and ACCT 23021, the student can apply to the Department of Accounting to be considered for an override to be admitted to junior-level accounting courses.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ACCT 33001	INTERMEDIATE FINANCIAL ACCOUNTING I (min C grade)	3
ACCT 33004	INTRODUCTION TO ACCOUNTING SYSTEMS (min C grade)	3
ACCT 33010	COST ACCOUNTING (min C grade)	3
ACCT 33012	INTERMEDIATE FINANCIAL ACCOUNTING II (min C grade)	3
ACCT 43009	ACCOUNTING DATA ANALYTICS (min C grade)	3
ACCT 43010	PRINCIPLES OF AUDITING (ELR) (WIC) (min C grade) [1]	3
ACCT 43031	INCOME TAXATION I - INDIVIDUAL TAXATION (min C grade)	3
Accounting Electives, choose from the following:		9
ACCT 43013	ADVANCED MANAGEMENT ACCOUNTING	
ACCT 43020	ADVANCED FINANCIAL ACCOUNTING	
ACCT 43033	INCOME TAXATION II - ENTITY TAXATION	
ACCT 43043	INTERNAL AUDIT AND FRAUD EXAMINATION	
ACCT 43089	INTERNATIONAL ACCOUNTING EXPERIENCE (DIVG) (ELR)	
ACCT 43092	ACCOUNTING INTERNSHIP (ELR)	
ACCT 43095	SPECIAL TOPICS: ACCOUNTING	
ACCT 43096	INDIVIDUAL INVESTIGATION IN ACCOUNTING	
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING (min B- grade) [2]	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING (min B- grade) [2]	3
BA 24056	BUSINESS ANALYTICS I [5]	3
BA 44062	SUPPLY CHAIN MANAGEMENT	3
BUS 10123	EXPLORING BUSINESS [3]	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
FIN 36072	LAW OF COMMERCIAL TRANSACTIONS	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MATH 11012	INTUITIVE CALCULUS (KMCR) [4]	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 44285	STRATEGIC MANAGEMENT	3

MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10001	FLASHES 101	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition [6]		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [7]		10
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] If a student does not have at least a B- grade in both ACCT 23020 (ACTT 11000 or equivalent) and ACCT 23021 (or ACTT 11001 or equivalent) but the student does have an average GPA of at least 2.700 in ACCT 23020 (or ACTT 11000 or equivalent) and ACCT 23021 (ACTT 11001 or equivalent), the student can apply to the Department of Accounting for an override to be admitted to junior-level accounting courses.

[3] A student changing to a program in the college, transferring, or an incoming student with prior college credit, may be waived out of BUS 10123 if:

1. 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
2. 60 or more credit hours have been earned and the student has successfully completed one course from (ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
3. At the discretion of the dean's office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.

[4] Students can take MATH 10051 or PHIL 21002 in place of MATH 11012 or MATH 12002. Taking MATH 10051 or PHIL 21002 will not replace a low grade in either MATH 11012 or MATH 12002. Students are required to take MATH 11012 or MATH 12002 if they change their major to, or want to double major in, Economics or Finance and/or intend to declare a minor in Data Analytics. Students who intend to enroll in certain graduate programs and/or are working toward Phi Beta Kappa status are highly encouraged to take MATH 11012 or MATH 12002.

[5] Students who have taken MATH 10041 for another program may use it as a substitute for BA 24056.

[6] Minimum C grade is required in ENG 21011 or HONR 20197.

[7] Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be counted toward the 120 total credit hours or 39 upper-division-credit hours graduation requirement. A minor (business or non-business) is encouraged. Any other exceptions must be approved by the assistant dean. The following courses have been recommended by accounting faculty to fulfill general electives: CIS 24167, ECON 32025, ECON 32050, ECON 42050, ECON 42065, ECON 42066, ECON 42068, FIN 36051, FIN 36054, FIN 36059. These are optional not required.

Progression Requirements

- Minimum 2.000 overall GPA
- Minimum C grade in COMM 15000, ENG 21011, MATH 11010 (or placement out of MATH 11010), and all accounting major required courses
- Completion of CIS 24053
- Minimum B- grade in ACCT 23020 and ACCT 23021

If a student does not have a minimum B- grade in both ACCT 23020 and ACCT 23021, but has a minimum 2.700 average GPA in ACCT 23020 and ACCT 23021, the student can apply to the Department of Accounting to be considered for an override to admitted to junior-level accounting courses.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- All accounting major courses (33000 level and above) taken to fulfill the requirements for a B.B.A. in Accounting must be taken within the last 10 years at the time of graduation.
- Students must earn a minimum C in required ACCT major courses.
- A basic knowledge of and the ability to use personal computers for accounting applications, including an electronic spreadsheet such as Excel, is required to major in accounting. Students should possess such knowledge and skills, if not already possessed, before taking any upper-division accounting major course or during the first semester of the term during which the course is taken. The department office can provide recommendations on self-study materials to acquire the knowledge and skills.
- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete at least 50 percent of their major credit hours in residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the college for complete satisfaction of the B.B.A. degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	BUS 10123	EXPLORING BUSINESS	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3

	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	MATH 11012 or MATH 12002	INTUITIVE CALCULUS (KMCR) or ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	3-5
	UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
	MKTG 25010	PRINCIPLES OF MARKETING	3
	MGMT 24163	PRINCIPLES OF MANAGEMENT	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
	BA 24056	BUSINESS ANALYTICS I	3
	BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
	FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	Required for progression in the major: Minimum 2.000 overall GPA, minimum C grade in COMM 15000 and ENG 21011 and MATH 11010; and minimum B- grade in ACCT 23020 and ACCT 23021.		
!	ACCT 33001	INTERMEDIATE FINANCIAL ACCOUNTING I	3
!	ACCT 33004	INTRODUCTION TO ACCOUNTING SYSTEMS	3
	FIN 36053	BUSINESS FINANCE	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	Required: minimum overall 2.000 GPA		
!	ACCT 33010	COST ACCOUNTING	3
!	ACCT 33012	INTERMEDIATE FINANCIAL ACCOUNTING II	3
	FIN 36072	LAW OF COMMERCIAL TRANSACTIONS	3
	General Electives		6
		Credit Hours	**15**
	Semester Seven		
	Required: minimum overall 2.000 GPA		
	ACCT 43009	ACCOUNTING DATA ANALYTICS	3
	ACCT 43010	PRINCIPLES OF AUDITING (ELR) (WIC)	3
!	ACCT 43031	INCOME TAXATION I - INDIVIDUAL TAXATION	3
	BA 44062	SUPPLY CHAIN MANAGEMENT	3
	Accounting Elective		3
		Credit Hours	**15**
	Semester Eight		
	Required: minimum overall 2.000 GPA. Note: completion of The Assurance of Learning Assessment given in MGMT 44285		
	MGMT 44285	STRATEGIC MANAGEMENT	3
	Accounting Elective		6
	General Electives		4
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Given a defined financial accounting transaction, identify and analyze the issue, record the transaction in the books of original entry and prepare the financial statement disclosure.
2. Demonstrate an understanding of managerial and cost accounting with the ability to identify and analyze information useful in decision making.
3. Gain a functional understanding of taxation of individuals.
4. Understand financial statement auditing.
5. Assemble, cleanse and analyze the information provided by information systems; prepare summary reports useful for business decision-making.

Graduates of all Bachelor of Business Administration programs will be able to:

1. Core Business Knowledge - Recall the strategic frameworks that are used to make business decisions.

2. Analytical Skills - Use analytical methodologies and critical thinking skills to evaluate and solve business problems.
3. Digital Technology – Demonstrate the technological skills necessary to analyze business problems and develop solutions.
4. Written Communication - Write effective business communications.
5. Oral Communication - Make effective business presentations, using appropriate technologies.
6. Teamwork – Collaborate effectively with others to achieve a common business purpose.
7. Business Ethics – Recognize ethical business dilemmas and use ethical decision making to resolve the dilemma.
8. Global - Analyze the key global factors when making business decisions.

Full Description

The Bachelor of Business Administration degree in Accounting is designed to provide students with a solid foundation in accounting theory and practice necessary for entry-level accounting positions and career advancement. The program encompasses a common body of concepts, conventions, principles and theories essential to the professional competency of the certified public accountant, controller, industrial accountant, institutional accountant and governmental accountant.

Accounting students may apply to a five-year program that leads to both the B.B.A. degree in Accounting and the Master of Science in Accounting degree. Students may also apply early to the M.S.A. degree, M.B.A. degree or other business master's degrees and double count up to 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

Accounting - M.S.A.

Ambassador Crawford College of Business and Entrepreneurship
Department of Accounting
www.kent.edu/business/accounting

About This Program

Discover how Kent State's Master of Science in Accounting degree can take your accounting career to the next level and equip you with the skills and knowledge necessary for success in the ever-evolving accounting industry. Read more...

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- **Tamere Massey** | tmassey2@kent.edu | 330-672-1225
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Accountants and auditors

- 4.3% about as fast as the average
- 1,436,100 number of jobs
- $73,560 potential earnings

Financial and investment analysts, financial risk specialists, and financial specialists, all other

- 5.5% faster than the average
- 487,800 number of jobs
- $83,660 potential earnings

Accreditation

AACSB International - The Association to Advance Collegiate Schools of Business.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university[1]
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] Students who do not have an undergraduate degree in accounting or equivalent coursework are required to successfully complete four prerequisite courses: ACCT 53001, ACCT 53010, ACCT 53012 and ACCT 53041.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: July 1
- **Spring Semester**
  - Application deadline: December 1

- **Summer Term**
  - Application deadline: May 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) received after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Prerequisite Requirements		
ACCT 53001	FINANCIAL REPORTING I	
ACCT 53010	AUDITING FUNDAMENTALS	
ACCT 53012	FINANCIAL REPORTING II	
ACCT 53041	INDIVIDUAL INCOME TAX	
Major Requirements		
ACCT 53020	ADVANCED FINANCIAL ACCOUNTING [1]	3
ACCT 53033	INCOME TAXATION II - ENTITY TAXATION [1]	3
ACCT 63031	ADVANCED AUDITING THEORY AND PRACTICE	3
ACCT 63050	ADVANCED ACCOUNTING ANALYTICS AND TECHNOLOGY	3
Accounting Electives, choose from the following:		6-9
ACCT 53013	ADVANCED MANAGEMENT ACCOUNTING [1]	
ACCT 53043	INTERNAL AUDIT AND FRAUD EXAMINATION [1]	
ACCT 63024	INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS	
ACCT 63045	TAX RESEARCH AND PLANNING	
Approved Non-Accounting Business Electives, choose from the following:		6-9
BA 64005	ANALYTICS FOR DECISION MAKING	
Business Administration Interdisciplinary (BUS) 60000-Level Courses		
Business Analytics (BA) 60000-Level Courses		
Computer Information Systems (CIS) 60000-Level Courses		
Economics (ECON) 60000-Level Courses		
Finance (FIN) 60000-Level Courses		
Human Resource Management (HRM) 60000-Level Courses		
Management (MGMT) 60000-Level Courses		
Marketing (MKTG) 60000-Level Courses		
Other non-accounting 60000-level courses with program coordinator approval		
Culminating Requirement		
ACCT 63022	PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING [2]	3
Minimum Total Credit Hours:		**30**

1 Students who successfully completed ACCT 43013, ACCT 43020, ACCT 43033 and ACCT 43043 as a Kent State accounting undergraduate (or completed comparable classes in another accounting undergraduate program) will not take the comparable graduate courses (ACCT 53013, ACCT 53020, ACCT 53033 and ACCT 53043) for the M.S.A. degree. Rather, they will work with their advisor to select a graduate accounting elective as a substitution for those courses.

2 Students must complete a minimum 9 credit hours before taking ACCT 63022.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Additional coursework may be required for the M.S.A. degree if the student does not have an undergraduate degree in accounting.
- ACCT 63092 cannot be used to satisfy any requirement for the M.S.A. degree.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze, evaluate and report on complex accounting and economic transactions using the accounting framework.
2. Apply research and analytical skills to solve accounting problems.
3. Given an ethical dilemma in an accounting setting, analyze the issue, apply an ethical framework and develop a resolution.
4. Effectively communicate using oral and written communication skills in a business setting.
5. Assemble, cleanse and analyze the information provided by information systems, and prepare summary reports useful for business decision-making.
6. Demonstrate the ability to pursue professional certifications and a commitment to ongoing professional development.

Full Description

The Master of Science in Accounting degree is for students interested in higher-level positions in banking, taxation, insurance or any company with a financial division. More than just focusing on debits and credits, the M.S.A. degree promotes critical thinking, hands-on application of technology and effective communication and ethical decision-making skills. Graduates pursue careers in auditing, taxation, fraud investigation, law enforcement, investment banking, management and consulting. The flexible combination of required coursework in accounting and electives from a wide variety of business disciplines provides students with a strong foundation in accounting, as well as an understanding of the practical applications of the discipline across all facets of business.

Graduates of the M.S.A. degree meet the educational requirement to sit for a variety of professional certifications, including becoming a Certified Public Accountant (CPA)[1] or Certified Management Accountant (CMA).

1 Refer to the most recent academic requirements for admission to the CPA exam issued by the Accountancy Board of Ohio.

Accounting - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Accounting
www.kent.edu/business/accounting

About This Program

The Accounting minor is for students desiring accounting education in financial statement preparation, budgeting, costing and accounting systems at a level beyond the user of financial information but less than the preparation for being a professional accountant. The minor is especially useful to students whose career paths are in business, not-for-profit and governmental organizations where dealing with financial issues will be an important part of their duties.

Contact Information

- **Scott Miller, M.Acc.** | smill221@kent.edu | 330-672-1108
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Accounting minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING (min B- grade)	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING (min B- grade)	3
ACCT 33001	INTERMEDIATE FINANCIAL ACCOUNTING I (min C grade)	3
ACCT 33004	INTRODUCTION TO ACCOUNTING SYSTEMS (min C grade)	3
ACCT 33010	COST ACCOUNTING (min C grade)	3
ACCT 33012	INTERMEDIATE FINANCIAL ACCOUNTING II (min C grade)	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
Minimum Total Credit Hours:		**21**

Progression Requirements

- Minimum B- grade in both ACCT 23020 and ACCT 23021 (or equivalent courses) and minimum C grade in remaining ACCT minor courses.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must earn a minimum C grade in ACCT minor courses.
- Students are expected to satisfy course prerequisites for each course required in the minor. Prerequisites are not tied to a particular catalog; therefore it is important to look at the most current information about a course.
- Student may not pursue a minor and a major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify and analyze the issue, record the transaction in the books of original entry and prepare the financial statement disclosure, given a defined financial accounting transaction.
2. Demonstrate an understanding of managerial and cost accounting with the ability to identify and analyze information useful in decision making.
3. Assemble, cleanse and analyze the information provided by accounting information systems and prepare summary reports useful for business decision-making.

Accounting Analytics - Graduate Certificate

Ambassador Crawford College of Business and Entrepreneurship
Department of Accounting
www.kent.edu/business/accounting

About This Program

The Accounting Analytics graduate certificate presents material relevant to advanced practice of accounting and includes knowledge tested on the CPA exam. The certificate focuses on the application of technology that supports analytical approaches in the accounting profession. The completed certificate may be applied to satisfy a portion of the course requirements for the Master of Science in Accounting degree.

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- **Tamere Massey** | tmassey2@kent.edu | 330-672-1225
- **Wei Li, Ph.D.** | KSU-MSA@kent.edu | 330-672-2545

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Accountants and auditors

- 4.3% about as fast as the average
- 1,436,100 number of jobs
- $73,560 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 overall GPA on a 4.000-point scale
- Official transcript(s)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
ACCT 53013	ADVANCED MANAGEMENT ACCOUNTING	3
ACCT 53043	INTERNAL AUDIT AND FRAUD EXAMINATION	3
ACCT 63024	INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS	3
ACCT 63050	ADVANCED ACCOUNTING ANALYTICS AND TECHNOLOGY	3
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply research and analytical skills to solve accounting problems.
2. Effectively communicate using oral and written communication skills in a business setting.
3. Assemble, cleanse and analyze the information provided by information systems, and prepare summary reports useful for business decision-making.

Accounting Fundamentals - Graduate Certificate

Ambassador Crawford College of Business and Entrepreneurship
www.kent.edu/business/accounting

About This Program

Gain essential knowledge in financial accounting, tax and audit – the cornerstone skills for success in the dynamic field of accounting. Whether you're aiming for an entry-level position or eyeing further graduate studies, our short-term certificate equips you with the confidence to excel. Unlock your potential in the world of finance today! Read more...

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- **Tamere Massey** | tmassey2@kent.edu | 330-672-1225
- **Wei Li, Ph.D.** | KSU-MSA@kent.edu | 330-672-2545

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Example of Possible Careers and Salaries*

Accountants and auditors

- 4.3% about as fast as the average
- 1,436,100 number of jobs
- $73,560 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 overall GPA on a 4.000-point scale
- Official transcript(s)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Semester**
  - Rolling admissions

Program Requirements

Code	Title	Credit Hours
Certificate Requirements		
ACCT 53001	FINANCIAL REPORTING I	3
ACCT 53010	AUDITING FUNDAMENTALS	3
ACCT 53012	FINANCIAL REPORTING II	3
ACCT 53041	INDIVIDUAL INCOME TAX	3
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a working knowledge of accounting principles and the accounting cycle.
2. Correctly record journal entries for moderately complex business events.
3. Apply auditing concepts and methods to an audit engagement.
4. Produce clear and concise memorandums on accounting related issues.
5. Prepare individual income tax returns.

Full Description

The Accounting Fundamentals graduate certificate provides students with basic knowledge in the areas of financial accounting, tax and audit. The certificate prepares students for entry-level accounting positions or for further graduate study in accounting.

The certificate is appropriate for students with a non-accounting bachelor's degree who are considering applying to the Master of Science in Accounting degree in the future.

Advanced Accounting - Graduate Certificate

Ambassador Crawford College of Business and Entrepreneurship
Department of Accounting
www.kent.edu/business/accounting

About This Program

The Advanced Accounting graduate certificate presents material is relevant to advanced practice of accounting and includes knowledge tested on the CPA exam. The completed certificate may be applied to satisfy a portion of the course requirements for the Master of Science in Accounting degree.

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- **Tamere Massey** | tmassey2@kent.edu | 330-672-1225
- **R. Drew Sellers, Ph.D., CMA** | KSU-MSA@kent.edu
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Accountants and auditors

- 4.3% about as fast as the average
- 1,436,100 number of jobs
- $73,560 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at

which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 overall GPA on a 4.000-point scale
- Official transcript(s)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
ACCT 53020	ADVANCED FINANCIAL ACCOUNTING [1]	3
ACCT 53033	INCOME TAXATION II - ENTITY TAXATION [1]	3
ACCT 63022	PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING	3
ACCT 63031	ADVANCED AUDITING THEORY AND PRACTICE	3
Minimum Total Credit Hours:		**12**

[1] Students may substitute a 60000-level accounting course with prior approval.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze, evaluate and report on complex accounting and economic transactions using the accounting framework.
2. Given an ethical dilemma in an accounting setting, analyze the issue, apply an ethical framework and develop a resolution.
3. Effectively communicate using oral and written communication skills in a business setting.

Department of Economics

Ambassador Crawford College of Business and Entrepreneurship
Department of Economics
402 Crawford Hall
Kent Campus
330-672-2366
economics@kent.edu
www.kent.edu/business/economics

Undergraduate Programs

- Economics - B.B.A.

Undergraduate Minors

- Data Analytics
- Economics

Graduate Programs

- Economics - M.A.E.

Graduate Minors

- Quantitative Methods in Econometrics

Department of Economics Faculty

- Bagheri, Omid (2017), Associate Professor, Ph.D., Virginia Polytechnic Institute and State University, 2017
- Boyd-Swan, Casey (2015), Associate Professor, Ph.D., Arizona State University , 2015
- Choi, Yoonho (2021), Assistant Professor, Ph.D., Iowa State University, 2017
- Cornelius, Rowena J. (2024), Assistant Professor, Ph.D., University Of Western Ontario
- Dechenaux, Emmanuel (2004), Professor, Ph.D., Purdue University, 2004
- Ellis, Michael A. (1990), Professor, Ph.D., Texas A&M University, Main Campus, 1991
- Engelhardt, Lucas M. (2010), Associate Professor, Ph.D., The Ohio State University, 2010
- Greenhalgh-Stanley, Nadia (2009), Professor, Ph.D., Syracuse University, 2009
- Johnson, Eric D. (2005), Associate Professor, Ph.D., University of California, San Diego , 1997
- Kim, Duhyeong (2023), Assistant Professor, Ph.D., University Of Western Ontario, 2023
- Leontieva, Ludmila (2007), Associate Professor, Ph.D., Rostov State University, 1991
- Liu, Dandan (2008), Professor, Ph.D., Texas A&M University, Main Campus, 2005
- Mukherjee, Deepraj (2012), Professor, Ph.D., University of Memphis, 2010

- Park, Jooyoun (2009), Associate Professor, Ph.D., University of Michigan, 2009
- Reynolds, Curtis Lockwood (2007), Professor, Ph.D., University of Michigan, 2007
- Rohlin, Shawn (2012), Professor, Ph.D., Syracuse University, 2009
- Sahajdack, Thomas (2016), Associate Professor, Ph.D., University of Illinois, 2016
- Shaeye, Abdihafit (2018), Associate Professor, Ph.D., University of Wisconsin, Milwaukee, 2017
- Wilson, Kathryn S. (1996), Professor, Ph.D., University of Wisconsin - Madison, 1996

Economics (ECON)

ECON 12060 PERSONAL FINANCE 3 Credit Hours
Examines economic issues and problems of everyday life. Goal is to enable individuals to analyze their personal finances in order to learn how to get the most out of their income, increase income through a better understanding of possible investments, and protect what they have through selecting appropriate insurance. Topics covered include budgeting and financial planning, federal income taxes, insurance, borrowing, and investment principles and strategies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Personal Finance

ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS) 3 Credit Hours
Course discusses decision-making by buyers, sellers, and governments and how their interaction affects market determination of prices. Students compare outcomes and firm decisions in different market structures. Students develop tools to examine social problems such as poverty, crime, pollution and international relations, as well as make better decisions in their own lives.
Prerequisite: Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade or any higher level MATH course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS) 3 Credit Hours
Principles and policies affecting aggregate production, consumption, investment and government expenditures. Includes role of money, the banking system, inflation, unemployment and economic growth.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

ECON 32025 MONEY, CREDIT AND BANKING 3 Credit Hours
Organization of our money, credit and banking system principles and problems of monetary policy.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32040 INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS 3 Credit Hours
The study of individual choices under conditions of relative scarcity, and their consequences for prices and the allocation of resources in the economic system. Develops the analytical and theoretical tools pertinent in determining how scarce resources are allocated among competing wants and demonstrates how these tools are used in real world applications.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32041 INTERMEDIATE MACROECONOMIC THEORY AND POLICY 3 Credit Hours
This course analyzes key drivers of an economy's GDP, consumption, investment and interest rates. The class will examine economic growth and how it can be impacted by public policy. Students will understand the uses and limitations of a macroeconomic model and will be exposed to the two main schools of thought in macroeconomics. National and international data will be used to better understand these concepts.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32050 APPLIED ECONOMETRICS I (ELR) 3 Credit Hours
The course provides an introduction to the use of statistical analysis in economics. The initial part of the course reviews relevant concepts from probability and statistics. The second course segment focuses on linear regression analysis and the properties of regression estimators. The final course segment discusses extensions of the linear model, and considers problems that may arise in application including omitted variables, nonlinearity, measurement error, sample selection, heteroscedasticity and causality. The SAS statistical software package is used throughout the course for data analysis. Over the second half of the course, students complete an empirical project which requires students to connect the course concepts to the analysis of an economic policy question in a real world data set.
Prerequisite: MATH 11012 or MATH 12002; and ECON 22060; and BA 24056 or MATH 10041 or MATH 20011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ECON 32051 APPLIED ECONOMETRICS II 3 Credit Hours
The course provides a continuation of Applied Econometrics I, extending the basic linear regression models to more advanced models using cross-sectional, panel or time series data. The initial part of the course focuses on models for discrete and limited dependent variables. The second course segment addresses estimation methods for panel data. The final course segment provides an overview of time series estimation with an emphasis on forecasting in economic data.
Prerequisite: ECON 32050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32082 INTRODUCTION TO MANAGERIAL ECONOMICS 3 Credit Hours
Combines economic theory and quantitative analysis to develop resource-allocation decision-making skills which enable managers to evaluate problems, identify possible solutions and finally implement and monitor the best alternative to accomplish their stated objectives. Covers such topics as supply and demand, consumer theory, production, costs, contracts, game theory, principal-agent problems, and the basic economic models of perfect competition, oligopoly,monopolistic, competition and monopoly. Cannot be taken by economics majors. Not open to students who have completed ECON 32040.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 32083 THE ECONOMICS OF POVERTY (DIVD) 3 Credit Hours
Nature and causes of poverty in United States. Analysis of impact of poverty upon economy and study of measures both real and potential for alleviating it.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ECON 32084 ECONOMICS OF THE ENVIRONMENT 3 Credit Hours
Examines economic theory of environmental and resource economics in a fashion that is understandable by students with varied backgrounds in economics. Emphasis on microeconomic theory and its application to environmental issues. Topics covered include "market failure" and its impact on the environment; cost benefit analysis; and input-output analysis. Designed for those interested in the environment or who may be planning careers in environmental or natural sciences.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42050 DATA ACQUISITION, PREPARATION AND VISUALIZATION 3 Credit Hours
(Slashed with ECON 52050) Accessing and collecting data from existing sources (databases and raw data), transformation of raw data into formats that can be used for final analysis, techniques for presentation and visualization of data, predictive analytics using machine learning and cross validation. Students will perform some work in SAS but will also be introduced to the R statistical language.
Prerequisite: BA 24056 or MATH 10041 or MATH 20011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42065 PROBLEMS OF MONETARY AND FISCAL POLICY 3 Credit Hours
(Slashed with ECON 52065) Analysis of objectives, techniques and economic effects of monetary and fiscal policies.
Prerequisite: ECON 32041.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42066 ECONOMICS OF ENTREPRENEURSHIP 3 Credit Hours
(Slashed with ECON 52066) This course presents a wide-ranging overview of the place of economics in entrepreneurship, with a special focus on how economic research is conducted to study the determinants of entrepreneurship.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42068 INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY 3 Credit Hours
(Slashed with ECON 52068) Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy.
Prerequisite: ECON 32040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42070 GAME THEORY 3 Credit Hours
Introduction to game theory and its application to economics. Analysis of strategic behavior by economic agents using equilibrium concepts from non-cooperative game theory.
Prerequisite: ECON 22060 and ECON 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42072 LABOR ECONOMICS: WORK AND PAY 3 Credit Hours
(Slashed with ECON 52072) The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and growing wage inequality.
Prerequisite: ECON 32040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42075 INTERNATIONAL ECONOMIC RELATIONS 3 Credit Hours
(Slashed with ECON 52075) Principles, problems and policies of international economic relations with extensive references to the United States, Western Europe, Latin America and former communist countries. Covers international aspects of interdependency, cooperation and multinational institutions.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42076 ECONOMIC DEVELOPMENT 3 Credit Hours
(Slashed with ECON 52076) Analysis of nature of significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42079 EUROPEAN ECONOMIC ISSUES 3 Credit Hours
(Slashed with ECON 52079) This course examines current economic issues in the European Union, including the monetary union and Euro, unemployment, immigration, health care, social security, poverty and inequality, and plans for expansion. The historical development and structure of the EU will also be covered and the role of cultural influences will be explored. In some semesters the course includes a required trip to visit European institutions over the Spring Break, at an additional fee.
Prerequisite: ECON 22060 and ECON 22061; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42080 REGIONAL ECONOMICS 3 Credit Hours
(Slashed with ECON 52080) Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities.
Prerequisite: ECON 22060 and 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42081 URBAN ECONOMICS: CITIES AND HOUSING 3 Credit Hours
(Slashed with ECON 52081) This course is an introduction to the field of urban economics. Urban economics is the study of the location decisions of households and firms. We will explore why cities exist, why firms cluster together, why people live in cities, and other issues such as education, discrimination in housing, the housing crisis and crime. A heavy emphasis in this class will be placed on the study of housing markets, policy and neighborhood choice.
Prerequisite: ECON 22060 and ECON 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42085 PUBLIC ECONOMICS: GOVERNMENT AND POLICY 3 Credit Hours
(Slashed with ECON 52085) Examination of the role of government in the economy, including market failures, the efficiency and equity of taxation, government involvement in health care, education, and income distribution, and current government policy issues.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42086 ECONOMICS OF HEALTH CARE 3 Credit Hours
(Slashed with ECON 52086) This is a one-semester course on a topic of major policy interest, particularly given the current health care reform debate. It is impossible to turn on the news today and not hear a story about the health care industry. Health care accounts for almost 20 percent of all that is produced in the United States. In addition, it has been a major political issue in recent years. The overall objective of the course is to use concepts and tools of economics to understand and evaluate what has and is happening in the health care profession and current policies under consideration.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42189 INTERNATIONAL ECONOMIC EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Slashed with ECON 52189) Firsthand exposure to international economics. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: Economics major or minor; and junior standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ECON 42191 SENIOR SEMINAR IN ECONOMICS (WIC) 3 Credit Hours
This is the culminating requirement for students majoring in Economics. The purpose of the seminar is to critically apply economic principles to a variety of topics in a very interactive setting. Writing and revising will be an important component of the course.
Prerequisite: Minimum C- grade in ECON 32040, ECON 32041 and ECON 32050.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ECON 42291 VARIABLE CONTENT SEMINAR IN ECONOMICS 1-4 Credit Hours
(Repeatable for a maximum of 12 hours) (Slashed with ECON 52291) Various special seminars will be announced in the schedule of classes under this course number.
Prerequisite: Permission.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECON 42292 INTERNSHIP IN ECONOMICS (ELR) 3 Credit Hours
(Repeatable for credit) Supervised practical experience in economics. May count toward the economics major electives or as a business elective.
Prerequisite: At least two of the following courses: ECON 32040, ECON 32041 or ECON 32050; a minimum 2.250 overall GPA; and economics major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ECON 42293 VARIABLE TOPIC WORKSHOP IN ECONOMICS 1-6 Credit Hours
(Repeated registration permitted when topic varies; repeatable for a total of 18 hours) various special workshops will be announced in the schedule of classes under this course number.
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ECON 42295 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) (Slashed with ECON 52295) Various special topics will be announced in the schedule of classes under this course number.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 42296 INDIVIDUAL INVESTIGATION IN ECONOMICS 1-3 Credit Hours
(Repeatable for credit)Independent study done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.
Prerequisite: Senior Economics major; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ECON 42298 RESEARCH IN ECONOMICS (ELR) 1-6 Credit Hours
(Repeatable for credit)Research project done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.
Prerequisite: Senior Economics major; and special approval.
Schedule Type: Research
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ECON 42299 SENIOR PROJECT (ELR) 1-3 Credit Hours
(Repeatable for credit) Thesis or independent study project done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.
Prerequisite: Senior economics major; and special approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ECON 52050 DATA ACQUISITION, PREPARATION AND VISUALIZATION 3 Credit Hours
(Slashed with ECON 42050) Accessing and collecting data from existing sources (databases and raw data), transformation of raw data into formats that can be used for final analysis, techniques for presentation and visualization of data, predictive analytics using machine learning and cross validation. Students will perform some work in SAS but will also be introduced to the R statistical language.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52065 PROBLEMS OF MONETARY AND FISCAL POLICY 3 Credit Hours
(Slashed with ECON 42065) Study of monetary and fiscal policy frameworks and the problems in conducting monetary and fiscal policies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52066 ECONOMICS OF ENTREPRENEURSHIP 3 Credit Hours
(Slashed with ECON 42066) This course presents a wide-ranging overview of the place of economics in entrepreneurship, with a special focus on how economic research is conduced to study the determinants of entrepreneurship.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52068 INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY 3 Credit Hours
(Slashed with ECON 42068) Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52072 LABOR ECONOMICS: WORK AND PAY 3 Credit Hours
(Slashed with ECON 42072) The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and growing wage inequality. For students that did not attend Kent State University for their undergraduate degree, please contact the department for approval.
Prerequisite: ECON 32040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52075 INTERNATIONAL ECONOMIC RELATIONS 3 Credit Hours
(Slashed with ECON 42075) Principles, problems and policies of international economic relations with extensive references to the United States, Western Europe, Latin America and former communist countries. Covers international aspects of interdependency, cooperation and multinational institutions.
Prerequisite: ECON 22060 and 22061; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52076 ECONOMIC DEVELOPMENT 3 Credit Hours
(Slashed with ECON 42076) Analysis of nature and significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52079 EUROPEAN ECONOMIC ISSUES 3 Credit Hours
(Slashed with ECON 42079) This course examines current economic issues in the European Issues, including the monetary union and Euro, unemployment, immigration, health care, social security, poverty and inequality, and plans for expansion. The historical development and structure of the EU are also covered and the role of cultural influences are explored. In some semesters the course includes a required trip to visit European institutions over the Spring Break, at an additional fee.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52080 REGIONAL ECONOMICS 3 Credit Hours
(Slashed with ECON 42080) Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52081 URBAN ECONOMICS: CITIES AND HOUSING 3 Credit Hours
(Slashed with ECON 42081) This course is an introduction to the field of urban economics. Urban economics is the study of the location decisions of households and firms. We will explore why cities exist, why firms cluster together, why people live in cities, and other issues such as education, discrimination in housing, the housing crisis, and crime. A heavy emphasis in this class will be placed on the study of housing markets, policy, and neighborhood choice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52085 PUBLIC ECONOMICS: GOVERNMENT AND POLICY 3 Credit Hours
(Slashed with ECON 42085) Examination of public expenditure and taxation policies including the theory of public goods, collective decision making, cost-benefit analysis, equity and efficiency aspects of taxation and current government policy issues.
Prerequisite: ECON 22060; and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52086 ECONOMICS OF HEALTH CARE 3 Credit Hours
(Slashed with ECON 42086) This is a one-semester course on a topic of major policy interest, particularly given the current health care reform debate. It is impossible to turn on the news today and not hear a story about the health care industry. Health care accounts for almost 20 percent of all that is produced in the United States. In addition, it has been a major political issue in recent years. The overall objective of the course is to use concepts and tools of economics to understand and evaluate what has and is happening in the health care profession and current policies under consideration.
Prerequisite: ECON 22060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 52189 INTERNATIONAL ECONOMICS EXPERIENCE 3 Credit Hours
(Slashed with ECON 42189) Firsthand exposure to international economics. Includes pre-trip orientation sessions, visits to international business and organizations, and opportunities for cultural activities.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

ECON 52291 VARIABLE CONTENT SEMINAR IN ECONOMICS 1-4 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Slashed with ECON 42291) Various special seminars will be announced in the schedule of classes under this course number.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECON 52293 VARIABLE TOPIC WORKSHOP IN ECONOMICS 1-6 Credit Hours
(Repeatable for a maximum of 18 credit hours) Various special workshops will be announced in the schedule of classes under this course number.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ECON 52295 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) (Slashed with ECON 42295) Various special topics will be announced in the schedule of classes under this course number.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECON 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ECON 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECON 62010 SURVEY OF ECONOMICS 3 Credit Hours
Survey of basic economic concepts and methods of analysis of both micro- and macroeconomics. Emphasis is placed on the use and relevance of economic concepts and tools in business decision-making.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62015 ECONOMICS OF INFORMATION 3 Credit Hours
Introduction to microeconomic theory and decision-making and its applications to the information economy. Overview of the economics of information. Consumer behavior and production theory; the demand for information; information as a factor of production; information costs and pricing. Case studies in the information industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62021 MACROECONOMIC ENVIRONMENT OF BUSINESS 2 Credit Hours
(Slashed with ECON 72021) Analysis of forces determining economic growth, employment, inflation and global economic environment with emphasis on understanding the business cycle and government stabilization policies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECON 62022 MANAGERIAL ECONOMICS 2 Credit Hours
(Slashed with ECON 72022) Uses economic theory and quantitative methodologies to develop decision-making skills which enable managers of local, national and multinational companies to evaluate problems and allocate resources efficiently.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECON 62050 MICROECONOMIC THEORY I 3 Credit Hours
(Slashed with ECON 72050) Formal analysis of foundational models in microeconomics, including consumer and producer theory, an introduction to non-cooperative game theory, market equilibrium under various market structures and a discussion of market failures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62051 MACROECONOMIC THEORY I 3 Credit Hours
(Slashed with ECON 72051) Formal analysis of models in macroeconomics, including models of economic growth, business cycles, consumption, investment, and unemployment, with applications to the analysis of monetary and fiscal policies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62052 DATA ACQUISITION AND PREPARATION FOR ACADEMIC RESEARCH 3 Credit Hours
(Slashed with ECON 72052) Students will learn to access and collect data from existing sources (databases and raw data), prepare the data for further analysis, tabulate/visualize the summary statistics, and perform basic analysis using several different statistical software. The course is designed primarily to aid students with their academic research projects. Students will primarily learn Stata and SAS for data preparation and analysis and Python for scraping texts from various web sources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62054 ECONOMETRICS I 3 Credit Hours
(Slashed with ECON 72054) Introduction to problems and methods of the empirical estimation of economic relationships.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62055 ECONOMETRICS II 3 Credit Hours
(Slashed with ECON 72055) Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation.
Prerequisite: ECON 62054; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62056 TIME SERIES ANALYSIS 3 Credit Hours
(Slashed with ECON 72056) Covers various univariate and multivariate time series models, including autoregressive moving average (ARMA), general autoregressive conditional heteroskedasticity (GARCH), value at risk (VaR), vector autoregressive (VAR) and vector error correction model (VECM), etc. Students will gain hands-on experience with all models learned in the course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62061 MONETARY THEORY AND POLICY 3 Credit Hours
(Slashed with ECON 72061) A study of the nature and definition of money, its relationship to prices, output, employment, and interest rates and problems related to the conduct of monetary policy.
Prerequisite: ECON 62021; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62072 ECONOMICS OF LABOR MARKETS 3 Credit Hours
The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and wage inequality.
Prerequisite: ECON 32040 or ECON 62022; and ECON 62054; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62075 INTERNATIONAL TRADE 3 Credit Hours
(Slashed with ECON 72075) Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade and the effect of international trade on domestic policy.
Prerequisite: ECON 62021 and ECON 62022; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62076 INTERNATIONAL FINANCE 3 Credit Hours
(Slashed with ECON 72076) Formal analysis of models of international monetary relations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas and international capital flows.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62092 INTERNSHIP IN ECONOMICS 3 Credit Hours
(Repeatable for credit) Supervised practical experience in economics. Students must have a minimum 3.000 GPA in the economics major within the MAE degree and completed 4 courses from the MAE.
Prerequisite: Admitted to the Master of Arts in Economics program; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

ECON 62095 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours
(Repeatable 3 times for credit) Various special topics will be announced in the Schedule of Classes under this course number.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62096 INDEPENDENT STUDY 1-3 Credit Hours
(Repeatable for credit)Independent study on a particular project or sequence of subjects. Maximum of 6 semester hours of work may be earned in independent study although no more than 3 hours in any one semester.
Prerequisite: Graduation standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ECON 62098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research for master's students. May apply toward degree requirements if approved in advance by department.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

ECON 62180 REGIONAL ECONOMICS 3 Credit Hours
Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 62199 THESIS I 2-6 Credit Hours
Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.
Prerequisite: Graduate standing and special approval of adviser.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECON 62299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ECON 62199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECON 64004 QUANTITATIVE METHODS IN BUSINESS ADMINISTRATION I 3 Credit Hours
(Slashed with ECON 74004) Covers the mathematical tools that are of central importance in economics in the context of economic examples. Topics include functions, matrix algebra, differential calculus, optimization, integration and dynamic analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72021 MACROECONOMIC ENVIRONMENT OF BUSINESS 2 Credit Hours
(Slashed with ECON 62021) Analysis of forces determining economic growth, employment, inflation and global economic environment with emphasis on understanding the business cycle and government stabilization policies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECON 72022 MANAGERIAL ECONOMICS 2 Credit Hours
(Slashed with ECON 62022) Uses economic theory and quantitative methodologies to develop decision-making skills which enable managers to evaluate problems and allocate resources efficiently.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECON 72050 MICROECONOMIC THEORY I 3 Credit Hours
(Slashed with ECON 62050) Formal analysis of foundational models in microeconomics, including consumer and producer theory, an introduction to non-cooperative game theory, market equilibrium under various market structures and a discussion of market failures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72051 MACROECONOMIC THEORY I 3 Credit Hours
(Slashed with ECON 62051) Formal analysis of models in macroeconomics, including models of economic growth, business cycles, consumption, investment, and unemployment, with applications to the analysis of monetary and fiscal policies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72052 DATA ACQUISITION AND PREPARATION FOR ACADEMIC RESEARCH 3 Credit Hours
(Slashed with ECON 62052) In this course, students will learn to access and collect data from existing sources (databases and raw data), prepare the data for further analysis, tabulate/visualize the summary statistics, and perform basic analysis using several different statistical software. The course is designed primarily to aid students with their academic research projects. Students will primarily learn Stata and SAS for data preparation and analysis and Python for scraping texts from various web sources.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72054 ECONOMETRICS I 3 Credit Hours
(Slashed with ECON 62054) Introduction to problems and methods of the empirical estimation of economic relationships.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72055 ECONOMETRICS II 3 Credit Hours
(Slashed with ECON 62055) Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation.
Prerequisite: ECON 62054; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72056 TIME SERIES ANALYSIS 3 Credit Hours
(Slashed with ECON 62056) Covers various univariate and multivariate time series models, including autoregressive moving average (ARMA), general autoregressive conditional heteroskedasticity (GARCH), value at risk (VaR), vector autoregressive(VAR) and vector error correction model (VECM), etc. Students will gain hands-on experience with all models learned in the course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72061 MONETARY THEORY AND POLICY 3 Credit Hours
(Slashed with ECON 62061) Study of money in promoting exchange, its relationship to prices, output, employment, interest rates and banking and issues related to the conduct of monetary policy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72075 INTERNATIONAL TRADE 3 Credit Hours
(Slashed with ECON 62075) Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade and the effect of international trade on domestic policy.
Prerequisite: ECON 62021 and ECON 62022; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72076 INTERNATIONAL FINANCE 3 Credit Hours
(Slashed with ECON 62076) Formal analysis of models of international monetary relations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas, and international capital flows.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 72180 REGIONAL ECONOMICS 3 Credit Hours
Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 74004 QUANTITATIVE METHODS IN BUSINESS ADMINISTRATION I 3 Credit Hours
(Slashed with ECON 64004) Covers the mathematical tools that are of central importance in economics in the context of economic examples. Topics include functions, matrix algebra, differential calculus, optimization, integration and dynamic analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 82024 SEMINAR IN APPLIED ECONOMIC ANALYSIS 3 Credit Hours
Discussion and analysis of selected current economic problems confronting the economy and the business sector. Emphasis will be on applied analysis.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECON 82072 ECONOMICS OF LABOR MARKETS 3 Credit Hours
The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and wage inequality.
Prerequisite: ECON 32040 or ECON 62022; and ECON 62054; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Data Analytics - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Economics
www.kent.edu/business/economics

About This Program

The Data Analytics minor trains students to use data to inform decision-making and create solutions. Students learn to acquire and collect raw data in various formats, convert raw data to usable formats and then

understand how to appropriately analyze the data to draw accurate and useful conclusions. Graduates of the program will be able to use their skills across a wide-range of industries as well as in the non-profit and government sectors.

Contact Information

- **Tom Sahajdack, Ph.D.** | tsahajda@kent.edu | 330-672-1085
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Data Analytics minor, students must have completed following courses (or their equivalent) with a minimum C- grade: ECON 22060 and (MATH 11012 or MATH 12002).

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 32050	APPLIED ECONOMETRICS I (ELR) (min C grade)	3
ECON 32051	APPLIED ECONOMETRICS II	3
ECON 42050	DATA ACQUISITION, PREPARATION AND VISUALIZATION	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR) [1]	3-4
or BA 24056	BUSINESS ANALYTICS I	
or MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
Programming Elective, choose from the following:		3
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
EMAT 25310	CREATIVE CODING	
Programming or Applied Elective, choose from the following:		3
Programming Elective		
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	
Any other programming course with approval		
Applied Elective [2]		
ACCT 43009	ACCOUNTING DATA ANALYTICS	
CIS 44043	DATABASE DESIGN AND DATA GOVERNANCE	
ECON 42068	INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY	
ECON 42072	LABOR ECONOMICS: WORK AND PAY	
ECON 42191	SENIOR SEMINAR IN ECONOMICS (WIC)	
FDM 35270	COMPUTER APPLICATIONS IN RETAILING	
FIN 36086	ADVANCED FINANCIAL MODELING	
MKTG 35061	MARKETING ANALYTICS	
Minimum Total Credit Hours:		**24**

1 Students who have taken an equivalent course in introductory statistics or have an equivalent AP statistics exam score may substitute for the statistics requirement.

2 Students may be allowed to choose an appropriate applied data course from their major discipline, subject to approval by the undergraduate coordinator in economics.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Students are expected to satisfy course prerequisites for each course required in the minor. Prerequisites are not tied to a particular catalog; therefore it is important to look at the most current information about a course.
- Student may not pursue a minor and a major in the same discipline
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Acquire and collect raw data in various formats.
2. Convert raw data to usable formats.
3. Analyze the data to draw accurate and useful conclusions.

Economics - B.B.A.

Ambassador Crawford College of Business and Entrepreneurship
Department of Economics
www.kent.edu/business/economics

About This Program

The Economics B.B.A. program provides you with the skills and knowledge needed to excel in the rapidly changing field of economics. With a focus on both theoretical and practical aspects of economics, you'll be prepared for a variety of roles in the business world. Enroll now and take the first step towards a successful career in economics. Read more...

Contact Information

- **Tom Sahajdack, Ph.D.** | tsahajda@kent.edu | 330-672-1085
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Economists

- 14.1% much faster than the average
- 20,500 number of jobs
- $108,350 potential earnings

Social science research assistants

- 5.8% faster than the average
- 40,100 number of jobs
- $49,210 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer Student: A minimum 2.25 overall GPA is required for admission into the program. Students who have previously attended Kent State must also have a minimum 2.25 in their former Kent State coursework.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS (min C- grade)	3
ECON 32041	INTERMEDIATE MACROECONOMIC THEORY AND POLICY (min C- grade)	3
ECON 32050	APPLIED ECONOMETRICS I (ELR) (min C- grade)	3
ECON 42191	SENIOR SEMINAR IN ECONOMICS (WIC) (min C grade)	3
Economics (ECON) Upper-Division Electives (30000 or 40000 level)		12
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I [2]	3
BA 44062	SUPPLY CHAIN MANAGEMENT	3
BUS 10123	EXPLORING BUSINESS [1]	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 44285	STRATEGIC MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3

UC 10001	FLASHES 101	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [3]		19
Minimum Total Credit Hours:		**120**

[1] Students changing to a program in the college or transferring may be waived out of BUS 10123 if:

1. 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
2. 60 or more credit hours have been earned and the student has successfully completed one course from (ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
3. At the discretion of the dean's office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.

[2] Students who have taken MATH 10041 for another program may use it as a substitute for BA 24056.

[3] Students may take or use any course at any level as long as the minimum 39-credit hours requirement for upper-division courses is satisfied for graduation with a B.B.A. Exceptions: Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be counted toward the 120 total credit hours or 39-upper-division-credit-hours graduation requirement. General elective courses may be selected from any area and at any level provided students do not go over the PWS, and they satisfy the 39 credit hours upper-division requirements. A minor (business or non-business) is encouraged. Any other exceptions must be approved by the assistant dean. A major in economics also is offered in the College of Arts and Sciences.

Progression Requirements

- Minimum 2.250 overall GPA
- Minimum C- grade in ECON 32040, ECON 32041 and ECON 32050
- Minimum C grade in ECON 42191

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.250

- This major is not available to students pursuing a Bachelor of Arts in Economics.
- The following course does not count toward the economics major: ECON 32082.
- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete at least 50 percent of their major credit hours in residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the college for complete satisfaction of the B.B.A. degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	BUS 10123	EXPLORING BUSINESS	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	MATH 11012 or MATH 12002	INTUITIVE CALCULUS (KMCR) or ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	3-5
	UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
	BA 24056	BUSINESS ANALYTICS I	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
	MGMT 24163	PRINCIPLES OF MANAGEMENT	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
	BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
	ECON 32040 or ECON 32041 or ECON 32050	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS or INTERMEDIATE MACROECONOMIC THEORY AND POLICY or APPLIED ECONOMETRICS I (ELR)	3
	Economics (ECON) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	Required: minimum cumulative 2.250 GPA		
	BA 44062	SUPPLY CHAIN MANAGEMENT	3
	ECON 32040 or ECON 32041 or ECON 32050	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS or INTERMEDIATE MACROECONOMIC THEORY AND POLICY or APPLIED ECONOMETRICS I (ELR)	3

	FIN 36053	BUSINESS FINANCE	3
	MKTG 25010	PRINCIPLES OF MARKETING	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	Required: minimum cumulative 2.250 GPA		
!	ECON 32040 or ECON 32041 or ECON 32050	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS or INTERMEDIATE MACROECONOMIC THEORY AND POLICY or APPLIED ECONOMETRICS I (ELR)	3
	FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
	Economics (ECON) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		6
		Credit Hours	**15**
	Semester Seven		
	Required: minimum cumulative 2.250 GPA		
	Economics (ECON) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	General Electives		9
		Credit Hours	**15**
	Semester Eight		
	Required: minimum cumulative 2.250 GPA and completion of The Assurance of Learning Assessment given in MGMT 44285		
!	ECON 42191	SENIOR SEMINAR IN ECONOMICS (WIC)	3
	MGMT 44285	STRATEGIC MANAGEMENT	3
	Economics (ECON) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		4
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Conceptualize and analyze problems using economic concepts and reasoning.
2. Critically analyze alternative economic policy proposals.
3. Utilize analytic and quantitative techniques that are use extensively in economic to formulate and test hypotheses.

Students earning a B.B.A. degree in Ambassador Crawford College of Business and Entrepreneurship are expected to have developed skills in the following critical areas of business:

1. Core Business Knowledge - Recall the strategic frameworks that are used to make business decisions.
2. Analytical Skills - Use analytical methodologies and critical thinking skills to evaluate and solve business problems.
3. Digital Technology – Demonstrate the technological skills necessary to analyze business problems and develop solutions.
4. Written Communication - Write effective business communications.
5. Oral Communication - Make effective business presentations, using appropriate technologies.
6. Teamwork – Collaborate effectively with others to achieve a common business purpose.
7. Business Ethics – Recognize ethical business dilemmas and use ethical decision making to resolve the dilemma.
8. Global - Analyze the key global factors when making business decisions.

Full Description

The Bachelor of Business Administration degree in Economics equips students with a variety of skills sought by employers, including conceptualizing and solving problems; locating, organizing and using relevant information; and analytical ability.

In their junior year, students learn microeconomic and macroeconomic theory and take an econometrics class to learn basic analytical skills. Students then take a series of electives that deal with vital current topics relevant to many careers in which these theories and skills are applied, such as U.S. financial and banking system; the economic relations between the United States and foreign countries; government spending and taxation policies; and the U.S. health system and policy options.

During their senior year, students take a capstone course that utilizes and applies the theory, skills and institutional knowledge learned in the program.

Economics students may apply early to either the M.B.A. degree or the Master of Arts in Economics degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information. Undergraduate students applying to the combined program with the Master of Arts in Economics degree must have a minimum 3.200 overall Kent State GPA.

Economics - M.A.E.

Ambassador Crawford College of Business and Entrepreneurship
Department of Economics
www.kent.edu/business/economics

About This Program

Our Master of Arts in Economics program is designed to equip you with advanced economic knowledge and skills needed to thrive in various careers. With experienced faculty, research opportunities, and industry connections, you'll receive a top-notch education that prepares you for a successful career in economics. Read more...

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Economics teachers, postsecondary

- 5.2% faster than the average
- 16,800 number of jobs
- $107,260 potential earnings

Economists

- 14.1% much faster than the average
- 20,500 number of jobs
- $108,350 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Accreditation

AACSB International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation *(starting with spring 2026 admission term, two letters of recommendation will be required)*
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Undergraduate students who are applying to the combined bachelor's/master's program with the M.A.E. degree must have earned a minimum 60 credit hours (junior standing) and have a minimum 3.200 overall GPA. *Starting with the spring 2026 admission term, a minimum 3.000 overall GPA is required, and the requirements of two recommendation letters is waived.*

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Funding deadline: February 15
    Applications must be submitted by these deadlines to be considered for an assistantship or any other funded position.
  - Application deadline: February 15 (international student) and June 1 (domestic student)

Applications submitted after these deadlines will be considered on a space-available basis.

- **Spring Semester**
  - Funding deadline: October 15
    Applications must be submitted by these deadlines to be considered for an assistantship or any other funded position.
  - Application deadline: October 15 (international student) and November 15 (domestic student)
    Applications submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		**15**
ECON 62050	MICROECONOMIC THEORY I	3
ECON 62051	MACROECONOMIC THEORY I	3
ECON 62054	ECONOMETRICS I	3
ECON 62056	TIME SERIES ANALYSIS	3
ECON 62055	ECONOMETRICS II	3
or BA 64060	FUNDAMENTALS OF MACHINE LEARNING	
Electives		**15**
Choose from the following:		
ECON 52050	DATA ACQUISITION, PREPARATION AND VISUALIZATION [1]	3
ECON 52072	LABOR ECONOMICS: WORK AND PAY [1]	3
ECON 52076	ECONOMIC DEVELOPMENT [1]	3
ECON 52085	PUBLIC ECONOMICS: GOVERNMENT AND POLICY [1]	3
FIN 56055	ADVANCED DERIVATIVE SECURITIES [2]	3
FIN 56056	ADVANCED FIXED INCOME MANAGEMENT [2]	3
FIN 56059	APPLIED FINANCIAL MANAGEMENT STRATEGIES [2]	3
FIN 56067	ADVANCED PORTFOLIO ANALYSIS [2]	3
MATH 50011	PROBABILITY THEORY AND APPLICATIONS [3]	3
MATH 50012	THEORY OF STATISTICS [3]	3
MATH 50059	STOCHASTIC ACTUARIAL MODELS [3]	3
MATH 51021	THEORY OF MATRICES [3]	3

Other Graduate level courses upon the approval of MAE coordinator including Internship, Thesis and International Experience.

1 Economics electives build strong analytical and theoretical foundations and are recommended for students interested in careers in policy or research.

2 Finance electives develop practical skills and industry-specific knowledge and are recommended for students interested in careers in banking, investment, or financial advising.

3 Math electives prepare students for data-heavy roles, actuarial paths, or quantitative fields.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students entering the program will be expected to have completed undergraduate courses in intermediate microeconomic and macroeconomic theory, differential calculus and statistics. Any deficiencies must be made up before the start of the program. These background courses do not count toward the 30 credit hours required for the M.A.E. degree.
- Students may also select, with departmental approval, a limited number of courses outside the Department of Economics.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and apply fundamental economic concepts.
2. Formulate and test hypotheses.
3. Access and use appropriate information.
4. Demonstrate analytic and quantitative skills.

Full Description

The Master of Arts in Economics degree provides prepares graduates for a career as an analyst in government or the private sector, as well as for doctoral study.

The program emphasizes the development of strong analytical and quantitative skills. Students gain solid training in the application of economic theory and statistical methods. Additionally, the curriculum supports those interested in careers in financial services including commercial and investment banking, insurance, real estate, and financial advising by offering relevant coursework and practical tools aligned with industry needs.

Economics - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Economics
www.kent.edu/business/economics

About This Program

The Economics minor is the study of how people make decisions in response to incentives. The minor examines a range of topics, including individual decisions regarding risk, firm strategies regarding their competitors and the role of the government in the financial system and broader economy. Students study specific areas of public policy concern such as health care, environmental problems, economic development and international trade. Problem-solving and analytical skills are emphasized throughout the program.

Contact Information

- **Tom Sahajdack, Ph.D.** | tsahajda@kent.edu | 330-672-1085
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person

- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Economics minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS	3
or ECON 32041	INTERMEDIATE MACROECONOMIC THEORY AND POLICY	
Economics (ECON) Upper-Division Electives (30000 or 40000 level) [1]		9
Minimum Total Credit Hours:		**18**

[1] Economics upper-division electives may include ECON 32040 or ECON 32041 if not previously taken to fulfill minor requirements and with advisor approval.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- It is highly recommended that students declaring the Economics minor complete at least one mathematics course at the MATH 11010 level or higher before registering for upper-division economics courses.
- Student may not pursue a minor and a major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Conceptualize and analyze problems using economic concepts and reasoning.
2. Critically analyze alternative economic policy proposals.
3. Utilize analytic techniques that are used extensively in economics to formulate and test hypotheses.

Quantitative Methods in Econometrics - Graduate Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Economics
www.kent.edu/business/economics

About This Program

The Quantitative Methods in Econometrics graduate minor provides in-depth training in statistical and econometrics methods and data analytics skills for academic research.

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Doctoral standing at Kent State University

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ECON 72052	DATA ACQUISITION AND PREPARATION FOR ACADEMIC RESEARCH	3
ECON 72054	ECONOMETRICS I	3
ECON 72055	ECONOMETRICS II	3
or ECON 72056	TIME SERIES ANALYSIS	
Minimum Total Credit Hours:		**9**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Use appropriate statistical and econometrics methods to do predictive modeling and interpret the relationship among the variables.
2. Acquire data from public sources, prepare data for analysis and summarize the data using visualization.

3. Be proficient in at least one commonly used statistical software package.

Department of Finance

Ambassador Crawford College of Business and Entrepreneurship
Department of Finance
402 Crawford Hall
Kent Campus
330-672-2426
finance@kent.edu
www.kent.edu/business/finance

Undergraduate Programs

- Finance - B.B.A.

Undergraduate Minors

- Finance

Graduate Certificates

- Financial Management

Department of Finance Faculty

- Baran, Lindsay C. (2011), Associate Professor, Ph.D., University of North Carolina, Charlotte, 2010
- Beier, Lois J. (1985), Professor, J.D., University of Akron, 1980
- Billik, William M. (2009), Associate Professor, Ph.D., Kent State University, 2018
- Deng, Saiying (2019), Professor, Ph.D., Temple University , 2005
- Dennis, Steven A. (2014), Professor, Ph.D., University of Kentucky, 1993
- Harris, Jeremiah R. (2014), Associate Professor, Ph.D., Purdue University, 2014
- Jiang, Lei (2023), Professor, Ph.D., Emory University, 2011
- Lloyd, Albert A. (2022), Lecturer, M.B.A., Kent State University, 1996
- Pelleg, David S. (2018), Associate Lecturer, M.B.A., University of Chicago, 1994
- Pu, Xiaoling X. (2008), Professor, Ph.D., University of Massachusetts-Amherst, 2008
- Shynkevich, Andrei (2009), Associate Professor, Ph.D., Louisiana State University, 2009

Finance (FIN)

FIN 26051 BITCOIN AND BLOCKCHAIN TECHNOLOGY 3 Credit Hours
Digital currencies and distributed ledger technology will completely reshape the landscape of commerce and business. Course explores this from three different perspectives: the primary and secondary markets and emergence of digital tokens; capital formation in the digital economy; and financial technology transformation via distributed ledger blockchain.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 26074 LEGAL ENVIRONMENT OF BUSINESS 3 Credit Hours
(Equivalent to BMRT 21000) Coverage of the nature, structure and significance of the legal and regulatory areas which confront business, with special emphasis on business ethics environmental and international issues.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

FIN 26085 INTRODUCTION TO FINANCIAL MODELING 1 Credit Hour
Introduces students to financial modeling using both basic and advanced features in Microsoft Excel. Students will learn how to create and analyze databases for portfolios and other projects. Students will learn commands for statistical analysis and financial functions.
Prerequisite: CIS 24053; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FIN 26086 PRINCIPLES OF FINANCIAL MODELING 3 Credit Hours
Introduces students to financial modeling using both basic and advanced features in Microsoft Excel. Students learn how to create and analyze databases for portfolios and other projects. Students learn commands for statistical analysis and financial functions. Students create their own discounted cash flow analysis model, including creating a complete set of financial statements as well as a five-year forecast. Students are introduced to data visualization software.
Prerequisite: CIS 24053; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 26280 GOLDEN FLASH ASSET MANAGEMENT MEMBER 1 Credit Hour
(Repeatable for max 3 credit hours) This course is for members of the Golden Flash Asset Management Group, Kent State's student-managed investment fund. Requires special permission from the department chair, but any major on campus can join. To inquire about becoming a member, contact the chair of the Department of Finance. Students may repeat this course up to a maximum of 3 credits only toward general electives, if needed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FIN 26295 SPECIAL TOPICS IN FINANCE I 1-3 Credit Hours
(Repeatable for credit) Deals with special topics in finance; new subjects not covered in other existing courses.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

FIN 36040 PERSONAL FINANCIAL PLANNING 3 Credit Hours
Course examines basic personal financial planning and investment strategies with the goal of increasing personal financial literacy and future individual well-being. Course provides a foundation for understanding financial decisions and making informed choices. Course does not fulfill a requirement for the Finance major or minor. Students cannot earn credit toward graduation for both FIN 36040 and FIN 36063.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36051 THE FINANCIAL SYSTEM 3 Credit Hours
Analysis of financial markets and institutions emphasizing current issues, regulatory aspects, and management concerns. This is a fundamental course for business majors and minors.
Prerequisite: ACCT 23020 or ACTT 11000; and ECON 22060; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36053 BUSINESS FINANCE 3 Credit Hours
Introductory finance course analyzing the basic financial decisions of corporations and the interface of the firm with capital markets. Students discuss stocks, bonds, the time value of money, risk versus return and the essentials of capital budgeting.
Prerequisite: ACCT 23020 or ACTT 11000; and ECON 22060; and ECON 22061; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36054 INTERMEDIATE CORPORATE FINANCE 3 Credit Hours
Treatment of financial decision making processes in businesses. Overview of cost of capital, capital budgeting, capital structure, and working capital management.
Prerequisite: Minimum C grade in FIN 26085 (or FIN 26086), FIN 36053, ENG 21011 (or HONR 10297), COMM 15000 and MATH 11010 (or MATH 10675 or MATH 10775); and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36059 INTERMEDIATE INVESTMENTS 3 Credit Hours
Discussion of factors determining the value of investment securities with attention to economic, regulatory, and global influences. Either this course or FIN 36063, but not both, can count as an elective in an Ambassador Crawford College of Business and Entrepreneurship program.
Prerequisite: Minimum C grade in the following courses: FIN 26085 or FIN 26086; and FIN 36053; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36061 PRINCIPLES OF REAL ESTATE 3 Credit Hours
Principles and practices of real estate, real estate laws, contractual instruments, valuation, financing and markets in commercial and residential real estate.
Prerequisite: FIN 36053 with a minimum C grade; and minimum overall 2.000 GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36063 INDIVIDUAL INVESTMENT STRATEGIES 3 Credit Hours
Course examines more advanced strategies for personal investing in stocks, bonds, insurance, real estate and alternative investments. Course does not fulfill a requirement for the Finance major or minor. Students cannot earn credit toward graduation for both FIN 36040 and FIN 36063. Not open to students declared in Finance major or minor.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36072 LAW OF COMMERCIAL TRANSACTIONS 3 Credit Hours
Introduction to real and personal property, commercial paper, agency law, business organizations, bankruptcy, secured transactions and other related areas of business law.
Prerequisite: FIN 26074 or BMRT 21000; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36081 PRINCIPLES OF INSURANCE 3 Credit Hours
Examination of insurance industry, its regulatory environment and insurance contracts. Life and health insurance as well as property and liability insurance are covered.
Prerequisite: FIN 36053 with a minimum C grade; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36086 ADVANCED FINANCIAL MODELING 3 Credit Hours
Course is meant as a stepping-stone for advanced financial courses. Students touch upon three general areas of financial modeling: (1) financial-statement-based models, (2) portfolio investment models and (3) markets/securities/derivatives models. Students use Excel functions and techniques to solve problems for different and complicated scenarios. Students also use multiple regression analysis in Excel. Students use advanced features in Tableau and are introduced to Python.
Prerequisite: Minimum C grade in FIN 26085 (or FIN 26086), FIN 36053, ENG 21011 (or HONR 10297) and COMM 15000; and MATH 11010 (or MATH 10675 or MATH 10775); minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 36280 GOLDEN FLASH ASSET MANAGEMENT JUNIOR OFFICER 2 Credit Hours
(Repeatable for max 6 credit hours) This course is for junior officers in the Golden Flash Asset Management Group, Kent State's student managed investment fund. Course examines the issues involved in the management and investment strategies of a portfolio of financial assets. Junior officers research prospective investments, generate reports and make decisions to invest or liquidate. Any recommendation to buy, sell or retain a position in a security is presented to all student team members and to the instructor. Oral presentations are required. Course credits count toward general electives, not finance major/minor electives.
Prerequisite: Special approval from department chair.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

FIN 46054 FINANCIAL RISK MANAGEMENT 3 Credit Hours
Understanding techniques and financial tools used in managing financial risk. Analysis of contracts (options, forwards, futures) undertaken in the context of financial regulation and ethical practices within the financial marketplace.
Prerequisite: FIN 36053 with a minimum C grade; and overall 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46055 ADVANCED DERIVATIVE SECURITIES 3 Credit Hours
(Slashed with FIN 56055) Comprehensive analysis of derivatives securities markets and their role in the financial system. Valuation methods, advanced hedging, arbitration techniques and the regulatory environment.
Prerequisite: FIN 36059; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46056 ADVANCED FIXED INCOME MANAGEMENT 3 Credit Hours
(Slashed with FIN 56056) Course investigates techniques and financial tools used in fixed income markets. Students analyze interest rate and bond mathematics; review the structure of debt markets; and examine the mechanics, securities, derivatives and structured products tied to the credit and debt markets.
Prerequisite: FIN 36051 and FIN 36059; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46059 APPLIED FINANCIAL MANAGEMENT STRATEGIES (ELR) (WIC) 3 Credit Hours
(Slashed with FIN 56059) Emphasis on financial policies and strategic financial decision-making with respect to both short-term and long-term financial management problems.
Prerequisite: FIN 36054; and MATH 10041 or BA 24056; and minimum 2.000 overall GPA; and Finance major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

FIN 46061 REAL ESTATE FINANCE 3 Credit Hours
(Slashed with FIN 56061) Course covers basic real estate law, project evaluation, financing strategies, investment decision making and real estate capital markets.
Prerequisite: FIN 36051 and FIN 36054 or FIN 36059; and 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46064 INTERNATIONAL BUSINESS FINANCE 3 Credit Hours
(Slashed with FIN 56064) Management of the finance function of an international company, including foreign exchange exposure management, foreign investment, short term and long term capital management and international accounting and taxation.
Prerequisite: Minimum C grade in FIN 36053; and minimum 2.000 overall GPA; and Finance major or minor or International Business minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46067 ADVANCED PORTFOLIO ANALYSIS 3 Credit Hours
(Slashed with FIN 56067) Examines the principles, methods, and techniques of portfolio analysis with emphasis on determination of portfolio risks and returns. The political, ethical, and global forces affecting asset risks and returns are evaluated.
Prerequisite: FIN 36051 and FIN 36059; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46068 COMMERCIAL BANK MANAGEMENT 3 Credit Hours
(Slashed with FIN 56068) Financial management techniques applied to commercial banks. Focus on management of liquidity, investment and loan portfolios and capital structure.
Prerequisite: FIN 36051; and FIN 36054 or FIN 36059; and minimum 2.000 overall GPA; and Finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46070 ADVANCED COMMERCIAL BANK MANAGEMENT 3 Credit Hours
(Slashed with FIN 56070) Course contains a mixture of lectures, guest speakers and case discussions regarding the banking industry. Advanced discussions of liquidity risk, interest rate risk, credit risk and solvency risk and the management of these risks. In-depth computer models for measuring and managing risks are discussed.
Prerequisite: FIN 46068; and minimum 2.000 overall GPA; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46072 BUSINESS FINANCIAL DISTRESS AND BANKRUPTCY 3 Credit Hours
This course introduces the senior undergraduate or graduate business student to the business problems faced by a financially troubled company, and possible ways to save that company. Students will learn the economics and structure of secured lending, the ways a business can jettison costs to regain operations profitability, the many complications management faces when trying to fix the company and the rules controlling the aggressive actions of it's creditors. The course will have a special focus on the multi-billion dollar world of "distressed mergers and acquisitions," including ways Wall Street, Private Equity firms and competitors value a troubled business and try to buy the business at a bargain price.
Prerequisite: FIN 26074; and FIN 36051; and FIN 36054 or FIN 36059; and finance major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46089 INTERNATIONAL FINANCE EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Slashed with FIN 56089) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: Minimum 2.000 overall GPA; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FIN 46096 INDIVIDUAL INVESTIGATION IN FINANCE 1-3 Credit Hours
(Repeatable for credit) Opportunity for research in problem areas of interest in field of finance. Agreement of faculty member in the department must be secured prior to registering for course.
Prerequisite: Minimum 2.500 overall GPA; and finance major; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

FIN 46192 INTERNSHIP IN FINANCE (ELR) 3 Credit Hours
(Repeatable for Credit) An internship for finance majors and minors interested in obtaining career-relevant experience. Students and employers must satisfy criteria established by the department. Students are responsible for securing employment.
Prerequisite: FIN 36051; and FIN 36054 or FIN 36059; and a minimum 2.500 overall GPA; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FIN 46280 GOLDEN FLASH ASSET MANAGEMENT SENIOR OFFICER 3 Credit Hours
(Repeatable for max 6 credit hours) This course is for Senior officers in the Golden Flash Asset Management Group, Kent State's student-managed investment fund. Course examines the issues involved in the management and investment strategies of a portfolio of financial assets. It focuses on asset allocation, portfolio monitoring and evaluation, portfolio rebalancing and investment analysis under the supervision of the instructor. Senior officers are responsible for leading meetings, preparing and presenting the annual report, reviewing performance, making trades, monitoring risk, providing the economic report and ensuring a smooth flow of operations. Oral presentations are required. Course credits count toward general electives when taken for the first time. Course credits can count toward general electives or major electives if taken for the second time.
Prerequisite: Special approval by the department chair.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 46295 SPECIAL TOPICS IN FINANCE II 1-3 Credit Hours
(Repeatable for credit) Deal with special topics in finance. New subjects not covered in other existing courses.
Prerequisite: FIN 36053; and minimum 2.500 overall GPA; and finance major; and senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

FIN 56055 ADVANCED DERIVATIVE SECURITIES 3 Credit Hours
(Slashed with FIN 46055) Comprehensive analysis of options and futures markets and their role in the financial system. Students explore valuation methods, advanced hedging, arbitration techniques and the regulatory environment.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56056 ADVANCED FIXED INCOME MANAGEMENT 3 Credit Hours
(Slashed with FIN 46056) Course investigates techniques and financial tools used in fixed income markets. Students analyze interest rate and bond mathematics; review the structure of debt markets; and examine the mechanics, securities, derivatives and structured products tied to the credit and debt markets.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56059 APPLIED FINANCIAL MANAGEMENT STRATEGIES 3 Credit Hours
(Slashed with FIN 46059) Emphasis on financial policies and strategic financial decision-making with respect to both short-term and long-term financial management problems.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56061 REAL ESTATE FINANCE 3 Credit Hours
(Slashed with FIN 46061) Course covers basic real estate law, project evaluation, financing strategies, investment decision making and real estate capital markets.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56064 INTERNATIONAL BUSINESS FINANCE 3 Credit Hours
(Slashed with FIN 46064) Management of the finance function of an international company, including foreign exchange exposure management, foreign investment, short term and long term capital management and international accounting and taxation.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56067 ADVANCED PORTFOLIO ANALYSIS 3 Credit Hours
(Slashed with FIN 46067) Examines the principles, methods and techniques of portfolio analysis with emphasis on determination of portfolio risks and returns. Students evaluate political, ethical, and global forces affecting asset risks and returns.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56068 COMMERCIAL BANK MANAGEMENT 3 Credit Hours
(Slashed with FIN 46068) Financial management techniques applied to commercial banks. Focus on management of liquidity, investment and loan portfolios and capital structure.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 56089 INTERNATIONAL FINANCE EXPERIENCE 3 Credit Hours
(Slashed with FIN 46089) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

FIN 56280 GOLDEN FLASH ASSET MANAGEMENT DIRECTOR 3 Credit Hours
Course examines the issues involved in the management and investment strategies of a live portfolio of financial assets. Students study asset allocation, portfolio monitoring and evaluation, portfolio rebalancing and investment analysis of an international equity and fixed income portfolio under the supervision of the instructor. Written and oral presentations are required.
Prerequisite: Graduate standing; and special approval from the department chair.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 66040 INTERNATIONAL ISSUES IN BANKING AND FINANCE 3 Credit Hours
Examines the financial theory behind foreign exchange rates, risk management through derivatives, international banking transactions, bank credit analysis, real estate valuation and ESG investing.
Prerequisite: FIN 66060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 66050 LAW AND ETHICS 2 Credit Hours
Course is an overview of laws and regulations with related ethical impacts affecting business management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

FIN 66060 MANAGERIAL FINANCE 2 Credit Hours
Study of managerial decisions of the firm from a financial point of view. Topics include valuation, project analysis, and sources and uses of funds.
Prerequisite: ACCT 63037; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

FIN 86061 THEORIES OF FINANCIAL DECISION-MAKING 3 Credit Hours
A study of optimal investment decisions under conditions of certainty and uncertainty.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 86062 SEMINAR IN CORPORATE FINANCE 3 Credit Hours
A study of the theory and empirical evidence from a global perspective regarding corporate financial management.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 86064 SEMINAR IN FINANCIAL INSTITUTIONS 3 Credit Hours
A study of the theory and empirical evidence from a global perspective regarding the intersection of banking and empirical corporate finance/financial accounting.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 86066 SEMINAR IN INVESTMENTS 3 Credit Hours
A study of the theory and empirical evidence from a global perspective regarding investment analysis, valuation and portfolio selection.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FIN 86391 SEMINAR IN FINANCIAL TOPICS 3 Credit Hours
(Repeatable for credit) A study of the theory and empirical evidence from a global perspective regarding a topic of the faculty member's expertise.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Finance - B.B.A.

Ambassador Crawford College of Business and Entrepreneurship
www.kent.edu/business/finance

About This Program

Our Bachelor of Business Administration in Finance provides you with the knowledge and skills needed to succeed in the fast-paced world of finance. With experienced faculty, real-world learning opportunities and access to industry-standard software and databases, you'll be well-equipped for a variety of finance careers. Enroll now and start your journey towards financial success. Read More...

Contact Information

- **William Billik, Ph.D.** | wbillik@kent.edu | 330-672-1201
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Chief executives

- -10.0% decline
- 287,900 number of jobs
- $185,950 potential earnings

Personal financial advisors

- 4.4% about as fast as the average
- 263,000 number of jobs
- $89,330 potential earnings

Securities, commodities, and financial services sales agents

- 3.7% about as fast as the average
- 464,200 number of jobs
- $64,770 potential earnings

Financial and investment analysts, financial risk specialists, and financial specialists, all other

- 5.5% faster than the average
- 487,800 number of jobs
- $83,660 potential earnings

Loan officers

- 3.2% about as fast as the average
- 316,900 number of jobs
- $63,960 potential earnings

Real estate brokers

- 2.6% slower than the average
- 100,700 number of jobs
- $60,370 potential earnings

Credit analysts

- -4.8% decline
- 74,900 number of jobs
- $74,970 potential earnings

Financial managers

- 15.5% much faster than the average
- 697,900 number of jobs
- $134,180 potential earnings

Financial examiners

- 7.3% faster than the average
- 66,900 number of jobs
- $81,430 potential earnings

Property appraisers and assessors

- 2.9% slower than the average
- 75,100 number of jobs
- $58,650 potential earnings

Real estate sales agents

- 2.3% slower than the average
- 376,500 number of jobs
- $49,040 potential earnings

Additional Careers

- Chief financial officers
- Treasury executives

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer Student: A minimum 2.000 overall GPA is required for admission into the major. Students who have previously attended Kent State must also have a minimum 2.000 GPA in their former Kent State coursework and a minimum C grade in COMM 15000, ENG 21011, FIN 36053 and MATH 11010.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
FIN 26086	PRINCIPLES OF FINANCIAL MODELING (min C grade)	3
FIN 36051	THE FINANCIAL SYSTEM (min C grade)	3
FIN 36054	INTERMEDIATE CORPORATE FINANCE (min C grade)	3
FIN 36059	INTERMEDIATE INVESTMENTS (min C grade)	3
FIN 36086	ADVANCED FINANCIAL MODELING (min C grade)	3
FIN 46059	APPLIED FINANCIAL MANAGEMENT STRATEGIES (ELR) (WIC) (min C grade)	3
FIN 46064	INTERNATIONAL BUSINESS FINANCE (min C grade)	3
Accounting or Finance Electives, choose from the following: [1]		9
ACCT 33001	INTERMEDIATE FINANCIAL ACCOUNTING I	
ACCT 33010	COST ACCOUNTING	
ACCT 33012	INTERMEDIATE FINANCIAL ACCOUNTING II	
FIN 36061	PRINCIPLES OF REAL ESTATE	
FIN 36072	LAW OF COMMERCIAL TRANSACTIONS	
FIN 36081	PRINCIPLES OF INSURANCE	
FIN 46054	FINANCIAL RISK MANAGEMENT	
FIN 46055	ADVANCED DERIVATIVE SECURITIES	
FIN 46056	ADVANCED FIXED INCOME MANAGEMENT	
FIN 46061	REAL ESTATE FINANCE	
FIN 46067	ADVANCED PORTFOLIO ANALYSIS	
FIN 46068	COMMERCIAL BANK MANAGEMENT	
FIN 46070	ADVANCED COMMERCIAL BANK MANAGEMENT	
FIN 46072	BUSINESS FINANCIAL DISTRESS AND BANKRUPTCY	
FIN 46089	INTERNATIONAL FINANCE EXPERIENCE (DIVG) (ELR)	
FIN 46096	INDIVIDUAL INVESTIGATION IN FINANCE	
FIN 46192	INTERNSHIP IN FINANCE (ELR)	
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I [3]	3
BA 44062	SUPPLY CHAIN MANAGEMENT	3
BUS 10123	EXPLORING BUSINESS [2]	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS (min C grade)	3
FIN 36053	BUSINESS FINANCE (min C grade)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 44285	STRATEGIC MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10001	FLASHES 101	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition [4]		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [5]		13
Minimum Total Credit Hours:		**120**

[1] Maximum 6 credit hours of accounting (ACCT) courses can be applied toward the electives. Students may not receive major elective credit for more than 3 credit hours from the following four courses: FIN 46089, FIN 46096, FIN 46192 and FIN 46295. Any excess credit hours can be used for general electives, if needed. Students should meet with the chair of the Department of Finance or an academic advisor for a listing of courses that will provide the best possible preparation for the following career tracks: corporate finance, banking, investments (CFA or CFP), real estate or law.

[2] A student changing to a program in the college, transferring or incoming students with college credits, may be waived out of BUS 10123 if:

- 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
- 60 or more credit hours have been earned and the student has successfully completed one course from (ACCT 23020, ACCT 23021, FIN 26074,MGMT 24163, MKTG 25010 or CIS 24053)
- At the discretion of the dean's office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.

[3] Students who have taken MATH 10041 for another program may use it as a substitute for BA 24056.

[4] Minimum C grade is required in ENG 21011 or HONR 20197.

[5] Students may take or use any course at any level as long as the minimum 39-credit hours requirement for upper-division courses is satisfied for graduation with a B.B.A. Exceptions: Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses. A minor (business or non-business) is encouraged. Any other exceptions must be approved by the assistant dean. FIN 36280 is repeatable for a maximum of 6 credits for students in the major, the credits may only count towards general electives. FIN 46280 is repeatable for a maximum of 6 credit hours for students in the major; credits will automatically count towards general electives when taken both times. Students who want to use the credits earned the second time taken towards the accounting or finance elective major requirement will need to request an override from an academic advisor to have the credits applied to the major requirement.

Progression Requirements

- Minimum 2.000 overall GPA
- Minimum C grade in COMM 15000, ENG 21011, MATH 11010 (or placement out of MATH 11010), FIN 26086 and FIN 36053 and all required finance (FIN) major courses.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Minimum C grade in required finance (FIN) major courses.
- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete at least 50 percent of their major credit hours in residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the college for complete satisfaction of the B.B.A. degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	BUS 10123	EXPLORING BUSINESS	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	MATH 11012 or MATH 12002	INTUITIVE CALCULUS (KMCR) or ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	3-5
	UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
!	ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
!	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
	FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
	MGMT 24163	PRINCIPLES OF MANAGEMENT	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
	BA 24056	BUSINESS ANALYTICS I	3
	BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
	FIN 26086	PRINCIPLES OF FINANCIAL MODELING	3
	FIN 36051	THE FINANCIAL SYSTEM	3
		Credit Hours	**15**
	Semester Five		
	Required for progression in the major: Minimum 2.000 overall GPA, minimum C grade in COMM 15000, ENG 21011, MATH 11010, FIN 26086 and FIN 36053 and all required Finance major courses		
	BA 44062	SUPPLY CHAIN MANAGEMENT	3
!	FIN 36053	BUSINESS FINANCE	3
	MKTG 25010	PRINCIPLES OF MARKETING	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	Required: minimum overall 2.000 GPA		
!	FIN 36054	INTERMEDIATE CORPORATE FINANCE	3
	FIN 36059	INTERMEDIATE INVESTMENTS	3
	FIN 36086	ADVANCED FINANCIAL MODELING	3
	General Electives		6
		Credit Hours	**15**
	Semester Seven		
	Required: minimum 2.000 overall GPA		
	FIN 46064	INTERNATIONAL BUSINESS FINANCE	3
	Accounting or Finance Elective		3
	Kent Core Requirement		3
	General Electives		6
		Credit Hours	**15**
	Semester Eight		
	Required: minimum overall 2.000 GPA. Note: completion of the Assurance of Learning Assessment given in MGMT 44285		
	FIN 46059	APPLIED FINANCIAL MANAGEMENT STRATEGIES (ELR) (WIC)	3
	MGMT 44285	STRATEGIC MANAGEMENT	3
	Accounting or Finance Electives		6
	General Elective		1
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a broad fundamental knowledge of the theory and practice of investments, international business finance, business and corporate finance and financial markets and institutions.
2. Demonstrate the critical thinking skills needed to apply financial theory to specific business situations.
3. Demonstrate the skills needed to work effectively as a finance professional in a group or task force environment.
4. Demonstrate the computer skills needed to successfully employ commonly used software packages (specifically, spreadsheet, word processing and presentation software) in the performance of their duties as finance professionals.

Students earning a B.B.A. degree in Ambassador Crawford College of Business and Entrepreneurship are expected to have the following:

1. Core Business Knowledge - Recall the strategic frameworks that are used to make business decisions.
2. Analytical Skills - Use analytical methodologies and critical thinking skills to evaluate and solve business problems. Articulate and deliberate their ideas in writing.
3. Digital Technology – Demonstrate the technological skills necessary to analyze business problems and develop solutions.
4. Written Communication - Write effective business communications.
5. Oral Communication - Make effective business presentations, using appropriate technologies.
6. Teamwork – Collaborate effectively with others to achieve a common business purpose.
7. Business Ethics – Recognize ethical business dilemmas and use ethical decision making to resolve the dilemma.
8. Global - Analyze the key global factors when making business decisions.

Full Description

The Bachelor of Business Administration degree in Finance provides students with an academic background appropriate for entry into a financial career, including financial management, investments, banking/financial institutions, risk/insurance and related areas. The courses are designed to provide students with an understanding of the relationship between business finance and the economic system in the context of managerial analysis and decision making.

Finance students may apply early to the M.B.A. degree or to the Master of Arts in Economics degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information. The combined program with the Master of Arts in Economics degree requires a minimum 3.200 overall Kent State GPA.

Finance - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Finance
www.kent.edu/business/finance

About This Program

The Finance minor offers a comprehensive curriculum that prepares you for a career in finance, covering topics such as investment analysis, financial planning and risk management. With experienced faculty and a range of real-world opportunities, you'll graduate with the skills and knowledge needed to succeed in this dynamic field. Enroll now and give yourself a competitive edge in the finance industry. Read more...

Contact Information

- **William Billik, Ph.D.** | wbillik@kent.edu | 330-672-1201
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Finance minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26086	PRINCIPLES OF FINANCIAL MODELING (min C grade)	3
FIN 36053	BUSINESS FINANCE (min C grade)	3
FIN 36054	INTERMEDIATE CORPORATE FINANCE	3
or FIN 36059	INTERMEDIATE INVESTMENTS	
Minor Electives, choose from the following:		9
FIN 36051	THE FINANCIAL SYSTEM	
FIN 36054	INTERMEDIATE CORPORATE FINANCE	
FIN 36059	INTERMEDIATE INVESTMENTS	
FIN 36061	PRINCIPLES OF REAL ESTATE	
FIN 36072	LAW OF COMMERCIAL TRANSACTIONS	
FIN 36081	PRINCIPLES OF INSURANCE	
FIN 36086	ADVANCED FINANCIAL MODELING	
FIN 46054	FINANCIAL RISK MANAGEMENT	
FIN 46055	ADVANCED DERIVATIVE SECURITIES	
FIN 46056	ADVANCED FIXED INCOME MANAGEMENT	
FIN 46061	REAL ESTATE FINANCE	
FIN 46064	INTERNATIONAL BUSINESS FINANCE	
FIN 46067	ADVANCED PORTFOLIO ANALYSIS	

FIN 46068	COMMERCIAL BANK MANAGEMENT
FIN 46070	ADVANCED COMMERCIAL BANK MANAGEMENT
FIN 46072	BUSINESS FINANCIAL DISTRESS AND BANKRUPTCY
FIN 46089	INTERNATIONAL FINANCE EXPERIENCE (DIVG) (ELR)
FIN 46192	INTERNSHIP IN FINANCE (ELR)
Minimum Total Credit Hours:	**27**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- A minimum C grade may be required in some courses.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a fundamental knowledge of the theory and practice of finance.
2. Demonstrate the fundamental critical thinking skills needed to apply financial theory to specific business situations.
3. Demonstrate the fundamental computer skills needed to employ commonly used software packages (specifically, spreadsheet, word processing and presentation software) in the performance of their duties.

Full Description

The Finance minor allows students to gain some familiarity with financial management, as well as with the financial system of institutions and markets in which firms must operate. Some knowledge of finance is necessary to understand and work in most businesses and organizations. Profits and value creation are the “bottom lines” to which companies direct their efforts. Some acquaintance with investment techniques may help students in managing their personal finances.

The Finance minor is particularly useful for business students in other majors who take the requisite courses, and for other students who desire to acquire some understanding of finance without having to take all the core business school requisites. Both groups are exposed to important fundamentals, yet they also will have the flexibility to consider several areas of finance.

Financial Management - Graduate Certificate

Ambassador Crawford College of Business and Entrepreneurship
Department of Finance
www.kent.edu/business/finance

About This Program

The Financial Management graduate certificate allows students to gain specialized knowledge in the domain of finance.#Topics offered include basic financial management with electives in all areas, from international finance, investments (including derivative securities), real estate and financial law.

Students in the certificate can participate in the Golden Flash Asset Management Group, which manages $1.2 million in real university assets.

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- **Felecia Urbanek** | furbanek@kent.edu | 330-672-2282
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Financial managers

- 15.5% much faster than the average
- 697,900 number of jobs
- $134,180 potential earnings

Personal financial advisors

- 4.4% about as fast as the average
- 263,000 number of jobs
- $89,330 potential earnings

Financial and investment analysts, financial risk specialists, and financial specialists, all other

- 5.5% faster than the average
- 487,800 number of jobs
- $83,660 potential earnings

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcripts
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
FIN 66060	MANAGERIAL FINANCE	2
Certificate Electives, choose from the following:		9
FIN 56055	ADVANCED DERIVATIVE SECURITIES	
FIN 56056	ADVANCED FIXED INCOME MANAGEMENT	
FIN 56059	APPLIED FINANCIAL MANAGEMENT STRATEGIES	
FIN 56061	REAL ESTATE FINANCE	
FIN 56064	INTERNATIONAL BUSINESS FINANCE	
FIN 56067	ADVANCED PORTFOLIO ANALYSIS	
FIN 56280	GOLDEN FLASH ASSET MANAGEMENT DIRECTOR	
FIN 66040	INTERNATIONAL ISSUES IN BANKING AND FINANCE	
Minimum Total Credit Hours:		**11**

Progression Requirements

- Maintain good standing

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate effective financial management and leadership ability when presented with a dilemma or opportunity.
2. Identify and analyze financial management concerns that affect business decisions.
3. Create and communicate value for all stakeholders in the organization.

Department of Information Systems and Business Analytics

Ambassador Crawford College of Business and Entrepreneurship
Department of Information Systems and Business Analytics
402 Crawford Hall
Kent Campus
330-672-4750
www.kent.edu/business/information-systems-business-analytics

Undergraduate Programs

- Business Analytics - B.B.A.
- Computer Information Systems - B.B.A.

Undergraduate Minors

- Computer Information Systems

Graduate Programs

- Business Analytics - M.S.

Graduate Certificates

- Business Analytics
- Quantitative Business Management

Department of Information Systems and Business Analytics Faculty

- Akpan, Ikpe A. (2012), Professor, Ph.D., Lancaster University, 2006
- Asadi, Shahla (2023), Assistant Professor, Ph.D., University Of Technology - Malaysia, 2017
- Benitez, Jose A. (2023), Professor, Ph.D., University of Granada, 2009
- Berardi, Victor L. (1993), Associate Professor, Ph.D., Kent State University, 1998
- Brandyberry, Alan A. (2000), Professor, D.B.A., Southern Illinois University, Carbondale, 1995
- Datta, Pratim (2007), Professor, Ph.D., Louisiana State University, 2003
- Dragan, Natalia (2003), Associate Professor, Ph.D., Kent State University, 2010
- Kamali Ardakani, Mostafa (2022), Associate Professor, Ph.D., Catholic University of America, 2014
- Kwak, Dong-Heon (2014), Associate Professor, Ph.D., University of Wisconsin, Milwaukee, 2014

- Liu, Li (2023), Assistant Professor, Ph.D., University of North Carolina-Charlotte, 2019
- Liu, Si (2024), Assistant Professor, Ph.D., McMaster University, 2024
- Offodile, Onyebuchi F. (1988), Professor, Ph.D., Texas Tech University, 1984
- Patuwo, Eddy B. (1988), Professor, Ph.D., Virginia Polytechnic Institute and State University, 1989
- Polites, Greta L. (2012), Professor, Ph.D., University of Georgia, 2009
- Razavi, Rouzbeh (2017), Associate Professor, Ph.D., University of Essex, 2008
- Uprety, Dambar (2022), Assistant Professor, Southern Illinois University-Carbond, 2016
- Wu, Chaojiang (2019), Associate Professor, Ph.D., University of Cincinnati, 2013
- Zhu, Yi (2024), Assistant Professor, Ph.D., University of Minnesota-Twin Cities, 2024

Business Analytics (BA)

BA 24056 BUSINESS ANALYTICS I 3 Credit Hours
(Equivalent to BMRT 21004) Introduction to concepts in statistical methods and their applications to real world problems. Examines both the theoretical and practical side of the different methods.
Prerequisite: MATH 11010 or MATH 11012 or MATH 12002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

BA 34055 COMPUTER DECISION MODELING 3 Credit Hours
Introduces students to the scientific decision-making tools of operations research and management science, and also to the use of spreadsheet modeling for problem formulation and solution without the need for mathematics. The concepts of modeling and better decision making are stressed along with illustrations from the various functional areas of business. Course not open to computer information systems majors.
Prerequisite: CIS 24053 or IT 11000; and BA 24056 or MATH 10041 or BMRT 21004; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34059 SERVICE OPERATIONS MANAGEMENT 3 Credit Hours
Provide students with the concepts and tools necessary to effectively manage service operations and to prepare students for management opportunities in service firms that represent the fastest-growing sector of the economy. The service management will be presented from an integrated viewpoint with a focus on customer satisfaction. The course materials are organized around four modules (1) understanding services (2) designing the service enterprise, (3) managing service operations and (4) toward world class-service.
Prerequisite: BA 34060; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34060 OPERATIONS MANAGEMENT 3 Credit Hours
A survey course in operations management that covers the managerial concepts and the quantitative tools used in the design, planning operation and control of operations systems.
Prerequisite: CIS 24053 or IT 11000; and BA 24056 or MATH 10041 or BMRT 21004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34064 MANUFACTURING RESOURCE PLANNING 3 Credit Hours
Introduce students to the basic tools operations managers use to inform their decisions on a daily basis. The course involves hands-on coverage of manufacturing resource planning tools, including forecasting and master production schedules, bill of materials structuring, order entry and purchasing, capacity requirements planning, routing, costing, customer service, shipping, invoicing and using an enterprise resource planning (ERP) software.
Prerequisite: BA 34060; and minimum 2.500 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34065 QUALITY ASSURANCE 3 Credit Hours
Introduction to importance of quality assurance and tools used to accomplish better quality in goods and services. Topics TQM, Six Sigma, quality philosophies, sampling plans and statistical process control, ISO, quality competition and awards.
Prerequisite: BA 34060; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 34156 BUSINESS ANALYTICS II 3 Credit Hours
Course provides an introduction and application of business analytics to real-world problems. Students are exposed to methods and models that allows business users to make better decisions based on data. Discussed are methods for collecting, cleaning and visualizing data, linear, non-linear and optimization models to help decision makers choose the best decision, and some advanced forms of modeling. The goal of this course is for students to be exposed to essential topics in business analytics and to apply these techniques to real-world problems.
Prerequisite: BMRT 21004 or MATH 10041 or BA 24056.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44011 SYSTEMS SIMULATION 3 Credit Hours
(Slashed with BA 54011) Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulations studies, analysis and interpretation of results.
Prerequisite: BA 24056 or MATH 10041.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44038 ANALYTICS IN PRACTICE 3 Credit Hours
Course focuses on supporting techniques and managerial and professional skills necessary to being an effective business analyst. Other topics include project management, requirements analysis, change management, team dynamics, leadership, ethics and effective communication between all stakeholders.
Prerequisite: BA 34156.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44050 DATA VISUALIZATION 3 Credit Hours
(Slashed with BA 54050) Introduces students to data visualization, and specifically, how to use visualization to communicate information effectively from data. All aspects of effective data visualization, including understanding the context, choosing appropriate graphs and visuals, and communicating the information from data will be considered. While theoretical aspects of effective visualizations will be covered, the focus will be on implementing such designs. Concentrating significantly on the practice of effective visualizations.
Prerequisite: BA 24056 or MATH 10041; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44051 MACHINE LEARNING 3 Credit Hours
Machine Learning is one of the required courses for the Bachelor of Business Analytics (BANA) program. In this course, students learn the fundamentals of machine learning as applied to business problems. Specifically, the course concentrates on regression and classification methods, including regression, random forests, boosting trees, and neural networks, on unsupervised learning including k-means and hierarchical clustering, and on recommendation systems, and ensemble learning.
Prerequisite: BA 34156; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44052 TEXT ANALYSIS AND NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Slashed with BA 54052) Course is designed to provide students with a comprehensive understanding of how to analyze unstructured text data for actionable business insights. The course explores essential techniques in text analytics, ranging from basic Natural Language Processing (NLP) to advanced machine learning and deep learning models. The curriculum covers a variety of topics such as sentiment analysis, text classification, and feature engineering, along with cutting-edge methodologies like topic modeling and transformer models. Furthermore, the course delves into real-world applications of text analytics in various industries, including healthcare, finance and retail. Students will also examine the ethical considerations related to data privacy and bias in text analytics.
Prerequisite: BA 34156.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44061 OPERATIONS MANAGEMENT AND CONTROL 3 Credit Hours
Introduces the student to the key functions of an operations planning and control system. Operations planning and control systems provide information for the efficient flow of materials, the effective utilization of people and equipment and the proper coordination of internal activities with suppliers and customers.
Prerequisite: Minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44062 SUPPLY CHAIN MANAGEMENT 3 Credit Hours
Students learn the basic analytical tools needed to coordinate business operations across the value chain. Course involves hands-on coverage of supply chain management with emphasis on supplier partnering and development, customer relations management, strategic sourcing and pricing, e-business, measuring supply chain performance, mass customization, planning supply and demand coordination in the supply chain.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 44065 STRATEGIES IN PRODUCTION AND OPERATIONS MANAGEMENT (WIC) 3 Credit Hours
Senior project in industrial management. Applies concepts from all prior coursework to the solution of real and simulated operating problems.
Prerequisite: Minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

BA 44092 INTERNSHIP IN BUSINESS ANALYTICS (ELR) 3 Credit Hours
(Repeatable for credit) A supervised field experience at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on-the-job experiences.
Prerequisite: BA 34156.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BA 44099 CAPSTONE IN BUSINESS ANALYTICS (ELR) (WIC) 3 Credit Hours
In this culminating project, students draw on the breadth and depth of the curriculum to address an industry supplied problem individually or in small teams. Specifically, students will improve, and present their solutions to their respective stakeholders, who will grade your final presentation and report.
Prerequisite: BA 44051; and senior standing.
Pre/corequisite: BA 44050.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

BA 44152 PROJECT MANAGEMENT 3 Credit Hours
This course covers the fundamental concepts, procedures and processes related to managing projects from initiation through planning, execution and closing. It also introduces the principles, tools and methods used in project management, and the use of project management software (ProjectLibre) in managing projects. The topics covered in the course can be helpful in preparing for Project Management Professional (PMP) certification.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 54038 ANALYTICS IN PRACTICE 3 Credit Hours
Course focuses on supporting techniques and managerial and professional skills necessary to being an effective business analyst. Other topics include project management, requirements analysis, change management, team dynamics, leadership, ethics and effective communication between all stakeholders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 54050 DATA VISUALIZATION 3 Credit Hours
(Slashed with BA 44050) Introduces students to data visualization, and specifically, how to use visualization to communicate information effectively from data. All aspects of effective data visualization, including understanding the context, choosing appropriate graphs and visuals, and communicating the information from data will be considered. While theoretical aspects of effective visualizations will be covered, the focus will be on implementing such designs. Concentrating significantly on the practice of effective visualizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 54052 TEXT ANALYSIS AND NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Slashed with BA 44052) Course is designed to provide students with a comprehensive understanding of how to analyze unstructured text data for actionable business insights. The course explores essential techniques in text analytics, ranging from basic Natural Language Processing (NLP) to advanced machine learning and deep learning models. The curriculum covers a variety of topics such as sentiment analysis, text classification, and feature engineering, along with cutting-edge methodologies like topic modeling and transformer models. Furthermore, the course delves into real-world applications of text analytics in various industries, including healthcare, finance and retail. Students will also examine the ethical considerations related to data privacy and bias in text analytics.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64005 ANALYTICS FOR DECISION MAKING 2 Credit Hours
Course uses computer capabilities to analyze and understand a variety of statistical and business analytics techniques and how to apply these techniques to solving business problems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BA 64018 QUANTITATIVE MANAGEMENT MODELING 3 Credit Hours
A variety of optimization and heuristic modeling techniques are explored. Decision-making environments, model selection, and interpretation are emphasized. Various linear and nonlinear mathematical programming techniques are the primary topic but are supplemented with other optimization and heuristic techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64026 SUPPLY CHAIN MANAGEMENT 2 Credit Hours
Introduces the knowledge base needed to coordinate business operations across firms' supply chains. Addresses how to integrate traditional business operations to align them in support of inter-firm collaboration required to compete globally. It covers specific topics relevant to supply chain management and offers a managerial orientation towards supporting supply chain operations. It immerses students into responsible operations and supply chain best practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BA 64036 BUSINESS ANALYTICS 3 Credit Hours
Overview of business analytics and its appropriate applications in various industries and functional areas. Critical thinking, problem definition, problem solving, effective communication, and leadership are emphasized. Methods such as data visualization and descriptive, predictive, and prescriptive analytics are covered from a broad perspective. This course is applied, hands-on, and case-based. Cases emphasize the communication of quantitative solutions to laypeople and required leadership during decision-making and implementation stages.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64037 ADVANCED DATA MINING AND PREDICTIVE ANALYTICS 3 Credit Hours
Course extends the coverage of data mining and predictive analytics. Topics focus on the applied use of these techniques in realistic settings. Covers statistical and machine learning techniques.
Prerequisite: BA 64036 or BA 64060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64060 FUNDAMENTALS OF MACHINE LEARNING 3 Credit Hours
(Slashed with BA 74060) In this course, students learn fundamentals of machine learning. Specifically, concentrating on classification modelling, segmentation and clustering and recommendation systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64061 ADVANCED MACHINE LEARNING 3 Credit Hours
Introduction to deep learning and time series data analysis. Students consider applications of deep learning to computer vision, text analysis and sequences, and time series data.
Prerequisite: BA 64060; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64082 DATABASE MANAGEMENT AND DATABASE ANALYTICS 3 Credit Hours
(Slashed with BA 74082) The design, implementation and management of database management systems within organizations are studied from an applied perspective. Additional emphases include data warehousing, structured query language for analytics and introductions to NoSQL databases and big data analytics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 64092 INTERNSHIP IN BUSINESS ANALYTICS 3 Credit Hours
(Repeatable for credit) A supervised field experience at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on-the-job experiences.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

BA 64099 CAPSTONE PROJECT IN BUSINESS ANALYTICS 3 Credit Hours
(Repeatable for credit) In this culminating project, students draw on the breadth and depth of the curriculum to address an industry supplied problem individually or in small teams. Projects will explore prescriptive analytics as is appropriate to their design project.
Prerequisite: BA 64036 or BA 64060; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

BA 74037 ADVANCED DATA MINING AND PREDICTIVE ANALYTICS 3 Credit Hours
(Slashed with BA 64037) Course extends the coverage of data mining and predictive analytics. Topics focus on the applied use of these techniques in realistic settings. Covers statistical and machine learning techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 74060 FUNDAMENTALS OF MACHINE LEARNING 3 Credit Hours
(Slashed with BA 64060) In this course, students learn fundamentals of machine learning. Specifically, concentrating on classification modelling, segmentation and clustering and recommendation systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 74061 ADVANCED MACHINE LEARNING 3 Credit Hours
(Slashed with BA 64061) Introduction to deep learning and time series data analysis. Students consider applications of deep learning to computer vision, text analysis and sequences and time series data.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BA 74082 DATABASE MANAGEMENT AND DATABASE ANALYTICS 3 Credit Hours
(Slashed with BA 64082) The design, implementation and management of database management systems within organizations are studied from an applied perspective. Additional emphases include data warehousing, structured query language for analytics and introductions to NoSQL databases and big data analytics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Computer Information Systems (CIS)

CIS 24053 INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES 3 Credit Hours
(Equivalent to IT 11000) This foundational course introduces students to hands-on application of contemporary information systems and digital technologies. From personal devices to cloud infrastructure and traditional office applications to cloud and enterprise systems. Students learn important concepts and theories and begin building their inventory of technical skills to solve problems for immediate application, to earn industry-valued certifications and to prepare for advanced coursework.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

CIS 24065 WEB PROGRAMMING 3 Credit Hours
Principles of visual design as applied to Web site interface development. The course exposes students to the basics of programming and relational database and how to develop a Web-based database driven interactive information system.
Prerequisite: CIS 24053.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 24093 VARIABLE TITLE WORKSHOP IN MANAGEMENT AND INFORMATION SYSTEMS 1-6 Credit Hours
(Repeatable for credit) Special workshop in management and information systems. Credits depend on scope of project.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CIS 24167 CLOUD INFRASTRUCTURE AND APPLICATIONS 3 Credit Hours
Information systems is critical to the efficient operation of any organization today, such as in hiring employees, performing background checks, ordering/creating products, transacting businesses, and providing follow-up services, among others. These can be large "integrated systems" or ERPs or loose collection of "Apps." This class explores the various alternatives available today and the likely future of new products in the future. Different viewpoints and debates will be explored in the class with opportunities for students to discuss and present their thoughts.
Prerequisite: Minimum C+ grade in CIS 24053; and minimum 2.250 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34032 DATA AND FILE TECHNOLOGY 3 Credit Hours
An introduction to file architecture and data base management systems. The application of these technologies is detailed.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34034 BUSINESS MODELING AND AGILE DESIGN 3 Credit Hours
Introduction to innovative modeling and reengineering methods, tools, and techniques such as Agile and SCRUM methods to analyze real-world business problems and offer solutions using existing and emerging digital technologies such as artificial intelligence, smart devices (Internet of Things), cybersecurity and the metaverse/augmented reality/eXtensible reality.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34045 SMALL SYSTEMS TECHNOLOGY 3 Credit Hours
An examination of the role of small computer systems within an organization's information systems environment.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34054 USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS 3 Credit Hours
Digital technologies are dramatically changing businesses and societies. Students will learn about how information systems (IS) are impacting various facets of business and society. Students will also learn about emerging digital technologies such as artificial intelligence, business data analytics, cryptocurrencies and FinTechs, smart devices, cybersecurity, and digital transformation with hands-on assignments related to building and delivering digital innovations for business and society.
Prerequisite: CIS 24053 or IT 11000; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 34167 DESIGNING INNOVATIVE PROGRAMS AND APPS 3 Credit Hours
Course on front-end (client-side or user) design exposes students to the process of interface design, starting with the development of mobile-first interface prototypes using techniques such as wireframing and fun coding with HTML, CSS, JavaScript and JQuery. This course may offer certification opportunities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44008 MANAGING AGILE DIGITAL TRANSFORMATION PROJECTS 3 Credit Hours
(Slashed with CIS 54008) Drawn on the modern foundations of software development, this course will offer an overview and hands-on experience of the agile methodologies and techniques (e.g., Scrum, extreme programming) to support the agile implementation of digital transformation projects/strategies in organizations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44040 DESIGNING INNOVATIVE SERVER-SIDE SYSTEMS 3 Credit Hours
Course, on back-end (server-side) design, exposes students to the process of linking the front-end client interfaces to work with powerful servers that perform the magic in the background. Students will be exposed to topics such as server-side and serverless computing, and will use modern web languages such as but not limited to Python, NodeJS, Angular, React and Vue.
Prerequisite: CIS 34167.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44041 MANAGING CYBERSECURITY 3 Credit Hours
(Slashed with CIS 54041) Course explores digital technologies and business issues related to cybersecurity management. It offers the foundations to understand the cybersecurity threats and privacy risks embedded in the implementation of emerging digital technologies (e.g., artificial intelligence, smart devices, collaborative tools) and the execution of digital transformation projects/strategies. The course will also facilitate the development of technological skills to design, implement, and evaluate cybersecurity policies in organizations. The course offers certification opportunities.
Prerequisite: CIS 24053 and CIS 34054 with a minimum C+ grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44042 NETWORK THEORY AND APPLICATIONS 3 Credit Hours
Presentation of current and emerging network technologies and services in business applications and performance issues. Topics include transmission media, modulation and signaling schemes, switching and multiplexing techniques, local and wide area network protocols and standards, and internetworking devices.
Prerequisite: Minimum C+ grade in CIS 24053 and C grade in CIS 24065; and minimum overall 2.250 GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44043 DATABASE DESIGN AND DATA GOVERNANCE 3 Credit Hours
Databases provide the fundamental foundation for modern IT applications. Students will learn the basics of database design by working with relational SQL and NoSQL databases in a hands-on environment. Students will also learn to integrate data governance fundamentals into their database designs.
Prerequisite: CIS 34167.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44046 HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION 3 Credit Hours
(Slashed with CIS 54046) Course will cover some of the latest trends and future predictions for business value creation from digital technology investments in companies. This course has two key objectives. First, it will provide students with the theoretical foundations and techie-savvy managerial skills to create business value from their digital technology investments. Second, it will examine the digital technology selection, usage, exploitation and growth for different purposes (e.g., transformation, innovation and getting a competitive advantage). The course offers certification opportunities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44048 BUILDING SOLUTIONS FOR BUSINESSES (ELR) (WIC) 3 Credit Hours
Just like in industry, students will learn to work together in teams composed of information systems (IS) managers and IS designers to develop fully workable innovative projects (using existing and emerging technologies such as AI, smart devices (IoTs), cybersecurity and XR (eXtensible reality) for a real client. Students will use their diverse knowledge and previous learning as well as articulate their IT-based business solutions for business via "writing-intensive" industry-white papers and client-facing presentations, with regular instructor guidance and feedback.
Prerequisite: Minimum 2.250 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CIS 44093 VARIABLE TITLE WORKSHOP IN MANAGEMENT AND INFORMATION SYSTEMS 1-6 Credit Hours
(Repeatable for credit) Variable title workshop courses offered under Computer Information Systems.
Prerequisite: Minimum 2.25 overall GPA.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CIS 44095 SPECIAL TOPICS IN COMPUTER INFORMATION SYSTEMS 3 Credit Hours
(Repeatable for credit) Offered on a semester basis with different CIS topics and different faculty involved each time the course if offered.
Prerequisite: Minimum 2.250 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44151 INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CIS 54151) Students, in teams, will learn how to build agile and fast prototypes using "low-code, no-code" programming, artificial intelligence, Microsoft Power BI, and Microsoft Power Automate to digitally convert and create digital-first workflows and AI-based solutions with emphasis on requirements engineering and feasibility planning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 44292 BUSINESS EXPERIENCE AND INTERNSHIP (ELR) 3 Credit Hours
(Repeatable for credit) Learning by experience and practice in an IT related company. The course exposes students to the various areas and activities related to the information systems profession in a cooperating organization.
Prerequisite: Minimum C+ grade in CIS 24053; and minimum 2.250 overall GPA.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CIS 44293 WORKSHOP IN PROFESSIONAL INFORMATION SYSTEMS CERTIFICATION 3 Credit Hours
(Repeatable for Credit) Supervised workshop designed to help students pass at least one VMware, Microsoft or other vendors' professional certification credentials. The student chooses the exam to take, with the course providing a supported self-study opportunity to prepare for the exam.
Prerequisite: Minimum C+ grade in CIS 24053; and minimum 2.250 overall GPA.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Standard Letter

CIS 44295 SPECIAL TOPICS IN INFORMATION SYSTEMS 3 Credit Hours
(Slashed with CIS 54295) (Repeatable for credit) Special topics course on the newest advances in information systems and how they support business activities. New and emerging topics in information systems are presented experimentally, with the content of the course changing from one offering to another.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54008 MANAGING AGILE DIGITAL TRANSFORMATION PROJECTS 3 Credit Hours
(Slashed with CIS 44008) Drawn on the modern foundations of software development, this course will offer an overview and hands-on experience of the agile methodologies and techniques (e.g., Scrum, extreme programming) to support the agile implementation of digital transformation projects/strategies in organizations.
Prerequisite: Graduate standing; or special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54041 MANAGING CYBERSECURITY 3 Credit Hours
(Slashed with CIS 44041) Course explores digital technologies and business issues related to cybersecurity management. It offers the foundations to understand the cybersecurity threats and privacy risks embedded in the implementation of emerging digital technologies (e.g., artificial intelligence, smart devices, collaborative tools) and the execution of digital transformation projects/strategies. The course will also facilitate the development of technological skills to design, implement, and evaluate cybersecurity policies in organizations. The course offers certification opportunities.
Prerequisite: Admission to MBA or MSBA program; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54046 HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION 3 Credit Hours
Course will cover some of the latest trends and future predictions for business value creation from digital technology investments in companies. This course has two key objectives. First, it will provide students with the theoretical foundations and techie-savvy managerial skills to create business value from their digital technology investments. Second, it will examine the digital technology selection, usage, exploitation and growth for different purposes (e.g., transformation, innovation, and getting a competitive advantage). The course offers certification opportunities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54151 INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CIS 44151) Students, in teams, will learn how to build agile and fast prototypes using "low-code, no-code" programming, artificial intelligence, Microsoft Power BI and Microsoft Power Automate to digitally convert and create digital-first workflows and AI-based solutions with emphasis on requirements engineering and feasibility planning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 54295 SPECIAL TOPICS IN INFORMATION SYSTEMS 3 Credit Hours
(Slashed with CIS 44295) (Repeatable for credit) Special topics course on newest advances in information systems and how they support business activities. New and emerging topics in information systems are presented experimentally, with the content of the course changing from one offering to the another.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 64042 GLOBALIZATION AND TECHNOLOGY STRATEGY 2 Credit Hours
This course is designed for anyone dealing with technology in a globalized economy. Technology is pervasive in today's globalized world. Given that technology is central to every business operation, learning to manage technology in a global context is crucial. This course uses technology management as the central cog that impacts multiple business and social facets, including digital transformation, cybersecurity, international operations, sustainability, marketing, finance, culture, human capital and the political economy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CIS 74042 GLOBALIZATION AND TECHNOLOGY STRATEGY 3 Credit Hours
Focus is on the strategic issues around how a firm should manage its technology in a global market. Strategic issues include understanding the technological and competitive landscape, innovations, competitive advantages in the high-tech marketplace, outsourcing and information ethics. The core emphasis in on integrated decision-making in the age of globalization.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84008 THEORY DEVELOPMENT IN INFORMATION SYSTEMS RESEARCH 3 Credit Hours
Course offers the core foundations for theorizing in Information Systems research and provides the platform to develop world-class scientific skills to identify a relevant business and research problem to formulate compelling research questions. Students will learn the key ingredients of a theory and the approaches to building a theory. They will also understand the distinctions between variance and process models and how to build multilevel theories and use multidimensional constructs. They will assimilate the ingredients of a theory including constructs, measures, functional forms of relationships, assumptions and boundary conditions. Students will also discover how to leverage context and time in theory development in Information Systems research. While this course can be useful for doctoral students from other Business Administration or Social Sciences disciplines.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84009 ARTIFICIAL INTELLIGENCE AND CYBERSECURITY MANAGEMENT 3 Credit Hours
Course is designed to provide a comprehensive understanding of how AI technologies are transforming the landscape of cybersecurity, posing new challenges and opportunities for organizations. Students engage with a range of topics, from the fundamentals of AI and machine learning to advanced cybersecurity strategies, ethical considerations and policy development. Course emphasizes critical thinking and research skills, enabling students to analyze complex scenarios. Through a blend of theoretical knowledge and practical applications, students learn how AI algorithms can be employed for threat detection, risk management and response automation. They also examine the vulnerabilities and ethical concerns AI introduces into cybersecurity, such as biases in AI algorithms and the potential for AI-driven cyber attacks. Course prepares students to conduct and publish high-quality research in AI and cybersecurity management. It aims to cultivate a new generation of scholars and practitioners who can navigate and shape the future of cybersecurity in an AI-driven world.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84083 THE BRIGHT AND DARK SIDES OF DIGITAL TECHNOLOGIES 3 Credit Hours
Course meticulously explores the dual facets of the bright and dark sides of digital technologies. Covering a wide array of emerging technologies (Internet of Things), ethical considerations (data privacy, algorithmic bias) and theoretical frameworks (digital responsibility and socio-technical systems). Students will gain a profound understanding of the forefront of IS research. Course will also explore the various bright (digital responsibility, inclusion, accessibility) and dark sides (technostress, digital addiction, online harassment) of digital technologies at both individual (employees, individuals, customers) and organizational levels, with a primary focus on the individual.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84084 BUSINESS VALUE OF DIGITAL TRANSFORMATION 3 Credit Hours
Doctoral seminar is to investigate behavioral and managerial issues in the field of information systems-based digital transformation. The substantive domain of this digital transformation will emphasize what social scientists investigate with the organization as the unit of analysis. Course offers an in-depth exploration into the intersection of digital technology, strategic management and economic theory within these industries. It will provide students with a comprehensive understanding of how digital transformation drives value creation, influences competitive advantage and redefines business models in high-technology sectors. Students will gain a nuanced perspective on the transformative power of digital technologies. Students will explore the basis of strategy, deployment and competition in both legacy industries and high-technology industries and be introduced to conceptual frameworks based on cutting-edge research in economics and strategy. Students will learn how to develop and apply such frameworks in their research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CIS 84095 SPECIAL TOPICS IN INFORMATION SYSTEMS RESEARCH 3 Credit Hours
(Repeatable for credit) Variable content of relevance to IS research. Exact topics will be announced when scheduled.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Business Analytics - B.B.A.

Ambassador Crawford College of Business and Entrepreneurship
Department of Information Systems and Business Analytics
www.kent.edu/business

About This Program

Our program equips you with the skills and knowledge needed to analyze complex business data and make informed decisions that drive success. With access to cutting-edge technology and expert faculty, you'll gain hands-on experience in data mining, predictive analytics and more. Enroll now and take the first step towards a rewarding career in business analytics. Read more...

Contact Information

- **Mostafa Ardakani** | mkamalia@kent.edu | 330-672-1100
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Operations research analysts

- 24.8% much faster than the average
- 105,100 number of jobs
- $86,200 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer Student: A minimum 2.000 overall GPA is required for admission into the major. Students who have previously attended Kent State who completed (or the equivalent of) COMM 15000, ENG 21011 and/or MATH 11010 must have earned a minimum C grade in the courses, and a minimum C grade in BA 24056.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BA 34156	BUSINESS ANALYTICS II (min C grade)	3
BA 44038	ANALYTICS IN PRACTICE (Min C grade)	3
BA 44050	DATA VISUALIZATION (min C grade)	3
BA 44051	MACHINE LEARNING (min C grade)	3
BA 44099	CAPSTONE IN BUSINESS ANALYTICS (ELR) (WIC) (min C grade)	3
CIS 44043	DATABASE DESIGN AND DATA GOVERNANCE (min C grade)	3
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES (min C grade in all courses)	3-4
or EMAT 10010	TECHNOLOGY, EXPERIENCE DESIGN AND SOCIETY	
or EMAT 25310	CREATIVE CODING	
Major Electives, choose from the following: (min C grade)		6
ACCT 43009	ACCOUNTING DATA ANALYTICS	
BA 34060	OPERATIONS MANAGEMENT	
BA 44052	TEXT ANALYSIS AND NATURAL LANGUAGE PROCESSING	
BA 44092	INTERNSHIP IN BUSINESS ANALYTICS (ELR)	
CIS 34167	DESIGNING INNOVATIVE PROGRAMS AND APPS	
CIS 44008	MANAGING AGILE DIGITAL TRANSFORMATION PROJECTS	
CIS 44046	HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION	
CIS 44151	INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE	
EMAT 32210	DATA IN EMERGING MEDIA AND TECHNOLOGY	
EMAT 40999	INTERDISCIPLINARY PROJECTS (ELR)	
EMAT 41610	DIGITAL SYSTEMS SECURITY	
FIN 36086	ADVANCED FINANCIAL MODELING	
HRM 44763	HUMAN RESOURCE ANALYTICS AND ERP SYSTEMS	
MKTG 35061	MARKETING ANALYTICS	
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I (min C grade) [4]	3
BA 44062	SUPPLY CHAIN MANAGEMENT	3
BUS 10123	EXPLORING BUSINESS [2]	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES (min C grade)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 44285	STRATEGIC MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10001	FLASHES 101	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Mathematics or Critical Reasoning Elective, choose from the following: [3]		3-5
MATH 10051	QUANTITATIVE REASONING (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	

MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	
Kent Core Composition (min C grade)		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		16
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] A student changing to a program in the college, transferring, or an incoming student with prior college credit, may be waived out of BUS 10123 if:

- 30 or more credit hours have been earned and any two courses (from ACCT 23020, ACCT 23021, CIS 24053, FIN 26074, MGMT 24163 or MKTG 25010) have successfully been completed.
- 60 or more credit hours have been earned and one course (from ACCT 23020, ACCT 23021, CIS 24053, FIN 26074, MGMT 24163 or MKTG 25010) have successfully been completed.
- At the discretion of the dean's office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.

[3] Taking MATH 10051 or PHIL 21002 will not replace a low grade in either MATH 11012 or MATH 12002. Students are required to take MATH 11012 or MATH 12002 if they change their major to, or want to double major with, the Economics major or Finance major and/or intend to declare the Data Analytics minor. Students who intend to enroll in certain graduate programs and/or are working toward Phi Beta Kappa status are highly encouraged to take MATH 11012 or MATH 12002.

[4] Students who have taken MATH 10041 for another program may use it as a substitute for BA 24056.

[5] Minimum C grade required in ENG 21011 or HONR 20197.

[6] A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

Progression Requirements

- Minimum 2.000 overall GPA.
- Minimum C grade in the following courses: CIS 24053 and COMM 15000 and ENG 21011 (or HONR 20197) and MATH 11010 (or placement out of MATH 11010) and, BA 24056.
- Minimum C grade in all major requirements.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students must complete a minimum 50 percent of business credit hours in-residence on a Kent State University campus.
- Students must complete at least 50 percent of their major credit hours in residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the college for complete satisfaction of the B.B.A. degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Mathematics or Critical Reasoning Elective		3-5
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Major Elective		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
BA 34156	BUSINESS ANALYTICS II	3
BA 44062	SUPPLY CHAIN MANAGEMENT	3
CS 10062 or EMAT 10010 or EMAT 25310	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES or TECHNOLOGY, EXPERIENCE DESIGN AND SOCIETY or CREATIVE CODING	3-4
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Six		
BA 44038	ANALYTICS IN PRACTICE	3

BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 44043	DATABASE DESIGN AND DATA GOVERNANCE	3
FIN 36053	BUSINESS FINANCE	3
General Elective		3
	Credit Hours	**15**
Semester Seven		
BA 44050	DATA VISUALIZATION	3
BA 44051	MACHINE LEARNING	3
Major Elective		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Eight		
BA 44099	CAPSTONE IN BUSINESS ANALYTICS (ELR) (WIC)	3
MGMT 44285	STRATEGIC MANAGEMENT	3
General Electives		7
	Credit Hours	**13**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand how to acquire and transform data for analysis.
2. Understand how to use data to predict business outcomes.
3. Provide leadership and decision-making abilities using analytic tools in different business contexts.

Students earning a B.B.A. degree in Ambassador Crawford College of Business and Entrepreneurship are expected to have developed skills in the following critical areas of business:

1. Core Business Knowledge - Recall the strategic frameworks that are used to make business decisions.
2. Analytical Skills - Use analytical methodologies and critical thinking skills to evaluate and solve business problems.
3. Digital Technology – Demonstrate the technological skills necessary to analyze business problems and develop solutions.
4. Written Communication - Write effective business communications.
5. Oral Communication - Make effective business presentations, using appropriate technologies.
6. Teamwork – Collaborate effectively with others to achieve a common business purpose.
7. Business Ethics – Recognize ethical business dilemmas and use ethical decision making to resolve the dilemma.
8. Global - Analyze the key global factors when making business decisions.

Full Description

The Bachelor of Business Administration degree in Business Analytics provides students with understanding of the diverse knowledge they need to be effective business data analysts. The focus of the major is to develop students who will understand and be able to apply business analytics to real-world problems.

While the major's curriculum builds student expertise from theory, the focus is the practical application of the analytics knowledge. Therefore, the major primarily emphasizes problem-solving with data for strategic business decision-making using various analytics tools such as data visualization and machine-learning technologies. Examples of business analytics applications include marketing analysis or segmentation, city planning, delivery logistics, risk management, security and healthcare management.

Graduates from the program will be in demand for entry-level analytics positions in the workforce.

Business analytics students may apply early to either the M.B.A. degree or the M.S.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/ Master's Degree Program Policy in the University Catalog for more information.

Business Analytics - Graduate Certificate

Ambassador Crawford College of Business and Entrepreneurship
Department of Information Systems and Business Analytics
www.kent.edu/business

About This Program

In today's data-driven business landscape, the ability to analyze and interpret data is a crucial skill. Our graduate certificate in Business Analytics equips you with the tools and knowledge to collect, process and analyze data, and use it to make informed business decisions. You'll learn how to use the latest analytics software, apply statistical methods and develop insights that can transform organizations. Read more...

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- **Tamere Massey** | tmassey2@kent.edu | 330-672-1225
- **Rouzbeh Razavi** | rrazavi@kent.edu | 330-672-1155

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Chief executives

- -10.0% decline
- 287,900 number of jobs
- $185,950 potential earnings

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

General and operations managers

- 5.8% faster than the average
- 2,486,400 number of jobs
- $103,650 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Operations research analysts

- 24.8% much faster than the average
- 105,100 number of jobs
- $86,200 potential earnings

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Requirements

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
BA 64036	BUSINESS ANALYTICS	3
BA 64060	FUNDAMENTALS OF MACHINE LEARNING	3
Certificate Electives, choose from the following:		6
BA 54038	ANALYTICS IN PRACTICE	
BA 54050	DATA VISUALIZATION	
BA 54052	TEXT ANALYSIS AND NATURAL LANGUAGE PROCESSING	
BA 64018	QUANTITATIVE MANAGEMENT MODELING	

BA 64082	DATABASE MANAGEMENT AND DATABASE ANALYTICS	
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Develop proficiency in the framing of business and analytics problems.
2. Provide leadership and decision-making abilities using analytics tools in different business contexts throughout the model lifecycle.
3. Develop competencies in identifying data needs and sources, data acquisition and the cleaning and refining of data for analytical processing.
4. Develop competencies in analytical model selection, software selection and model building.
5. Develop competencies in deploying, validating and interpreting analytical solutions.

Full Description

The Business Analytics graduate certificate provides individuals — especially those without analytics job titles or responsibilities but with the burning desire for the field — the opportunity to familiarize themselves with this ever-growing and versatile discipline. The certificate program also enables these individuals to augment their knowledge base beyond their chosen professions and improve their value to their employers and businesses, or marketability if they choose to change jobs.

The premise of the certificate program is to provide graduates a firm grasp of important analytical techniques and the knowledge of how to best implement, interpret and communicate them in a variety of business contexts. This goal is pursued using a "Three-Foci Model" design that integrates data analysis, information and data management and decision-making and leadership. This model can be summarized as encompassing analytics technologies, techniques and decision-making processes.

Business Analytics - M.S.

Ambassador Crawford College of Business and Entrepreneurship
Department of Information Systems and Business Analytics
www.kent.edu/business

About This Program

Unlock the power of data and advance your career with the Master of Science degree in Business Analytics. Our program provides students with the knowledge and skills needed to leverage data analytics to make informed business decisions. With coursework designed to build proficiency in data analysis, data mining and data visualization, graduates are well-prepared to meet the demands of today's data-driven business environment. With our certificate, you'll be prepared to pursue a career in data analytics, business intelligence or consulting. Read more...

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- **Tamere Massey** | tmassey2@kent.edu | 330-672-1225
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Chief executives

- -10.0% decline
- 287,900 number of jobs
- $185,950 potential earnings

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

General and operations managers

- 5.8% faster than the average
- 2,486,400 number of jobs
- $103,650 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Operations research analysts

- 24.8% much faster than the average
- 105,100 number of jobs
- $86,200 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

Accreditation

AACSB International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university[1]
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] Students entering the program are expected to have the requisite backgrounds in statistics, mathematics, computers and business required for the program. At a minimum, students should have general knowledge of inferential statistics, adequate general business knowledge, basic knowledge of business information systems and technologies and a solid understanding of algebra and general mathematics with some exposure to calculus. Students may fulfill deficiencies in these prerequisites by taking BA 24056, CIS 24053, MATH 11012, MGMT 24163 or equivalents as applicable. The business analytics program director may consider concurrent enrollment according to the strength of the student's baccalaureate curriculum and preparedness and the courses proposed to be taken concurrently with the prerequisites.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 15 (international student) and June 15 (domestic student)
- **Spring Semester**
  - Application deadline: October 1 (international student) and December 1 (domestic student)

Applications submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BA 54038	ANALYTICS IN PRACTICE	3
BA 64018	QUANTITATIVE MANAGEMENT MODELING	3
BA 64036	BUSINESS ANALYTICS	3
BA 64037	ADVANCED DATA MINING AND PREDICTIVE ANALYTICS	3
BA 64060	FUNDAMENTALS OF MACHINE LEARNING	3
BA 64061	ADVANCED MACHINE LEARNING	3
BA 64082	DATABASE MANAGEMENT AND DATABASE ANALYTICS	3
Major Electives, choose from the following:		6
BA 54050	DATA VISUALIZATION	
BA 54052	TEXT ANALYSIS AND NATURAL LANGUAGE PROCESSING	
BA 64092	INTERNSHIP IN BUSINESS ANALYTICS	
BA 64099	CAPSTONE PROJECT IN BUSINESS ANALYTICS	
CIS 54008	MANAGING AGILE DIGITAL TRANSFORMATION PROJECTS	
CIS 54041	MANAGING CYBERSECURITY	
CIS 54046	HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION	
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	
CS 54201	ARTIFICIAL INTELLIGENCE	
CS 54202	MACHINE LEARNING AND DEEP LEARNING	
CS 61002	ALGORITHMS AND PROGRAMMING I	
CS 63005	ADVANCED DATABASE SYSTEMS DESIGN	
CS 63015	DATA MINING TECHNIQUES	
CS 63016	BIG DATA ANALYTICS	
CS 63017	BIG DATA MANAGEMENT	
CS 63018	PROBABILISTIC DATA MANAGEMENT	
CS 64201	ADVANCED ARTIFICIAL INTELLIGENCE	
CS 67301	SCIENTIFIC VISUALIZATION	
CS 67302	INFORMATION VISUALIZATION	
ECON 62054	ECONOMETRICS I	
EMAT 60310	CREATIVE CODING FUNDAMENTALS	
EMAT 62110	INTERACTIVE DATA	
MATH 50015	APPLIED STATISTICS	
MATH 50024	COMPUTATIONAL STATISTICS	
MATH 50028	STATISTICAL LEARNING	
MCLS 50510	INTRODUCTION TO NATURAL LANGUAGE PROCESSING	
PSYC 61651	QUANTITATIVE STATISTICAL ANALYSIS I	
Culminating Requirement		
BA 64092	INTERNSHIP IN BUSINESS ANALYTICS	3
or BA 64099	CAPSTONE PROJECT IN BUSINESS ANALYTICS	
Minimum Total Credit Hours:		**30**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Note

Minimum 30 credit hours required for the degree is the assumption that students do not have any unmet requirements they need to be successful in the program. The business analytics program coordinator may make further determination of a student's preparedness for the program and what prerequisite courses, if any, may be required.

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify key characteristics of the business problem.
2. Identify opportunities and constraints of various data analytical frameworks and tools.
3. Formulate appropriate data analytic techniques to solve the business problem.
4. Perform necessary data preparation steps (retrieve, clean and manipulate data).
5. Demonstrate necessary theoretical knowledge and practical skills to implement several data-analytic frameworks using different tools.
6. Lead and work with teams to frame the business problem.
7. Convey in writing the outcomes of analytics for stakeholders.
8. Use visual outcomes of analytics to communicate orally effective messages for stakeholders.

Full Description

The Master of Science degree in Business Analytics provides students with a comprehensive knowledge of analytics that balances the technologies, analytical methods and business expertise needed to glean useful information from data to make strategic business decisions. The language of business today is dependent on information and data management, and the emergence of advanced technologies for capturing, preparing and analyzing data provides unprecedented opportunities for those with business analytics expertise that spans all industries and organizations.

Students in the Business Analytics major gain the technical, analytical, communication, decision-making and leadership skills needed to be successful business analysts. The curriculum includes integrative capstone analysis projects, and there is an internship option for additional professional development through the on-site Career Services Office.

Computer Information Systems - B.B.A.

Ambassador Crawford College of Business and Entrepreneurship
Department of Information Systems and Business Analytics
www.kent.edu/business

About This Program

The Computer Information Systems B.B.A. program combines cutting-edge coursework with hands-on experience to prepare you for a successful career in the field. With access to state-of-the-art facilities, experienced faculty and real-world opportunities, you'll develop the skills needed to thrive in a variety of tech roles. Join our program today and pave the way for a bright future in computer information systems. Read more...

Contact Information

- **Jose Benitez** | jbenitez1@kent.edu | 330-672-1141
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Computer network support specialists

- 6.4% faster than the average
- 195,100 number of jobs
- $65,450 potential earnings

Computer systems analysts

- 7.4% faster than the average
- 632,400 number of jobs
- $93,730 potential earnings

Database administrators and architects

- 9.7% much faster than the average
- 132,500 number of jobs
- $98,860 potential earnings

Software developers and software quality assurance analysts and testers

- 21.5% much faster than the average
- 1,469,200 number of jobs
- $110,140 potential earnings

Computer occupations, all other

- 5.7% faster than the average
- 431,100 number of jobs
- $92,870 potential earnings

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer Student: A minimum 2.250 overall GPA is required for admission into the major. Students who have previously attended Kent State who completed (or the equivalent of) COMM 15000, ENG 21011 and/or MATH 11010 must have earned a minimum C grade in the courses and a minimum C+ grade in CIS 24053.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CIS 34034	BUSINESS MODELING AND AGILE DESIGN (min C grade)	3
CIS 34054	USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS (min C grade)	3
CIS 44048	BUILDING SOLUTIONS FOR BUSINESSES (ELR) (WIC) (min C grade) [1]	3
CIS 44151	INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE (min C grade)	3
Major Electives, choose from the following: (min C grade) [2]		12
Designing Innovative Information Systems		
CIS 34167	DESIGNING INNOVATIVE PROGRAMS AND APPS	
CIS 44040	DESIGNING INNOVATIVE SERVER-SIDE SYSTEMS	
CIS 44043	DATABASE DESIGN AND DATA GOVERNANCE	
Digital Transformation Management		
CIS 44008	MANAGING AGILE DIGITAL TRANSFORMATION PROJECTS	
CIS 44041	MANAGING CYBERSECURITY	
CIS 44046	HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION	
Additional Electives		
BA 34060	OPERATIONS MANAGEMENT	
BA 44050	DATA VISUALIZATION	
CIS 44292	BUSINESS EXPERIENCE AND INTERNSHIP (ELR)	
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I [3]	3
BA 34156	BUSINESS ANALYTICS II	3
BA 44062	SUPPLY CHAIN MANAGEMENT	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES (min C+ grade)	3
BUS 10123	EXPLORING BUSINESS [4]	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 44285	STRATEGIC MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10001	FLASHES 101	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Mathematics or Critical Reasoning Elective, choose from the following: [5]		3-5
MATH 10051	QUANTITATIVE REASONING (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	
Kent Core Composition [6]		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [7]		16
Minimum Total Credit Hours:		**120**

[1] A minimum C must be earned to fulfill the writing-intensive requirement.

[2] Students may take any courses in this section to fulfill the major electives.

[3] Students who have taken MATH 10041 for another program may use it as a substitute for BA 24056.

[4] A student changing to a program in the college, transferring or an incoming student with college credit plus credits, may be waived out of BUS 10123 if:

- 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
- 60 or more credit hours have been earned and the student has completed one course (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163 , MKTG 25010 or CIS 24053)
- At the discretion of the Dean's Office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.

[5] Taking MATH 10051 or PHIL 21002 will not replace a low grade in either MATH 11012 or MATH 12002. Students are required to take MATH 11012 or MATH 12002 if they change their major to, or want to double major with, the Economics major or Finance major and/or intend to declare the Data Analytics minor. Students who intend to enroll in certain graduate programs and/or are working toward Phi Beta Kappa status are highly encouraged to take MATH 11012 or MATH 12002.

[6] Minimum C grade is required in ENG 21011 or HONR 20197.

[7] An education abroad experience is encouraged as a general elective. A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

Progression Requirements

- Minimum 2.250 overall GPA
- Minimum C grade in COMM 15000, ENG 21011 (or HONR 20197) and MATH 11010 (or placement out of MATH 11010)
- Minimum C+ grade in CIS 24053
- Minimum C grade in major requirements

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.250

- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete at least 50 percent of their major credit hours in residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the college for complete satisfaction of the B.B.A. degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Mathematics or Critical Reasoning Elective		3-5
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
CIS 34054	USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
Required for progression in the major: Minimum 2.250 overall GPA, minimum C grade in COMM 15000, ENG 21011, MATH 11010; and a minimum C+ in CIS 24053.		
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Major Elective		3
	Credit Hours	**15**
Semester Five		
Required: minimum 2.250 overall GPA		
BA 34156	BUSINESS ANALYTICS II	3
CIS 34034	BUSINESS MODELING AND AGILE DESIGN	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Six		
Required: minimum 2.250 overall GPA		
BA 44062	SUPPLY CHAIN MANAGEMENT	3
FIN 36053	BUSINESS FINANCE	3
Major Elective		3
Major Elective		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Seven		
Required: minimum overall 2.250 GPA		
CIS 44151	INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE	3

!	Major Elective		3
	General Electives		9
		Credit Hours	**15**
	Semester Eight		
	Required: minimum overall 2.250 GPA and completion of The Assurance of Learning Assessment given in MGMT 44285		
	CIS 44048	BUILDING SOLUTIONS FOR BUSINESSES (ELR) (WIC)	3
	MGMT 44285	STRATEGIC MANAGEMENT	3
	Kent Core Requirement		3
	General Electives		4
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Perform effectively in digital transformation management and information systems design projects.
2. Navigate and use emerging digital technologies and platforms.
3. Design, code, and implement information systems, databases, and applications on-premise and in the cloud.
4. Design, select, and deploy digital transformation solutions and strategies.
5. Bridge, integrate, deploy, and manage cybersecurity and data governance across various information systems and analytics systems.
6. Lead and manage digital transformation projects, and design and integrate digital technology solutions.

Students earning a B.B.A. degree in Ambassador Crawford College of Business and Entrepreneurship are expected to have developed skills in the following critical areas of business:

1. Core Business Knowledge - Recall the strategic frameworks that are used to make business decisions.
2. Analytical Skills - Use analytical methodologies and critical thinking skills to evaluate and solve business problems.
3. Digital Technology – Demonstrate the technological skills necessary to analyze business problems and develop solutions.
4. Written Communication - Write effective business communications.
5. Oral Communication - Make effective business presentations, using appropriate technologies.
6. Teamwork – Collaborate effectively with others to achieve a common business purpose.
7. Business Ethics – Recognize ethical business dilemmas and use ethical decision making to resolve the dilemma.
8. Global - Analyze the key global factors when making business decisions.

Full Description

The Bachelor of Business Administration degree in Computer Information Systems provides students with a focus on digital transformation management and/or the design of innovative information systems that are commonly used in organizations to create business value. This up-to-date major offers a techie-for-future IT and business managers structure starting with an introduction to information systems (IS) and emerging digital technologies (e.g., social media, mobile, cloud computing, business data analytics, Internet of Things, artificial intelligence, machine learning, blockchain). The major continues providing the foundations and hands-on activities to use IS and digital technologies for solving business problems. The academic backbone of the major concludes with the pillars of business modeling and agile design, artificial intelligence-based innovation, and providing the IT and business managerial skills to build solutions for businesses.

Students can complete two possible major elective tracks: Designing Innovative Information Systems or Digital Transformation Management. Alternatively, the student can customize the major elective path by selecting 12 credit hours from the list of major electives in a flexible and student-centric way. The Digital Transformation track focuses on providing the knowledge and managerial skills related to managing cybersecurity, managing agile digital transformation projects and on how to lead and manage digital transformation. The Designing Innovative Information Systems track focuses on providing the technical foundations and skills to design innovative programs and apps, design innovative server-side systems and design databases and data governance.

Students may participate in an internship (elective course), which may involve a summer or a semester of paid professional experience in industry. Internship experience helps show the relevance of on-campus courses to professional work, helps students focus their career plans and often enables students to secure better jobs upon graduation.

Computer Information Systems students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

Computer Information Systems - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Information Systems and Business Analytics
www.kent.edu/business

About This Program

The Computer Information Systems minor provides a strong foundation in the latest technologies and practical skills needed for a successful career in the field. With expert faculty and access to cutting-edge resources, you'll be well-prepared to meet the demands of the ever-evolving technology industry. Choose Kent State and take the first step towards an exciting career in computer information systems. Read more...

Contact Information

- **Jose Benitez** | jbenitez1@kent.edu | 330-672-1141
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Computer Information Systems minor, students must have a minimum 2.250 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
CIS 34034	BUSINESS MODELING AND AGILE DESIGN	3
CIS 34054	USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS	3
CIS 44151	INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE	3
Minor Electives, choose from the following: [1]		9
Designing Innovative Information Systems		
CIS 34167	DESIGNING INNOVATIVE PROGRAMS AND APPS	
CIS 44040	DESIGNING INNOVATIVE SERVER-SIDE SYSTEMS	
CIS 44043	DATABASE DESIGN AND DATA GOVERNANCE	
Digital Transformation Management		
CIS 44008	MANAGING AGILE DIGITAL TRANSFORMATION PROJECTS	
CIS 44041	MANAGING CYBERSECURITY	
CIS 44046	HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION	
Additional Electives		
BA 34060	OPERATIONS MANAGEMENT	
BA 44050	DATA VISUALIZATION	
CIS 44292	BUSINESS EXPERIENCE AND INTERNSHIP (ELR)	
Minimum Total Credit Hours:		**18**

[1] Students may take any courses in this section to fulfill the minor electives.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Students are expected to satisfy course prerequisites for each course required in the minor. Prerequisites are not tied to a particular catalog; therefore it is important to look at the most current information about a course.
- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Perform effectively in digital transformation management and information systems design projects.
2. Navigate and use emerging digital technologies and platforms.
3. Design, code, and implement information systems, databases, and applications on-premise and in the cloud.
4. Design, select and deploy digital transformation solutions and strategies.

5. Bridge, integrate, deploy and manage cybersecurity and data governance across various information systems and analytics systems.
6. Lead and manage digital transformation projects.

Full Description

The Computer Information Systems minor is self-contained and assumes essentially no prior experience with the usage of information systems (IS) and digital technologies in organizations. It complements students' primary career field by providing foundational knowledge, hands-on experience and information technology (IT) and business managerial skills in digital transformation management and/or the design of innovative information systems that are commonly used in organizations to create business value.

This up-to-date minor offers a techie-for-future IT and business managers structure starting with an introduction to IS and emerging digital technologies (e.g., social media, mobile, collaborative tools). The minor continues providing the foundations and hands-on activities to use IS and digital technologies for solving business problems. The academic backbone of the minor concludes with the pillars of business modeling and agile design and artificial intelligence-based innovation.

Students can complete two possible minor elective tracks: Designing Innovative Information Systems or Digital Transformation Management. Alternatively, the student can customize the major elective path by selecting 9 credit hours from the list of major electives in a flexible and student-centric way. The Digital Transformation track focuses on providing the knowledge and managerial skills related to managing cybersecurity, managing agile digital transformation projects and on how to lead and manage digital transformation. The Designing Innovative Information Systems track focuses on providing the technical foundations and skills to design innovative programs and apps, design innovative server-side systems and design databases and data governance.

Quantitative Business Management - Graduate Certificate

Ambassador Crawford College of Business and Entrepreneurship
Department of Information Systems and Business Analytics
www.kent.edu/business

About This Program

The Quantitative Business Management graduate certificate prepares participants to serve as responsible leaders in public, private and nonprofit organizations. Because the need for quantitative business management competence is ubiquitous across organizations, this certificate program welcomes participants from all fields and undergraduate degree backgrounds.

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- **Justin McHenry** | jwmchenr@kent.edu | 330-672-1232
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

General and operations managers

- 5.8% faster than the average
- 2,486,400 number of jobs
- $103,650 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcripts
- *Starting with spring 2026 admission term,* completion of two quantitative undergraduate courses (e.g., advanced algebra, statistics) with minimum B grade[1] *will be required.*
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] In some circumstances, the academic program admissions committee may consider other compelling evidence in their determination.
[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66060	MANAGERIAL FINANCE	2
Minimum Total Credit Hours:		**10**

Progression Requirements

- Maintain good academic standing

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify the problem and select the appropriate tool(s) to resolve the problem.
2. Analyze the problem in order to come to a decision or conclusion.
3. Identify alternatives and consequences regarding an ethical dilemma and support a course of action.
4. Identify global factors involved in making business decisions.
5. Prioritize and analyze alternatives and consequences related to global factors and support a strategic decision in a global business context.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
First Eight Weeks		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
Second Eight Weeks		
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
	Credit Hours	**4**

Semester Two		
First Eight Weeks		
BA 64005	ANALYTICS FOR DECISION MAKING	2
ECON 62022	MANAGERIAL ECONOMICS	2
Second Eight Weeks		
FIN 66060	MANAGERIAL FINANCE	2
	Credit Hours	**6**
	Minimum Total Credit Hours:	**10**

Department of Management

Ambassador Crawford College of Business and Entrepreneurship
302 Crawford Hall
Kent Campus
330-672-2750
www.kent.edu/business/management

Undergraduate Programs

- Business Management – B.B.A.
- General Business – B.B.A.
- Human Resource Management - B.B.A.

Undergraduate Minors

- Business
- Healthcare Systems Management for Business Majors
- Healthcare Systems Management for Non-Business Majors
- Human Resource Management
- International Business for Business Majors
- International Business for Non-Business Majors
- Leadership
- Management for Business Majors
- Management for Non-Business Majors
- Military and Leadership Studies

Graduate Programs

- Business Administration - M.B.A.

Graduate Certificates

- Human Resource Management
- International Business
- Leadership and Management
- Leading Through Challenge

Department of Management Faculty

- Arikan, Asli M. (2014), Professor, Ph.D., The Ohio State University, 2004
- Arikan, Ilgaz (2014), Professor, Ph.D., The Ohio State University, 2004
- Hogue, Mary B. (2001), Professor, Ph.D., University of Akron, 2000
- Kaur, Vaneet (2019), Assistant Professor, Ph.D., University of Jammu, 2018
- Knapp, Deborah K. (1992), Professor, Ph.D., Kent State University, 1994

- Landingham, Velvet L. (2004), Professor, Ph.D., Case Western Reserve University, 2004
- Palmer-Johnson, Catrina E. (2004), Assistant Professor, Ph.D., Rutgers University, 2021
- Riczo, Steve (2014), Associate Lecturer, M.H.A., Xavier University, 1982
- Whitmore, Mark D. (2011), Associate Professor, Ph.D., The Ohio State University, 1985

Business Administration Interdisciplinary (BUS)

BUS 10123 EXPLORING BUSINESS 3 Credit Hours
(Equivalent to BMRT 11000) An introduction to the basic areas of business with an integrated perspective on how the various areas work together. Technological competencies and communicative skills will be developed. Team building opportunities will be announced. This course is open to any major. This course should be taken sometime during student's first 30 semester hours.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BUS 10195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Special topics course that will be offered on a semester basis with different topics and different faculty.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

BUS 20192 INTERNSHIP IN BUSINESS (ELR) 1-3 Credit Hours
(Repeatable for credit) Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BUS 20195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Special topics course that will be offered on a semester basis with different topics and different faculty.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

BUS 20293 VARIABLE TITLE WORKSHOP IN BUSINESS 1-3 Credit Hours
(Repeatable for credit) Variable topics.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

BUS 30062 ADVANCED PROFESSIONAL DEVELOPMENT 3 Credit Hours
This course provides an application of professional skills required in the workplace. Specifically, students are exposed to research and analysis methods that drive evidence-based conclusions; preparation and delivery of business proposals and reports; face-to-face and virtual team-building and team interaction; professionalism in job-seeking and networking techniques; etiquette involved in various messaging technologies; ethical decision making as well as other general business acumen, leadership, negotiation, critical thinking, time and self-management, conflict resolution, providing and receiving constructive feedback, etiquette appropriate attire.
Prerequisite: BUS 10123 and COMM 15000 and UC 10162; and ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BUS 30189 INTERNATIONAL BUSINESS EXPERIENCE (DIVG) (ELR) 3 Credit Hours
This is a two to three week course at an international site that explores business in emerging markets across a full range of functions such as marketing, finance, investment, and business strategies.
Prerequisite: ECON 22060 and ECON 22061; and special approval from instructor.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BUS 30195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Special topics course that will be offered on a semester basis with different topics and different faculty.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

BUS 30234 INTERNATIONAL BUSINESS 3 Credit Hours
Learn how international business is affected by the forces of globalization: opportunities, threats and challenges that ensue from hypercompetition and the institutional checks and balances necessary to prevent complexity deteriorating into chaos.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BUS 40192 INTERNSHIP IN BUSINESS (ELR) 1-3 Credit Hours
(Repeatable for credit) Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.
Prerequisite: Permission.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BUS 40195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Special topics course that will be offered on a semester basis with different topics and different faculty.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

BUS 60092 MBA INTERNSHIP 3 Credit Hours
(Repeatable for credit) Practical experience with a commercial or non-profit organization under the guidance of a member of the graduate faculty. Periodic progress reports are required with a graduate level quality paper and possible presentation at the end of the course. Students should have a minimum cumulative GPA 3.000 and completed 12 hours in the MBA program.
Prerequisite: Minimum overall 3.000 GPA; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 11 other
Grade Mode: Standard Letter

BUS 60095 SPECIAL TOPICS IN BUSINESS ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit)In-depth exposure to selected topics in business administration. Topics will vary depending on instructor and topic of current interest.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BUS 60096 INDIVIDUAL INVESTIGATION 2-3 Credit Hours
(Repeatable for credit) For M.B.A, M.S. or M.A. candidates who have completed a minimum 12 hours of work of superior quality with permission of the director graduate school of management.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-3 other
Grade Mode: Standard Letter

BUS 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

BUS 67093 WORKSHOP IN ADVANCED BUSINESS TOPICS 1-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) Designed for those MBA Graduates who want advanced education in selected areas of business. A variety of topics could be addressed in this workshop. The topics may include business technology, innovation in business, advanced leadership and a variety of other areas of interest.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Standard Letter-S/U

BUS 70095 SPECIAL TOPICS IN BUSINESS ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) In-depth exposure to selected topics in business administration. Topics will vary depending on instructor and topic of current interest.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BUS 70198 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral level students, or master's students with at least 34 hours of graduate coursework.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

BUS 71094 COLLEGE TEACHING 1-2 Credit Hours
(Repeatable for credit) Training, supervision and evaluation in college level instruction. Maximum of 2 hours applicable toward degree.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BUS 80050 RESEARCH DESIGN 3 Credit Hours
Students will become familiar with a variety of research design options that would enable them to test a conceptual model, including survey, experimental and quasi-experimental designs. Students will understand how to choose an appropriate design for their research question and to make informed decisions related to sampling, measure selection, use and study procedures.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

BUS 80052 REGRESSION ANALYSIS 3 Credit Hours
Statistical models for regression are widely used in fields of business. Use of these models requires a fundamental understanding of both the theory and their practical applications to problems. This course balances theory and application and provides several opportunities for application to practical problems.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

BUS 80054 ANALYSIS OF VARIANCE 3 Credit Hours
Analysis of variance models are used to analyze the data generated from experimental designs. Use of these models requires a fundamental understanding of experimental design and how it translates to statistical analysis of simple and interaction effects. This course bridges the link from experimental design to statistical analysis.
Prerequisite: BUS 80050; and BUS 80052 or ECON 72054; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

BUS 80056 STRUCTURAL EQUATION MODELING 3 Credit Hours
Course will provide students with a solid foundation in covariance-based structural equation modeling techniques, and also introduce them to component-based structural equation modeling. After a brief review of relevant concepts from the linear regression and multivariate analysis courses, we will cover structural equation modeling topics such as model specification, identification, estimation, fit and testing of both measurement and structural models. Time is devoted to understanding formative vs. reflective measurement, higher order constructs, mediation and moderation, multi-group analysis and assessing common method bias.
Prerequisite: BUS 80050; and BUS 80052 or ECON 72054; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

BUS 80091 DOCTORAL SEMINAR 1 Credit Hour
(Repeatable for credit) A continuing seminar for all students in a Ph.D. program which cuts across all areas of functional specialization.
Prerequisite: Admission to a PhD program.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

BUS 80095 SPECIAL TOPICS IN BUSINESS ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) In-depth exposure to selected topics in business administration. Topics will vary depending on instructor and topic of current interest.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BUS 80098 RESEARCH 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Usually research applied toward dissertation.
Prerequisite: PhD standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter

BUS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BUS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: BUS 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Human Resource Management (HRM)

HRM 34180 HUMAN RESOURCE MANAGEMENT 3 Credit Hours
Focuses on the importance of the management of human resources for any organization, its employees, customers, shareholders, and the community where it is located. The topic helps students understand the important issues that derive from managing people at work and the changing environment organizations face. Students will learn the integral role human resources management plays to the success or failure of an organization. Both practical and theoretical perspectives are presented.
Prerequisite: MGMT 24163 or BMRT 11009; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 34189 INTERNATIONAL EXPERIENCE IN HUMAN RESOURCE MANAGEMENT (DIVG) (ELR) 3 Credit Hours
Guided introduction to applied Human Resource Management in another culture by examining opportunities and challenges. Via select company tours, tour of historical sites and meetings with management from local companies as well as U.S. companies doing business in foreign countries, students will be exposed to the current HR functions and practices in a foreign country, such as selecting and managing a workforce, compliance with the employment laws, employee training and development, expatriation repatriation, performance management, and compensation issues.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA; and sophomore standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

HRM 44091 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for credit) (Slashed with HRM 54091) In-depth readings, discussion projects and presentations in a specialized area of human resource management.
Prerequisite: HRM 34180; and minimum 2.000 overall GPA.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44183 DEVELOPING AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS 3 Credit Hours
(Slashed with HRM 54183) Course focus is quality training design, based upon theory and empirical research. Implications for practice and current challenges in employee training and development are also highlighted.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44185 STAFFING HUMAN RESOURCES 3 Credit Hours
(Slashed with HRM 54185) Staffing, development of systems to select, place, promote, and retain employees to enhance organizational effectiveness and maintain legal compliance are core HRM activities in organizations. This course will provide students with an understanding of the technical components of selection, including how to determine which applicant characteristics should be examined, what procedures should be used to gather information, and how that information should be combined to identify qualified job applicants. In addition, this course focuses on promotion and retention of employees.
Prerequisite: HRM 34180 with a minimum C grade; and a minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44195 ADVANCED TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for credit) Advanced topics course that are offered on a yearly basis. Topics can span the full range of HR functions. This course can also have a practicum format.
Prerequisite: HRM 34180; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44445 GLOBAL HUMAN RESOURCE MANAGEMENT (WIC) 3 Credit Hours
(Slashed with HRM 54445) The course examines the impact of internationalization and cross-cultural challenges on organizations, the factors involved in selecting and managing an international workforce, the evaluation of employee relations and employment law, and address issues such as employee training and development, expatriation-repatriation, performance management, and compensation issues, all from the perspective of managing an international organization.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA; and student must be enrolled in the human resource management major or minor; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HRM 44492 BUSINESS EXPERIENCE AND INTERNSHIP IN HUMAN RESOURCE MANAGEMENT (ELR) 3 Credit Hours
(Repeatable for credit) Learning by experience by performing activities related to the Human Resource Management profession in a cooperating organization.
Prerequisite: HRM 34180 with a minimum C grade; and a minimum 2.000 overall GPA; and must be enrolled in the human resource management major or minor.
Schedule Type: Practical Experience
Contact Hours: 1 lecture, 14 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HRM 44495 SPECIAL TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for credit) Offered on a semester basis with different human resource management topics and different faculty involved each time the course if offered.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44499 HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR) 3 Credit Hours
This course bridges between Human Resource Management coursework and the world of HRM practice. The course will provide a variety of learning experiences to help students gain knowledge and practical experience to prepare them to embark on careers in the HRM profession. Upon completion of this course, students should have much to discuss in a job interview and a useful entry on their resumes.
Prerequisite: HRM 34180 minimum C grade; and minimum 2.000 overall GPA; and student must be enrolled in the human resource management minor or major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HRM 44660 PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS 3 Credit Hours
(Slashed with HRM 54660) The course provides overview of the performance management process, examines various approaches to performance management, and discusses sources of performance management information. Also considers the nature of the compensation systems and pay system mechanics, as well as methods for recognizing employee contributions through compensation.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 44763 HUMAN RESOURCE ANALYTICS AND ERP SYSTEMS 3 Credit Hours
The course examines the use of HR data, metrics, analytics, and ERP systems to guide human resource management decision making and support the strategic goals of the organization. The course will introduce students to the characteristics of high quality data, introduce common analysis techniques, data interpretation and visualization, and report assessment. Through lecture, readings, and problem solving exercises using enterprise resource planning systems (SAP and Oracle), students will gain the knowledge and skills necessary to assess various human resource management initiatives and formulate solutions to common human-resource-related problems. Upon completion of the course, students will understand how HR analytics and ERP systems help an organization achieve its strategic goals.
Prerequisite: HRM 34180 with a minimum C grade; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54091 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for Credit) (Slashed with HRM 44091) In-depth readings, discussion projects and presentations in a specialized area of human resource management.
Prerequisite: Business administration major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54183 DEVELOPMENT AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS 3 Credit Hours
(Slashed with HRM 44183) Course focus is quality training design, based upon theory and empirical research. Implications for practice and current challenges in employee training and development are also highlighted.
Prerequisite: Business administration major within the master of business administration degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54185 STAFFING HUMAN RESOURCES 3 Credit Hours
(Slashed with HRM 44185) Staffing, development of systems to select, place, promote, and retain employees to enhance organizational effectiveness and maintain legal compliance are core HRM activities in organizations. This course will provide students with an understanding of the technical components of selection, including how to determine which applicant characteristics should be examined, what procedures should be used to gather information, and how that information should be combined to identify qualified job applicants. In addition, this course focuses on promotion and retention of employees.
Prerequisite: Business administration major within the master of business administration degree.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54445 GLOBAL HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Slashed with HRM 44445) The course examines the impact of internationalization and cross-cultural challenges on organizations, the factors involved in selecting and managing an international workforce, the evaluation of employee relations and employment law, and address issues such as employee training and development, expatriation repatriation, performance management, and compensation issues, all from the perspective of managing an international organization.
Prerequisite: Business administration major within the master of business administration degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 54660 PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS 3 Credit Hours
(Slashed with HRM 44660) The course provides overview of the performance management process, examines various approaches to performance management, and discusses sources of performance management information. Also considers the nature of the compensation systems and pay system mechanics, as well as methods for recognizing employee contributions through compensation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 64263 EMPLOYEE SELECTION AND APPRAISAL 3 Credit Hours
(Slashed with HRM 74263) This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.
Prerequisite: HRM 64271; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 64271 HUMAN RESOURCE MANAGEMENT 2 Credit Hours
This course explores the management of a firm's human resources from practical and theoretical perspectives of managing people at work. How high performance work practices (HPWPs) help businesses to motivate their employees for strategic competitive advantage is emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HRM 64399 APPLIED TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
Devoted to intensive investigation of selected topics in human resource management. Students undertake three research projects: (1) quality metrics of selection procedures; (2) use of structured interviews in selection with a focus on the legal defensibility of employment interviews; and (3) use of artificial intelligence in employment interviews.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

HRM 74263 EMPLOYEE SELECTION AND APPRAISAL 3 Credit Hours
(Slashed with HRM 64263) This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 84108 ACQUIRING HUMAN RESOURCES 3 Credit Hours
Course focuses on research theories, methods, and issues in acquiring Human Resources, including employment law, job and work analysis, recruiting, and selection. The course involves critical review and evaluation of existing work and potential avenues for future research. Through reading assignments and a research paper, students should gain an appreciation for the existing state of research and begin to articulate major issues and challenges facing this field.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 84191 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours
(Repeatable for credit) Variable content of relevance to Human Research Management research. Exact topics will be announced when scheduled.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 84261 STRATEGIC DECISION-MAKING AND HUMAN RESOURCE MANAGEMENT 3 Credit Hours
Provides a first graduate-level introduction to the fundamental concepts of HRM/OB and strategic decision-making.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRM 84263 OPTIMIZING HUMAN RESOURCES 3 Credit Hours
Students learn areas of human resources management that include training and development, performance management, compensation and retention or turnover.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Management (MGMT)

MGMT 24163 PRINCIPLES OF MANAGEMENT 3 Credit Hours
(Equivalent to BMRT 11009) Introductory course in management and organizational design. The leading contributions in the area are reviewed and practical implications are developed. The course covers the principles that most management professors have come to expect in an introductory course: planning, organizing, leading, and controlling. In addition, the students need to be aware of critical issues managers must be aware of to succeed: diversity, globalization, ethics, technology, sustainability among them. The course serves as an introduction to many upper level business courses.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

MGMT 34157 INTRODUCTION TO THE U.S. HEALTHCARE SYSTEM 3 Credit Hours
Provides an overview of the management, economic and policy issues facing the healthcare, pharmaceutical, biotechnology and medical device industries. The course perspective is global, with emphasis on the U.S. as the largest and most profitable market.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34158 HEALTHCARE TECHNOLOGY MANAGEMENT 3 Credit Hours
Introduce the main components of health care information technology, with emphasis on the components that distinguish the health care delivery system from other business enterprises. Prepares students as clinical managers and consultants who must rely upon or manage information technology to accomplish their objectives.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34159 MANAGING HEALTHCARE ORGANIZATIONS 3 Credit Hours
Operational process management, cost-control and productivity is critical to cost-effective healthcare. Covers topics in improving operations such as patient flow, quality (concepts and mechanics) and process improvement. Students become familiar with methods and resources for implementing change in a health care setting, such as a hospital or outpatient clinic. Provides skills to assess current hospital operations and to identify the appropriate tools to address various functional areas, useful for managers, consultants, clinical providers and others. Process improvement methods such as lean thinking, six sigma, statistical tools, flowcharting, queuing models and other tools are covered. Health care settings beyond the hospital, such as outpatient clinics, are included.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34164 ORGANIZATIONAL MENTORING 3 Credit Hours
Course promotes leadership development through the study of leadership principles, styles, and role models. Students will learn through class lecture and discussion as well as hand-on leadership experience in Exploring Business Interactive Business Seminars (i.e., business labs). Students will work with course instructor to develop a personal leadership plan.
Prerequisite: BUS 10123; and minimum 2.000 overall GPA; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MGMT 34165 DYNAMICS OF LEADERSHIP 3 Credit Hours
This course discusses management and leadership concepts and does so by blending theory and practice. The courses uses case studies, practical application approaches, personal assessment and provides opportunities for students to develop individual and group leadership skills. In addition, many organizational behavior concepts are blended throughout the course.
Prerequisite: MGMT 24163 or BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34175 LEARNING TO LEAD 3 Credit Hours
This is a hands-on learning and leadership course. Classroom time occurs over 4 days at a residential camp before the semester begins. Students learn about leadership from professors, experts in the field, and each other through interactive discussions and activities. During the semester students continue their leadership development working with a personal mentor, and practice their skills through community service projects.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34185 ORGANIZATIONAL BEHAVIOR 3 Credit Hours
Determinants of individual and group behavior within work organizations. Topics covered include, motivation, job design, learning, decision making, leadership and group behavior as they relate to performance and other outcomes in work organizations.
Prerequisite: MGMT 24163 or BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 34280 ORGANIZATIONAL CHANGE MANAGEMENT 3 Credit Hours
This course focuses on understanding the processes and challenges involved in responsible organizational change management. The course will provide students a blend of both research and best practice professional applications.
Prerequisite: MGMT 24163 or BMRT 11009; and MGMT 34165; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 44009 THE BUSINESS CASE FOR SUSTAINABILITY 3 Credit Hours
(Slashed with MGMT 54009) This course describes major global trends in the environment, society, and technology; and explores how they are transforming business and how they are deeply changing work, careers and our quality of life. We examine global markets and needs, as expressed by the United Nations Sustainable Development Goals (SDGs). Understanding these trends will help you make sense of the world you in which you live and work and provide insight into an array of career and entrepreneurial opportunities.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 44096 INDIVIDUAL INVESTIGATION IN MANAGEMENT 3 Credit Hours
(Repeatable for credit) Presents opportunity to undertake research. Approval of topic and agreement to work with student must be secured from faculty member and the chairperson of the department prior to registration.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

MGMT 44163 GLOBAL BUSINESS MANAGEMENT (WIC) 3 Credit Hours
Provides an overview of contemporary issues and theoretical frameworks in the field of international strategic management using traditional lecture and practical application cases.
Prerequisite: Minimum C grade in ENG 21011, COMM 15000 and MATH 11010; minimum 2.000 overall GPA; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MGMT 44189 INTERNATIONAL MANAGEMENT EXPERIENCE (DIVG) (ELR) 3 Credit Hours
This course focuses on strategy and policy development and execution for gaining and sustaining global competitive advantage. Strategic management of entrepreneurial and well-established firms, and operational and financial structures of international firms and markets are discussed.
Prerequisite: MGMT 24163 with a minimum C grade; and minimum 2.000 overall GPA; and sophomore standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MGMT 44191 SENIOR RESEARCH SEMINAR IN MANAGEMENT 3 Credit Hours
(Repeatable for credit) Combination of individual or group research and class discussion for superior students. Investigations in administration and organization conducted in accordance with scholarly interests of participants.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MGMT 44192 INTERNSHIP IN MANAGEMENT (ELR) 3 Credit Hours
(Repeatable for credit) A supervised field experience requiring a minimum of 145 hours of work at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on the job experiences.
Prerequisite: MGMT 24163 with minimum C grade; and minimum 2.000 overall GPA; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MGMT 44285 STRATEGIC MANAGEMENT 3 Credit Hours
Integration of the functional areas of business in the formulation and implementation of policy. Projects and case analyses of business situations provide students with the opportunity to apply analytical and creative problem solving skills.
Prerequisite: ACCT 23021 and MKTG 25010 and MGMT 24163 and BA 34060 and FIN 26074 and FIN 36053; and minimum 2.000 overall GPA; and major within the Ambassador Crawford College of Business and Entrepreneurship; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 44299 MANAGEMENT CAPSTONE (ELR) (WIC) 3 Credit Hours
Course integrates various management concepts in informing a manager's strategic decision making process. Students use case analyses and class lectures to demonstrate their leadership abilities in different business scenarios.
Prerequisite: ACCT 23021 and FIN 26074 and FIN 36053 and MGMT 24163 and BA 34060 and MKTG 25010; and minimum 2.000 overall GPA; and declared General Business major; and senior standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MGMT 44392 BUSINESS CONSULTING AND PRACTICUM (ELR) 3 Credit Hours
Provides decision-making tools for solving real-world problems by building synergies in prior knowledge to create a synthesis of real life solutions delivery mechanisms underpinning them to pressing problems of the local and international community. The practicum component includes consulting experience with both for profit and not-for-profit business clients.
Prerequisite: MGMT 24163; and minimum 2.000 overall GPA; and senior standing.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MGMT 44395 SPECIAL TOPICS IN MANAGEMENT 3 Credit Hours
(Repeatable for credit) Offered on a semester basis with different management topics and different faculty involved each time the course if offered.
Prerequisite: Minimum 2.000 overall GPA; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 54009 THE BUSINESS CASE FOR SUSTAINABILITY 3 Credit Hours
(Slashed with MGMT 44009) This course describes major global trends in the environment, society, and technology; and explores how they are transforming business and how they are deeply changing work, careers and our quality of life. We examine global markets and needs, as expressed by the United Nations Sustainable Development Goals (SDGs). Understanding these trends will help you make sense of the world you in which you live and work and provide insight into an array of career and entrepreneurial opportunities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64050 ESSENTIALS OF BUSINESS MANAGEMENT 3 Credit Hours
This is an introductory management course that discusses functional areas of business and their strategic positioning in delivering business solutions.
Prerequisite: Non-ambassador crawford college of business and entrepreneurship majors; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64158 LEADERSHIP 2 Credit Hours
Students develop an understanding of the leadership process. Through critical thinking, class discussions and class activities, they build skills in leading others, leading themselves and teamwork.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MGMT 64160 LEADERSHIP AND ORGANIZATIONAL CHANGE 3 Credit Hours
(Slashed with MGMT 74160) Course provides students in-depth knowledge of leading organization change. Covers analysis of existing conditions, drivers of change and readiness for change along with methods of change and change implementation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

MGMT 64184 INTERNATIONAL BUSINESS 3 Credit Hours
Study of the business firm in a global context. Application of international business theories and practices to international operations of firms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64270 ORGANIZATIONAL ANALYSIS AND DESIGN 3 Credit Hours
(Slashed with MGMT 74270) Course provides students an in-depth examination of the key factors related to the design of organizations and analysis methods. Students will learn about the identification, capturing and assessment of core processes and the organizational structure elements used to design an organization around core processes. Students will learn various methodologies and analytics to analyze organizational effectiveness.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64275 GLOBAL STRATEGIC MANAGEMENT 3 Credit Hours
Global Strategic Management explores the global challenges facing today's manager. The global competition concepts and strategic managerial alternatives within the context of current global dynamics that impact: a) business operations, b) the political, economic and cultural environment, c) centralized versus de-centralized power in managing local, regional and global firms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 64399 BUSINESS STRATEGY 3 Credit Hours
Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed; case analysis of actual business situations helps student further develop analytical and communication skills.
Prerequisite: 18 hours of graduate coursework; and admission to MBA or MSA program; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

MGMT 68051 BUSINESS PROFESSIONAL DEVELOPMENT I 1 Credit Hour
Development of professional business skills for the full-time MBA student to use in both the graduate program and career development.
Prerequisite: Admission to MBA program; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MGMT 68052 BUSINESS PROFESSIONAL DEVELOPMENT II 1 Credit Hour
Continuation of development of professional business skills for the full-time MBA student primarily focused on building and strengthening the skills needed by a manager for the workplace.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MGMT 74160 LEADERSHIP AND ORGANIZATIONAL CHANGE 3 Credit Hours
(Slashed with MGMT 64160) Develop understanding of the theories and techniques needed for the successful management of significant organizational change with emphasis on discussion, exercises and case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

MGMT 74185 BUSINESS STRATEGY 3 Credit Hours
Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed case analysis of actual business situations helps student further develop analytical and communication skills.
Prerequisite: Doctoral approval; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 74270 ORGANIZATIONAL ANALYSIS 3 Credit Hours
(Slashed with MGMT 64270) Theoretical basis and research findings are discussed, permitting the student to analyze and understand complex work organizations. Data provided prepares the student to analyze, design and solve organizational problems within the work environment.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

MGMT 84112 RESEARCH METHODOLOGY 3 Credit Hours
The objectives of this course are: to formulate a research problem and develop testable research hypotheses; develop research skills by learning the different research methods and techniques; explain information contained in research statistical outputs such as SAS and SPSS enable students to conduct meaningful and high quality research in their specific field of interest.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84262 THEORY OF THE FIRM 3 Credit Hours
Course focuses on developing a deep understanding of modern strategic theory in relation to other allied fields. Students will review fundamental concepts of strategic thinking and theory development and then move to contemporary theoretical issues including transaction-cost economics, the resource-based view, the emerging theories of real options and of dynamic capabilities, strategic optimization and constraint theory, and dealing with uncertainty through scenario-driven planning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84275 THEORETICAL AND EMPIRICAL GLOBAL STRATEGY 3 Credit Hours
Focuses on review and integration of the several streams of literature dealing with strategy for, and management of, the product-diversified and/or internationally-diversified firm. Also, in order to complement the emphasis of other doctoral offerings on strategy formulation topics, this seminar places a special emphasis on strategy process, organizational structure and administrative mechanisms. In particular, it explores the foundations as well as current research on corporate governance, broadly define. This includes (I) the set of mechanisms available to align the interest of top managers to those of shareowners, as well as (II) the mechanisms available to motivate and control middle managers so that their decisions and behaviors are aligned with intended corporate and/or international strategy and goals.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84277 ORGANIZATIONAL BEHAVIOR AND THEORY 3 Credit Hours
An examination of theory and research on individual and group behavior in organizations. Special attention is given to theories of motivation, job satisfaction, goal setting, task design, feedback systems, group dynamics, power and teams.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84285 TECHNOLOGY AND INNOVATION STRATEGY 3 Credit Hours
Covers topics pertaining to innovation management at micro-level (entrepreneurship, corporate entrepreneurship), meso-level (networks) and macro-level (cross-country and within-country comparisons).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MGMT 84291 SEMINAR IN MANAGEMENT SYSTEMS 3 Credit Hours
(Repeatable for credit) Intensive investigation of selected topics in organization and strategic management. Student will be expected to undertake research on a topic determined in joint consultation with the instructor.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Business - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

The Business minor provides students with exposure to a basic business core and helps them gain an overview of the world of business while pursuing a degree in another field.

Contact Information

- **Steven A. Dennis** | sdenni14@kent.edu | 330-672-2426
- Speak with an Advisor
  - Ashtabula Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Business minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Students declared in a major in the college cannot declare the Business minor.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 36053	BUSINESS FINANCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
or CIS 34054	USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS	
or MGMT 34165	DYNAMICS OF LEADERSHIP	
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Minimum Total Credit Hours:		**24**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students are expected to satisfy course prerequisites for each course required in the minor. Prerequisites are not tied to a particular catalog; therefore it is important to look at the most current information about a course.
- It is recommended that students pursuing the Business minor take an analytics course (BA 24056) and an operations (BA 34060) course.
- Student may not pursue a minor and a major in the same discipline
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of basic financial accounting records.
2. Demonstrate understanding of impact of technology on business.
3. Demonstrate understanding of impact of globalization on business.
4. Demonstrate understanding of the various disciplines of business.

Business Administration - M.B.A.

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

If you're looking to take your career in business to the next level, the M.B.A. degree might just be the game-changer you've been searching for. The program covers a broad range of topics, including finance, marketing, accounting and management, and offers specialized concentrations in areas such as business analytics, healthcare administration and organizational leadership. Read more...

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- **Justin McHenry** (online program) | jwmchenr@kent.edu | 330-672-1232
- **Felecia Urbanek** (in-person program) | furbanek@kent.edu | 330-672-2282
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online (full-time and part-time program with optional concentrations in Accounting, Business Analytics, Digital Transformation, Finance, Healthcare Administration, Human Resource Management and International Business)
  - In person (optional concentrations in Business Analytics, Digital Transformation, Finance, Human Resource Management, International Business and Leadership in Conflict Mediation)
- **Location:**
  - Kent Campus (full-time only for general degree and all in-person concentrations)

Examples of Possible Careers and Salaries*

General and operations managers

- 5.8% faster than the average
- 2,486,400 number of jobs
- $103,650 potential earnings

Human resources managers

- 6.3% faster than the average
- 165,200 number of jobs
- $121,220 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Market research analysts and marketing specialists

- 17.7% much faster than the average
- 738,100 number of jobs
- $65,810 potential earnings

Financial and investment analysts, financial risk specialists, and financial specialists, all other

- 5.5% faster than the average
- 487,800 number of jobs
- $83,660 potential earnings

Accreditation

AACSB International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Completion of two quantitative undergraduate courses (e.g., advanced algebra, statistics) with minimum B grade[1]
- Official transcripts
- Résumé
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] In some circumstances, the academic program admissions committee may consider other compelling evidence in their determination.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester (in-person program only)**
  - Funding deadline: March 15 (domestic student)
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) must be submitted by this deadline to be considered for an assistantship or any other funded position.
  - Application deadline: March 15 (international student) and June 1 (domestic student)
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) received after these deadlines will be considered on a space-available basis.
- **Fall Semester (online program only)**
  - Rolling admissions
- **Spring Semester (online program only)**
  - Rolling admissions
- **Summer Term (online program only)**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements [1]		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2

FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Additional Requirements or Concentrations		
Choose from the following:		9
Additional Requirements for Students Not Declaring a Concentration		
Accounting Concentration		
Business Analytics Concentration		
Digital Transformation Concentration		
Finance Concentration		
Healthcare Administration Concentration		
Human Resource Management Concentration		
International Business Concentration		
Leadership in Conflict Mediation Concentration		
Minimum Total Credit Hours:		**37**

[1] Students may graduate with the M.B.A. degree with fewer than 37 total credit hours but no fewer than 30 total credit hours.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements		
Graduate Electives [1]		9
Minimum Total Credit Hours:		**9**

[1] Students may select courses from all concentrations and are not required to concentrate in any one area, although they are strongly encouraged to do so.

Accounting Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following: [1]		9
ACCT 53001	FINANCIAL REPORTING I	
ACCT 53010	AUDITING FUNDAMENTALS	
ACCT 53012	FINANCIAL REPORTING II	
ACCT 53013	ADVANCED MANAGEMENT ACCOUNTING	
ACCT 53041	INDIVIDUAL INCOME TAX	
ACCT 63050	ADVANCED ACCOUNTING ANALYTICS AND TECHNOLOGY	
Minimum Total Credit Hours:		**9**

[1] Students with a bachelor's degree in accounting may apply the following courses toward concentration electives: ACCT 53020, ACCT 53033, ACCT 53043, ACCT 63022, ACCT 63024 and ACCT 63031.

Business Analytics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
BA 64036	BUSINESS ANALYTICS	3
BA 64060	FUNDAMENTALS OF MACHINE LEARNING	3
Concentration Elective, choose from the following:		3
BA 54038	ANALYTICS IN PRACTICE	
BA 54050	DATA VISUALIZATION	
BA 54052	TEXT ANALYSIS AND NATURAL LANGUAGE PROCESSING	
BA 64082	DATABASE MANAGEMENT AND DATABASE ANALYTICS	
Minimum Total Credit Hours:		**9**

Digital Transformation Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		9
CIS 54008	MANAGING AGILE DIGITAL TRANSFORMATION PROJECTS	
CIS 54041	MANAGING CYBERSECURITY	
CIS 54046	HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION	
CIS 54151	INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE	
Minimum Total Credit Hours:		**9**

Finance Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		9
FIN 56055	ADVANCED DERIVATIVE SECURITIES	
FIN 56056	ADVANCED FIXED INCOME MANAGEMENT	
FIN 56059	APPLIED FINANCIAL MANAGEMENT STRATEGIES	
FIN 56061	REAL ESTATE FINANCE	
FIN 56064	INTERNATIONAL BUSINESS FINANCE	
FIN 56067	ADVANCED PORTFOLIO ANALYSIS	
FIN 56068	COMMERCIAL BANK MANAGEMENT	
FIN 56280	GOLDEN FLASH ASSET MANAGEMENT DIRECTOR	
FIN 66040	INTERNATIONAL ISSUES IN BANKING AND FINANCE	
FIN 56061 FIN 56051:	Course FIN 56061 FIN 56051: FINTECH CRYPTOCURRENCIES: THE FUTURE OF FINANCE Not Found	
Minimum Total Credit Hours:		**9**

Healthcare Administration Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
ECON 52086	ECONOMICS OF HEALTH CARE [1]	3
HPM 62016	PUBLIC HEALTH ADMINISTRATION	3
HPM 62017	HEALTHCARE LAW AND REGULATION	3

or HPM 63003	HEALTH CARE SYSTEMS	
or HPM 63008	HEALTHCARE PRIVACY AND SECURITY	
Minimum Total Credit Hours:		**9**

[1] If an online section of ECON 52086 is not offered the year that students are graduating, they may substitute an appropriate course with approval of the Graduate Programs Office.

Human Resource Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		9
HRM 54183	DEVELOPMENT AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS	
HRM 54185	STAFFING HUMAN RESOURCES	
HRM 54445	GLOBAL HUMAN RESOURCE MANAGEMENT	
HRM 54660	PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS	
HRM 64399	APPLIED TOPICS IN HUMAN RESOURCE MANAGEMENT	
MGMT 64160	LEADERSHIP AND ORGANIZATIONAL CHANGE	
Minimum Total Credit Hours:		**9**

International Business Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		9
FIN 56064	INTERNATIONAL BUSINESS FINANCE	
FIN 56280	GOLDEN FLASH ASSET MANAGEMENT DIRECTOR	
FIN 66040	INTERNATIONAL ISSUES IN BANKING AND FINANCE	
HRM 54445	GLOBAL HUMAN RESOURCE MANAGEMENT	
MGMT 54009	THE BUSINESS CASE FOR SUSTAINABILITY	
MGMT 64184	INTERNATIONAL BUSINESS	
MGMT 64275	GLOBAL STRATEGIC MANAGEMENT	
MKTG 65054	INTERNATIONAL MARKETING	
Minimum Total Credit Hours:		**9**

Leadership in Conflict Mediation Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
MGMT 64160	LEADERSHIP AND ORGANIZATIONAL CHANGE	3
Concentration Electives, choose from the following:		6
PACS 54040	NEGOTIATION	
or PACS 60001	ADVANCED NEGOTIATION	
PACS 58080	MEDIATION: THEORY AND TRAINING	
PACS 60004	ORGANIZATIONAL CONFLICT AND COOPERATION	
Minimum Total Credit Hours:		**9**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students may receive permission to have M.B.A coursework waived if supported by the appropriate and recent undergraduate coursework. The waiver of each specific course will be determined by the relevant academic department in the college. Students may graduate with the M.B.A. degree with fewer than 37 total credit hours but no fewer than 30 total credit hours.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Critical Thinking: analyze the elements of a business problem and construct well-reasoned solutions.
2. Written Communication: write effective business communications.
3. Oral Communication: make effective business presentations using appropriate technologies.
4. Teamwork: collaborate effectively with others to achieve a common business purpose.
5. Business Ethics: recognize ethical business dilemmas and use ethical decision-making to resolve the dilemma.
6. Triple Bottom-Line Management: analyze the complex issues confronting organizations and craft solutions for a broad array of stakeholders.
7. Global Mindset: distinguish and analyze the key global factors when making business decisions.

Dual Degree with M.A. in Communication Studies

Students have the opportunity to complete a dual degree program with the M.A. degree in Communication Studies and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual M.A./M.B.A. degree program is designed for students and professionals whose career goals focus on communication, particularly global communication, and provides direction and leadership in economic and business development processes.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
or COMM 65020	QUANTITATIVE RESEARCH METHODS IN COMMUNICATION	
BA 64026	SUPPLY CHAIN MANAGEMENT	2

CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
COMM 65000	FOUNDATIONS OF COMMUNICATION AND ADVOCACY	3
COMM 65652	THEORIES OF COMMUNICATION	3
COMM 65851	ORGANIZATIONAL COMMUNICATION	3
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
Ambassador Crawford College of Business and Entrepreneurship Graduate-level Electives		6-7
Communication Studies (COMM) Electives [1]		12-15
Culmininating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Choose from the following: [1]		3-6
COMM 60199	THESIS I	
COMM 61198	MASTERS PROJECT IN COMMUNICATION STUDIES	
COMM 64092	MASTERS INTERNSHIP IN COMMUNICATION STUDIES	
Coursework		
Minimum Total Credit Hours:		**60**

Dual Degree with M.A. in Peace and Conflict Studies

Students have the opportunity to complete a dual degree program with the M.A. degree in Peace and Conflict Studies and the Master of Business Administration degree. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The M.B.A./M.A. dual degree converges the field of conflict management and the field of business. Students learn how business works alongside understanding the dynamics of conflict and how to successfully transform it to succeed in business and to transform organizational cultures.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	0-1
MKTG 65051	MARKETING MANAGEMENT	2
PACS 60000	FOUNDATIONS OF CONFLICT ANALYSIS AND MANAGEMENT	3
PACS 60001	ADVANCED NEGOTIATION	3
PACS 60002	ADVANCED MEDIATION	3
PACS 60003	COMMUNITY-BASED CONFLICT TRANSFORMATION	3
PACS 60004	ORGANIZATIONAL CONFLICT AND COOPERATION	3
PACS 60009	LEADERSHIP FOR PEACEFUL CHANGE	3
POL 60010	QUALITATIVE RESEARCH METHODS	3
Ambassador Crawford College of Business and Entrepreneurship Graduate-level Electives		3
Peace and Conflict Studies Electives, choose from the following:		3-6
PACS 50089	INTERNATIONAL EXPERIENCE: PEACE AND CONFLICT STUDIES	
PACS 50090	STUDY AWAY: PEACE AND CONFLICT STUDIES	
PACS 59091	VARIABLE CONTENT SEMINAR IN PEACE AND CONFLICT STUDIES	
PACS 60020	IDENTITY DRIVEN CONFLICTS	
PACS 60021	POWER, CONFLICT AND THE POLITICS OF GENDER	
PACS 60022	SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS	
PACS 60023	PEACE PSYCHOLOGY	
PACS 60024	VISUAL METHODS FOR PEACE AND CHANGE	
Culminating Requirement		
PACS 60099	INTERVENTION DESIGN AND IMPLEMENTATION IN PEACE AND CONFLICT STUDIES	3-6
or PACS 60192	INTERNSHIP IN PEACE AND CONFLICT STUDIES	
or PACS 60199	THESIS I	
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**60-61**

[1] MGMT 68051 may be waived for students with at least two years of full-time work experience.

Dual Degree with M.A. in Sport Administration

Students have the opportunity to complete a dual degree program with the M.A. degree in Sport Administration and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual M.B.A./M.A. in Sports Administration provides students with an integrated business and sports management education and prepares students for responsible leadership positions in sports settings. The program culminates with an internship, research project or thesis.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2-3
or RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2-3
or SPAD 65042	LEADERSHIP OF SPORT	
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
SPAD 65008	SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY	3
SPAD 63091	RESEARCH SEMINAR	1
SPAD 65039	FINANCIAL ASPECTS OF SPORT	3
SPAD 65045	SPORT MARKETING	3
Law Elective, choose from the following:		2-6
FIN 66050	LAW AND ETHICS	
SPAD 53018 & SPAD 65033	ETHICS IN SPORT and SPORT LAW	
Ambassador Crawford College of Business and Entrepreneurship Graduate Electives (50000 level or higher), choose from the following:		6
Accounting (ACCT) Course		
Business (BUS) Course		
Computer Information Systems (CIS) Course		
Economics (ECON) Course		
Entrepreneurship (ENTR) Course		
Finance (FIN) Course		
Human Resource Management (HRM) Course		
Management (MGMT) Course		
Marketing (MKTG) Course		
Sport Administration Major Electives, choose any SPAD or approved elective: [1]		6-9
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Choose from the following: [1]		3-6
SPAD 63098	RESEARCH	
SPAD 63199	THESIS I	
SPAD 65092	INTERNSHIP IN SPORT ADMINISTRATION [2]	
Minimum Total Credit Hours:		**56**

[1] Students who select SPAD 63098 or SPAD 65092 as the culminating requirement must select 9 credit hours of Sport Administration electives.

[2] Students choosing SPAD 65092 may be required to complete state or Federal background checks for their practicum or internship experience.

Dual Degree with M.A. in Translation

Students have the opportunity to complete a dual degree program with the M.A. degree in Translation and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The Dual Degree with a M.B.A. degree in Business Administration and the M.A. degree in Translation is for students with a sufficient level of proficiency in a foreign language who wish to integrate a graduate business education with advanced translation training. This program is suitable for those whose career goals include assuming middle or executive management positions in international business or language industry enterprises or those interested in starting their own business in the language services industry.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
TRST 60001	GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES	3
TRST 60010	THEORY OF TRANSLATION AND INTERPRETING	2
TRST 60011	TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION	3
TRST 60012	SOFTWARE AND WEBSITE LOCALIZATION	3
Second Language or Culture Elective [1]		3-6
International Electives		
Translation Elective, choose from the folllowing:		2
FR 63010	THE PRACTICE OF FRENCH TRANSLATION	
GER 61010	THE PRACTICE OF GERMAN TRANSLATION	
JAPN 65010	THE PRACTICE OF JAPANESE TRANSLATION	
RUSS 62010	THE PRACTICE OF RUSSIAN TRANSLATION	
SPAN 68010	THE PRACTICE OF SPANISH TRANSLATION	
Commercial, Legal and Diplomatic Translation Elective, choose from the following:		3
FR 63250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	

GER 61250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
JAPN 65250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
RUSS 62250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
SPAN 68250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
Scientific, Technical and Medical Translation Elective, choose from the following:		3
FR 63251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
GER 61251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
JAPN 65251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
RUSS 62251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
SPAN 68251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
Case Study in Translation Elective, choose from the following:		3
FR 63979	CASE STUDY IN TRANSLATION	
GER 61979	CASE STUDY IN TRANSLATION	
JAPN 65979	CASE STUDY IN TRANSLATION	
RUSS 62979	CASE STUDY IN TRANSLATION	
SPAN 68979	CASE STUDY IN TRANSLATION	
Additional Business or Translation Electives, choose from the following:		9
Any Ambassador Crawford College of Business and Entrepreneurship Graduate-Level Course (except for CIS 64042)		
Any Department of Modern and Classical Language Studies Graduate-Level Course [2]		
International Courses (either unit)		
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**60**

[1] Students may take another course or study abroad with approval. Students may complete this requirement with 3 credit hours if a culture or appropriate language course is used for one of the international electives below.

[2] Minimum 3 credits must be taken from the Department of Modern and Classical Language Studies.

Graduation Requirements

- Students in the M.A. Translation and M.B.A dual degree program must earn a minimum 60 total credit hours. There is a minimum requirement of 26 credit hours from the M.B.A. program and 28 credit hours from the M.A. in Translation, with the remaining 6 credit hours to be from either program.
- A minimum 3.000 GPA must be maintained.
- The M.B.A. program should be initiated before 12 credit hours in the M.A. Translation program have been completed. The M.A. in Translation is awarded upon completion of the requirements of that degree. The M.B.A. is awarded upon completion of the joint M.B.A./M.A. Translation degree program.
- Actual offerings and schedules vary from year to year, and the two colleges jointly provide a pre-approved recommended course of study. Students who wish to take a different course of study need to obtain separate approvals from the college graduate coordinators.

Dual Degree with M.Arch. in Architecture

Students have the opportunity to complete a dual degree program with the Master of Architecture degree and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual degree combining the M.Arch. and the M.B.A. is designed for architects or undergraduate architectural students who aspire to middle or executive management positions in architectural practices, or who are interested in starting their own business along with the preparation to enter the profession of architecture by stimulating the growth of technical knowledge and design creativity. It fosters the refinement of design skills acquired in undergraduate programs, also by offering a broad exposure to professional issues and knowledge.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
ARCH 60101	GRADUATE DESIGN STUDIO I	6
ARCH 60102	GRADUATE DESIGN STUDIO II	5
ARCH 60150	PROJECT PROGRAMMING	3
ARCH 60199	GRADUATE DESIGN STUDIO III	8
ARCH 60301	THEORIES OF ARCHITECTURE	3
ARCH 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
ARCH 65001	PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT	2
ARCH 65002	PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW	2
ARCH 65003	PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT	3
ARCH 66995	SPECIAL TOPICS IN ARCHITECTURE [1]	1
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
Ambassador Crawford College of Business and Entrepreneurship Graduate Electives (50000 level or higher)		3
Accounting (ACCT) Course		
Business (BUS) Course		
Business Analytics (BA) Course		
Computer Information Systems (CIS) Course		
Economics (ECON) Course		

Entrepreneurship (ENTR) Course		
Finance (FIN) Course		
Human Resource Management (HRM) Course		
Management (MGMT) Course		
Marketing (MKTG) Course		
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**64**

[1] Topics in professional practice.

- Actual offerings and schedules vary from year to year and the college will jointly provide a pre-approved recommended course of study. Students who wish to take a different course of study need to obtain separate approvals from both college graduate coordinators. Contact the College of Architecture and Environmental Design graduate secretary for details on coursework registration.

Graduation Requirements

Minimum of 64 credit hours: 35 credit hours from the M.Arch. degree and 29 credit hours from the M.B.A. degree.

Dual Degree with M.Ed. in Higher Education Administration and Student Affairs

Students have the opportunity to complete a dual degree program with the M.Ed. degree in Higher Education Administration and Student Affairs and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HIED 66492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION	6
HIED 66652	LAW AND HIGHER EDUCATION	3
HIED 66653	COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE	3
HIED 66657	LEADERSHIP IN EDUCATION ORGANIZATIONS	3
HIED 66662	POLITICS AND POWER IN ORGANIZATIONS	3
HIED 66667	BUSINESS ADMINISTRATION IN HIGHER EDUCATION	3
HIED 66671	THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION	3
HIED 66676	INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS	3
HIED 66733	INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS	3
HIED 66749	ASSESSMENT AND ACCREDITATION IN HIGHER EDUCATION	3
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	1
MKTG 65051	MARKETING MANAGEMENT	2
Higher Education (HIED) Electives		3
Ambassador Crawford College of Business and Entrepreneurship Graduate Elective (50000 level or higher), choose from the following:		3
Accounting (ACCT) Course		
Business (BUS) Course		
Business Analytics (BA) Course		
Computer Information Systems (CIS) Course		
Economics (ECON) Course		
Entrepreneurship (ENTR) Course		
Finance (FIN) Course		
Human Resource Management (HRM) Course		
Management (MGMT) Course		
Marketing (MKTG) Course		
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**65**

[1] MGMT 68051 may be waived for students with at least two years of full-time work experience.

Dual Degree with M.E.T. in Engineering Technology

Students have the opportunity to complete a dual degree program with the Master of Engineering Technology degree and the Master of Business Administration degree. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The M.B.A./M.E.T. dual degree is designed for students with the dual goal of pursuing the a highly technical degree while at the same time preparing for a career that will hold increasing levels of management positions.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
BA 64036	BUSINESS ANALYTICS	3
BA 64060	FUNDAMENTALS OF MACHINE LEARNING	3
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2

ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
ENGR 52363	MATERIALS SELECTION IN DESIGN AND APPLICATIONS	3
ENGR 57200	SYSTEMS ENGINEERING	3
ENGR 57210	SUSTAINABLE ENERGY I	3
ENGR 60000	PROJECT MANAGEMENT IN A TECHNOLOGICAL ENVIRONMENT	3
ENGR 65500	QUALITY SYSTEMS AND INDUSTRIAL PRODUCTIVITY	3
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	0-1
MKTG 65051	MARKETING MANAGEMENT	2
Engineering Electives, choose from the folloiwng:		6
ENGR 52410	ENGINEERING OPTIMIZATION	
ENGR 60003	SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT	
ENGR 60092	INDUSTRIAL PRACTICE	
ENGR 62610	INDUSTRIAL ROBOTICS AND VISION SYSTEMS	
ENGR 62611	INDUSTRIAL ROBOTICS AND VISION SYSTEMS LABORATORY	
ENGR 62620	INDUSTRIAL AUTOMATION AND CONTROL	
ENGR 62621	INDUSTRIAL AUTOMATION AND CONTROL LABORATORY	
ENGR 63010	INFORMATION TECHNOLOGY FUNDAMENTALS	
ENGR 63100	COMPUTER-AIDED DESIGN	
Culminating Experience		
ENGR 52710 & ENGR 52711	ADDITIVE MANUFACTURING AND 3D PRINTING and ADDITIVE MANUFACTURING AND 3D PRINTING LABORATORY	3
or ENGR 60092	INDUSTRIAL PRACTICE	
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**55-56**

[1] MGMT 68051 may be waived for students with at least two years of full-time work experience.

Dual Degree with M.L.I.S. in Library and Information Science

Students have the opportunity to complete a dual degree program with the M.B.A. degree in Business Administration and the M.L.I.S. degree in Library and Information Science. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
LIS 50645	DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS	3
LIS 60020	INFORMATION ORGANIZATION	3
LIS 60030	PEOPLE IN THE INFORMATION ECOLOGY	3
LIS 60040	INFORMATION INSTITUTIONS AND PROFESSIONS	3
LIS 60050	RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE	3
LIS 60401	LEADERSHIP IN LIBRARIES AND INFORMATION CENTERS	3
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	1
MKTG 65051	MARKETING MANAGEMENT	2
Ambassador Crawford College of Business and Entrepreneurship Graduate Elective (50000 level or higher), choose from the following:		3
Accounting (ACCT) Course		
Business (BUS) Course		
Business Analytics (BA) Course		
Computer Information Systems (CIS) Course		
Economics (ECON) Course		
Entrepreneurship (ENTR) Course		
Finance (FIN) Course		
Human Resource Management (HRM) Course		
Management (MGMT) Course		
Marketing (MKTG) Course		
Library and Information Science Electives [2]		9
Culminating Requirement		
LIS 60099	MASTER'S PORTFOLIO IN LIBRARY AND INFORMATION SCIENCE	1
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**59**

[1] MGMT 68051 may be waived for students with at least two years of full-time work experience.

[2] Any LIS graduate courses in accord to student's career goals may count as an elective in consultation with academic advisors. Students interested in working in a corporate or nonprofit environment will find topics such as record keeping, records management, information policy, knowledge management, library management and database fundamentals to be important in their future work.

Dual Degree with M.S. in Aviation Management and Logistics

Applications to the Dual Degree M.B.A./M.S. Aviation Management and Logistics are not being accepted at this time.

Students have the opportunity to complete a dual degree program with the M.S. degree in Aviation Management and Logistics and the M.B.A.

degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual M.S./M.B.A. degree program prepares students for responsible leadership positions and provides an integrated business and aviation management and logistics education with an emphasis on regional, national and global implications in the field of aviation.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
AERN 65091	SEMINAR IN EMERGING ISSUES IN AVIATION LOGISTICS	2
AERN 65100	LOGISTICAL STRATEGIES IN AVIATION MANAGEMENT	2
AERN 65150	LEGAL AND REGULATORY ISSUES FOR AIR CARGO MANAGEMENT	2
AERN 65200	AVIATION ECONOMICS AND FISCAL MANAGEMENT	2
AERN 65230	MODELING AND FORECASTING FOR AVIATION LOGISTICS PLANNING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
ENGR 60003	SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT	2
ENGR 60030	QUANTITATIVE METHODS I	2
ENGR 60040	QUANTITATIVE METHODS II	2
ENGR 60078	RESEARCH METHODS IN TECHNOLOGY	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	1
MKTG 65051	MARKETING MANAGEMENT	2
Ambassador Crawford College of Business and Entrepreneurship Graduate Elective (50000 level or higher), choose from the following:		3
Accounting (ACCT) Course		
Business (BUS) Course		
Business Analytics (BA) Course		
Computer Information Systems (CIS) Course		
Economics (ECON) Course		
Entrepreneurship (ENTR) Course		
Finance (FIN) Course		
Human Resource Management (HRM) Course		
Management (MGMT) Course		
Marketing (MKTG) Course		
Aeronautics Electives, choose from the followoing: [2]		4
AERN 65092	PRACTICUM IN AERONAUTICS [3]	
AERN 65201	AVIATION INDUSTRY CONTRACT MANAGEMENT	
AERN 65235	HUMAN ERROR ANALYSIS IN AVIATION	
AERN 65240	AVIATION SAFETY MANAGEMENT SYSTEMS	
AERN 65300	AIRLINE TRANSPORTATION OPERATIONS	
AERN 65301	AIR CARGO SECURITY	
AERN 65400	WEATHER FOR AVIATION LOGISTICS PLANNING [2]	
AERN 65496	INDIVIDUAL INVESTIGATION IN AERONAUTICS [3]	
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**53**

1. MGMT 68051 is required for students who have not worked a minimum of two years, full-time, since obtaining their bachelor's degree. **Students waived the course may graduate with 52 credit hours.**
2. Students with no previous aviation weather experience are required to take AERN 65400 as an elective.
3. Maximum 6 credit hours of AERN 65092 and AERN 65496, combined, may be applied toward degree.

Dual Degree with M.S. in Hospitality and Tourism Management

Applications to the Dual Degree M.B.A./M.S. Hospitality and Tourism Management are not being accepted at this time.

Student have the opportunity to complete a dual degree program with the M.B.A. degree in Business Administration and the M.S. degree in Hospitality and Tourism Management. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual M.B.A./M.S. degree prepares students for responsible leadership positions and provides an integrated hospitality and tourism education with an emphasis on regional, national and global implications of the field.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HTM 55047	GLOBAL ISSUES OF TOURISM TRADE	3
HTM 56000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	3

HTM 63022	CURRENT ISSUES IN HOSPITALITY AND TOURISM MANAGEMENT	3
HTM 63091	RESEARCH SEMINAR	1
HTM 65041	TOURISM AND HOSPITALITY REVIEW	3
MGMT 64158	LEADERSHIP	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Culminating Requirement		
HTM 51092	HOSPITALITY AND TOURISM MANAGEMENT PROFESSIONAL PRACTICUM	3
HTM 64099	HOSPITALITY AND TOURISM MANAGEMENT CAPSTONE	3
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**50**

Dual Degree with M.S. in Knowledge Management

Applications to the Dual Degree M.B.A./M.S. Knowledge Management are not being accepted at this time.

Applications to the Dual Degree M.B.A./M.S. Knowledge Management are not being accepted at this time.

Students have the opportunity to complete a dual degree program with the M.B.A. degree and the M.S. degree in Knowledge Management. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The M.B.A./M.S. dual degree program prepares students for responsible leadership positions and offers an integrated business and knowledge management curriculum. Dual degree graduates will be able to design, deliver, support and lead knowledge management programs at the enterprise and project levels. Through courses, internships and other opportunities, students gain real-world, practical experience in developing and applying knowledge to improve organizational strategies, processes and technical skills with an emphasis on regional, national and global implications.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
KM 60301	FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT	3
KM 60302	DESIGNING AND IMPLEMENTING KNOWLEDGE MANAGEMENT IN THE WORKPLACE	3
KM 60306	THOUGHT LEADERSHIP AND CAREER DEVELOPMENT IN KNOWLEDGE MANAGEMENT	1
LIS 60636	KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES	3
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	0-1
MKTG 65051	MARKETING MANAGEMENT	2
Ambassador Crawford College of Business and Entrepreneurship Graduate Elective (50000 level or higher), choose from the following:		3
Accounting (ACCT) Course		
Business (BUS) Course		
Business Analytics (BA) Course		
Computer Information Systems (CIS) Course		
Economics (ECON) Course		
Entrepreneurship (ENTR) Course		
Finance (FIN) Course		
Human Resource Management (HRM) Course		
Management (MGMT) Course		
Marketing (MKTG) Course		
Major electives, choose from the following:		12-15
Emerging Media and Technology (EMAT) Course		
Health Informatics (HI) Course		
Knowledge Management (KM) Course		
Library and Information Science (LIS) Course		
User Experience Design (UXD) Course		
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Culminating Elective, choose from the following: [2]		3-6
KM 66092	MASTER'S INTERNSHIP IN KNOWLEDGE MANAGEMENT	
KM 66099	MASTER'S PROJECT IN KNOWLEDGE MANAGEMENT	
KM 66198	MASTER'S RESEARCH PAPER IN KNOWLEDGE MANAGEMENT	
KM 66199	THESIS I	
Minimum Total Credit Hours:		**58-59**

1 MGMT 68051 may be waived for students with at least two years of full-time work experience.

2 Students who select thesis as their culminating requirement will complete 3 credit hours of College of Communication and Information electives; all others will complete 6 credit hours.

Graduation Requirements

- Students may graduate with fewer than 59 total credit hours but no fewer than 58 total credit hours.

Dual Degree with M.S.N. in Nursing

Student have the opportunity to complete a dual degree program with the M.B.A. degree in Business Administration and the M.S.N degree in Nursing. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The M.B.A./M.S.N. dual degree is for experienced nurses whose career goals include assuming middle or executive management positions in health services agencies or in health-related companies, or who are interested in starting their own businesses. It combines the strengths of advanced nursing preparation with the practical management knowledge needed to develop significant leadership capabilities.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
or NURS 60010	ADVANCED NURSING INFORMATICS	
ECON 52086	ECONOMICS OF HEALTH CARE	2-3
or ECON 62022	MANAGERIAL ECONOMICS	
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
FIN 66050	LAW AND ETHICS	2-3
or NURS 60020	LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS	
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
or NURS 60014	LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT	
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	1
MKTG 65051	MARKETING MANAGEMENT	2
NURS 60016	ADVANCED ASSESSMENT, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE NURSE LEADER	3
NURS 60024	HEALTH CARE ORGANIZATION, STRUCTURE AND BEHAVIOR	3
NURS 60025	HEALTH POLICY AND ADVANCED NURSING PRACTICE	3
NURS 60101	THEORETICAL BASIS FOR NURSING PRACTICE	3
NURS 60403	METHODS OF INQUIRY	3
NURS 64002	PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS	3
Ambassador Crawford College of Business and Entrepreneurship Graduate Electives (50000 level or higher), choose from the following:		6
Accounting (ACCT) Course		
Business (BUS) Course		
Business Analytics (BA) Course		
Computer Information Systems (CIS) Course		
Economics (ECON) Course		
Entrepreneurship (ENTR) Course		
Finance (FIN) Course		
Human Resource Management (HRM) Course		
Management (MGMT) Course		
Marketing (MKTG) Course		
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
NURS 64292	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM	2
NURS 64302	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP SEMINAR	2
NURS 64392	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II PRACTICUM	2
Minimum Total Credit Hours:		**58**

[1] MGMT 68051 is required for students who have not worked a minimum of two years, full-time, since obtaining their bachelor's degree. **Students waived the course may graduate with 57 credit hours.**

Full Description

The Master of Business Administration degree prepares students for responsible leadership positions in private, nonprofit and public organizations. Upon completion of the M.B.A. degree, graduates demonstrate a global mindset and competence in critical thinking, digital technology, communication, teamwork and ethical and sustainable management.

The program welcomes students from the full range of undergraduate degrees. Regardless of their undergraduate education, students will find a challenging program designed to prepare them for management positions in organizations.

The degree is structured for full-time/in-person and full-time or part-time online students:

- The full-time/in-person program is targeted to early career professionals, both nationally and internationally, who wish to jump-start their business career, and to those who wish to make a business-related career change. The program operates in cohorts so that students proceed through the sequence of required courses as a group. Students take six to seven courses each semester (offered in eight-week modules) and are expected to participate in experiential activities such as internships, mentoring and professional development activities. Delivery of the program is accelerated; students are able to earn the M.B.A. degree in 12 to 16 months.
- The online program is designed for those who want maximum flexibility in pursuing their M.B.A. degree. Students can take courses to suit their life: from one course at a time to a full-time course load. This is an ideal program for professionals who intend to keep working full-time while pursing the M.B.A., and for those students who want to pursue their M.B.A. without commuting to campus.

The Business Administration major includes the following optional concentrations:

- The **Accounting** concentration allows students to specialize their degree with courses in managerial and financial accounting, business valuation using financial statements and international accounting. Completion of this concentration is not sufficient to sit for the CPA exam in Ohio unless the student has an undergraduate accounting major.
- The **Business Analytics** concentration allows students to gain the technical, analytical, communication, decision-making and leadership skills needed to glean useful information from data to make strategic business decisions.
- The **Digital Transformation** concentration prepares students for a more dynamic, modular and techie-savvy world.

- The **Finance** concentration allows students to specialize their degree with advanced courses in investments, financial markets and institutions, real estate and other related areas.
- The **Healthcare Administration** concentration provides business students with knowledge of the healthcare setting that will support their capacity to work effectively in a variety of healthcare organizations.
- The **Human Resource Management** concentration allows students to specialize their degree with advanced topics in employee selection and appraisal, organizational analysis and the opportunity for real-world applications.
- The **International Business** concentration allows students to specialize their degree with courses in accounting, marketing, finance and strategy with an international focus. Study abroad options are possible, with no language skills required.
- The **Leadership in Conflict Mediation** concentration allows students to develop advanced skills that will support their capacity to lead in higher level positions.

Students may pursue an online **stackable certificate pathway** to the M.B.A. by completing the Leadership and Management graduate certificate, the Quantitative Business Management graduate certificate and a set of remaining courses to earn the M.B.A. degree. Students who choose a Business Analytics, Financial, Human Resource Management, International Business or Leadership in Conflict Mediation concentration can take one additional course and stack an additional graduate certificate in Business Analytics, Financial Management, Human Resource Management, International Business or Leading Through Challenge.

The following dual degree programs with the M.B.A. are possible. A separate application must be submitted for each program.

- **Combined degree with the Doctor of Podiatric Medicine degree** prepares students to run their own Podiatric Medicine practice. Students can view admission requirements for each program on their respective catalog page.
- **Dual degree with the Master of Architecture degree** is designed for architects or undergraduate architectural students whose career goals include assuming middle or executive management positions in architectural practices, or who are interested in starting their own businesses.
- **Dual degree with the Master of Engineering Technology degree** is designed for students with the dual goal of pursuing the a highly technical degree while at the same time preparing for a career that will hold increasing levels of management positions.
- **Dual degree with the Master of Library and Information Science degree** is designed for managers of large libraries and information centers. Individuals in these positions need knowledge pertaining to planning, organizing, staffing, directing and controlling. Advanced education to obtain knowledge and learn skills related to these management functions enables students to take advantage of career opportunities both in library settings and other information settings, both in the profit and nonprofit sectors.
- **Dual degree with the Master of Public Health degree** prepares students for responsible leadership positions and offers an integrated business and public health curriculum designed to help students develop real-world knowledge and skills needed to pursue success and management opportunities in the public health industry.
- **Dual degree with the Master of Science in Nursing degree** is designed for experienced nurses whose career goals include assuming middle- or executive-management positions in health services agencies or in health-related companies, or who are interested in starting their own business. The program combines the strengths of advanced nursing preparation with the practical management knowledge needed to develop significant leadership capabilities.
- **Dual degree with the M.A. degree in Communication Studies** is designed for students and professionals whose career goals focus on communication, particularly global communication. The program provides direction and leadership in economic and business development processes.
- **Dual degree with the M.A. degree in Peace and Conflict Studies** converges the field of conflict management and the field of business. Students learn how business works alongside understanding the dynamics of conflict and how to successfully transform it to succeed in business and to transform organizational cultures.
- **Dual degree with the M.A. degree in Sport Administration** is designed to provide students with the knowledge, skills and experiences to enable them to become successful professionals in the field of sports and recreation management. The program integrates management theory and application in sports settings with a broad business curriculum to give graduates a competitive advantage.
- **Dual degree with the M.A. degree in Translation** is designed for linguists. By combining the practices and language of business, students can pursue language-based careers in the private, public and governmental sectors.
- **Dual degree with the M.Ed. degree in Higher Education Administration and Student Affairs** is designed for professionals who aspire to responsible leadership positions in higher education. The program provides an integrated curriculum grounded in theory and focused on practice to support diverse student populations. Students are equipped with necessary skills to make the business decisions required of leaders in higher education.
- **Dual degree with the M.S. degree in Aviation Management and Logistics** prepares students for responsible leadership positions and provides an integrated business and aviation management and logistics education with an emphasis on regional, national and global implications in the field of aviation. *Applications to this dual degree are not being accepted at this time.*
- **Dual degree with the M.S. degree in Hospitality and Tourism Management** prepares students for responsible leadership positions and provides an integrated hospitality and tourism education with an emphasis on regional, national and global implications of the field. *Applications to this dual degree are not being accepted at this time.*
- **Dual degree with the M.S. degree in Knowledge Management** is designed for students who seek the capacity to develop and apply knowledge to improve organizational strategies. Graduates will be able to design, deliver, support and lead knowledge-management programs at project and enterprise levels.

Business Management - B.B.A.

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

Our Business Management B.B.A. program offers a comprehensive education in business fundamentals, management principles and leadership strategies to help you succeed in a wide range of industries. With experienced faculty, real-world opportunities and a strong focus on hands-on learning, you'll develop the skills needed to tackle complex business challenges and achieve your career goals. Enroll now and take the first step towards a successful career in business management. Read more...

Contact Information

- **Steven A. Dennis** | sdenni14@kent.edu | 330-672-2426
- Speak with an Advisor
  - Ashtabula Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Examples of Possible Careers and Salaries*

General and operations managers

- 5.8% faster than the average
- 2,486,400 number of jobs
- $103,650 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Project management specialists and business operations specialists, all other

- 5.9% faster than the average
- 1,361,800 number of jobs
- $77,420 potential earnings

Sales managers

- 3.5% about as fast as the average
- 433,800 number of jobs
- $132,290 potential earnings

Transportation, storage, and distribution managers

- 3.5% about as fast as the average
- 139,400 number of jobs
- $96,390 potential earnings

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Transfer Student: A minimum 2.000 overall GPA is required for admission into the major. Students who have previously attended Kent State and have completed (or the equivalent of) COMM 15000, ENG 21011, MATH 11010 and MGMT 24163 must have earned a minimum C grade in the courses.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BA 44152	PROJECT MANAGEMENT (min C grade)	3
HRM 34180	HUMAN RESOURCE MANAGEMENT (min C grade)	3
MGMT 34165	DYNAMICS OF LEADERSHIP (min C grade)	3
MGMT 34185	ORGANIZATIONAL BEHAVIOR (min C grade)	3
MGMT 44163	GLOBAL BUSINESS MANAGEMENT (WIC) (min C grade) [1]	3
MGMT 44392	BUSINESS CONSULTING AND PRACTICUM (ELR) (min C grade)	3
Major Electives, choose from the following: (min C grade)		6
BUS 30189	INTERNATIONAL BUSINESS EXPERIENCE (DIVG) (ELR)	
or MGMT 44189	INTERNATIONAL MANAGEMENT EXPERIENCE (DIVG) (ELR)	
CIS 34054	USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS	
HRM 44183	DEVELOPING AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS	
HRM 44185	STAFFING HUMAN RESOURCES	
MGMT 34157	INTRODUCTION TO THE U.S. HEALTHCARE SYSTEM	
MGMT 34158	HEALTHCARE TECHNOLOGY MANAGEMENT	
MGMT 34159	MANAGING HEALTHCARE ORGANIZATIONS	
MGMT 34164	ORGANIZATIONAL MENTORING	
MGMT 34175	LEARNING TO LEAD	
MGMT 44009	THE BUSINESS CASE FOR SUSTAINABILITY	
MGMT 44192	INTERNSHIP IN MANAGEMENT (ELR)	
College Electives, choose from the following:		6
ACCT 33063	COST CONTROL AND ANALYSIS FOR MANAGEMENT [3]	
ECON 32082	INTRODUCTION TO MANAGERIAL ECONOMICS	
FIN 36040	PERSONAL FINANCIAL PLANNING	
MKTG 35046	PROFESSIONAL SELLING	
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I [6]	3
BA 34156	BUSINESS ANALYTICS II	3
BA 44062	SUPPLY CHAIN MANAGEMENT	3
BUS 10123	EXPLORING BUSINESS [4]	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MGMT 24163	PRINCIPLES OF MANAGEMENT (min C grade)	3
MGMT 44285	STRATEGIC MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10001	FLASHES 101	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Mathematics or Critical Reasoning Elective, choose from the following: [5]		3-5
MATH 10051	QUANTITATIVE REASONING (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	
Kent Core Composition [7]		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [8]		10
Minimum Total Credit Hours:		**120**

[1] A minimum C grade is required to fulfill the writing intensive requirement.

[2] Students who study abroad may use BUS 30234 as a college elective for the major.

[3] Students who change their major from Accounting to Business Management, or who have declared both the Accounting and Business Management majors or have declared the Accounting minor, may substitute ACCT 33010 in place of ACCT 33063.

[4] A student changing to a program in the college, transferring, or incoming students with college credits may be waived out of BUS 10123 if:

1. 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, CIS 24053, FIN 26074, MGMT 24163 or MKTG 25010) have successfully been completed.
2. 60 or more credit hours have been earned and the student has successfully completed one course (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
3. At the discretion of the dean's office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP score or Credit by Exam) but does not meet the requirements listed above.

[5] Taking MATH 10051 or PHIL 21002 will not replace a low grade in either MATH 11012 or MATH 12002. Students are required to take MATH 11012 or MATH 12002 if they change their major to, or want to double major with, the Economics major or Finance major and/or intend to declare the Data Analytics minor. Students who intend to enroll in certain graduate programs and/or are working toward Phi

Beta Kappa status are highly encouraged to take MATH 11012 or MATH 12002.

6 Students who have taken MATH 10041 for another program may use it as a substitute for BA 24056.

7 Minimum C grade required in ENG 21011 or HONR 20197.

8 A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

Progression Requirements

- Minimum 2.000 overall GPA
- Minimum C grade required in COMM 15000, ENG 21011, MATH 11010 and MGMT 24163.
- Minimum C grade in all major requirements.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete at least 50 percent of their major credit hours in residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the college for complete satisfaction of the B.B.A. degree.

Roadmap

Semester One		Credits
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Mathematics or Critical Reasoning Elective		3-5
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
Required for progression in the major: minimum 2.000 overall GPA, minimum C grade in COMM 15000, ENG 21011, MATH 11010 and MGMT 24163		
BA 44062	SUPPLY CHAIN MANAGEMENT	3
FIN 36053	BUSINESS FINANCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Six		
Required: minimum overall 2.000 GPA		
BA 34156	BUSINESS ANALYTICS II	3
MGMT 34165 or MGMT 34175	DYNAMICS OF LEADERSHIP or LEARNING TO LEAD	3
Major Elective		3
College Elective		3
General Elective		3
	Credit Hours	**15**
Semester Seven		
Required: minimum overall 2.000 GPA		
BA 44152	PROJECT MANAGEMENT	3
MGMT 44163	GLOBAL BUSINESS MANAGEMENT (WIC)	3
Major Elective		3
General Elective		6
	Credit Hours	**15**
Semester Eight		
Required: minimum overall 2.000 GPA and completion of The Assurance of Learning Assessment given in MGMT 44285		
MGMT 34185	ORGANIZATIONAL BEHAVIOR	3
MGMT 44285	STRATEGIC MANAGEMENT	3
MGMT 44392	BUSINESS CONSULTING AND PRACTICUM (ELR)	3
College Elective		3
General Elective		1
	Credit Hours	**13**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies

Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Assess and suggest appropriate solutions to human resource-related business problems.
2. Assess and suggest appropriate solutions to business concerns in global markets.
3. Demonstrate an understanding of basic principles of project management.
4. Demonstrate an understanding of leadership principles and theories.

Kent State University's Ambassador Crawford College of Business and Entrepreneurship students earning a BBA are expected to have developed skills in the following critical areas of business:

1. Core Business Knowledge - Recall the strategic frameworks that are used to make business decisions.
2. Analytical Skills - Use analytical methodologies and critical thinking skills to evaluate and solve business problems.
3. Digital Technology – Demonstrate the technological skills necessary to analyze business problems and develop solutions.
4. Written Communication - Write effective business communications.
5. Oral Communication - Make effective business presentations, using appropriate technologies.
6. Teamwork – Collaborate effectively with others to achieve a common business purpose.
7. Business Ethics – Recognize ethical business dilemmas and use ethical decision making to resolve the dilemma.
8. Global - Analyze the key global factors when making business decisions.

Full Description

The Bachelor of Business Administration degree in Business Management gives students credentials important to getting their first job as an entry-level manager or manager-trainee. Every organization of any size and type depends on and needs managers, including, as examples, the small corner store, department stores, accounting firms, healthcare centers, manufacturing firms or a business-to-business type of organization.

Business Management students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

General Business - B.B.A.

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

Kent State's General Business B.B.A. program offers a comprehensive curriculum that covers all aspects of modern business, from marketing and finance to management and entrepreneurship. With experienced faculty, cutting-edge resources and real-world opportunities, you'll gain the skills needed to excel in a wide range of business roles. Enroll now and take the first step towards a rewarding career in business. Read more...

Contact Information

- **Steven A. Dennis** | sdenni14@kent.edu | 330-672-2426
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Administrative services and facilities managers

- 6.5% faster than the average
- 325,900 number of jobs
- $98,890 potential earnings

Construction managers

- 8.5% much faster than the average
- 476,700 number of jobs
- $97,180 potential earnings

General and operations managers

- 5.8% faster than the average
- 2,486,400 number of jobs
- $103,650 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Sales managers

- 3.5% about as fast as the average
- 433,800 number of jobs
- $132,290 potential earnings

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer Student: A minimum 2.000 overall GPA is required for admission into this major. Students who have previously attended Kent State and have completed COMM 15000, ENG 21011 (or HONR 20197), MATH 11010 (or placement out of ENG 11011 and/or MATH 11010) must have earned a minimum C grade in the courses (or their equivalent).

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ACCT 33061	FINANCIAL REPORTING ISSUES AND ANALYSIS (min C grade)	3
CIS 34054	USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS (min C grade)	3
ECON 32025	MONEY, CREDIT AND BANKING (min C grade)	3
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP (min C grade)	3
FIN 36063	INDIVIDUAL INVESTMENT STRATEGIES (min C grade)	3
HRM 34180	HUMAN RESOURCE MANAGEMENT (min C grade)	3
MKTG 35035	CONSUMER BEHAVIOR (min C grade in both courses)	3
or MKTG 45045	ADVERTISING AND PROMOTION MANAGEMENT	
Major Elective, choose from the following: (min C grade) [2]		3
BUS 30234	INTERNATIONAL BUSINESS	
ECON 42075	INTERNATIONAL ECONOMIC RELATIONS	
MGMT 34157	INTRODUCTION TO THE U.S. HEALTHCARE SYSTEM	
MGMT 34158	HEALTHCARE TECHNOLOGY MANAGEMENT	
MGMT 34159	MANAGING HEALTHCARE ORGANIZATIONS	
MGMT 34165	DYNAMICS OF LEADERSHIP	
MGMT 34175	LEARNING TO LEAD	
MGMT 34185	ORGANIZATIONAL BEHAVIOR	
MGMT 44192	INTERNSHIP IN MANAGEMENT (ELR)	
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I [5]	3
BA 34156	BUSINESS ANALYTICS II	3
BA 44062	SUPPLY CHAIN MANAGEMENT	3
BUS 10123	EXPLORING BUSINESS [3]	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 44299	MANAGEMENT CAPSTONE (ELR) (WIC) (min C grade) [1]	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10001	FLASHES 101	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1

Mathematics or Critical Reasoning Elective, choose from the following: [4]		3-5
MATH 10051	QUANTITATIVE REASONING (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	
Kent Core Composition [6]		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [7]		16
Minimum Total Credit Hours:		**120**

[1] A minimum C grade is required to fulfill the writing intensive requirement.

[2] Students may fulfill major electives by selecting any remaining business courses listed above and/or approved upper-division courses from business or non-business disciplines. A course fulfilling the experiential learning requirement (ELR) is recommended if not already satisfied.

[3] A student changing to a program in the college, transferring, or an incoming student with college credits, may be waived out of BUS 10123 if:

1. 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed
2. 60 or more credit hours have been earned and the student has successfully completed one course (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
3. At the discretion of the dean's office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP score or Credit by Exam) but does not meet the requirements listed above

[4] Taking MATH 10051 or PHIL 21002 will not replace a low grade in either MATH 11012 or MATH 12002. Students are required to take MATH 11012 or MATH 12002 if they change their major to, or want to double major with, the Economics major or Finance major and/or intend to declare the Data Analytics minor. Students who intend to enroll in certain graduate programs and/or are working toward Phi Beta Kappa status are highly encouraged to take MATH 11012 or MATH 12002.

[5] Students who have taken MATH 10041 for another program may use it as a substitute for BA 24056.

[6] Minimum C grade required in ENG 21011 or HONR 20197.

[7] ECON 12060 is recommended as a general elective. Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses allowed. An education abroad course is encouraged as a general elective.

Progression Requirements

- Minimum 2.000 overall GPA
- Minimum C grade in COMM 15000, ENG 21011 and MATH 11010 (or placement out of MATH 11010)
- Minimum C grade in all major requirements

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete at least 50 percent of their major credit hours in residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the college for complete satisfaction of the B.B.A. degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	BUS 10123	EXPLORING BUSINESS	3
!	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Composition		3
	Kent Core Humanities		3
		Credit Hours	**16**
	Semester Two		
	CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
!	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
!	UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
	Mathematics or Critical Reasoning Elective		3-5
	Kent Core Composition		3
	Kent Core Fine Arts		3
		Credit Hours	**16**
	Semester Three		
!	ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
	ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
!	FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
	MGMT 24163	PRINCIPLES OF MANAGEMENT	3
		Credit Hours	**15**
	Semester Four		
!	ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
	BA 24056	BUSINESS ANALYTICS I	3
	BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
	MKTG 25010	PRINCIPLES OF MARKETING	3
	Kent Core Basic Sciences with a Laboratory		3-4
		Credit Hours	**15**
	Semester Five		
	Required for progression in the major: minimum 2.000 cumulative GPA, minimum C grade in COMM 15000, ENG 21011 (or HONR 20197) and MATH 11010		
	BA 44062	SUPPLY CHAIN MANAGEMENT	3

	FIN 36053	BUSINESS FINANCE	3
	HRM 34180	HUMAN RESOURCE MANAGEMENT	3
	MKTG 35035 or MKTG 45045	CONSUMER BEHAVIOR or ADVERTISING AND PROMOTION MANAGEMENT	3
	General Elective		3
		Credit Hours	**15**
	Semester Six		
	Required for progression in the major: minimum cumulative 2.000 GPA		
	CIS 34054	USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS	3
!	FIN 36063	INDIVIDUAL INVESTMENT STRATEGIES	3
	Kent Core Basic Sciences		3
	Kent Core Humanities or Fine Arts		3
	General Elective		3
		Credit Hours	**15**
	Semester Seven		
	Required for progression in the major: minimum cumulative 2.000 GPA		
	ACCT 33061	FINANCIAL REPORTING ISSUES AND ANALYSIS	3
	BA 34156	BUSINESS ANALYTICS II	3
!	Major Elective		3
	Kent Core Social Sciences		3
	General Electives		4
		Credit Hours	**16**
	Semester Eight		
	Required for graduation: minimum cumulative 2.000 GPA and completion of the Assurance of Learning Assessment given in MGMT 44299		
	ECON 32025	MONEY, CREDIT AND BANKING	3
	MGMT 44299	MANAGEMENT CAPSTONE (ELR) (WIC)	3
	General Electives		6
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate effective management and leadership ability when given an organizational dilemma
2. Use financial tools to create budgets, prepare financial statements and report financial position
3. Identify and analyze global considerations that affect business decisions
4. Identify how organizations use and leverage information systems and digital technologies to solve business problems
5. Create and communicate value for consumers

Graduates of the Bachelor of Business Administration degree will be able to:

1. Core Business Knowledge - Recall strategic frameworks that are used to make business decisions.
2. Analytical Skills - Use analytical methodologies and critical thinking skills to evaluate and solve business problems.
3. Digital Technology - Demonstrate the technological skills necessary to analyze business problems and develop solutions.
4. Written Communication - Write effective business communications.
5. Oral Communication - Make effective business presentations, using appropriate technologies.
6. Teamwork - Collaborate effectively with others to achieve a common business purpose.
7. Business Ethics - Recognize ethical business dilemmas and use ethical decision making to resolve the dilemma.
8. Global - Analyze the key global factors when making a business decision.

Full Description

The Bachelor of Business Administration degree in General Business is for students who desire a holistic understanding of all business areas rather than a specialized area of business, i.e., accounting, business management, computer information systems, economics, entrepreneurship, finance, human resource management and marketing.

General Business students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

Healthcare Systems Management for Business Majors - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

The Healthcare Systems Management for Business Majors minor fills the management niche in healthcare and builds strong synergies. These synergies complement student and industry interests in healthcare systems management as a minor and builds a more marketable repertoire for students.

Contact Information

- **Steven A. Dennis** | sdenni14@kent.edu | 330-672-2426
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Code	Title	Credit Hours
Minor Requirements		
MGMT 34157	INTRODUCTION TO THE U.S. HEALTHCARE SYSTEM	3
MGMT 34158	HEALTHCARE TECHNOLOGY MANAGEMENT	3
MGMT 34159	MANAGING HEALTHCARE ORGANIZATIONS	3
Minor Electives, choose from the following:		9
BA 44062	SUPPLY CHAIN MANAGEMENT	
BA 44152	PROJECT MANAGEMENT	
HRM 34180	HUMAN RESOURCE MANAGEMENT	
MGMT 44392	BUSINESS CONSULTING AND PRACTICUM (ELR)	
PH 10001	INTRODUCTION TO PUBLIC HEALTH	
Minimum Total Credit Hours:		**18**

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
MGMT 34157	INTRODUCTION TO THE U.S. HEALTHCARE SYSTEM	3
MGMT 34158	HEALTHCARE TECHNOLOGY MANAGEMENT	3
MGMT 34159	MANAGING HEALTHCARE ORGANIZATIONS	3
Minor Electives, choose from the following:		9
BA 44062	SUPPLY CHAIN MANAGEMENT	
BA 44152	PROJECT MANAGEMENT	
HRM 34180	HUMAN RESOURCE MANAGEMENT	
MGMT 44392	BUSINESS CONSULTING AND PRACTICUM (ELR)	
PH 10001	INTRODUCTION TO PUBLIC HEALTH	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate understanding of economic issues facing healthcare industry.
2. Demonstrate understanding of the impact of technology in the delivery of. healthcare.
3. Demonstrate understanding of healthcare operations.
4. Demonstrate understanding of project management in healthcare.

Healthcare Systems Management for Non-Business Majors - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

The Healthcare Systems Management for Non-Business Majors minor fills the management niche in healthcare and builds strong synergies. These synergies complement student and industry interests in healthcare systems management as a minor and builds a more marketable repertoire for students.

Contact Information

- **Steven A. Dennis** | sdenni14@kent.edu | 330-672-2426
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Healthcare Systems Management for Non-Business Majors minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Only students declared in a major outside the college may declare this major.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
BA 44152	PROJECT MANAGEMENT	3
MGMT 34157	INTRODUCTION TO THE U.S. HEALTHCARE SYSTEM	3
MGMT 34158	HEALTHCARE TECHNOLOGY MANAGEMENT	3
MGMT 34159	MANAGING HEALTHCARE ORGANIZATIONS	3
Minor Electives, choose from the following:		6
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	
BA 44062	SUPPLY CHAIN MANAGEMENT	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	
ECON 42086	ECONOMICS OF HEALTH CARE	
FIN 36053	BUSINESS FINANCE	
HRM 34180	HUMAN RESOURCE MANAGEMENT	
MGMT 24163	PRINCIPLES OF MANAGEMENT	
MKTG 25010	PRINCIPLES OF MARKETING	
PH 10001	INTRODUCTION TO PUBLIC HEALTH	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate understanding of economic issues facing healthcare industry.
2. Demonstrate understanding of the impact of technology in the delivery of healthcare.
3. Demonstrate understanding of healthcare operations.
4. Demonstrate understanding of project management in healthcare.

Human Resource Management - B.B.A.

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

Develop your skills for a career in HR with Kent State's B.B.A. in Human Resource Management. Gain practical experience and theoretical knowledge to excel in the dynamic field of HR. Enroll now and take the first step towards a fulfilling career. More info...

Contact Information

- **Steven A. Dennis** | sdenni14@kent.edu | 330-672-2426
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Compensation and benefits managers

- 2.5% slower than the average
- 18,000 number of jobs
- $125,130 potential earnings

Compliance officers

- 4.6% about as fast as the average
- 337,600 number of jobs
- $71,100 potential earnings

Human resources assistants, except payroll and timekeeping

- -5.0% decline
- 123,900 number of jobs
- $43,250 potential earnings

Human resources managers

- 6.3% faster than the average
- 165,200 number of jobs
- $121,220 potential earnings

Training and development managers

- 7.3% faster than the average
- 42,300 number of jobs
- $115,640 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer Student: A minimum 2.000 overall GPA is required for admission into the program. Students who have previously attended Kent State and have completed COMM 15000, ENG 21011 and MATH 11010 (or placement out of those courses) must have earned a minimum C grade in the course (or their equivalent).

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
HRM 34180	HUMAN RESOURCE MANAGEMENT (min C grade)	3
HRM 44183	DEVELOPING AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS (min C grade)	3
HRM 44185	STAFFING HUMAN RESOURCES (min C grade)	3
HRM 44445	GLOBAL HUMAN RESOURCE MANAGEMENT (WIC) (min C grade) [1]	3
HRM 44492	BUSINESS EXPERIENCE AND INTERNSHIP IN HUMAN RESOURCE MANAGEMENT (ELR) (min C grade in either course)	3
or HRM 44499	HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR)	
HRM 44660	PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS (min C grade)	3
HRM 44763	HUMAN RESOURCE ANALYTICS AND ERP SYSTEMS (min C grade)	3
MGMT 34185	ORGANIZATIONAL BEHAVIOR (min C grade)	3
Major Electives, choose from the following: (min C grade)		6
HRM 34189	INTERNATIONAL EXPERIENCE IN HUMAN RESOURCE MANAGEMENT (DIVG) (ELR)	
HRM 44091	SEMINAR IN HUMAN RESOURCE MANAGEMENT	
HRM 44492	BUSINESS EXPERIENCE AND INTERNSHIP IN HUMAN RESOURCE MANAGEMENT (ELR) [2]	
or HRM 44499	HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR)	
MGMT 34157	INTRODUCTION TO THE U.S. HEALTHCARE SYSTEM	
MGMT 34158	HEALTHCARE TECHNOLOGY MANAGEMENT	
MGMT 34159	MANAGING HEALTHCARE ORGANIZATIONS	
MGMT 34164	ORGANIZATIONAL MENTORING	
MGMT 34165	DYNAMICS OF LEADERSHIP	
MGMT 34175	LEARNING TO LEAD	
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I [3]	3
BA 44062	SUPPLY CHAIN MANAGEMENT	3
BUS 10123	EXPLORING BUSINESS [4]	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 44285	STRATEGIC MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3

UC 10001	FLASHES 101	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Mathematics or Critical Reasoning Elective, choose from the following: [5]		3-5
MATH 10051	QUANTITATIVE REASONING (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	
Kent Core Composition [6]		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [7]		13
Minimum Total Credit Hours:		**120**

[1] A minimum C grade is required to fulfill the writing intensive requirement.

[2] Course used to fulfill a major requirement may not be used to also fulfill a major elective.

[3] Students who have taken MATH 10041 for another program may use it as a substitute for BA 24056.

[4] Students changing their program to one in the college, transferring, or an incoming student with college credit plus credits, may be waived out of BUS 10123 if:

- 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
- 60 or more credit hours have been earned and the student has successfully completed one course (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
- At the discretion of the college dean's office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP score or Credit by Exam) but does not meet the requirements listed above.

[5] Taking MATH 10051 or PHIL 21002 will not replace a low grade in either MATH 11012 or MATH 12002. Students are required to take MATH 11012 or MATH 12002 if they change their major to, or want to double major with, the Economics major or Finance major and/or intend to declare the Data Analytics minor. Students who intend to enroll in certain graduate programs and/or are working toward Phi Beta Kappa status are highly encouraged to take MATH 11012 or MATH 12002.

[6] Minimum C grade in ENG 21011 or HONR 20197.

[7] Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses allowed.

Progression Requirements

- Minimum 2.000 overall GPA
- Minimum C grade in COMM 15000, ENG 21011, HRM 34180 and MATH 11010
- Minimum C grade in all major requirements

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the college for complete satisfaction of the B.B.A. degree.
- Students must complete at least 50 percent of their major credit hours in residence on a Kent State University campus.
- Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
UC 10001	FLASHES 101	1
Mathematics or Critical Reasoning Elective		3-5
Kent Core Humanities or Fine Arts		3
Kent Core Composition		3
	Credit Hours	**16**
Semester Two		
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11012 or MATH 12002	INTUITIVE CALCULUS (KMCR) or ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	3
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition		3
Kent Core Fine Arts		3
	Credit Hours	**16**
Semester Three		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Kent Core Basic Sciences		3
	Credit Hours	**15**
Semester Four		
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Humanities		3
	Credit Hours	**15**

Semester Five		
Required for progression in the major: minimum 2.000 overall GPA, minimum C grade in COMM 15000, ENG 21011, MATH 11010 and HRM 34180.		
BA 44062	SUPPLY CHAIN MANAGEMENT	3
FIN 36053	BUSINESS FINANCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
Kent Core Basic Sciences		3
Kent Core Social Sciences		3
	Credit Hours	**15**
Semester Six		
Required: minimum overall 2.000 GPA		
HRM 44763	HUMAN RESOURCE ANALYTICS AND ERP SYSTEMS	3
MGMT 34185	ORGANIZATIONAL BEHAVIOR	3
Major Elective		3
General Electives		6
	Credit Hours	**15**
Semester Seven		
Required: minimum overall 2.000 GPA		
HRM 44183	DEVELOPING AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS	3
HRM 44185	STAFFING HUMAN RESOURCES	3
HRM 44660	PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS	3
Major Elective		3
General Elective		3
	Credit Hours	**15**
Semester Eight		
Required: minimum overall 2.000 GPA and completion of the Assurance of Learning Assessment given in MGMT 44285.		
HRM 44445	GLOBAL HUMAN RESOURCE MANAGEMENT (WIC)	3
HRM 44492 or HRM 44499	BUSINESS EXPERIENCE AND INTERNSHIP IN HUMAN RESOURCE MANAGEMENT (ELR) or HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR)	3
MGMT 44285	STRATEGIC MANAGEMENT	3
General Electives		4
	Credit Hours	**13**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate effective human resource management and leadership ability when presented with a human resource-related dilemma or opportunity.
2. Demonstrate understanding of the roles of analytics and ERP systems in making human resource management business decisions.
3. Identify and analyze global human resource concerns that affect business decisions.
4. Create and communicate value for all stakeholders in the organization.
5. Demonstrate knowledge of legal issues related to human resource management.

Students earning a B.B.A. degree in Ambassador Crawford College of Business and Entrepreneurship are expected to have developed skills in the following critical areas of business:

1. Core Business Knowledge - Recall the strategic frameworks that are used to make business decisions.
2. Analytical Skills - Use analytical methodologies and critical thinking skills to evaluate and solve business problems.
3. Digital Technology – Demonstrate the technological skills necessary to analyze business problems and develop solutions.
4. Written Communication - Write effective business communications.
5. Oral Communication - Make effective business presentations, using appropriate technologies.
6. Teamwork – Collaborate effectively with others to achieve a common business purpose.
7. Business Ethics – Recognize ethical business dilemmas and use ethical decision making to resolve the dilemma.
8. Global - Analyze the key global factors when making business decisions.

Full Description

The Bachelor of Business Administration degree in Human Resource Management prepares students for leadership positions in human resource departments, including the ability to establish and advance organizational policies and guidelines and to utilize the tools and techniques for developing transformational work environments.

Students learn about employee relations; human resource planning; training and development; performance management; compensation and benefits; global human resource management; staffing, analyzing and designing jobs; strategic human resource management; human resource management analytics; and enterprise resource planning (ERP) systems. Graduates are prepared to become business leaders equipped with the ability to identify, analyze and solve complex human resource and management issues.

Human Resource Management students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

Human Resource Management - Graduate Certificate

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

The Human Resource Management graduate certificate allows students to gain specialized knowledge in the human resources domain. Topics offered include employee selection and appraisal, performance management and compensation, global human resources, leadership and organizational change and current issues.

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- **Justin McHenry** | jwmchenr@kent.edu | 330-672-1232
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Human resources managers

- 6.3% faster than the average
- 165,200 number of jobs
- $121,220 potential earnings

Human resources specialists

- 7.0% faster than the average
- 666,500 number of jobs
- $63,490 potential earnings

Labor relations specialists

- -6.8% decline
- 78,900 number of jobs
- $73,240 potential earnings

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
Certificate Electives, choose from the following:		12
HRM 54183	DEVELOPMENT AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS	
HRM 54185	STAFFING HUMAN RESOURCES	
HRM 54445	GLOBAL HUMAN RESOURCE MANAGEMENT	
HRM 64399	APPLIED TOPICS IN HUMAN RESOURCE MANAGEMENT	
MGMT 64160	LEADERSHIP AND ORGANIZATIONAL CHANGE	
Minimum Total Credit Hours:		**14**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate effective human resource management and leadership ability when presented with a human resource-related dilemma or opportunity.
2. Identify and analyze human resource concerns that affect business decisions.
3. Create and communicate value for all stakeholders in the organization.
4. Demonstrate knowledge of legal issues related to human resource management.

Human Resource Management - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

Gain the knowledge and skills needed to succeed in a wide range of HR roles and stand out in a competitive job market with the Human Resource Management minor. With a focus on practical experience and real-world applications, this program equips you with the tools needed to effectively manage employees and promote a positive work environment. Read more...

Contact Information

- **Steven A. Dennis** | sdenni14@kent.edu | 330-672-2426
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Human Resources minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34165	DYNAMICS OF LEADERSHIP	3
or MGMT 34175	LEARNING TO LEAD	
or MGMT 34185	ORGANIZATIONAL BEHAVIOR	
Minor Electives, choose from the following:		9
HRM 44091	SEMINAR IN HUMAN RESOURCE MANAGEMENT	
HRM 44183	DEVELOPING AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS	
HRM 44185	STAFFING HUMAN RESOURCES	
HRM 44499	HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR)	
HRM 44660	PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS	
HRM 44763	HUMAN RESOURCE ANALYTICS AND ERP SYSTEMS	
MGMT 34157	INTRODUCTION TO THE U.S. HEALTHCARE SYSTEM	
MGMT 34158	HEALTHCARE TECHNOLOGY MANAGEMENT	
MGMT 34159	MANAGING HEALTHCARE ORGANIZATIONS	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students should plan on four semesters to complete this minor due to sequencing and availability of courses.
- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.

- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate effective human resource management and leadership ability when presented with a human resource-related dilemma or opportunity.
2. Create and communicate value for all stakeholders in the organization.
3. Demonstrate understanding of legal issues related to human resource management.

Full Description

The Human Resource Management minor focuses on the competitive advantage derived from the more effective use of human resource management policies, practices and procedures. The minor is relevant to a variety of students who want to learn to better manage a company's human resources in many positions after graduation, including line managers who need to implement human resource policies as they hire and manage the performance of their employees; entrepreneurs who need a fundamental knowledge of human resources management to run their companies more effectively; and members of not-for-profit organizations who need to understand the basics because they rarely are able to hire human resources staff.

The Human Resource Management minor covers a range of topic areas taught from both theoretical and applied perspectives. Students are exposed to a wide array of human resource functional areas, including staffing, performance management, training, compensation, human resource information systems and employer-employee rights and responsibilities.

International Business - Graduate Certificate

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

The International Business graduate certificate allows students to gain specialized knowledge in a variety of domains of international business. Study abroad options are possible, with no language skills required.

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- **Justin McHenry** | jwmchenr@kent.edu | 330-672-1232
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

General and operations managers

- 5.8% faster than the average
- 2,486,400 number of jobs
- $103,650 potential earnings

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
MGMT 64184	INTERNATIONAL BUSINESS	3
Certificate Electives, choose from the following: [1]		6
FIN 56064	INTERNATIONAL BUSINESS FINANCE	
FIN 56280	GOLDEN FLASH ASSET MANAGEMENT DIRECTOR	
FIN 66040	INTERNATIONAL ISSUES IN BANKING AND FINANCE	
HRM 54445	GLOBAL HUMAN RESOURCE MANAGEMENT	
MGMT 54009	THE BUSINESS CASE FOR SUSTAINABILITY	
MGMT 64275	GLOBAL STRATEGIC MANAGEMENT	
MKTG 65054	INTERNATIONAL MARKETING	
Minimum Total Credit Hours:		**13**

[1] Study abroad options are available to use for credit hours toward this certificate program.

Progression Requirements

- Maintain good standing

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the international business environment.
2. Use creative thinking and deploy innovative strategies to articulate global opportunities and employ available resources.
3. Demonstrate the capacity to collaborate with international partners to create shared value.

International Business for Business Majors - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

The International Business minor introduces students to cultural issues of a broad, global nature. Students are encouraged to participate in study-abroad programs to complement their studies. Global business is fast becoming an important part of the U.S. economy. The world that college graduates are facing will essentially be a borderless world. This suggests a need to be trained for employment that will have international implications. Whether students take a major in business, fashion design and merchandising, the hard sciences, English or education, some training in global outreach, cultural diversity and "business cultures" will be necessary.

Contact Information

- **Steven A. Dennis** | sdenni14@kent.edu | 330-672-2426
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

- To declare the minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
BUS 30234	INTERNATIONAL BUSINESS	3
ECON 42075	INTERNATIONAL ECONOMIC RELATIONS	3
or FIN 46064	INTERNATIONAL BUSINESS FINANCE	
or MKTG 45060	INTERNATIONAL MARKETING	
Global Experience (study abroad, internship abroad, global internship) [1]		3
For study abroad, choose from the following:		
ACCT 43089	INTERNATIONAL ACCOUNTING EXPERIENCE (DIVG) (ELR)	
BUS 30189	INTERNATIONAL BUSINESS EXPERIENCE (DIVG) (ELR)	
ECON 42189	INTERNATIONAL ECONOMIC EXPERIENCE (DIVG) (ELR)	
ENTR 47189	INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP (DIVG) (ELR)	
FIN 46089	INTERNATIONAL FINANCE EXPERIENCE (DIVG) (ELR)	
HRM 34189	INTERNATIONAL EXPERIENCE IN HUMAN RESOURCE MANAGEMENT (DIVG) (ELR)	
MGMT 44189	INTERNATIONAL MANAGEMENT EXPERIENCE (DIVG) (ELR)	
MKTG 45189	INTERNATIONAL EXPERIENCE IN MARKETING (DIVG) (ELR)	
Language Requirement, choose from the following:		3-11
Three courses from a single foreign language		

Two courses in two foreign languages	
Interagency Language Roundtable (ILR) Level One competency [2]	
Minimum Total Credit Hours:	**12**

[1] Students who study abroad and take at least one business course can use any other courses taken for their program (such as Kent Core) to satisfy the global experience.

[2] As determined by an international business faculty advisor in consultation with the appropriate language faculty member. Generally this proficiency can be achieved by completion of the Intermediate I level of a foreign language. If the student has achieved foreign language competency without earning credit hours, then the student must choose from the following:

- another course from the minor elective choices not taken to satisfy the the minor; or
- an additional foreign language course.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students with an interest in this minor are encouraged to take as their Kent Core Social Sciences at least one of the following courses: GEOG 17063, POL 10004 and/or POL 10500.
- Satisfaction of all courses prerequisites is required.
- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain the role of culture and history on international business.
2. Demonstrate understanding of how to leverage technology as an instrument of globalization.
3. Explain dynamics of cross-border trade, tariffs and non-trade barriers.
4. Elaborate on the foundational concepts of international business.
5. Explain direct foreign investment, exchange rates.

International Business for Non-Business Majors - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

The International Business minor introduces students to cultural issues of a broad, global nature. Students are encouraged to participate in study-abroad programs to complement their studies. Global business is fast becoming an important part of the U.S. economy. The world that college graduates are facing will essentially be a borderless world. This suggests a need to be trained for employment that will have international implications. Whether students take a major in business, fashion design and merchandising, the hard sciences, English or education, some training in global outreach, cultural diversity and “business cultures” will be necessary.

Contact Information

- **Steven A. Dennis** | sdenni14@kent.edu | 330-672-2426
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor’s degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

- To declare the minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
BUS 30234	INTERNATIONAL BUSINESS	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
ECON 42075	INTERNATIONAL ECONOMIC RELATIONS	3
or FIN 46064	INTERNATIONAL BUSINESS FINANCE	
or MKTG 45060	INTERNATIONAL MARKETING	
FIN 36053	BUSINESS FINANCE	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Global Experience (study abroad, internship abroad or global internship) [1]		3
For study abroad, choose from the following:		
ACCT 43089	INTERNATIONAL ACCOUNTING EXPERIENCE (DIVG) (ELR)	
BUS 30189	INTERNATIONAL BUSINESS EXPERIENCE (DIVG) (ELR)	
ECON 42189	INTERNATIONAL ECONOMIC EXPERIENCE (DIVG) (ELR)	
ENTR 47189	INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP (DIVG) (ELR)	
FIN 46089	INTERNATIONAL FINANCE EXPERIENCE (DIVG) (ELR)	

HRM 34189	INTERNATIONAL EXPERIENCE IN HUMAN RESOURCE MANAGEMENT (DIVG) (ELR)	
MGMT 44189	INTERNATIONAL MANAGEMENT EXPERIENCE (DIVG) (ELR)	
MKTG 45189	INTERNATIONAL EXPERIENCE IN MARKETING (DIVG) (ELR)	
Language Requirement, choose from the following:		0-11
Courses on a single foreign language		
Two courses in two foreign languages		
Interagency Language Roundtable (ILR) Level One competency [2]		
Minimum Total Credit Hours:		**24-35**

[1] Students who study aboard and take at least one business course can use any other courses taken for their program (such as Kent Core) to satisfy the global experience.

[2] As determined by an international business faculty advisor in consultation with the appropriate language faculty member. Generally, this proficiency can be achieved by completion of the Intermediate I level of a foreign language.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students with an interest in this minor are encouraged to take as their Kent Core Social Sciences at least one of the following courses: GEOG 17063, POL 10004 and/or POL 10500.
- Satisfaction of all course prerequisites is required.
- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain the role of culture and history on international business.
2. Demonstrate understanding of how to leverage technology as an instrument of globalization.
3. Explain dynamics of cross-border trade, tariffs and non-trade barriers.
4. Elaborate on the foundational concepts of international business.
5. Explain direct foreign investment, exchange rates.

Leadership - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

The Leadership minor provides students skills in understanding the business environment as a system of interrelated and interdependent parts. Students learn how to analyze the system to identify opportunities and challenges for addressing stakeholder concerns, in addition to gaining skills for influencing others to work toward sustainable practices. Responsible leadership involves making sustainable business decisions that consider the interests of all stakeholders including employees, clients, suppliers, customers, society, the environment and future generations. Addressing these varied and often conflicting concerns requires skill.

Contact Information

- **Steven A. Dennis** | sdenni14@kent.edu | 330-672-2426
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
COMM 35863	BUSINESS AND PROFESSIONAL COMMUNICATION	3
or MGMT 34175	LEARNING TO LEAD	
or MGMT 44395	SPECIAL TOPICS IN MANAGEMENT	
or PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34165	DYNAMICS OF LEADERSHIP	3
Minor Electives, choose from the following:		6
MGMT 34185	ORGANIZATIONAL BEHAVIOR	
MGMT 44009	THE BUSINESS CASE FOR SUSTAINABILITY	
PACS 32040	CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG)	
PACS 33030	CONFLICT IN THE WORKPLACE	
PSYC 30821	PSYCHOLOGY OF MOTIVATION	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of leadership principles and theory.
2. Demonstrate skills in assessing and proposing solutions for critical issues managers face.
3. Demonstrate an understanding of the workplace as a system of interrelated and interdependent parts.

Leadership and Management - Graduate Certificate

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

The Leadership and Management graduate certificate prepares participants to serve as responsible leaders in public, private and nonprofit organizations. Because the need for leadership and management competence is ubiquitous across all organizations, this certificate program welcomes participants from all fields and undergraduate degree backgrounds.

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- **Justin McHenry** | jwmchenr@kent.edu | 330-672-1232
- Connect with an Admissions Counselor: U.S. Student | International Student

Fully Offered

- **Delivery:**
  - Fully online
  - In person

Examples of Possible Careers and Salaries*

General and operations managers

- 5.8% faster than the average
- 2,486,400 number of jobs
- $103,650 potential earnings

Human resources managers

- 6.3% faster than the average
- 165,200 number of jobs
- $121,220 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Training and development managers

- 7.3% faster than the average
- 42,300 number of jobs
- $115,640 potential earnings

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcripts
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
FIN 66050	LAW AND ETHICS	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
MKTG 65051	MARKETING MANAGEMENT	2
Minimum Total Credit Hours:		**10**

Progression Requirements

- Maintain good standing

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Articulate their position and apply their ideas effectively in writing.
2. Articulate their position and apply their ideas orally.
3. Articulate their ideas collaboratively as part of a team and provide some meaningful contribution to the overall team effort.
4. Identify stakeholders related to ethical dilemmas and understand the difference between the ethical and legal aspects of the dilemma.
5. Identify alternatives and consequences regarding an ethical dilemma and support a course of action.

Roadmap

Semester One		Credits
First Eight Weeks		
MGMT 64158	LEADERSHIP	2
Second Eight Weeks		
MKTG 65051	MARKETING MANAGEMENT	2
	Credit Hours	**4**
Semester Two		
First Eight Weeks		
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
FIN 66050	LAW AND ETHICS	2
Second Eight Weeks		
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
	Credit Hours	**6**
	Minimum Total Credit Hours:	**10**

Leading Through Challenge - Graduate Certificate

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

The Leading Through Challenge graduate certificate provides skill development useful to managers who seek to rise to higher levels of leadership. High-level leaders typically encounter challenging situations that require skills in negotiation and mediation, as well as how to manage change and conflict.

Contact Information

- **Adam Cooke** | crawfordgrad@kent.edu | 330-672-1280
- **Felecia Urbanek** | furbanek@kent.edu | 330-672-2282
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In Person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

General and operations managers

- 5.8% faster than the average
- 2,486,400 number of jobs
- $103,650 potential earnings

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions

- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
MGMT 64158	LEADERSHIP	2
MGMT 64160	LEADERSHIP AND ORGANIZATIONAL CHANGE	3
PACS 54040	NEGOTIATION	3
PACS 58080	MEDIATION: THEORY AND TRAINING	3
PACS 60004	ORGANIZATIONAL CONFLICT AND COOPERATION	3
Minimum Total Credit Hours:		**14**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain growth in self-awareness from completed managerial assessments.
2. Describe how to lead positive organizational change.
3. Demonstrate successful negotiation skills.
4. Demonstrate successful mediation skills.
5. Describe organizational conflict, organizational culture and collaboration, power dynamics, decision-making and problem-solving in organizations.

Management for Business Majors - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

The Management minor provides a basic core of management courses, with emphasis on strategic management, leadership and the management of employees. Students gain an overview of managerial functions and expertise that will add value to the career preparations provided by their major programs.

Contact Information

- **Steven A. Dennis** | sdenni14@kent.edu | 330-672-2426
- Speak with an Advisor
  - Ashtabula Campus
  - Kent Campus
  - Stark Campus
  - Trumbull Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - Kent Campus
  - Stark Campus
  - Trumbull Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

- To declare the minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.
- Students in the Business Management major may not declare this minor or the Management for Non-Business Major minor.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
CIS 34054	USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS	3
or MGMT 34185	ORGANIZATIONAL BEHAVIOR	
COMM 20001	INTERPERSONAL COMMUNICATION	3
or COMM 35863	BUSINESS AND PROFESSIONAL COMMUNICATION	
ENG 30064	ARGUMENTATIVE PROSE WRITING	3
or ENG 30065	EXPOSITORY PROSE WRITING	
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 34165	DYNAMICS OF LEADERSHIP	3
or MGMT 34175	LEARNING TO LEAD	
PSYC 31282	PERSONALITY	3
or PSYC 31773	INDUSTRIAL PSYCHOLOGY	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.

- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Assess and suggest appropriate solutions to human resource-related business problems.
2. Demonstrate an understanding of leadership principles and theories.
3. Demonstrate an understanding of basic financial accounting records.
4. Demonstrate understanding of impact of globalization on business.

Management for Non-Business Majors - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

The Management minor provides a basic core of management courses, with emphasis on strategic management, leadership and the management of employees. Students gain an overview of managerial functions and expertise that will add value to the career preparations provided by their major programs.

Contact Information

- **Steven A. Dennis** | sdenni14@kent.edu | 330-672-2426
- Speak with an Advisor
  - Ashtabula Campus
  - Geauga Campus
  - Kent Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - Geauga Campus
  - Kent Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

- To declare the minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.
- Students in the Business Management major may not declare this minor or the Management for Business Major minor.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34165	DYNAMICS OF LEADERSHIP	3
or MGMT 34175	LEARNING TO LEAD	
Curricular Areas (maximum one course per curricular area), choose from the following:		6
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	
CIS 34054	USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS	
or MGMT 34185	ORGANIZATIONAL BEHAVIOR	
COMM 20001	INTERPERSONAL COMMUNICATION	
or COMM 35863	BUSINESS AND PROFESSIONAL COMMUNICATION	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	
or ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	
FIN 36053	BUSINESS FINANCE	
MKTG 25010	PRINCIPLES OF MARKETING	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Assess and suggest appropriate solutions to human resource-related business problems.
2. Demonstrate an understanding of leadership principles and theories.
3. Demonstrate an understanding of basic financial accounting records.
4. Demonstrate understanding of impact of globalization on business.

Military and Leadership Studies - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Management
www.kent.edu/business

About This Program

Military and Leadership Studies minor provides you with the knowledge and skills needed to excel in leadership roles within the military and beyond. With experienced faculty and a curriculum that emphasizes leadership, communication and critical thinking, you'll be well-prepared for success in a variety of fields. Read more...

Contact Information

- **Steven A. Dennis** | sdenni14@kent.edu | 330-672-2426
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34165	DYNAMICS OF LEADERSHIP	3
Aerospace Studies (ASTU), Military Science (MSCI) or Military Credit Electives		6
Leadership Elective, choose from the following:		3
BA 44152	PROJECT MANAGEMENT	
HRM 34180	HUMAN RESOURCE MANAGEMENT	
MGMT 34175	LEARNING TO LEAD	
MGMT 34185	ORGANIZATIONAL BEHAVIOR	
Military History Elective, choose from the following:		3
HIST 30049	MODERN EUROPEAN HISTORY, 1914-1945	
HIST 30070	THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 31024	WORLD WAR II	
HIST 31035	THE GLOBAL COLD WAR	
HIST 31072	AMERICA AND THE WORLD: 1898-1945	
HIST 31073	AMERICA AND THE WORLD SINCE 1945	
HIST 31085	ALEXANDER HAMILTON'S WORLD: 18TH-CENTURY AMERICA (DIVD)	
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT	
HIST 31118	VIETNAM WAR	
POL 40530	POLITICS OF WAR	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Military Science and Aerospace Studies Professors may grant access to junior and senior level courses for non-ROTC students who are pursing a Military and Leadership Studies minor and who are not contracted ROTC students.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand leadership strategies.
2. Understand different types of leadership.

Full Description

Leadership styles, organizational structure and behavior and a global perspective form the common ground between the military and business. The Military and Leadership Studies minor provides an overview of management, leadership and international business. Students will gain military perspective through hands-on experience as well as coursework. The interdisciplinary minor is open to all students.

A minor in Military and Leadership Studies allows students who have completed specialized ROTC or military service courses to receive credit for this training. Normally, these courses are applied as electives within a degree program. The minor provides proof on a student's transcript that they have specialized in the area of Military and Leadership Studies.

Department of Marketing and Entrepreneurship

Ambassador Crawford College of Business and Entrepreneurship
Department of Marketing and Entrepreneurship
302 Crawford Hall
Kent Campus
330-672-2170
marketing@kent.edu
www.kent.edu/business/marketing

Undergraduate Programs

- Entrepreneurship - B.B.A.
- Marketing - B.B.A.

Minors

Undergradaute

- Entrepreneurship for Business Majors
- Entrepreneurship for Non-Business Majors
- Marketing

Certificates

Undergraduate Certificates

- Professional Sales

Department of Marketing and Entrepreneurship Faculty

- Aimone, Randy C. (2024), Lecturer, M.B.A., Pace University At New York City, 2008
- Bridges, Eileen (1994), Professor, Ph.D., Northwestern University, 1987
- Groening, Christopher (2013), Professor, Ph.D., University of Pittsburgh, 2008
- Heidler, Mary R. (2011), Associate Lecturer, M.B.A., American University, 1995
- Hsieh, Meng-Hua (2018), Associate Professor, Ph.D., University of Washington, 2013
- Jewell, Robert D. (2004), Professor, Ph.D., Ohio State University, 1999
- Jia, Lei (2022), Assistant Professor, Ph.D., Ohio State University, 2020
- Knapp-Blay, Kelly A. (2016), Associate Lecturer, M.B.A., Bowling Green State University, 1997
- Lee, Denise M. (2009), Senior Lecturer, M.B.A., Ashland University, 2006
- Liu, Kun (2018), Associate Professor, Ph.D., University of Utah, 2006
- Mahar, Christopher (2022), Associate Professor
- Mohammadi Darani, Milad (2019), Assistant Professor, Ph.D., Texas A&M University, Main Camp, 2019
- Spake, Deborah F. (2013), Professor, Ph.D., The University of Alabama, 1999
- Stettler, Tatiana R. (2015), Associate Professor, Ph.D., University of Bern, 2014
- Thacker, Donald (1998), Senior Lecturer, M.B.A., Kent State University-Stark Campus, 1996
- Wang, Tuo (2004), Associate Professor, Ph.D., University of Pittsburgh, 2004
- Wiggins, Jennifer A. (2006), Professor, Ph.D., University of Wisconsin-Madison, 2006
- Zourrig, Haithem (2016), Associate Professor, Ph.D., University of Montreal, 2010

Entrepreneurship (ENTR)

ENTR 27056 INTRODUCTION TO ENTREPRENEURSHIP 3 Credit Hours

Course examines the entrepreneurial process from idea to launch. Topics of study include the entrepreneurial mindset, attributes of successful entrepreneurs, trendspotting, opportunity recognition, innovation, defining problems and solutions, venture screening, risk assessment, risk tolerance, identification of resources and business planning. Additional focuses include sustainability, how to differentiate products and services to the market and how to turn opportunities into viable businesses. The course is delivered using a multi-discipline approach.

Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Entrepreneurship

ENTR 27466 SPEAKER SERIES IN ENTREPRENEURSHIP 1 Credit Hour

This course explores entrepreneurship using the experiences of a broad range of entrepreneurs. During the semester, a series of videos created by the Department of Marketing and Entrepreneurship's instructors, present entrepreneurs sharing their paths in establishing successful enterprises, including obstacles they encountered and missteps they made along the way. In addition, students will view videos of researchers who have studied entrepreneurship that provide additional insight into the patterns, realities and misconceptions associated with entrepreneurship and entrepreneurs

Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENTR 37040 ENTREPRENEURIAL TOOLS 3 Credit Hours

This course provides an overview of the analytical, decision-making, and communication skills students need to succeed in subsequent coursework and as an entrepreneur. Topics include financial analysis, strategic analysis, for-profit business decision-making and persuasive communications.

Prerequisite: ENTR 27056 with a minimum C grade; minimum 2.000 overall GPA; and Entrepreneurship major or minor or Arts Entrepreneurship minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37045 SALES IN THE ENTREPRENEURIAL VENTURE 3 Credit Hours

This course focuses on the fundamentals of human persuasion and sales as they apply to the early stages of a new venture or start-up. Students will be introduced to the skills practiced by accomplished salespeople. These skills, grounded in understanding purchase decisions, will allow students to navigate the different steps of a sale. The course also addresses persuasion in the context of raising capital, establishing partnerships and recruiting and motivating employees. The importance of ethics and creativity throughout the entrepreneurial selling process is addressed as well.

Prerequisite: ENTR 27056; and minimum 2.000 overall GPA; and Entrepreneurship major or minor or Arts Entrepreneurship Minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37065 ENTREPRENEURIAL FINANCE 3 Credit Hours
This course exposes students to the core financial concepts relevant to entrepreneurial situations. Emphasis is given to: 1) the entrepreneur's personal finances and how entrepreneurs get paid, 2) sources of start-up business funding and the consequences associated with each of those options, 3) proper business set up, with focus on establishment of appropriate of financial and cash controls, 4) financial statement and profitability analysis, and the creation of projected financial statements, 5) bootstrapping and working capital management, 6) business decision-making based on financial analysis, 7) how to value and sell a business, and 8) proper transitioning for the business and the entrepreneur after the economic success or sale of a business.
Prerequisite: ECON 22060 and ENTR 27056; minimum 2.000 overall GPA; and Entrepreneurship major or minor or Arts Entrepreneurship minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37070 SOCIAL ENTREPRENEURSHIP 3 Credit Hours
Social entrepreneurs create innovative solutions to solve challenging social and environmental issues affecting the world around them. In this course, students will learn how to lead and manage charities, non-government organizations, social oriented enterprises and not for profit organizations. Students will apply entrepreneurial business and innovative skills to effectively tackle global issues impacting society.
Prerequisite: ENTR 27056.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37075 ENTREPRENEURIAL MARKETING 3 Credit Hours
Application of marketing concepts to entrepreneurial situations. Emphasis is given to market segmentation and analysis, product and service positioning and market-oriented firm development.
Prerequisite: ENTR 27056; and minimum 2.000 overall GPA; and Entrepreneurship major or minor; or Arts Entrepreneurship minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 37080 NEW VENTURE CREATION (WIC) 3 Credit Hours
During this writing and research-intensive course, students will create a feasibility analysis and business plan that will improve the likelihood of new venture success. Topics addressed include: how to define an offering, SWOT & competitive analysis, industry analysis, marketing strategy, operational planning (personnel, inventory, supply chain and location), sales forecasting, financial planning (e.g., proformas, insurance and taxes), strategies for effective partnering with vendors and the identification of key managerial and human resource challenges that a new venture will face. Students will create an action plan for the first 120 days of a business that can be executed in the Entrepreneurial Experience I and II capstone courses.
Prerequisite: ENTR 27056; and ENTR 37040 with a minimum C grade; and ENTR 37065 or FIN 36053; minimum minimum 2.000 overall GPA; and Entrepreneurship major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ENTR 37195 SPECIAL TOPICS IN ENTREPRENEURSHIP I 1-4 Credit Hours
(Repeatable for credit) Special topics course offered on an irregular basis. Topics differ and faculty are involved each time the course is offered. Specific topics may need to request special approval to register the course. Special approval may include items such as: minimum GPA, course prerequisites and instructor approval. The course schedule will contain the enrollment requirements for a specific special topics course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ENTR 45096 INDIVIDUAL INVESTIGATION IN ENTREPRENEURSHIP 1-3 Credit Hours
(Repeatable for credit) Independent investigation of appropriate problem undertaken by a senior entrepreneurship major.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ENTR 47047 STRATEGIC DILEMMAS IN ENTREPRENEURSHIP 3 Credit Hours
Every entrepreneurial challenge requires making a choice. Most of these choices have strategic consequences for the entrepreneur, their ventures, as well as for co-founders, employees, investors and potential acquirers. Students work in groups to tackle a challenge of their interest. They participate in the cycle of inspiration, ideation and experimentation and learn about common entrepreneurial dilemmas around when to start, with whom, what and how. The topics covered include timing of entrepreneurial entry, type of entry, family business dilemmas, division of roles in a new venture, equity split, hiring dilemmas, investor dilemmas and exit choices.
Prerequisite: ENTR 27056 with a minimum C grade; minimum 2.000 overall GPA; and Entrepreneurship major or minor; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENTR 47048 ENTREPRENEURIAL EXPERIENCE I (ELR) 3 Credit Hours
First of a two-course sequence designed to immerse entrepreneurship majors into the dynamics of starting and running a business through the creation of their own venture. Students in this course will utilize a plan they developed in New Venture Creation, ENTR 37080, or create a new business plan. Activities may include identifying market needs, researching financial viability of the business venture to meet that need, marshaling the resources to launch a business and launching the business.
Prerequisite: Minimum C grade in ENTR 37080 and minimum 2.000 overall GPA; and Entrepreneurship major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENTR 47049 ENTREPRENEURIAL EXPERIENCE II 3 Credit Hours
Second of a two-course sequence designed to immerse entrepreneurship majors into the dynamics of starting and running a business through the creation of their own venture. Activities include growing the business started during Entrepreneurial Experience I, meeting all operational requirements of the business, evaluating the business, and determining whether to continue the business or shut it down upon completion of the course.
Prerequisite: ENTR 47048; and minimum 2.000 overall GPA; and Entrepreneurship major and minor.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

ENTR 47091 SEMINAR IN ENTREPRENEURSHIP 3 Credit Hours
(Repeatable for credit) Current topics in entrepreneurship. Entrepreneurship majors will not receive credit for this course. Not open to Entrepreneurship majors.
Prerequisite: ENTR 27056; and student in the College of Business Administration; and junior or senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENTR 47189 INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP (DIVG) (ELR) 3 Credit Hours
The student will gain firsthand exposure to international businesses and organizations generally relating to business, and specifically relating to entrepreneurship. The course includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: ENTR 27056; and Entrepreneurship major or minor; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ENTR 47195 SPECIAL TOPICS IN ENTREPRENEURSHIP II 1-4 Credit Hours
(Repeatable for credit)Special topics course offered on an irregular basis; different topics and faculty involved each time the course is offered. Specific topics may need to request special approval to register for the course. Special approval may include items such as: minimum GPA, course prerequisites and instructor approval. The course schedule will contain the enrollment requirements for a specific special topics course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ENTR 47289 INTERNATIONAL ENTREPRENEURSHIP: THE ITALIAN PERSPECTIVE (DIVG) (ELR) 3 Credit Hours
Course explores the "Creative Entrepreneurial Business Model," particularly relevant in Italy and Mediterranean cultures, in comparison to international models. Students have the unique opportunity to analyze various entrepreneurial business models through conceptual frameworks, cases, guest speakers and site visits, contrasting them with prevalent U.S. models. The class emphasizes active learning, combining lectures, discussions, exercises, case analyses, site visits and presentations to provide a comprehensive understanding of entrepreneurial concepts in the context of international business excellence. This course is only offered in the Florence program.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ENTR 47292 ENTREPRENEURIAL INTERNSHIP (ELR) 3 Credit Hours
Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.
Prerequisite: Minimum 2.000 overall GPA; and Entrepreneurship major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Marketing (MKTG)

MKTG 25010 PRINCIPLES OF MARKETING 3 Credit Hours
(Equivalent to BMRT 21050) An overview of the processes, activities and problems associated with the conception, planning and execution of the pricing, promotion and distribution of ideas, goods and services to create exchange values in the market.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

MKTG 35030 MARKETING APPLICATIONS 3 Credit Hours
Students learn and apply strategic and financial analysis skills to make real-world marketing decisions. Emphasis on marketing planning and core strategic decisions in marketing, including segmentation, targeting and positioning.
Prerequisite: MKTG 25010 with a minimum C grade; and minimum 2.000 overall GPA; and marketing major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35035 CONSUMER BEHAVIOR 3 Credit Hours
Focus is on the decision-making processes of the individual consumer and the psychological, sociological, cultural and economic factors that influence those choices. Understanding why consumers behave in the way that they do is the heart of the study of consumer behavior and informs the formulation of marketing strategy. Periodically offered as an online course.
Prerequisite: MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35046 PROFESSIONAL SELLING 3 Credit Hours
Introduces students to effective communication, successful selling and persuasion techniques, building customer relationships, ethics, the buying and selling process and developing professional sales calls.
Prerequisite: BMRT 21050 or MKTG 25010 or MKTG 35035.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35050 MARKETING RESEARCH 3 Credit Hours
Learn how to formulate research questions, design a study to identify customer needs, attitudes, beliefs and behaviors utilizing existing and new marketing data and analyze the data and communicate the results.
Prerequisite: MKTG 25010; and MATH 10041 or BA 24056; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35056 SOCIAL MEDIA MARKETING 3 Credit Hours
Explore the various opportunities and risks that social media marketing holds for firms. During the course students will learn about topics such as social media's effect on marketing, creating and managing brand presences on social media, creating and marketing a branded viral video and identifying online influencers.
Prerequisite: MKTG 25010; and minimum GPA 2.000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 35061 MARKETING ANALYTICS 3 Credit Hours
This course presents an overview of the process of conducting marketing analytics in a business organization. Broadly, this process encompasses distilling management questions into its causes and consequences, determining data requirements, assembling a data set amenable to analysis, model selection, analysis, and the communication of analytics insights. Consequently, marketing analytics is discussed as a rich, data-driven process to visualize, predict and improve business outcomes, and how to think about analysis and how to communicate its results are emphasized.
Prerequisite: MATH 10041 or BA 24056; and a marketing major or entrepreneurship major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45020 COMPETITIVE MARKET ANALYSIS 3 Credit Hours
Focuses on establishing and maintaining a competitive market position through product and pricing strategies driven by industry and competitive analysis. Students will participate in a marketing simulation where they will make marketing decisions and strive to compete effectively.
Prerequisite: MKTG 25010; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45023 CUSTOMER ANALYSIS 3 Credit Hours
Focuses on the methods marketers use to analyze and understand their customers. Incorporates market segmentation and targeting, understanding consumer and buyer decision-making, and customer relationship management. Students will complete a segmentation plan for a client firm.
Prerequisite: BA 24056 and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45045 ADVERTISING AND PROMOTION MANAGEMENT 3 Credit Hours
Increases students' understanding of advertising concepts as well as structure and functions of different "players" within the industry. Integrates marketing and advertising theory with application in advertising decision-making. Periodically offered as an online course.
Prerequisite: MKTG 25010 or BMRT 21050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45047 ADVANCED PROFESSIONAL SELLING 3 Credit Hours
Builds on the foundation established in Personal Selling and Sales Management (MKTG 45046) by applying sales concepts, participating in live sales calls with Business Partner Company Sales Reps, spending highly focused time in role plays with immediate feedback from the instructors, interacting with guest speakers who are experts in sales, and studying advanced sales and persuasion techniques. Experiential course that requires some flexibility with scheduling for the shadow experiences.
Prerequisite: MKTG 35046 or MKTG 45052 or ENTR 37045; and minimum 2.000 overall GPA.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MKTG 45048 COMPETITIVE SALES SKILLS DEVELOPMENT 1 Credit Hour
(Repeatable for credit) Develops competitive sales skills that will transfer to a professional sales career while learning specific skills to compete in regional, national and international collegiate sales competitions. Experiential course that requires some flexibility with scheduling for the sales competitions and coaching sessions.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MKTG 45049 SALES FORCE LEADERSHIP 3 Credit Hours
Focuses on the strategic areas of contemporary sales force leadership. Emphasis on strategies, leadership skills and management techniques. Provides CRM training and forecasting techniques.
Prerequisite: ENTR 37045 or MKTG 35046.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45051 DIGITAL MARKETING 3 Credit Hours
Understand the important and current applications of digital marketing tools and concepts. This course will cover concepts including customer relationship management, user experience, digital advertising and search engine optimization. We will explore why these are valuable tools and apply them to real-world examples.
Prerequisite: MKTG 25010; and minimum GPA 2.000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45052 SALES AND SALES MANAGEMENT 3 Credit Hours
Focuses on the tactical side of sales management with emphasis on persuasive communication and understanding others' perspectives to reach a "win-win" outcome. Incorporates sales management techniques including effective delegation, team-building and territory management. Students will engage in role playing and simulated selling scenarios.
Prerequisite: MKTG 35046.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45060 INTERNATIONAL MARKETING 3 Credit Hours
(Slashed with MKTG 55060) Examination of international marketing in terms of global markets and trade. Emphasizes differences among markets caused by geography, politics, economics, culture, commercial policy and trade practices.
Prerequisite: BMRT 21050 or MKTG 25010 or MKTG 35035.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45082 SERVICES MARKETING 3 Credit Hours
Provides an integrated understanding of what is required to develop and market a successful service to a chosen target market. Positioning of a service product can be achieved through the "4 Ps" tactics originally used for goods marketing in addition to three new Ps" for services, which include design of the delivery process, recruitment and training of people, and developing appropriate physical evidence. Readings, lectures, tests, and experiential activities are used to develop and assess learning.
Prerequisite: MKTG 25010; and minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 45084 MARKETING POLICIES AND STRATEGIES (ELR) (WIC) 3 Credit Hours
Capstone course for marketing majors. Course deals with marketing policies and strategies with emphasis on managerial decision-making case approach.
Prerequisite: MKTG 35030 with a minimum C grade; and minimum 2.000 overall GPA; and marketing major; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MKTG 45091 MARKETING SEMINAR 1-4 Credit Hours
(Repeatable for credit)Current topics in marketing. Certain sections of this variable topic seminar may require instructor special approval or have further prerequisites. See current schedule of classes.
Prerequisite: MKTG 25010 or BMRT 21050 or MKTG 35035; and minimum 2.000 overall GPA.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MKTG 45095 SPECIAL TOPICS IN MARKETING 1-4 Credit Hours
(Repeatable for credit) Special Topics in Marketing permits the exploration of topics that are not covered, or not covered in as much depth, in scheduled courses. Credit hours depend on the scope of the project. Specific topics may need to request special approval to register for the course. Special approval may include items such as: minimum GPA, course prerequisites and instructor approval. The course schedule will contain the enrollment requirements for a specific special topics course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

MKTG 45096 INDIVIDUAL INVESTIGATION IN MARKETING 1-3 Credit Hours
(Repeatable for credit) Independent investigation of appropriate problem undertaken by a senior marketing major.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter

MKTG 45189 INTERNATIONAL EXPERIENCE IN MARKETING (DIVG) (ELR) 3 Credit Hours
The student will gain firsthand exposure to international businesses and organizations generally relating to business and specifically relating to marketing. The course includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.
Prerequisite: MKTG 25010; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MKTG 45192 SALES INTERNSHIP (ELR) 3 Credit Hours
Supervised practical experience in sales with a business. An internship application and faculty approval are needed prior to registration for this course.
Prerequisite: MKTG 35046 or MKTG 45052 or ENTR 37045; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MKTG 45292 MARKETING INTERNSHIP (ELR) 3 Credit Hours
Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.
Prerequisite: MKTG 25010 or BMRT 21050 or MKTG 35035; and special approval.
Schedule Type: Individual Investigation, Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MKTG 55060 INTERNATIONAL MARKETING 3 Credit Hours
(Slashed with MKTG 45060) Examination of international marketing in terms of global markets and trade. Emphasizes differences among markets caused by geography, politics, economics, culture, commercial policy and trade practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 65051 MARKETING MANAGEMENT 2 Credit Hours
Analysis of marketing management at a level appropriate to students with limited background in the subject. The course will include lectures, and will integrate a major experiential component (e.g., a marketing simulation, a client-based project, etc.). Services, global marketing, and legal and ethical issues will be integrated across topic areas.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MKTG 65054 INTERNATIONAL MARKETING 3 Credit Hours
Course focuses on the types of marketing decisions facing the international marketing manager or vice president in the multinational firm.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 75050 MODERN ENTREPRENEURIAL MANAGEMENT 3 Credit Hours
Analysis and application of the key elements of both entrepreneurship (new business starts) and entrepreneurship in existing companies.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 85057 RESEARCH DESIGN 3 Credit Hours
Focuses on the construction of a conceptual framework; the design of an experiment sampling plan data collection methods and the application of statistical techniques.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 85060 MARKETING STRATEGY 3 Credit Hours
Examines important topics in marketing management and strategy such as brand equity, competition, channel management, market orientation, product innovation, customer satisfaction and their impact on financial outcomes in the areas of business-to-consumer and business-to-business.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MKTG 85063 ANALYTICAL METHODS IN MARKETING RESEARCH 3 Credit Hours
Application of multivariant statistical techniques in marketing research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MKTG 85064 BUYER BEHAVIOR 3 Credit Hours
An analysis of extant and emerging theories, models and concepts of buyer consumer behavior and their development and testing.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MKTG 85066 MARKETING THEORY 3 Credit Hours
The central objective of the course is to develop the doctoral student's background in marketing theory, theory construction and the creation of marketing knowledge.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MKTG 85074 CONSUMER PSYCHOLOGY 3 Credit Hours
Analysis of extant and emerging theories, models and concepts in Consumer Psychology. The course provides coverage of classic and current research related to cognitive and affective processing and their impact on marketing-related outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MKTG 85098 RESEARCH IN MARKETING 3 Credit Hours
(Repeatable for credit) Designed to assist students in developing dissertation topics or to provide an opportunity to study material or topic not covered elsewhere in the program.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

MKTG 85191 SEMINAR IN MARKETING 3 Credit Hours
(Repeatable for credit) Course is designed to provide doctoral students with a broad exposure to a current and substantive topic area in marketing. This course will expose students to classic and new ideas, help them critically analyze these ideas, and provide them with the opportunity to relate these ideas to their own research interests.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Entrepreneurship - B.B.A.

Ambassador Crawford College of Business and Entrepreneurship
Department of Marketing and Entrepreneurship
www.kent.edu/business/marketing

About This Program

Unleash your entrepreneurial spirit with Kent State's B.B.A. in Entrepreneurship. Our program combines classroom learning with real-world experience to help you develop the skills needed to launch and grow your own business. Enroll now and turn your dreams into reality. Read more...

Contact Information

- **Haithem Zourrig, Ph.D.** | hzourrig@kent.edu | 330-672-1266
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- Business owner
- Business founder
- Sole-proprietor
- Entrepreneur

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

A minimum 2.000 overall GPA is required for admission into this major. Students who have previously attended Kent State and have completed (or the equivalent of), MATH 11010, COMM 15000, ENG 21011 and ENTR 27056 must have earned a minimum C grade.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP (min C grade)	3
ENTR 27466	SPEAKER SERIES IN ENTREPRENEURSHIP	1
ENTR 37040	ENTREPRENEURIAL TOOLS (min C grade)	3
ENTR 37045	SALES IN THE ENTREPRENEURIAL VENTURE	3
ENTR 37065	ENTREPRENEURIAL FINANCE	3
ENTR 37075	ENTREPRENEURIAL MARKETING	3
ENTR 37080	NEW VENTURE CREATION (WIC) (min C grade)	3
ENTR 47048	ENTREPRENEURIAL EXPERIENCE I (ELR) (min C grade)	3
ENTR 47049	ENTREPRENEURIAL EXPERIENCE II (min C grade)	3
Major Elective, choose from the following: [1]		3
ENTR 37070	SOCIAL ENTREPRENEURSHIP	
ENTR 37195	SPECIAL TOPICS IN ENTREPRENEURSHIP I	
ENTR 45096	INDIVIDUAL INVESTIGATION IN ENTREPRENEURSHIP	
ENTR 47189	INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP (DIVG) (ELR)	
ENTR 47292	ENTREPRENEURIAL INTERNSHIP (ELR)	
FDM 35280	FASHION ENTREPRENEURSHIP	
MKTG 35056	SOCIAL MEDIA MARKETING	
MKTG 45047	ADVANCED PROFESSIONAL SELLING	
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I [4]	3
BA 34156	BUSINESS ANALYTICS II	3
or MKTG 35061	MARKETING ANALYTICS	
BA 44062	SUPPLY CHAIN MANAGEMENT	3

BUS 10123	EXPLORING BUSINESS [2]	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 44285	STRATEGIC MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10001	FLASHES 101	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Mathematics or Critical Reasoning Elective, choose from the following: [3]		3-5
MATH 10051	QUANTITATIVE REASONING (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	
Kent Core Composition [5]		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [6]		12
Minimum Total Credit Hours:		**120**

1. Students may take more than one major elective.
2. A student changing to a program in the college, transferring, or incoming students with college credits may be waived out of BUS 10123 if:
   1. 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
   2. 60 or more credit hours have been earned and the student has successfully completed one course from (ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
   3. At the discretion of the dean's office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.
3. Taking MATH 10051 or PHIL 21002 will not replace a low grade in either MATH 11012 or MATH 12002. Students are required to take MATH 11012 or MATH 12002 if they change their major to, or want to double major with, the Economics major or Finance major and/or intend to declare the Data Analytics minor. Students who intend to enroll in certain graduate programs and/or are working toward Phi Beta Kappa status are highly encouraged to take MATH 11012 or MATH 12002.
4. Students who have taken MATH 10041 for another program may use it as a substitute for BA 24056.
5. Minimum C grade required in ENG 21011 or HONR 20197.
6. Students may take or use any course at any level as long as the minimum 39-credit hours requirement for upper-division courses is satisfied for graduation with a B.B.A. Expectations: Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be counted toward the 120 total credit hours or 39-upper-division-hours graduation requirement. General elective courses may be selected from any area and at any level provided students do not go over the PWS restriction and they satisfy the 39 credit hours upper-division requirements. Any other exceptions must be approved by the assistant dean. A minor (business or non-business) is encouraged.

Progression Requirements

- Minimum 2.000 overall GPA
- Minimum C grade in COMM 15000, ENG 21011, ENTR 27056, ENTR 37040, ENTR 37080 and MATH 11010

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students are permitted to register for ENTR 47049 while taking ENTR 47048.
- Entrepreneurship majors who are also majoring in Marketing, and who have taken ENTR 37045, are not required to take MKTG 35046 for the Marketing major; however, a Marketing major cannot waive ENTR 37045 by taking MKTG 35046.
- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete at least 50 percent of their major credit hours in residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the college for complete satisfaction of the B.B.A. degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	BUS 10123	EXPLORING BUSINESS	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
!	ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
!	ENTR 27466	SPEAKER SERIES IN ENTREPRENEURSHIP	1
	UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
	Mathematics or Critical Reasoning Elective		3-5
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Three		
	Required: minimum overall GPA of 2.000 by the end of this semester		
	FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
	ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	Required for progression in the major: Minimum 2.000 overall GPA, minimum C grade in COMM 15000, ENG 21011, MATH 11010 and ENTR 27056.		
	ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
	BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
!	ENTR 37040	ENTREPRENEURIAL TOOLS	3
	MKTG 25010	PRINCIPLES OF MARKETING	3
		Credit Hours	**15**
	Semester Five		
	Required: minimum overall GPA of 2.000 by the end of this semester		
	BA 24056	BUSINESS ANALYTICS I	3
!	ENTR 37075	ENTREPRENEURIAL MARKETING	3
!	FIN 36053	BUSINESS FINANCE	3
	MGMT 24163	PRINCIPLES OF MANAGEMENT	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	Required: minimum overall GPA of 2.000 by the end of this semester		
	BA 34156 or MKTG 35061	BUSINESS ANALYTICS II or MARKETING ANALYTICS	3
!	ENTR 37080	NEW VENTURE CREATION (WIC)	3
	ENTR 37065	ENTREPRENEURIAL FINANCE	3
	Major Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Seven		
	Required: minimum overall GPA of 2.000 by the end of this semester		
	BA 44062	SUPPLY CHAIN MANAGEMENT	3
!	ENTR 37045	SALES IN THE ENTREPRENEURIAL VENTURE	3
	ENTR 47048	ENTREPRENEURIAL EXPERIENCE I (ELR)	3
	General Electives		6
		Credit Hours	**15**
	Semester Eight		
	Required: minimum overall GPA of 2.000 and completion of The Assurance of Learning Assessment given in MGMT 44285		
	ENTR 47049	ENTREPRENEURIAL EXPERIENCE II	3
	MGMT 44285	STRATEGIC MANAGEMENT	3
	General Electives		6
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6

Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of capital formation and financial management in a new venture.
2. Demonstrate an understanding of the marketing function in a new venture.
3. Demonstrate an understanding of and ability to apply the entrepreneurial process for the purpose of creating a new venture that generates revenue or obtains capital investment.

Students earning a B.B.A. degree in Ambassador Crawford College of Business and Entrepreneurship are expected to have developed skills in the following critical areas of business:

1. Core Business Knowledge - Recall the strategic frameworks that are used to make business decisions.
2. Analytical Skills - Use analytical methodologies and critical thinking skills to evaluate and solve business problems.
3. Digital Technology – Demonstrate the technological skills necessary to analyze business problems and develop solutions.
4. Written Communication - Write effective business communications.
5. Oral Communication - Make effective business presentations, using appropriate technologies.
6. Teamwork – Collaborate effectively with others to achieve a common business purpose.
7. Business Ethics – Recognize ethical business dilemmas and use ethical decision making to resolve the dilemma.
8. Global - Analyze the key global factors when making business decisions.

Full Description

The Bachelor of Business Administration degree in Entrepreneurship provides students with the academic background and experiential opportunities needed to view business opportunities from an entrepreneurial perspective. The program helps students recognize market and business opportunities and learn when to seize them or take action, all while operating within the context of limited resources and creating value for the customer.

The program contains numerous opportunities to experience entrepreneurship firsthand. During their senior year, students earn course credit by launching and running a business of their own creation. A practicum can earn students credit while developing their own business or assisting entrepreneurs with their business. Students have many opportunities to meet experienced entrepreneurs who discuss their successes and failures in business. Courses in the major are hands-on, with experiential learning central to the course format.

Entrepreneurship students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

Entrepreneurship for Business Majors - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Marketing and Entrepreneurship
www.kent.edu/business/marketing

About This Program

The Entrepreneurship for Business Majors minor brings an entrepreneurial perspective to students' major in business. Entrepreneurship is more than a set of tools and techniques for starting and growing a business. It is a mindset, a creative way of looking at opportunities, a passion, doing what one loves, a challenge, persistence and creating wealth and operating a business, whether one owns it or not. Students in the minor are immersed in the entrepreneurial process through coursework, entrepreneurial projects and exposure to many entrepreneurs in the community. Students are prepared for the various aspects of starting a business, acquiring a business, corporate entrepreneurship or working for a small business.

Contact Information

- **Haithem Zourrig, Ph.D.** | hzourrig@kent.edu | 330-672-1266
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Entrepreneurship for Business Majors minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Only students declared in a major in the College of Business Administration may declare the minor.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
ENTR 27466	SPEAKER SERIES IN ENTREPRENEURSHIP	1
ENTR 37040	ENTREPRENEURIAL TOOLS	3

ENTR 47047	STRATEGIC DILEMMAS IN ENTREPRENEURSHIP	3
Minor Electives, choose from the following:		6
ENTR 37045	SALES IN THE ENTREPRENEURIAL VENTURE	
ENTR 37065	ENTREPRENEURIAL FINANCE	
ENTR 37070	SOCIAL ENTREPRENEURSHIP	
ENTR 37075	ENTREPRENEURIAL MARKETING	
ENTR 37195	SPECIAL TOPICS IN ENTREPRENEURSHIP I	
ENTR 47091	SEMINAR IN ENTREPRENEURSHIP	
ENTR 47189	INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP (DIVG) (ELR)	
ENTR 47195	SPECIAL TOPICS IN ENTREPRENEURSHIP II	
FDM 35280	FASHION ENTREPRENEURSHIP	
MKTG 35056	SOCIAL MEDIA MARKETING	
MKTG 45047	ADVANCED PROFESSIONAL SELLING	
MKTG 45049	SALES FORCE LEADERSHIP	
MKTG 45051	DIGITAL MARKETING	
Minimum Total Credit Hours:		**19**

[1] ACCT 33013 is designed specifically for Entrepreneurship students rather than Accounting students.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the entrepreneurial process.
2. Demonstrate an understanding of the strategic and financial components entrepreneurs are faced with in order to success as an entrepreneur.
3. Demonstrate an understanding of the strategic consequences faced by an entrepreneur.

Entrepreneurship for Non-Business Majors - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Marketing and Entrepreneurship
www.kent.edu/business/marketing

About This Program

The Entrepreneurship for Non-Business Majors minor brings an entrepreneurial perspective to students' major fields of study. Entrepreneurship is more than a set of tools and techniques for starting and growing a business. It is a mindset, a creative way of looking at opportunities, a passion, doing what one loves, a challenge, persistence and creating wealth and operating a business, whether one owns it or not. Students in the minor are immersed in the entrepreneurial process through coursework, entrepreneurial projects and exposure to many entrepreneurs in the community. Students are prepared for the various aspects of starting a business, acquiring a business, corporate entrepreneurship or working for a small business.

Contact Information

- **Haithem Zourrig, Ph.D.** | hzourrig@kent.edu | 330-672-1266
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Entrepreneurship for Non-Business Majors minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Only students declared in a major outside the Ambassador Crawford College of Business and Entrepreneurship may declare the minor.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
ENTR 27466	SPEAKER SERIES IN ENTREPRENEURSHIP	1
ENTR 37040	ENTREPRENEURIAL TOOLS	3
ENTR 37065	ENTREPRENEURIAL FINANCE	3
ENTR 47047	STRATEGIC DILEMMAS IN ENTREPRENEURSHIP	3
Minor Elective, choose from the following:		3
ENTR 37045	SALES IN THE ENTREPRENEURIAL VENTURE	
ENTR 37070	SOCIAL ENTREPRENEURSHIP	
ENTR 37075	ENTREPRENEURIAL MARKETING	
ENTR 47189	INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP (DIVG) (ELR)	
FDM 35280	FASHION ENTREPRENEURSHIP	
MKTG 35056	SOCIAL MEDIA MARKETING	
MKTG 45047	ADVANCED PROFESSIONAL SELLING	
MKTG 45049	SALES FORCE LEADERSHIP	

MKTG 45091	MARKETING SEMINAR	
Minimum Total Credit Hours:		**19**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the entrepreneurial process.
2. Demonstrate an understanding of the strategic and financial components entrepreneurs are faced with in order to success as an entrepreneur.
3. Demonstrate an understanding of the strategic consequences faced by an entrepreneur.

Marketing - B.B.A.

Ambassador Crawford College of Business and Entrepreneurship
Department of Marketing and Entrepreneurship
www.kent.edu/business/marketing

About This Program

Our Marketing B.B.A. program provides a strong foundation in business and marketing principles, combined with practical experience, to prepare you for a successful career. With access to cutting-edge resources and experienced faculty, you'll learn the latest techniques in consumer behavior, market research and digital marketing. Join our program and become a skilled marketer ready to take on any challenge in the dynamic field of marketing. Read more...

Contact Information

- **Haithem Zourrig, Ph.D.** | hzourrig@kent.edu | 330-672-1266
- Speak with an Advisor
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Advertising and promotions managers

- -1.1% decline
- 28,600 number of jobs
- $133,460 potential earnings

Fundraisers

- 14.3% much faster than the average
- 100,600 number of jobs
- $59,610 potential earnings

Market research analysts and marketing specialists

- 17.7% much faster than the average
- 738,100 number of jobs
- $65,810 potential earnings

Marketing managers

- 6.7% faster than the average
- 286,300 number of jobs
- $142,170 potential earnings

Sales managers

- 3.5% about as fast as the average
- 433,800 number of jobs
- $132,290 potential earnings

Additional Careers

- Marketing coordinator
- Marketing associate
- Digital (social media) marketing manager
- Brand ambassador
- Product marketing manager

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the

seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer Students: A minimum 2.000 overall GPA is required for admission into this major. Students who have previously attended Kent State and have completed (or the equivalent of) COMM 15000, ENG 21011, MATH 11010 and MKTG 25010 must have earned a minimum C grade in the courses.

Admission Restrictions for Dual Programs

- Students admitted to the Professional Sales undergraduate certificate may not declare the Sales Management concentration (and vice versa).
- Students admitted to the B.B.A. degree in Entrepreneurship may not declare the Entrepreneurial Marketing concentration (and vice versa).

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
MKTG 35030	MARKETING APPLICATIONS (min C grade)	3
MKTG 35035	CONSUMER BEHAVIOR (min C grade)	3
MKTG 35046	PROFESSIONAL SELLING (min C grade)	3
MKTG 35050	MARKETING RESEARCH (min C grade)	3
MKTG 45084	MARKETING POLICIES AND STRATEGIES (ELR) (WIC) (min C grade)	3
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I [2]	3
BA 34156	BUSINESS ANALYTICS II	3
or MKTG 35061	MARKETING ANALYTICS	
BA 44062	SUPPLY CHAIN MANAGEMENT	3
BUS 10123	EXPLORING BUSINESS [3]	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 44285	STRATEGIC MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING (min C grade)	3
UC 10001	FLASHES 101	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Mathematics or Critical Reasoning Elective, choose from the following: [4]		3-5
MATH 10051	QUANTITATIVE REASONING (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	
Kent Core Composition [5]		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [6]		16
Additional Major Requirements or Concentrations		
Choose from the following:		9
Additional Requirements for Students Not Declaring a Concentration		
Entrepreneurial Marketing Concentration		
Marketing Analytics Concentration		
Sales Management Concentration		
Social Media and Digital Marketing Concentration		
Minimum Total Credit Hours:		**120**

1 Students who have a double major with Entrepreneurship and who have completed ENTR 37045 are not required to take MKTG 35046 for the Marketing major. However, students in the double major cannot waive ENTR 37045 for the Entrepreneurship major by taking MKTG 35046.

2 Students who have taken MATH 10041 for another program may use it in place of BA 24056.

3 Transfer students, new students with college credit and continuing students who have changed their program to a B.B.A. degree may be waived out of BUS 10123 if one of the following occurs:

- They earned 30 or more credit hours and completed two of the following courses: ACCT 23020, ACCT 23021, CIS 24053, FIN 26074, MGMT 24163 and/or MKTG 25010.
- They earned 60 or more credit hours and completed one of the following courses: ACCT 23020, ACCT 23021, CIS 24053, FIN 26074, MGMT 24163 or MKTG 25010.
- They have sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP or Credit by Exam score) but do not meet the criteria listed above, and the waiver is approved by the college dean's office.

4 Taking MATH 10051 or PHIL 21002 will not replace a low grade in either MATH 11012 or MATH 12002. Students are required to take MATH 11012 or MATH 12002 if they change their major to, or want to double major with, the Economics major or Finance major and/or intend to declare the Data Analytics minor. Students who intend to

enroll in certain graduate programs and/or are working toward Phi Beta Kappa status are highly encouraged to take MATH 11012 or MATH 12002.

[5] Minimum C grade is required in ENG 21011 or HONR 20197.

[6] Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be counted toward the 120 total credit hours or 39-upper-division-credit-hour graduation requirement. General elective courses may be selected from any area and at any level provided students do not go over the PWS restriction, and they satisfy the 39 credit hour upper-division requirements. A minor (business or non-business) is encouraged. Any other exceptions must be approved by the assistant dean. Students in the Social Media and Digital Marketing concentration are encouraged to take an internship as a general elective.

Additional Requirements for Students Not Choosing a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
Major Electives, choose from the following:		9
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
ENTR 37040	ENTREPRENEURIAL TOOLS	
ENTR 37075	ENTREPRENEURIAL MARKETING	
MKTG 35056	SOCIAL MEDIA MARKETING	
MKTG 45020	COMPETITIVE MARKET ANALYSIS	
MKTG 45023	CUSTOMER ANALYSIS	
MKTG 45045	ADVERTISING AND PROMOTION MANAGEMENT	
MKTG 45047	ADVANCED PROFESSIONAL SELLING	
MKTG 45049	SALES FORCE LEADERSHIP	
MKTG 45051	DIGITAL MARKETING	
MKTG 45052	SALES AND SALES MANAGEMENT	
MKTG 45060	INTERNATIONAL MARKETING	
MKTG 45082	SERVICES MARKETING	
MKTG 45091	MARKETING SEMINAR	
MKTG 45095	SPECIAL TOPICS IN MARKETING	
MKTG 45096	INDIVIDUAL INVESTIGATION IN MARKETING	
MKTG 45189	INTERNATIONAL EXPERIENCE IN MARKETING (DIVG) (ELR)	
MKTG 45192	SALES INTERNSHIP (ELR) [1]	
or MKTG 45292	MARKETING INTERNSHIP (ELR)	
Minimum Total Credit Hours:		**9**

[1] Students may take either MKTG 45192 or MKTG 45292 to satisfy a major elective, but not both.

Entrepreneurial Marketing Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
ENTR 37040	ENTREPRENEURIAL TOOLS	3
ENTR 37075	ENTREPRENEURIAL MARKETING	3
Minimum Total Credit Hours:		**9**

Marketing Analytics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
MKTG 45020	COMPETITIVE MARKET ANALYSIS	3
MKTG 45023	CUSTOMER ANALYSIS	3
MKTG 45051	DIGITAL MARKETING	3
Minimum Total Credit Hours:		**9**

Sales Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
MKTG 45047	ADVANCED PROFESSIONAL SELLING	3
MKTG 45049	SALES FORCE LEADERSHIP	3
MKTG 45052	SALES AND SALES MANAGEMENT	3
Minimum Total Credit Hours:		**9**

Social Media and Digital Marketing Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
MKTG 35056	SOCIAL MEDIA MARKETING	3
MKTG 45045	ADVERTISING AND PROMOTION MANAGEMENT	3
MKTG 45051	DIGITAL MARKETING	3
Minimum Total Credit Hours:		**9**

Progression Requirements

- Students must take MKTG 35030 as the first course in the major and earn a minimum C grade to continue in the major. MKTG 35030 may be taken concurrently with MKTG 35035 or MKTG 35050. Students who earn below a C grade in MKTG 35030 are required to repeat the course with a maximum of three repeats.
- Students must earn a minimum C grade in COMM 15000, ENG 21011, MATH 11010, MKTG 25010 and MKTG 35030 to continue in the major.
- Students must maintain a minimum 2.000 overall GPA.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students must complete a minimum 50 percent of business credit hours (required for the B.B.A. degree) in-residence on a Kent State University campus.
- Students must complete at least 50 percent of their major credit hours in residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the college for complete satisfaction of the B.B.A. degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as

critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	Students must earn a minimum C grade in COMM 15000, ENG 21011, MATH 11010, MKTG 25010 and MKTG 35030 to continue in the major.		
	BUS 10123	EXPLORING BUSINESS	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
	Mathematics or Critical Reasoning Elective		3-5
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
	FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
	MGMT 24163	PRINCIPLES OF MANAGEMENT	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	Students must earn a minimum C grade in COMM 15000, ENG 21011, MATH 11010, MKTG 25010 and MKTG 35030 to continue in the major.		
	ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
	BA 24056	BUSINESS ANALYTICS I	3
	BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
!	MKTG 25010	PRINCIPLES OF MARKETING	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	Students must earn a minimum C grade in COMM 15000, ENG 21011, MATH 11010, MKTG 25010 and MKTG 35030 to continue in the major.		
	BA 44062	SUPPLY CHAIN MANAGEMENT	3
!	MKTG 35030	MARKETING APPLICATIONS	3
	MKTG 35035	CONSUMER BEHAVIOR	3
	MKTG 35050	MARKETING RESEARCH	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	Required: minimum overall 2.000 GPA		
	BA 34156 or MKTG 35061	BUSINESS ANALYTICS II or MARKETING ANALYTICS	3
	FIN 36053	BUSINESS FINANCE	3
!	Major Elective or Concentration Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Seven		
	Required: minimum overall 2.000 GPA		
	MKTG 35046	PROFESSIONAL SELLING	3
!	Major Elective or Concentration Requirement		3
	General Electives		9
		Credit Hours	**15**
	Semester Eight		
	Required: minimum overall 2.000 GPA and completion of The Assurance of Learning Assessment given in MGMT 44285		
	MGMT 44285	STRATEGIC MANAGEMENT	3
	MKTG 45084	MARKETING POLICIES AND STRATEGIES (ELR) (WIC)	3
	Major Elective or Concentration Requirement		3
	General Electives		4
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of segmentation, target marketing and positioning.
2. Demonstrate an ability to collect and analyze market research data.
3. Demonstrate an understanding of effective personal selling tactics.
4. Demonstrate an ability to conduct financial analyses for the purposes of making strategic marketing decisions.

Students earning a B.B.A. degree in Ambassador Crawford College of Business and Entrepreneurship are expected to have the following:

1. Core Business Knowledge - Recall the strategic frameworks that are used to make business decisions.
2. Analytical Skills - Use analytical methodologies and critical thinking skills to evaluate and solve business problems.
3. Digital Technology – Demonstrate the technological skills necessary to analyze business problems and develop solutions.
4. Written Communication - Write effective business communications.
5. Oral Communication - Make effective business presentations, using appropriate technologies.
6. Teamwork – Collaborate effectively with others to achieve a common business purpose.
7. Business Ethics – Recognize ethical business dilemmas and use ethical decision making to resolve the dilemma.
8. Global - Analyze the key global factors when making business decisions.

<

Full Description

The Bachelor of Business Administration degree in Marketing provides a general approach that can be applied in a wide range of areas of business (e.g., for profit, nonprofit, service and manufacturing). The program addresses the breadth within the marketing field through courses (e.g., consumer behavior, marketing research, international marketing, personal selling, advertising and promotion management) that provide the student with an appreciation of all central topic areas in the field.

The Marketing major offers students the opportunity to have a generalist's perspective or to focus on one of four concentrations. Students gain a working knowledge of the theory and practice of marketing and learn the tasks involved in the analysis, planning, implementation and control of marketing programs that result in strategies and tactics used by businesses to sell products to consumers and other businesses.

The Marketing major includes the following concentrations:

- The **Entrepreneurial Marketing** optional concentration is for those with an entrepreneurial spirit. This concentration will offer insights into marketing strategies tailored for startups and small businesses. Students will explore innovative approaches to marketing and learn how to navigate the unique challenges faced by entrepreneurs.
- The **Marketing Analytics** optional concentration focuses on harnessing the power of data to make informed marketing decisions and optimize marketing strategies.
- The **Sales Management** optional concentration is designed to equip students with the skills and knowledge needed to lead successful sales teams, manage customer relationships, and drive revenue growth.
- The **Social Media and Digital Marketing** optional concentration is designed to teach students how to create and implement effective digital marketing campaigns through a strong online presence across various platforms, this concentration will allow students to explore the world of digital marketing and social media.

Marketing students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

Marketing - Minor

Ambassador Crawford College of Business and Entrepreneurship
Department of Marketing and Entrepreneurship
www.kent.edu/business/marketing

About This Program

The Marketing minor helps students develop the perspectives and skills necessary to understand consumers and to provide customer satisfaction. In today's highly competitive business environment, successful managers must have a strong focus on providing customer satisfaction as well as the ability to research consumer needs, wants and desires; understand what these mean in terms of company offerings; and communicate the benefits of their products or services effectively. Students completing the minor should be equipped to bring a marketing orientation to both profit and not-for-profit organizations.

Contact Information

- **Haithem Zourrig, Ph.D.** | hzourrig@kent.edu | 330-672-1266
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

The Marketing minor is not accepting students at the Stark Campus at this time.

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

The Marketing minor is not accepting students at the Stark Campus at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

- To declare the minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MKTG 25010	PRINCIPLES OF MARKETING	3
MKTG 35035	CONSUMER BEHAVIOR	3
Minor Electives, choose from the following:		9
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
MKTG 35046	PROFESSIONAL SELLING	
MKTG 35050	MARKETING RESEARCH	
MKTG 35056	SOCIAL MEDIA MARKETING	
MKTG 45045	ADVERTISING AND PROMOTION MANAGEMENT	
MKTG 45047	ADVANCED PROFESSIONAL SELLING	
MKTG 45060	INTERNATIONAL MARKETING	
MKTG 45082	SERVICES MARKETING	
MKTG 45091	MARKETING SEMINAR	
MKTG 45189	INTERNATIONAL EXPERIENCE IN MARKETING (DIVG) (ELR)	
MKTG 45049	SALES FORCE LEADERSHIP	
MKTG 45051	DIGITAL MARKETING	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students may not pursue a minor and major in the same discipline.
- Students who major in Entrepreneurship and minor in Marketing cannot use ENTR 27056 or MKTG 45046 as Marketing minor electives. Also, if Entrepreneurship majors use MKTG 35056 as an entrepreneurship major elective, it cannot also be used as a Marketing minor elective unless the other 6 credit hours (of the 9 credit hours needed for Marketing minor electives) are different from the Entrepreneurship major.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this minor will be able to:

1. Demonstrate an understanding of segmentation and target marketing.
2. Demonstrate an understanding of the consumer decision-making process and its implications for marketers.
3. Demonstrate an understanding of the wide-ranging importance of marketing to businesses, society and their own lives.

Professional Sales - Undergraduate Certificate

Ambassador Crawford College of Business and Entrepreneurship
Department of Marketing and Entrepreneurship
www.kent.edu/business/marketing

About This Program

The Professional Sales undergraduate certificate provides a broad spectrum of employment opportunities when combined with many different majors. It gives students the added edge in job hunting for sales related positions.

Contact Information

- **Haithem Zourrig, Ph.D.** | hzourrig@kent.edu | 330-672-1266
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Examples of Possible Careers and Salaries*

Advertising sales agents

- -6.5% decline
- 139,200 number of jobs
- $54,940 potential earnings

First-line supervisors of non-retail sales workers

- -8.3% decline
- 409,800 number of jobs
- $78,560 potential earnings

First-line supervisors of retail sales workers

- -5.5% decline
- 1,476,400 number of jobs
- $41,580 potential earnings

Sales representatives of services, except advertising, insurance, financial services, and travel

- 6.0% faster than the average
- 1,070,500 number of jobs
- $58,770 potential earnings

Sales representatives, wholesale and manufacturing, except technical and scientific products

- 0.9% little or no change
- 1,399,700 number of jobs
- $62,070 potential earnings

Additional Careers

- Account Representative
- Consultant
- Sales manager
- Sales executive
- Inside sales representative
- Business development manager or representative

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MKTG 25010	PRINCIPLES OF MARKETING	3
MKTG 35046	PROFESSIONAL SELLING	3
or ENTR 37045	SALES IN THE ENTREPRENEURIAL VENTURE	
MKTG 45047	ADVANCED PROFESSIONAL SELLING	3
MKTG 45192	SALES INTERNSHIP (ELR) [1]	3
Minimum Total Credit Hours:		**15**

[1] An internship application and faculty approval are needed prior to registration for this course. MKTG 45192 may be substituted by a specific, department-approved course if the student has two or more years of full-time experience as a salesperson that includes completion of a rigorous, formal training program. The courses selected may not be double-counted; that is, the selected course must be outside the course requirements for any major or minor the student is pursuing.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Program Learning Outcomes

Students will gain the skills necessary to succeed in a career in Professional Sales. The Sales certificate is also important to differentiate KSU students competing for jobs with students from other universities.

College of Aeronautics and Engineering

College of Aeronautics and Engineering
Aeronautics and Engineering Building
www.kent.edu/cae

Undergraduate Programs

- Aeronautical Studies - B.S.
- Aeronautical Systems Engineering Technology - B.S.
- Aerospace Engineering - B.S.
- Air Traffic and Airspace Management - B.S.
- Aviation Maintenance Management - B.S.
- Aviation Management - B.S.
- Computer Engineering Technology - B.S.
- Cybersecurity Engineering - B.S.
- Industrial Engineering Technology - B.S.
- Mechanical Engineering Technology - B.S.
- Mechatronics Engineering - B.S.
- Mechatronics Engineering Technology - B.S.
- Professional Pilot - B.S.
- Unmanned Aircraft Systems Flight Operations - B.S.

Minors

- Aircraft Dispatch
- Aviation Law and Policy
- Aviation Management
- Aviation Weather
- Computer Engineering Technology
- Electronics
- Innovation
- Professional Pilot
- Safety, Quality and Lean in Manufacturing
- Sustainability
- Technology
- Unmanned Aircraft Systems

Graduate Programs

- Aerospace Engineering - M.S.
- Aerospace Engineering - Ph.D.
- Aviation Management and Logistics - M.S.
- Engineering Technology - M.E.T.
- Mechatronics Engineering - M.S.
- Mechatronics Engineering - Ph.D.

College of Aeronautics and Engineering Faculty

- Abdul-Aziz, Ali (2016), Associate Professor, Ph.D., Cleveland State University, 1985
- Al Turk, Abdelhakim (2024), Assistant Professor, Ph.D., Wichita State University, 2024
- An, Xuanhong (2024), Assistant Professor, Ph.D., Illinois Institute of Technology, 2018
- Balcerski, Jeffrey (2024), Assistant Professor
- Bloebaum, Christina L. (2018), Professor
- Boergerhoff, Jason T. (2010), Associate Professor, M.S., University of North Dakota, 2010
- Boyd, Darwin L. (1983), Assistant Professor, Ph.D., Kent State University, 1991
- Del Rosario, Ruben (2024), Professor, Ph.D., Cleveland State University, 2004
- Du, Yanhai (2013), Professor, Ph.D., University of Waikato, 2004
- Fisch, Michael R. (1998), Associate Professor, Ph.D., Harvard College, 1982
- Gurkan, Deniz (2023), Professor, Ph.D., University of Southern California, 2003
- Harrison, Joycelyn S. (2019), Professor
- Harrison, Carl E. (2021), Associate Lecturer
- Hassler, Richard P. (2018), Associate Professor, Ed.S., The Fielding Institute, 2005
- Koptur, Evren (2003), Associate Professor, Ph.D., Kent State University, 2016
- Kwasa, Benjamin (2021), Assistant Professor, Ph.D., Iowa State University, 2017
- LaBerge, Kelsen E. (2018), Professor, Ph.D., Case Western Reserve University, 2009
- Liu, Rui (2019), Assistant Professor, Ph.D., Colorado School of Mines, 2018
- Lorenzon, Jason (2007), Assistant Professor, J.D., Cleveland State University, 2007
- Mangrum, Richard L. (2003), Professor, Ed.D., Oklahoma State University, 2003
- McFarland, Maureen R. (2003), Associate Professor, Ph.D., Kent State University, 2017
- Mirinejad, Hossein (2019), Assistant Professor, Ph.D., University Of Louisville, 2016
- Neff, Carissa M. (2013), Lecturer, B.S., Kent State University, 2015
- Nettey, Richmond I. (2001), Professor, Ph.D., University of Houston-Main Campus, 2000
- Palcho, Timothy L. (2000), Professor, M.S., Mountain State University, 2009
- Ripple, James E. (2008), Associate Professor, B.A., Kent State University, 1991
- Shen, Tao (2019), Assistant Professor
- Shihab, Syed Arbab Mohd (2020), Assistant Professor, Ph.D., Iowa State University, 2020
- Testa, Michael (2017), Associate Lecturer, M.S., University of Akron, 1997
- True, Trent (2004), Associate Lecturer, M.Tech., Kent State University, 2007
- Weaver, Jonathan C. (2023), Associate Lecturer, M.A., The Open University, 2017

Aeronautics (AERN)

AERN 15000 INTRODUCTION TO AERONAUTICS 3 Credit Hours
Introduction to aeronautical and aerospace technology, including historical development, underlying science and technical applications. The past, present and future social, economic, technical and political impact of aviation are also explored.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 15740 ELEMENTS OF FLIGHT THEORY 5 Credit Hours
Basic instruction in all areas which gives the student aeronautical knowledge required for a private pilot certificate.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

AERN 15745 NON-PILOT ELEMENTS OF FLIGHT THEORY 3 Credit Hours
Basic instruction in areas to include: federal regulations, navigation, communication, airspace, weather, basic aerodynamics and aero-medical factors which give the student a foundation in aeronautics. This course does not satisfy the Federal Aviation Regulation requirement for endorsement to take the Airman Knowledge Exam for a private pilot nor does it satisfy the Aircraft Dispatch minor.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 15750 ELEMENTS OF FLIGHT THEORY I 3 Credit Hours
Basic Instruction in all areas which gives the student aeronautical knowledge required for a student pilot certificate. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Corequisite: AERN 15751.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 15751 PRIVATE PILOT FLIGHT I 2 Credit Hours
Flight course designed to fulfill FAA requirements for a student pilot completing their first supervised solo. Student is required to spend a minimum of two hours each day, five days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must obtain student pilot certificate, hold a valid FAA medical and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: Professional Pilot major.
Pre/corequisite: MATH 11010.
Corequisite: AERN 15750.
Schedule Type: Flight Training
Contact Hours: 3.5 other
Grade Mode: Standard Letter-IP

AERN 15752 ELEMENTS OF FLIGHT THEORY II 2 Credit Hours
Basic instruction in all areas which gives the student aeronautical knowledge required for a private pilot certificate. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 15750 with a minimum C grade; and minimum 2.500 overall GPA.
Corequisite: AERN 15753.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 15753 PRIVATE PILOT FLIGHT II 3 Credit Hours
Flight course designed to fulfill FAA requirements for a private pilot certificate. Student is required to spend a minimum of two hours each day, five days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must obtain student pilot certificate, hold a valid FAA medical and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: Minimum C grade in the following courses: AERN 15740 or (AERN 15750 and AERN 15751); and minimum 2.500 overall GPA; and Professional Pilot major.
Corequisite: AERN 15752.
Schedule Type: Flight Training
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

AERN 22500 INTRODUCTION TO AVIATION MAINTENANCE MANAGEMENT 2 Credit Hours
Introduction to the day-to-day concepts used by an aviation maintenance manager. Course provides an overview of the different aspects that go into managing human resources and overseeing the safe, legal and efficient inspection, repair and return to service of aircraft when working at a private maintenance repair organization (MRO), an airline, or a fixed-base operator (FBO). On a more practical level, course reviews leadership/management styles and challenge students to identify what type of manager they want to become.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 25100 INTRODUCTION TO AVIATION MANAGEMENT 3 Credit Hours
Introduction to the day-to-day concepts of airline, airport and other businesses pertaining to the aviation industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 25250 ELEMENTS OF AVIATION WEATHER 3 Credit Hours
Aviation weather provides a comprehensive look at the Earth's atmosphere, general patterns and specific phenomena and a focus on weather as related to flight.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Air Transportation

AERN 25251 WEATHER INFORMATION SYSTEMS 3 Credit Hours
Introduction to various weather sensing equipment and the systems that deliver weather information to various users. An in-depth look at the National Weather Service, NOAA, NASA, FAA and commercially available weather information systems.
Prerequisite: AERN 25250 or GEOG 31062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 25252 THUNDERSTORMS AND SEVERE WEATHER 3 Credit Hours
Analysis and forecast of thunderstorm and severe convective weather activity development and movement. Analysis of atmospheric information and clouds, radar, computer models and charts. A study of mid-latitude cyclones and some focused study on tropical depressions, hurricanes, tornadoes, dust and sand storms. Study includes geographic effects and cyclone life cycles. Provides an in-depth look at the development of severe weather products for aviation such as AIRMET, SIGMET and Convective SIGMET.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 25350 FUNDAMENTALS OF AIR TRAFFIC CONTROL 2 Credit Hours
Introduction to the National Airspace System (NAS) and the orders, manuals and procedures associated with the purposes and directives of the air traffic control environment. Introduces and discusses those areas of required knowledge of the AT-Basics needed to become an air traffic controller. These topics include the principles of flight, the FARs, navigation, aviation weather and other ATC related areas.
Corequisite: AERN 25351.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 25351 FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY 1 Credit Hour
Introductory laboratory course about air traffic management; the National Airspace System; and the orders, manuals and procedures associated with the purposes and directives of the air traffic control environment. The course includes purposes and responsibilities of the ATC system.
Corequisite: AERN 25350.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

AERN 25800 INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS 3 Credit Hours
An overview of unmanned aircraft systems. Course topics include the history, development and evolution of unmanned aircraft; current and forecast trends and issues; capabilities and performance of unmanned aircraft; UAS applications; regulations governing unmanned aircraft systems; unmanned aircraft flight operations; and opportunities and career paths in unmanned aircraft systems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Air Transportation, ITAG Aircraft Transportation

AERN 30000 PROFESSIONAL DEVELOPMENT IN AERONAUTICS 1 Credit Hour
The course will build upon the lessons learned in Professional Development in Aeronautics I by providing direct opportunities for interviewing and networking with professionals working in the aeronautics industry. Students will continue preparation for a career in the aeronautics industry by revising and implementing their career plan and goals.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

AERN 32100 ADVANCED AIRCRAFT COMPOSITE TECHNOLOGY 2 Credit Hours
As changes and improvements in technology progress in aircraft manufacturing, composites are becoming commonplace on airframes of all sizes and varieties. This course provides a more in depth look at composites than what an airframe and powerplant mechanic receives during their initial training. Students study the theory behind aircraft composites and composite inspection and repair with a focus on latest updates in composite technology. Students observe how composites are used practically in the aviation industry and investigate the most recent advances in composite technology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 32200 AVIONICS MAINTENANCE FOR GLASS COCKPITS 2 Credit Hours
Advanced avionics utilizing computers and screens, "glass cockpits," has become standard on most new aircraft including smaller general aviation (GA) aircraft. Course focuses on the different maintenance and troubleshooting aspects of working with these systems, with a specific focus on those systems installed on smaller GA aircraft.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 32300 INSPECTION AUTHORIZATION I 2 Credit Hours
Course prepares students by instructing them in the knowledge and subject areas necessary to pass the Inspection Authorization (IA) exam. Inspection authorization is issued to students by the FAA to airframe and powerplant mechanics after they have completed experience requirements and passed the exam. To register for the course, students must meet the FAA eligibility requirements to sit for the IA exam and receive the authorization.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 32400 AVIATION COMMUNICATIONS 2 Credit Hours
When it comes to communications between pilots, dispatchers, managers and aviation maintenance technicians, there can be many different terms and abbreviations that cause confusion and miscommunications. This course outlines common terms and abbreviations used in the different aviation departments and addresses how to avoid common pitfalls in communication between maintenance personnel, pilots, dispatchers and upper management. Additionally, students are introduced to techniques for interaction to foster a positive work and safety culture within their organizations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 35020 AIRCRAFT PROPULSION SYSTEMS 3 Credit Hours
A study of basic reciprocating and gas turbine engine theory. Course investigates powerplant construction, component function, including propeller and fuel systems, ancillary systems that support aircraft propulsive systems and performance characteristics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35021 RADAR SATELLITE WEATHER INFORMATION 3 Credit Hours
A study of satellite and radar imagery. A focus on both passive and active remote sensing systems. Student develops an understanding of the properties of meteorological radar sensing, signal propagation and estimating precipitation. Provides an in-depth look at radar and satellite products and their application to aircrew operations. Emphasis is placed on real-time identification of weather phenomena affecting a flight in progress.
Prerequisite: AERN 25250 or GEOG 31062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35022 WEATHER STRATEGY FOR AIRCREWS 3 Credit Hours
Flying strategies for various weather conditions to include low ceilings and visibility, turbulence, cold weather, thunderstorms and wind shear. An exploration of basic and advanced weather theory and how to get the best use of FAA and commercially available forecast products and briefing services. Course takes a condition-by-condition look at various hazardous weather phenomena.
Prerequisite: AERN 25250 or GEOG 31062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35030 INTRODUCTION TO CORPORATE AVIATION 3 Credit Hours
Introduces students to the business and corporate sectors of commercial aviation. Examines business and corporate aviation from the joint perspectives of operations and maintenance management as well as flight operations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35031 AIR TRANSPORTATION INDUSTRY REGULATIONS 3 Credit Hours
This course will examine the functions of the regulatory agencies in the aviation industry. The evolution of Administrative Regulation, Federal Aviation Regulation and the rule making process.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35040 AIRCRAFT SYSTEMS I 3 Credit Hours
In-depth study of various aircraft systems including electrical systems, environmental control systems and fuel systems as applied to aircraft.
Prerequisite: PHY 13002 or PHY 13012 or PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35150 AIRCRAFT STRUCTURES 3 Credit Hours
Aircraft structural design investigations dealing with theory and applications in aviation.
Prerequisite: PHY 13001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AERN 35250 UNMANNED AIRCRAFT SYSTEMS LAW AND REGULATIONS 2 Credit Hours
This course introduces students to the changing and dynamic area of UAS laws and regulations. Students will study the Constitutional, statutory and regulatory sources of law. Students will study the Congressional and regulatory development of UAS laws. Students will learn how the regulatory process, advanced proposals of rulemaking and notice of proposed rule making operates. Students will also study pertinent case law regarding Constitutional, criminal, privacy issues, tort and products liability issues. Finally, students will learn and understand how to legally operate a UAS in the National Airspace System in an always changing legal and technology environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 35339 FIXED BASE OPERATOR OPERATIONS 3 Credit Hours
A study of general aviation operations and the role of fixed base operators in the National Aviation System; management functions; marketing; profit; cash flow; financing; human resources; organization; administration; management information systems; operations; maintenance; safety; liability; physical facilities; and the future of general aviation.
Prerequisite: AERN 15000 and AERN 25100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35340 AIRPORT MANAGEMENT 3 Credit Hours
Introduction to the many functions that are involved in the operation and management of an airport. Includes an analysis of the development of the airport-airway system, airport legislation, airport planning and airport operations.
Prerequisite: AERN 15000 and AERN 25100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35341 AIR TRANSPORTATION SYSTEMS 3 Credit Hours
Descriptive course in airline operations as seen from the air carrier's business perspective. Emphasis is on business practices and techniques unique to aviation.
Prerequisite: AERN 15000 and AERN 25100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35350 TERMINAL OPERATIONS 3 Credit Hours
Intermediate to advanced level terminal operations course. This course includes an emphasis on ATCT operations at the ground control and local control positions, as well as TRACON operations in arrival, departure and overflight roles. Topics covered include, but are not limited to, phraseology, maps, procedures, LOAs and weather.
Prerequisite: AERN 15740 or AERN 15745 or AERN 15750; and AERN 25350 and AERN 25351.
Corequisite: AERN 35351.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35351 TERMINAL OPERATIONS LABORATORY 2 Credit Hours
Intermediate to advanced level terminal operations course. This course includes an emphasis on ATCT operations at the ground control and local control positions, as well as TRACON operations in arrival, departure and overflight roles. Topics covered include, but are not limited to, phraseology, maps, procedures, LOAs and weather.
Prerequisite: AERN 15740 or AERN 15745 or AERN 15750; and AERN 25350 and AERN 25351.
Corequisite: AERN 35350.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

AERN 35650 NON-PILOT INSTRUMENT FLIGHT THEORY 3 Credit Hours
Course instruction for instrument flight to include: navigation facilities and equipment (both ground and aircraft), general weather theory and weather related to instrument meteorological conditions, weather charts and sources, FAA regulations pertinent to the conduct of instrument flight, aeronautical charts for instrument flight and techniques and procedures unique to the conduct of instrument flight. This course does not satisfy the Federal Aviation Regulation requirement for endorsement to take the Airman Knowledge Exam for an Instrument Rating nor does it satisfy the Aircraft Dispatch minor.
Prerequisite: AERN 15740 or AERN 15745; and AERN 25250.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35660 INSTRUMENT FLIGHT THEORY 3 Credit Hours
Course instruction on instrument flight to include navigation facilities (both ground and aircraft), weather theory and weather specific to instrument meteorological conditions, weather charts and sources, cross country flight planning for IFR, FAA regulations specific to IFR flight, charts for instrument flight, aircraft performance, decision making, aircraft systems and instruments related to IFR flight and instrument flight techniques and procedures. This course meets the requirements for endorsement to take the FAA Airman Knowledge Exam for an instrument rating and satisfies the requirements of the training course outline approved by the FAA. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: Minimum C grade in the following courses: AERN 15740 or (AERN 15752 and AERN 15753); and minimum 2.500 overall GPA; and Aeronautical Studies major or Air Traffic and Airspace Management major or Aviation Management major or Professional Pilot major or Unmanned Aircraft Systems Flight Operations major.
Pre/corequisite: AERN 25250.
Corequisite: AERN 35661.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35661 INSTRUMENT PILOT FLIGHT 3 Credit Hours
Comprehensive flight course for the professional pilot candidate that introduces commercial pilot flight skills and meets the training requirements of the FAA instrument rating. Student is required to spend a minimum of two hours daily, five days a week, at the airport until all course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid private pilot certificate in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: MATH 11010; and AERN 15753 with a minimum C grade; and minimum 2.500 overall GPA; and Professional Pilot major.
Corequisite: AERN 35660.
Schedule Type: Flight Training
Contact Hours: 6.9 other
Grade Mode: Standard Letter-IP

AERN 35665 COMMERCIAL PILOT FLIGHT: NAVIGATION 3 Credit Hours
Advanced flight course for the professional pilot candidate to meet aeronautical experience requirements of the FAA commercial pilot certificate. Primary emphasis is on cockpit resource management, advanced navigational practices and advanced instrument instruction. Students are required to spend a minimum of two hours daily, five days a week, at the airport until all course requirements have been attained. When not flying, students go through personalized ground instruction. Students must hold valid private pilot certificate with an instrument rating in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 35660 and AERN 35661 with a minimum C grade; and minimum 2.500 overall GPA; and Professional Pilot major.
Schedule Type: Flight Training
Contact Hours: 5 other
Grade Mode: Standard Letter-IP

AERN 35760 COMMERCIAL PILOT THEORY 2 Credit Hours
Comprehensive instruction covering all areas necessary to exercise the privileges of a commercial pilot. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 35660 with a minimum C grade; and minimum 2.500 overall GPA.
Corequisite: AERN 35761.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 35761 COMMERCIAL PILOT FLIGHT 3 Credit Hours
Comprehensive flight course for the professional pilot candidate to meet the requirements of the FAA commercial pilot certificate. Student is required to spend up to two hours daily, five days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid private pilot certificate with an instrument rating in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 35665 with a minimum C grade; and minimum 2.500 overall GPA; and Professional Pilot major.
Corequisite: AERN 35760.
Schedule Type: Flight Training
Contact Hours: 4.7 other
Grade Mode: Standard Letter-IP

AERN 35810 UNMANNED AIRCRAFT SYSTEMS 3 Credit Hours
Provides an understanding of the theory of operation, architecture and performance characteristics of various airborne-onboard systems and subsystems utilized in unmanned aerial vehicles. Also includes examination of aircraft materials, structural components and configuration.
Prerequisite: AERN 25800.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35830 UNMANNED AIRCRAFT SYSTEMS SENSING AND SENSOR SYSTEMS 3 Credit Hours
An in-depth study of sensors and remote sensing systems used to support unmanned aircraft operations. Course emphasizes the theory, technical characteristics, capabilities and operational use of various sensors and sensing systems. Course also investigates sensor data generation and sensing system image interpretation and analysis.
Prerequisite: AERN 25800.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35840 UNMANNED AIRCRAFT SYSTEMS COMMAND, CONTROL AND COMMUNICATIONS 3 Credit Hours
Explores the technological and operational aspects of ground-based and airborne command, control and communications systems used in unmanned aircraft systems. Topics include UAV sense-and-avoid systems, data link systems, voice communications systems, telemetry systems, navigation systems and manual and automatic flight control systems.
Prerequisite: AERN 25800.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35850 EMERGENT AIR VEHICLES AND INFRASTRUCTURE 3 Credit Hours
This course examines the emerging vehicles and ground support technology that will constitute Advanced Air Mobility (AAM) and Urban Air Mobility (UAM). Students learn about the concepts of the vehicles that will be required to make up a safe and efficient aviation transportation system. Students study the highly automated aircraft that will operate and transport passengers or cargo at lower altitudes within urban and suburban areas. Students study UAM, which will be composed of an ecosystem that considers the evolution and safety of the aircraft, the framework for operation, access to airspace, infrastructure development and community engagement.
Prerequisite: None.
Corequisite: AERN 35851.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35851 EMERGENT AIR VEHICLES AND INFRASTRUCTURE LABORATORY 1 Credit Hour
Students develop and design the emerging vehicles and ground support technology that will constitute Advanced Air Mobility (AAM) and Urban Air Mobility (UAM). Students also design the framework for operation, access to airspace, infrastructure development and community engagement.
Prerequisite: None.
Corequisite: AERN 35850.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

AERN 35892 SMALL UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM (ELR) 2 Credit Hours
Small Unmanned Aircraft Systems Operations Flight Practicum. Student is required to spend a minimum of 15 hours during the semester flying a small unmanned aircraft system. When not flying, the student goes through personalized ground instruction. Special emphasis will be placed on the regulatory requirements of sUAS operations, applied weather theory, mission planning and emergency procedures. Students must obtain FAA Part 107 Unmanned Aircraft System Certification prior to starting this course.
Prerequisite: AERN 25800.
Schedule Type: Flight Training, Practical Experience
Contact Hours: 1 lecture, 3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

AERN 42000 HUMAN FACTORS IN AVIATION MAINTENANCE 2 Credit Hours
There are many different human factors at play when technicians are engaged in aviation maintenance, as well as when overseeing others doing this work. Using the PEAR model (people, environment, actions, resources), students in the course study the different aspects of human factors in relation to aviation maintenance, and address how these can affect an aviation maintenance manager.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 42392 ADVANCED PISTON AIRCRAFT MAINTENANCE (ELR) 1-8 Credit Hours
(Repeatable for credit) This variable credit course focuses on piston engine aircraft and the associated systems and engines on their respective airframes. Numerous aircraft utilize piston engines and advanced technology with unique sets of parts, equipment and maintenance recommendations, practices and procedures from original equipment manufacturers (OEM). Many OEM and other accredited organizations offer courses on these airframes and engines. Advanced standing course credit will be awarded based upon the evidence of certificates of completion from approved organizations for appropriate applicable courses.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-24 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 42492 INSPECTION AUTHORIZATION II (ELR) 2-4 Credit Hours
The Inspection Authorization (IA) credential is issued by the FAA to airframe and powerplant certified maintenance technicians after they have completed experiential requirements and passed an exam. After receiving the IA credential, a technician must keep up with the currency and renewal requirements through performing a required amount of inspections, repairs and alterations, or by completing yearly training courses. Advanced standing course credit is awarded based upon evidence of holding a current FAA Inspection Authorization, as well as having successfully renewed it.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 6-12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 42592 ADVANCED TURBINE AIRCRAFT MAINTENANCE (ELR) 1-8 Credit Hours
(Repeatable for credit) Transport category aircraft utilize turbine engines and advanced technology with unique sets of parts, equipment and maintenance recommendations, practices, and procedures from manufacturers as they work on the systems in transport category aircraft with turbine engines. This variable credit course allows for experience on turbine engine aircraft and their associated systems with airframes to include, but not limited to, Airbus, Boeing, Cessna Citation, Embraer, Dassault Falcon, Beech King Air and Bombardier Lear Jet. Original Equipment Manufacturers (OEM) and other accredited organizations offer courses on these airframes and their associated turbine engines. Advanced standing course credit will be awarded based upon evidence of the certification of completion of appropriate applicable courses offered by an approved organization.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-24 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 42799 STRATEGIC AVIATION MAINTENANCE MANAGEMENT CAPSTONE (ELR) (WIC) 2 Credit Hours
Capstone course is designed to address evolving issues and challenges in aviation maintenance management. Students discriminate between effective and ineffective aircraft maintenance programs while working on teams to construct a preliminary plan to establish and run an efficient, reliable and safe aircraft maintenance program of their own.
Prerequisite: Senior standing.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

AERN 45001 INITIAL DISPATCH I 2 Credit Hours
Part I of III preliminary courses required for students not currently enrolled at Kent State University. Provided in order to meet Federal Aviation Regulation requirements under Part 65 for training to become an Aircraft Dispatcher. This course may be necessary as preliminary training to enroll in AERN 45010 and 45020 Aircraft Dispatch I and II respectively. Successful completion of Dispatch I and II results in authorization to take the FAA written and practical exams for the Aircraft Dispatcher certificate. Need for the course depends on previous coursework or FAA certificates completed.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45002 INITIAL DISPATCH II 2 Credit Hours
Part II of III preliminary courses required for students not currently enrolled at Kent State University to enroll in Aircraft Dispatch I or Aircraft Dispatch II. This course is a continuation of training required by Part 65 of the Federal Aviation Regulations to earn an Aircraft Dispatcher Certificate. It may be required in order to meet the registration requirements for AERN 45010 and 45020, Aircraft Dispatch I and II of which successful completion results in authorization to take the FAA written and practical exams for the Aircraft Dispatcher Certificate. Need for the course depends on previous coursework or FAA certificates completed.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45003 INITIAL DISPATCH III 2 Credit Hours
Part III of III preliminary courses required for students not currently enrolled at Kent State University to enroll in Aircraft Dispatch I or Aircraft Dispatch II. This course is the final course to complete preliminary training required by Part 65 of the Federal Aviation Regulations to earn an Aircraft Dispatcher Certificate. It may be required in order to meet the registration requirements for AERN 45010 and 45020, Aircraft Dispatch I and II respectively, of which successful completion results in authorization to take the FAA written and practical exams for the Aircraft Dispatcher Certificate. Need for the course depends on previous coursework or FAA certificates completed.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45010 AIRCRAFT DISPATCH I 3 Credit Hours
This is the first of two courses required to qualify for the FAA Aircraft Dispatcher Airman Knowledge Test and the associated FAA Practical Exam for issuance of an Aircraft Dispatcher License. Topics include weather theory and weather services, regulations, aircraft systems, dispatch operations, decision making, human error, situational awareness, communications and aeronautical charts. Students must be 21 yrs of age or turn 21 during the semester taken. Special course fees apply.
Prerequisite: AERN 35650 or AERN 35660; and special approval.
Corequisite: AERN 45020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45020 AIRCRAFT DISPATCH II 3 Credit Hours
Second of two courses designated for the practical application of previously acquired knowledge necessary to perform aircraft dispatcher functions. Topics as applied to dispatch functions include briefing techniques, weather analysis and flight planning, aircraft systems, resource management, decision making, and cargo carrying. Completion required to earn a Graduation Certificate required by FAR Part 65 to qualify for a practical exam. An instructor endorsement to take the FAA aircraft dispatcher practical test is also required and is issued separately and solely at the discretion of the course instructor. Special course fees may apply. Please visit www.kent.edu/caest/flight-technology and click on the Flight Course Fees link for more information. The student must be aged 21 or turn 21 during the semester taken.
Corequisite: AERN 45010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45030 AIRCRAFT SYSTEMS II 3 Credit Hours
Continuation of AERN 35040. An in-depth study of various aircraft systems including auxiliary systems, undercarriage, hydraulics, flight controls, instruments and integrated systems as applied to aircraft.
Prerequisite: AERN 35040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45040 LABOR RELATIONS IN AVIATION 3 Credit Hours
Legislation governing labor relations in the private sector of the United States economy consist of two separate and distinct pieces of legislation: the Railway Labor Act and National Labor Relations Act. This course focuses on the examination of air transport labor relations in the context of these key laws. As the student of aviation management comes in contact with both acts though this course, the student learns similarities and differences of each and their resultant impact. The student actively applies this knowledge during a mock labor relations negotiation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45099 AERONAUTICAL STUDIES CAPSTONE (ELR) 3 Credit Hours
(Repeatable for credit) An in-depth study of the student's area of focus within aeronautical studies, culminating to a senior level project. At the discretion of the aeronautics faculty, students may substitute another capstone course for this course. Students must pass this capstone with a grade of C (2.000) or better in order to graduate.
Prerequisite: Senior standing.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 45130 PHYSIOLOGY AND HUMAN FACTORS IN AVIATION 3 Credit Hours
A study of the interaction of the human body with flight and those human factors that affect flight operations. Students understand how issues related to spatial disorientation, human error, aeronautical decision making, hazardous attitudes, human-machine interaction, fatigue and physical fitness impact safe operations on the ground and in the air.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45135 AVIATION SAFETY THEORY 3 Credit Hours
An in-depth study of aviation human safety theories and the basics of risk and safety management.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45150 APPLIED FLIGHT DYNAMICS I 3 Credit Hours
An applied aircraft flight dynamics course that demonstrates aircraft, engine and propeller performance with the overall flight performance and stability of the typical subsonic airplane. Emphasis is placed on the aerodynamics of flight.
Prerequisite: PHY 13001 or PHY 23101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45199 AIRPORT OPERATIONS (ELR) 3 Credit Hours
This course focuses on the daily functions of airport operations. Students receive hands-on training in performing daily inspections at the Kent State Airport to evaluate and keep track of airfield discrepancies. Students use a database to address the Airport Certification Manual and FAR Part 139 criteria.
Prerequisite: AERN 35340.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 45250 AVIATION LAW 3 Credit Hours
Involves a study of the origins of Western jurisprudence, common law and aviation law as an integral part of law in the U.S. Also introduces international aviation law by lateral agreement, as well as U.S. Constitutional law and its amendments as they relate to the structure and process of aviation law. Criminal and civil law as they relate to civil aviation are also addressed. Case studies are included.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45255 LEGAL ANALYSIS OF AVIATION AND ENGINEERING DISASTERS 2 Credit Hours
This course examines legal issues of mass torts in the specific arena of aviation and engineering products liability, negligence and personal injury law. Special focus is on class action lawsuits that give rise to mass tort litigation. Emphasis is on strict product liability, design defect, manufacturing defect, negligence, defenses to negligence and the claims that have given rise to mass tort litigation in U.S. and international jurisprudence. The Federal Torts Claims Act (FTCA) is examined in the context of aviation and aerospace engineering.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45299 STRATEGIC AVIATION MANAGEMENT (ELR) 3 Credit Hours
Serves as the capstone course for the Aviation Management major. As such, it is designed to address evolving issues and challenges in aviation management with a particular emphasis on airlines and airports through an application of previously mastered aviation management courses. Students must pass the course with a minimum grade of C (2.000).
Prerequisite: AERN 35341 and AERN 45199; and senior standing.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

AERN 45345 EN ROUTE OPERATIONS 3 Credit Hours
Intermediate to advanced en route course that focuses on low altitude and en route operations. We also discuss Non-RADAR, high altitude and special operations. Topics covered include, but are not limited to, phraseology, maps, LOAs, rules and procedures in non-RADAR and RADAR environments.
Prerequisite: AERN 35350 and AERN 35351; and junior standing.
Corequisite: AERN 45346.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45346 EN ROUTE OPERATIONS LABORATORY 1 Credit Hour
Intermediate to advanced level en route operations course. Students apply their knowledge and skills of en route operations in a practical setting. Topics covered include, but are not limited to, phraseology, maps, RADAR and D-Side procedures, LOAs and weather.
Prerequisite: AERN 35350 and AERN 35351; and junior standing.
Corequisite: AERN 45345.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

AERN 45399 AIR TRAFFIC CONTROL CAPSTONE (ELR) 1 Credit Hour
The culminating experience for the Air Traffic Control program of study. Students will work in groups to research and present a possible solution to a current event in the world of aviation and air traffic control.
Prerequisite: AERN 45345 and AERN 45346; and Aeronautical Studies major or Air Traffic and Airspace Management major or Aviation Management major or Professional Pilot major or Unmanned Aircraft Systems Flight Operations major.
Schedule Type: Project or Capstone
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 45400 AVIATION MAINTENANCE LAW AND REGULATIONS 2 Credit Hours
This course introduces students to the history, development of case law, statutory law and regulatory law of aviation maintenance. Special emphasis will be placed on the Federal Aviation Regulations and how they influence the Airframe and Power Plant Mechanic. Students will learn how the regulatory process works, the certification of mechanics works, and how to effectively read and interpret FAA regulations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45499 AIR TRAFFIC CONTROL CAPSTONE LABORATORY (ELR) 2 Credit Hours
The culminating experience for the Air Traffic Control program of study. Students participate in realistic simulations where students take the roles within all three areas of ATC (Tower, TRACON, and ARTCC). These scenarios often involve multiple domains simultaneously where students must work together to successfully finish, simulating a normal day for many controllers.
Prerequisite: AERN 45345 and AERN 45346; and Aeronautical Studies major or Air Traffic and Airspace Management major or Aviation Management major or Professional Pilot major or Unmanned Aircraft Systems Flight Operations major.
Pre/corequisite: AERN 45399.
Schedule Type: Laboratory, Project or Capstone
Contact Hours: 4 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 45550 MULTI-ENGINE PILOT - THEORY 1 Credit Hour
Course provides the required ground and flight instruction necessary to qualify students for the multi-engine rating from the FAA. Student is required to spend a minimum of two hours daily, three days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid commercial pilot certificate with an instrument rating in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 35761; and minimum 2.500 overall GPA; and Professional Pilot major.
Corequisite: AERN 45551.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

AERN 45551 MULTI-ENGINE PILOT - FLIGHT 1 Credit Hour
Course provides the required ground and flight instruction necessary to qualify students for the multi-engine rating from the FAA. Student is required to spend a minimum of two hours daily, three days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid commercial pilot certificate with an instrument rating in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 35761; and minimum 2.500 overall GPA; and Professional Pilot major.
Corequisite: AERN 45550.
Schedule Type: Flight Training
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

AERN 45648 THEORY OF FLIGHT INSTRUCTION (ELR) 3 Credit Hours
Detailed fundamentals of teaching flight and ground instruction and the analysis of flight techniques, in order to meet requirements of FAR's part 61.185(a). This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 35040; and AERN 35665 or AERN 35760 with a minimum C grade; and AERN 35761 and AERN 45150 with a minimum C grade; and minimum 2.500 overall GPA.
Corequisite: AERN 45649.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 45649 FLIGHT INSTRUCTOR - AIRPLANES 3 Credit Hours
(Repeatable for credit) Flight course with emphasis on instructing techniques in aircraft from right seat. Includes student evaluation techniques to meet Federal Aviation Regulation for certified flight instructor. Student is required to spend a minimum of two hours daily, five days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid commercial pilot certificate with an instrument rating in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 35761; and AERN 35665 or AERN 35760 with a minimum C grade; and Professional Pilot major.
Corequisite: AERN 45648.
Schedule Type: Flight Training
Contact Hours: 4.5 other
Grade Mode: Standard Letter-IP

AERN 45655 ADVANCED MULTI-ENGINE PILOT FLIGHT 1 Credit Hour
Ground flight instruction for proficiency and required hours in preparation for multi-engine instruction. Special course fees may apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid commercial pilot certificate with an instrument rating in an airplane single engine land, certified flight instructor airplane certificate and a valid FAA medical; maintain at least second class privileges; and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval.
Prerequisite: AERN 45550 and AERN 45551 with a minimum C grade; and minimum 2.500 overall GPA; and Professional Pilot major.
Schedule Type: Flight Training
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

AERN 45657 MULTI-ENGINE FLIGHT INSTRUCTOR 1 Credit Hour
(Repeatable for credit) Course provides the necessary ground and flight instruction to professionally qualify students for the multi-engine instructor rating by the FAA. Student is required to spend two hours daily, three days a week, at the airport. When not flying, the student goes through personalized ground instruction with the flight instructor. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid commercial pilot certificate with an instrument rating in an airplane single engine land, certified flight instructor airplane certificate and a valid FAA medical; maintain at least second class privileges; and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval.
Prerequisite: Minimum C grade in the following courses: AERN 45550 and AERN 45551 and AERN 45648 and AERN 45649 and AERN 45655; and minimum 2.500 overall GPA; and Professional Pilot major.
Schedule Type: Flight Training
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

AERN 45659 UPSET RECOVERY TRAINING 1 Credit Hour
Consisting of both ground school and hands-on flight components, this upset training course prepares pilots for emergency situations they may encounter that cannot properly be replicated in a typical GA aircraft. Extensive piston driven and swept wing jet aerodynamic characteristics, accident analysis and recovery profile. Special course fees may apply. Please visit www.kent.edu for a list of fees. A private pilot certificate (airplane single engine land) is required. Students who hold a private pilot certificate meet the prerequisite requirement of AERN 15753. Please speak to an advisor for more information.
Prerequisite: AERN 15753 with a minimum C grade; and minimum 2.500 overall GPA.
Schedule Type: Flight Training
Contact Hours: 1 other
Grade Mode: Standard Letter

AERN 45660 FLIGHT INSTRUCTOR - INSTRUMENTS THEORY 1 Credit Hour
Flight theory course with emphasis on flight instructing techniques involved with instrument flight and air traffic control procedures. Students must hold valid commercial pilot certificate with an instrument rating in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 45649; and AERN 45648 with a minimum C grade; and minimum 2.500 overall GPA; and Professional Pilot major.
Corequisite: AERN 45661.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

AERN 45661 FLIGHT INSTRUCTOR - INSTRUMENTS FLIGHT 1 Credit Hour
Flight course with emphasis on flight instructing techniques involved with instrument flight and air traffic control procedures. Student is required to spend a minimum of two hours daily, three days a week, at the airport until course requirements have been met. When not flying, the student goes through personalized ground instruction. Special course fees apply. Actual flight training may exceed designated hours. Please visit www.kent.edu for a list of fees. Students must hold valid commercial pilot certificate with an instrument rating in an airplane single engine land and a valid FAA medical, maintain at least second class privileges and have TSA approval prior to starting course. Students must comply with university code of student conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual. Failure to comply may result in punitive actions, issuance of a failing course grade and/or dismissal from the professional pilot program. This course may not be repeated without special approval. Students who do not successfully complete a flight theory course will receive a failing grade in the associated flight course.
Prerequisite: AERN 45649; and AERN 45648 with a minimum C grade; and minimum 2.500 overall GPA; and Professional Pilot major.
Corequisite: AERN 45660.
Schedule Type: Flight Training
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

AERN 45710 TURBINE ENGINE THEORY AND OPERATION 2 Credit Hours
An in-depth study of the theory, operation and performance of turbine and turboprop engines and associated systems.
Prerequisite: AERN 35020.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45720 CREW RESOURCE MANAGEMENT 2 Credit Hours
In-depth study of the common principles of aviation crew resource management and human factors as utilized by air transport flight crews. Course presents crew/cockpit resource management (CRM), aeronautical decision making (ADM) and human factors theory and practice.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45730 APPLIED TRANSPORT CATEGORY AIRCRAFT SYSTEMS 3 Credit Hours
Course examines various systems in use on air transport aircraft. The course emphasizes the principles, operation and limitations of complex, integrated systems found in modern aircraft.
Prerequisite: AERN 35020.
Corequisite: AERN 45030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45740 FLIGHT MANAGEMENT SYSTEMS 3 Credit Hours
Course examines various advanced avionics systems used on air transport type aircraft. The course emphasis is on the principles, operation and limitations of integrated avionics related to the "glass cockpit" found on modern aircraft.
Prerequisite: AERN 45030.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AERN 45750 AEROSPACE MEDICINE 2 Credit Hours
This course examines the medical and legal issues of regulating the presence of humankind in aviation. Special emphasis will be given to the medical conditions that human life encounters when exposed to machines and different environments including atmospheric and non-atmospheric flight. Students will study the history, physiology and environment, clinical issues, operational issues, legal issues and future issues of aerospace medicine.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45791 AVIATION SECURITY AND POLICY SEMINAR (WIC) 3 Credit Hours
Examines policies, practices, procedures and regulatory provisions developed to create and enhance security in civil aviation with a special emphasis on airlines, airports, airspace and agencies responsible for civil aviation security.
Prerequisite: AERN 45250.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

AERN 45800 UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS THEORY 4 Credit Hours
Classroom instruction to provide the general information and knowledge necessary to prepare students to pilot and operate unmanned aircraft. Emphasis is placed on the acquisition of knowledge required to engage in UAS flight operations, specifically focused on piloting UAVs and managing UAV sensors. This course provides students with the background knowledge required to begin flight training and to perform real-time mission management operations for high performance unmanned aircraft systems.
Prerequisite: AERN 25800.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

AERN 45820 AIRSPACE MANAGEMENT 3 Credit Hours
This course studies the dynamic, integrated management of air traffic and airspace including air traffic services, airspace management and air traffic flow management — safely, economically and efficiently — through the provision of facilities and seamless services in collaboration with all controlling and operations entities and involving airborne and ground-based functions. Students also focus on the aggregation of the airborne and ground-based functions (air traffic services, airspace management and air traffic flow management) required to ensure the safe and efficient movement of aircraft during all phases of operations. This course compares and contrasts uncrewed operations and crewed operations within the context of Advanced Air Mobility and the National Airspace System. An introduction to space operations is also discussed.
Prerequisite: AERN 35850 and AERN 35851.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45892 UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM (ELR) 2 Credit Hours
This is the practicum course for the Unmanned Aircraft Systems Flight Operations major. Student is required to spend a minimum of 15 hours during the semester flying an unmanned aircraft system. When not operating an unmanned system, the student goes through personalized ground instruction. Special emphasis is placed on flying commercial UAS, fixed wing platforms and other commercial platforms. Students deepen their knowledge of regulatory requirements of UAS operations, applied weather theory mission planning and emergency procedures. Students must obtain FAA Part 107 Unmanned Aircraft System Certification prior to starting this course. Flight fees apply.
Prerequisite: AERN 25800 and AERN 35892.
Schedule Type: Flight Training, Practical Experience
Contact Hours: 4 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

AERN 65091 SEMINAR IN EMERGING ISSUES IN AVIATION LOGISTICS 2 Credit Hours
Guided by issues set forth by the International Air Cargo Association the Cargo Airlines Association, this variable content seminar will provide an interactive, dynamic and in-depth discussion on topics of immediate concern for the air freight industry.
Prerequisite: AERN 65100; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65092 PRACTICUM IN AERONAUTICS 1-4 Credit Hours
(Repeatable for credit) Practicum to gain experience in the aerospace or aviation industry managing various aspects of logistics. Logistic projects related to systems analysis, product or vehicle movement, legal and ethical issues, economic issues, international needs, safety, human resources and managerial assessment, or other aspects of managing logistics as approved are the focus of the course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-12 other
Grade Mode: Satisfactory/Unsatisfactory

AERN 65095 SPECIAL TOPICS IN AERONAUTICS 1-4 Credit Hours
(Repeatable for a maximum of 15 credit hours) Study of special topics that focus on subjects and issues in aeronautics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AERN 65100 LOGISTICAL STRATEGIES IN AVIATION MANAGEMENT 2 Credit Hours
This course presents the business of aviation logistics and its role in the global supply chain by examining different product sectors using air freight. By means of both domestic and international example, it then details some of the challenges facing the air cargo industry today and presents possible management options for their resolution.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65150 LEGAL AND REGULATORY ISSUES FOR AIR CARGO MANAGEMENT 2 Credit Hours
With a focus on both the domestic and global marketplace, this course provides in-depth coverage of the regulatory bodies and the protocols and procedures that govern the air cargo industry.
Prerequisite: AERN 65100; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65199 THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

AERN 65200 AVIATION ECONOMICS AND FISCAL MANAGEMENT 2 Credit Hours
Using examples from across key industries that make up the aviation sector, this course examines profit strategies employed by cargo-carrying airlines, all-cargo carriers, airports, ground transportation providers, and others with an aim of highlighting their role in and their impact on the business of air freight.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65201 AVIATION INDUSTRY CONTRACT MANAGEMENT 2 Credit Hours
The course provides students with practical experience in the realm of aviation contracts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65230 MODELING AND FORECASTING FOR AVIATION LOGISTICS PLANNING 2 Credit Hours
This course presents topics and techniques necessary to understand and develop an aviation logistics model such that an accurate and effective aviation demand forecast can be made.
Prerequisite: AERN 65100 and AERN 65200; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65235 HUMAN ERROR ANALYSIS IN AVIATION 2 Credit Hours
Provides an in-depth look at human error and its implications in the realm of safety using examples from the aviation industry. Includes a basic overview of human error, discussion on the models available to examine error, provides knowledge on how to classify and provide recommendations of intervention strategies. A focus will be on the SHELL Model, the Human Factors Analysis and Classification System, and the 5M model. This course will use real examples of accidents and incidents for students to apply these strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65240 AVIATION SAFETY MANAGEMENT SYSTEMS 2 Credit Hours
An in-depth study of the concepts and principles of aviation safety management and aviation Safety Management Systems (SMS). Provides a fundamental knowledge of SMS safety policy, safety risk management, safety assurance, and safety promotion. Also includes a thorough analysis of the design, implementation, and management of Safety Management Systems and its incorporation into various aviation sectors.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: AERN 65199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

AERN 65300 AIRLINE TRANSPORTATION OPERATIONS 2 Credit Hours
This course provides a managerial approach that highlights the importance of airline transportation. Students examine the framework for airline transportation from a micro and macro perspective. The focus is on operations management that is specialized or unique to the airline industry including regulation and public policy, as they overview operations, service and cost structure.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65301 AIR CARGO SECURITY 2 Credit Hours
This course examines Post 9-11 legislation put in place with respect to air cargo security and details unique challenges facing the industry today with an eye toward management of those challenges for future growth.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65400 WEATHER FOR AVIATION LOGISTICS PLANNING 2 Credit Hours
Introduction to weather concepts as related to aviation operations management. This course focuses on the effect of various phenomena on airport, airline, and small aircraft feeder operations. The emphasis is on understanding conditions that produce various phenomena, use of available weather products to determine conditions and hazardous conditions and their likely impact on aviation operations. An understanding of regulations relative to weather operations and aircraft capabilities will be gained. Regional weather is discussed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 65496 INDIVIDUAL INVESTIGATION IN AERONAUTICS 1-4 Credit Hours
(Repeatable for a maximum of 9 credit hours) Individual investigation of various aeronautics-related topics.
Prerequisite: Graduate standing and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

AERN 65499 CAPSTONE IN AERONAUTICS 2-4 Credit Hours
(Repeatable for credit) Culminating experience that requires completion of either a comprehensive project at a workplace through employment or internship or a comprehensive research paper from an investigation. The goal is for students to demonstrate competence in aviation management and logistics. Possibilities include empirical research, case studies, theoretical or applied projects or projects for identified clients. Student are evaluated on the use of knowledge and skills gained from other courses taken in their program.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2-4 other
Grade Mode: Standard Letter

College of Aeronautics and Engineering (CAE)

CAE 12260 SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING 1 Credit Hour

(Repeatable for credit) Introduction to basic problem-solving skills used in aeronautics and engineering. The course includes analysis of real-world scenarios and problems using common analytical and computer techniques, review and instruction in these techniques when necessary and practice in using these methods to analyze and solve problems. Students scoring a 35 or above on the ALEKS assessment will not receive credit towards their degree by completing this course.
Prerequisite: ALEKS score of 34 or below; and special approval.
Pre/corequisite: MATH 00020 or MATH 00021 or MATH 00022.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Satisfactory/Unsatisfactory

CAE 22095 SPECIAL TOPICS IN AERONAUTICS AND ENGINEERING 1-4 Credit Hours

(Repeatable for credit) Topics to be announced in the schedule of classes, offering current topics in technology based areas of study.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-4 other
Grade Mode: Standard Letter

CAE 35095 SPECIAL TOPICS IN AERONAUTICS AND ENGINEERING 1-3 Credit Hours

(Repeatable for credit) Specialized offerings of interest in response to emerging or needed curricular needs in aeronautics and engineering. Topics will be announced in the schedule of classes.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CAE 45092 AERONAUTICS AND ENGINEERING INTERNSHIP/ COOPERATIVE EDUCATION (ELR) (WIC) 1-3 Credit Hours

(Repeatable for a total of 6 hours) Work experience in aerospace/ aviation industry or related activity, laboratory or student professional organization.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement, Writing Intensive Course

CAE 45096 INDIVIDUAL INVESTIGATION IN AERONAUTICS AND ENGINEERING 1-3 Credit Hours

(Repeatable for a maximum of 6 credit hours) Work study of an individual nature on a topic relating to professional aviation.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

Engineering (ENGR)

ENGR 10005 INTRODUCTION TO CYBERSECURITY 3 Credit Hours

This course introduces students to the fundamentals of computer technology and cybersecurity. Students develop an understanding of computer hardware and software, cybercrime, security principles, technologies and procedures used to defend networks. This course also explores cyber trends, threats and personal privacy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 11001 INTRODUCTION TO ENGINEERING 2 Credit Hours

An introductory course in engineering covering topics including introductory topics in what it means to be an engineer. Additional topics include introductions to engineering standards, statistics, technical writing and communication, significant figures and engineering problem solving. Students also learn about working in teams and managing a project and utilize the concepts learned in a semester long team design project.
Prerequisite: Minimum C- grade in the following courses: MATH 10675 or MATH 10775 or MATH 11010; or a pre/co-requisite of MATH 11022 or MATH 12002 or MATH 12011; or minimum 67 ALEKS math score.
Corequisite: ENGR 11002.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 11002 INTRODUCTION TO ENGINEERING LABORATORY 1 Credit Hour

An introductory course in engineering covering topics including introductory topics in what it means to be an engineer. Additional topics include introductions to engineering standards, statistics, technical writing and communication, significant figures and engineering problem solving. Students also learn about working in teams and managing a project and utilize the concepts learned in a semester long team design project.
Prerequisite: Minimum C- grade in the following courses: MATH 10675 or MATH 10775 or MATH 11010; or a pre/co-requisite of MATH 11022 or MATH 12002 or MATH 12011; or minimum 67 ALEKS math score.
Corequisite: ENGR 11001.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 13586 COMPUTER AIDED DESIGN I 2 Credit Hours

Introduction to 3D computer-aided design (CAD). Students create 3D models and assemblies using a feature-based parametric solid modeling CAD package. Students learn concepts of engineering graphics as well as learn to generate, edit and dimension drawing views. Students are required to bring their own portable computer.
Prerequisite: None.
Corequisite: ENGR 13587.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 13587 COMPUTER AIDED DESIGN I LABORATORY 1 Credit Hour
Introduction to 3D computer-aided design (CAD). Students create 3D models and assemblies using a feature-based parametric solid modeling CAD package. Students learn concepts of engineering graphics as well as learn to generate, edit and dimension drawing views. Students are required to bring their own portable computer.
Prerequisite: None.
Corequisite: ENGR 13586.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 15300 ENGINEERING COMPUTING AND PROBLEM SOLVING 2 Credit Hours
Introduction to basic concepts in engineering analysis using the Matlab® computing language, the industry standard "first language" for engineers. Introduction to algorithm coding and development, debugging, analysis and interpretation. Students are required to bring their own portable computer and purchase the software for the course.
Prerequisite: Minimum C- grade in the following courses: MATH 10675 or MATH 10775 or MATH 11010; or a pre/co-requisite of MATH 11022 or MATH 12002 or MATH 12011; or minimum 67 ALEKS math score.
Corequisite: ENGR 15301.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 15301 ENGINEERING COMPUTING AND PROBLEM SOLVING LABORATORY 1 Credit Hour
Laboratory session introducing basic concepts in engineering analysis using the Matlab® computing language, the industry standard "first language" for engineers. Introduction to algorithm coding and development, debugging, analysis and interpretation.
Corequisite: ENGR 15300.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 15302 MATLAB SKILLS FOR ENGINEERS 1 Credit Hour
MATLAB® is a computing language used by engineers for analysis, problem-solving, and simulation. This course is intended for students that have prior programming experience but would like to extend that knowledge to MATLAB. The course will focus on the differences between MATLAB and other languages and how to utilize its capabilities in engineering. No credit earned toward a degree for this course if student already earned credit for ENGR 15300 and ENGR 15301.
Prerequisite: Minimum C- grade in the following courses: CS 13001 or CS 13012 or (ENGR 26220 and ENGR 26222); and MATH 12002 or MATH 12012 with a minimum C grade.
Pre/corequisite: ENGR 11001 and ENGR 11002.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 20000 PROFESSIONAL DEVELOPMENT IN ENGINEERING 1 Credit Hour
Providing several direct opportunities for interviewing and networking with engineering industry professionals, the main goal of this course is to prepare students for internship and career opportunities. Students will also have opportunities to develop necessary financial literacy skills to succeed in post-graduate careers while detailing and implementing short, middle and long-term life goals as part of the life-long learning process.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 20002 MATERIALS AND PROCESSES 3 Credit Hours
Study and practice addressing the nature of basic manufacturing materials and the processes by which they are converted into manufactured products. Includes laboratory experience.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 4 lab
Grade Mode: Standard Letter

ENGR 21020 SURVEY OF ELECTRICITY AND ELECTRONICS 3 Credit Hours
Survey of DC and AC circuits, semiconductors and electronic devices, including microprocessors and embedded systems.
Prerequisite: MATH 11022 or a pre/corequisite of MATH 12002 or MATH 12011; and PHY 13001 or PHY 23101.
Pre/corequisite: PHY 13002 or PHY 23102.
Corequisite: ENGR 21022.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 21022 SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY 1 Credit Hour
Laboratory experiments related to ENGR 21020.
Corequisite: ENGR 21020.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 23010 COMPUTER HARDWARE 3 Credit Hours
Introduction to the hardware, architecture and operation of the personal computer and associated devices. Topics include personal computer architecture and operation fundamentals; basic hardware; data buses and ports; hardware component packaging; auxiliary hardware components; computer assembly; basic hardware installation and configuration; and basic troubleshooting. This course is aligned with A+ content. CompTIA A+ is the preferred qualifying credential for technical support and IT operational roles.
Prerequisite: ENGR 10005.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 23585 COMPUTER AIDED DESIGN II 3 Credit Hours
Advanced applications of 3D, feature based, parametric, solid modeling software including finite element analysis, simulation, parameters, motion and mechanisms and other advanced tools in the design of parts and assemblies.
Prerequisite: ENGR 13586 and ENGR 13587.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

ENGR 25200 STATICS 3 Credit Hours
Forces and moments; equilibrium in two and three dimensions; multi-force members; equilibrium, centroids and friction.
Prerequisite: MATH 12002 with a minimum C grade; and minimum 2.250 overall GPA.
Pre/corequisite: ENGR 11001 and ENGR 11002 and PHY 23101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 25400 DYNAMICS 3 Credit Hours
Kinematics and kinetics of rigid bodies in planar motion, including force and acceleration, work and energy and impulse and momentum. Introduction to the kinematics and kinetics of rigid bodies in three-dimensional motion.
Prerequisite: MATH 22005 or MATH 32051; and ENGR 25200 and PHY 23101 with a minimum C grade.
Pre/corequisite: ENGR 11001 and ENGR 11002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 25500 AERODYNAMICS FOR ENGINEERS I 3 Credit Hours
Basic fluid dynamics concepts, conservation laws, potential, airfoil and wing analysis. Boundary layers on plates and airfoils. Pressure gradients. Introduction to turbulent and vortex-dominated flows.
Prerequisite: ENGR 25200; and MATH 22005 or MATH 32051 .
Pre/corequisite: ENGR 11001 and ENGR 11002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 26220 PROGRAMMING FOR ENGINEERS 2 Credit Hours
Introduction to engineering problem solving and use of programming language to solve those problems. Students are expected to develop basic mathematical modeling and engineering problem solving skills using mathematical tools and programming languages. Developing modeling and logical thinking are core objectives of this course. This course provides students with the required programming skills to work with embedded systems. Students are required to bring their own College of Aeronautics and Engineering (CAE) approved laptop. Specifications can be found on the CAE website.
Prerequisite: Sophomore standing.
Corequisite: ENGR 26222.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 26222 PROGRAMMING FOR ENGINEERS LABORATORY 1 Credit Hour
Lab to accompany ENGR 26220. Introduction to engineering problem solving and use of programming language to solve those problems. Students are expected to develop basic mathematical modeling and engineering problem solving skills using mathematical tools and programming languages. Developing modeling and logical thinking are core objectives of this course. This course provides students with the required programming skills to work with embedded systems. Students are required to bring their own College of Aeronautics and Engineering (CAE) approved laptop. Specifications can be found on the CAE website.
Prerequisite: Sophomore standing.
Corequisite: ENGR 26220.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 26305 NETWORKING I 2 Credit Hours
A hands-on, applied engineering-focused course emphasizing the operation, maintenance and performance aspects of personal computer networking hardware. Topics include networking hardware operation, characteristics, configuration and troubleshooting fundamentals. Course also includes network standards, protocols, configuration, topologies and administrative fundamentals as related to networking hardware systems.
Prerequisite: None.
Corequisite: ENGR 26306.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 26306 NETWORKING I LABORATORY 1 Credit Hour
A hands-on, applied engineering-focused course emphasizing the operation, maintenance and performance aspects of personal computer networking hardware. Topics include networking hardware operation, characteristics, configuration and troubleshooting fundamentals. Course also includes network standards, protocols, configuration, topologies and administrative fundamentals as related to networking hardware systems.
Prerequisite: None.
Corequisite: ENGR 26305.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 27100 FUNDAMENTALS OF OPERATING SYSTEMS FOR ENGINEERING 3 Credit Hours
The course will prepare students to engineer, install, monitor and manage systems using open-source operating systems. The students will learn operating system fundamentals for engineering applications, including cybersecurity engineering applications. Students will also learn how to configure local storage, create and configure systems, deploy and maintain systems, manage users and groups, and manage security. Different types of open source operating systems that are relevant for engineering systems will be introduced to students, in conjunction with key tools used in cybersecurity engineering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 27210 INTRODUCTION TO SUSTAINABILITY 3 Credit Hours
Introduces students to the concepts of sustainability and its three pillars, namely, economic growth, environmental protection and social equality. Students taking the course understand the language and concepts of sustainability and acquire the knowledge to further study sustainability.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 28105 FUNDAMENTALS OF NETWORKED INFRASTRUCTURE 2 Credit Hours
Computer networking foundations and associated cybersecurity posture development for infrastructure that provides network connectivity to engineering systems, such as production plants, manufacturing, utilities, machine shops and similar industries where industrial control systems are utilizing networks to exchange digital information.
Prerequisite: Sophomore standing.
Pre/corequisite: ENGR 10005.
Corequisite: ENGR 28106.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 28106 FUNDAMENTALS OF NETWORKED INFRASTRUCTURE LABORATORY 1 Credit Hour
Computer networking foundations and associated cybersecurity posture development for infrastructure that provides network connectivity to engineering systems, such as production plants, manufacturing, utilities, machine shops and similar industries where industrial control systems are utilizing networks to exchange digital information.
Prerequisite: Sophomore standing.
Corequisite: ENGR 28105.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 30001 APPLIED THERMODYNAMICS 3 Credit Hours
Study of basic thermodynamic laws and how they apply to engineering applications. Topics include energy, entropy, enthalpy, heat engines and refrigerators. Introductory fluid mechanics, including Bernoulli's equation. Introductory heat transfer including conduction, convection and radiation.
Prerequisite: PHY 13001 or PHY 23101; and minimum C grade in the following courses: MATH 11022 or MATH 11012 or MATH 12002 or MATH 12011 or MATH 12012.
Pre/corequisite: ENGR 11001 and ENGR 11002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 31000 CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC) 3 Credit Hours
This course provides a comprehensive exploration of how technology profoundly shapes and is shaped by society. It delves into the intricate relationship between technology and society, offering students a nuanced perspective on the cultural dynamics of technological change within an engineering context. Students explore how technology significantly influences, reflects and coevolves with society by analyzing a wide range of topics from genetic engineering and economic systems to communication infrastructure and governance, all within the framework of engineering practices and principles.
Prerequisite: ENG 21011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Writing Intensive Course

ENGR 31016 MANUFACTURING TECHNOLOGY 3 Credit Hours
This course is designed to provide experience in, and an understanding of, the interrelationships of the major aspects of a manufacturing enterprise. The content of the course is oriented around the laboratory activities necessary to organize and operate an enterprise that will apply mass production techniques necessary to produce a product or service. During the course, the student will apply the concepts from lecture in the selection, designing, financing, production, marketing and distributing of a product or service.
Prerequisite: ENGR 20002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 31020 AUTOMATED MANUFACTURING 3 Credit Hours
Theory and operation of computer controlled machine tools, robots and processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 31065 CAST METALS 3 Credit Hours
Principles and processes of metal casting with a focus on current industrial practices. Includes laboratory experience with nonferrous metals and industrial tours.
Prerequisite: ENGR 20002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

ENGR 33031 PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours
An introduction to programmable logic controllers (PLCS) covering hardware, ladder logic programming, networking and communications. Programming timers, counters and sequencers and an introduction to human machine interfaces (HMIS).
Prerequisite: (EERT 12000 and EERT 12001) or ENGR 21020 or ENGR 35500.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: ITAG Engineering Technology, TAG Engineering Technology

ENGR 33032 PROGRAMMABLE LOGIC CONTROLLERS II 3 Credit Hours
Advanced principles and applications of programmable logic controllers with a focus on using sequential function charts to control complex industrial processes. Includes real time control issues, PLC networking, programming languages other than ladder logic, standards, motion control, supervisory control and data acquisition, process control, alarm management, power failure strategies and safety.
Prerequisite: ENGR 33031.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 33033 HYDRAULICS/PNEUMATICS 3 Credit Hours
Fluid properties, hydraulic design, viscosity, hydraulic components, pumps, systems and circuits, maintenance and safety, pneumatics, air systems control and design.
Prerequisite: PHY 13001 or PHY 23101.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 33041 CONTROL SYSTEMS 3 Credit Hours
Design and analysis of feedback control systems. Course includes introduction to feedback control systems, open loop and closed loop control, Laplace transforms, control system models, static and dynamic response, stability and performance of control systems, root locus technique, frequency response analysis (Bode plot) and design of controller for feedback control systems.
Prerequisite: (EERT 12000 and EERT 12001) or ENGR 21020 or ENGR 35500; and MATH 12002 or MATH 12012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 33111 STATICS AND STRENGTH OF MATERIALS 3 Credit Hours
An algebra-based analytical study of equilibrium of extended two-dimensional bodies; the concepts of elastic and thermal properties of materials; centroid and moment of inertia; and the relationship between the external forces applied to extended objects (generally beams and columns) and the resulting bending and shear stresses, the resulting strains and deformation of the object.
Prerequisite: PHY 13001 or PHY 23101.
Pre/corequisite: ENGR 11001 and ENGR 11002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 33222 DIGITAL DESIGN FOR COMPUTER ENGINEERING 3 Credit Hours
Introduction to digital design. The operation and use of digital devices and components as used in microprocessors and digital computers. Topics include binary arithmetic operations, Boolean algebra, logic gates, combinational and sequential logic, buffers, registers, memory devices. Students are exposed to applied problem solving via basic programing with microcontrollers and microprocessors.
Prerequisite: (EERT 12000 and EERT 12001) or ENGR 21020 or ENGR 35500.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 33223 ELECTRONIC COMMUNICATION 3 Credit Hours
Principles of digital and analog telecommunications and data signals. Topics include electromagnetic signal time and frequency characteristics, signal propagation, signal modulation, transmission lines, wireless signals, antennas, digital signal characteristics and protocols, signal multiplexing, microwave devices and applications.
Prerequisite: (EERT 12000 and EERT 12001) or (ENGR 21020 and ENGR 21022) or (ENGR 35500 and ENGR 35501).
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 33320 APPLIED EMBEDDED SYSTEMS I 3 Credit Hours
Course teaches students to utilize embedded systems for engineering problem solving. Students are exposed to the history of the microcontroller that is at the heart of modern embedded systems. Students learn about the different classes of embedded systems and form a foundation from which they can begin to develop solutions to simple, but real-world, problems using simple embedded microcontrollers, electronic devices and sensors. Basic coding principles are explained from an engineering problem solving perspective.
Prerequisite: CS 13001 or CS 13012 or (ENGR 26220 and ENGR 26222); and (EERT 12000 and EERT 12001) or (ENGR 21020 and ENGR 21022) or (ENGR 35500 and ENGR 35501).
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 33334 INDUSTRIAL ROBOTICS 1 Credit Hour
Classification, characteristics and functions of industrial robots. Covers basic safety precautions for working with robots. Laboratory time is spent programming FANUC industrial robots and utilizing FANUC robot teach pendants. Students have the opportunity to obtain a FANUC Robotics Handling Tool Operation and Programming certificate of completion.
Prerequisite: PHY 13002.
Corequisite: ENGR 33335.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 33335 INDUSTRIAL ROBOTICS LABORATORY 1 Credit Hour
Classification, characteristics and functions of industrial robots. Covers basic safety precautions for working with robots. Laboratory time is spent programming FANUC industrial robots and utilizing FANUC robot teach pendants. Students have the opportunity to obtain a FANUC Robotics Handling Tool Operation and Programming certificate of completion. This is the laboratory portion of the course.
Prerequisite: PHY 13002.
Corequisite: ENGR 33334.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 33364 METALLURGY AND MATERIALS SCIENCE 3 Credit Hours
Scientific study of modern manufacturing materials (metals, plastics and ceramics) with an emphasis on metals, laboratory test methods and data used to determine their manufacturing specifications and properties.
Prerequisite: ENGR 20002; and PHY 13001 or PHY 23101 with a minimum C grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 33440 ELECTRONIC DEVICES 3 Credit Hours
Introduction to electronic non-linear devices including diodes, transistors, optoelectronic devices and operational amplifiers. Use and application of these devices in different types of application like rectifiers, amplifiers and linear integrated circuits.
Prerequisite: (EERT 12000 and EERT 12001) or (ENGR 21020 and ENGR 21022) or (ENGR 35500 and ENGR 35501).
Corequisite: ENGR 33442.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 33442 ELECTRONIC DEVICES LABORATORY 1 Credit Hour
Course is lab component for ENGR 33440. Lab materials mirror concepts learned in lecture, including the introduction to electronic non-linear devices (e.g., diodes, transistors, optoelectronic devices, operational amplifiers). Use and application of these devices in different types of application like rectifiers, amplifiers and linear integrated circuits.
Prerequisite: (EERT 12000 and EERT 12001) or (ENGR 21020 and ENGR 21022) or (ENGR 35500 and ENGR 35501).
Corequisite: ENGR 33440.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 33700 QUALITY TECHNIQUES 3 Credit Hours
Introduction to quality management and the tools and techniques including the basic tools identified by ASQ (American Society for Quality) as well as an introduction to Lean and Six Sigma. Information presented helps prepare the student to qualify for the Quality Process Analyst Certification.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 33870 FACILITY DESIGN AND MATERIAL HANDLING 3 Credit Hours
This course provides students with a fundamental understanding of how layout affects the flow through a system. Both qualitative and quantitative tools are presented for complete approach to facility design and material handling. This course focuses on the design and layout of facilities and provides a detailed exploration of the principles and practices involved in planning various types of facilities, including manufacturing plants, warehouses and service centers. The course covers a range of topics, including facility layout and design, location planning, material handling, workplace design and sustainability.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 35200 THERMAL FLUID ENGINEERING 3 Credit Hours
First and Second Law of Thermodynamics for closed and open systems. Fundamentals of fluid mechanics and heat transfer.
Prerequisite: MATH 22005 or MATH 32051; and PHY 23101.
Corequisite: ENGR 35201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 35201 THERMAL FLUID ENGINEERING LABORATORY 1 Credit Hour
Laboratory demonstrations and experiments for various heat transfer and fluid dynamics concepts.
Prerequisite: None.
Corequisite: ENGR 35200.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 35300 AIRCRAFT PERFORMANCE AND STABILITY I 3 Credit Hours
First of a two-course sequence in aircraft performance and flight mechanics. Performance analysis of fixed-wing performance. Development of the aircraft equations of motion. Static stability analysis. Introduction to rotary-wing performance.
Prerequisite: ENGR 15300 and ENGR 15301; and MATH 32044 or MATH 32052; and ENGR 25400 and ENGR 25500 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 35500 SIGNALS AND CIRCUITS 3 Credit Hours
An introduction to electric circuit elements and electronic devices and a study of circuits containing such devices. Both analog and digital systems are considered.
Prerequisite: MATH 12002.
Pre/corequisite: PHY 23102.
Corequisite: ENGR 35501.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 35501 SIGNALS AND CIRCUITS LABORATORY 1 Credit Hour
Laboratory demonstrations and experiments for electrical circuits, data acquisition, and signal measurements.
Corequisite: ENGR 35500.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 35550 LAW AND ETHICS FOR ENGINEERS 2 Credit Hours
This course examines legal and ethical issues in engineering design. Special focus is given to negligence law, strict product liability law, design and manufacturing defects, patent, copyright and trademark law. Employment law and whistleblower protection are discussed in the context of the engineer. Special focus is given through the examination of case studies including, but not limited to, the Space Shuttle Challenger disaster, the Space Shuttle Columbia disaster and the Boeing 737 Max crashes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 35600 AERODYNAMICS FOR ENGINEERS II 3 Credit Hours
Compressible flow relationships; compressibility effects on airfoil and wing aerodynamics; shock waves; boundary layer effects on aircraft performance.
Prerequisite: ENGR 25500; and MATH 32044 or MATH 32052.
Pre/corequisite: ENGR 35200.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 35765 QUALITY AND RELIABILITY ENGINEERING 3 Credit Hours
Introduction to reliability and quality engineering with an emphasis on manufacturing and techniques for improving quality and reliability. Includes reliability, reliability prediction, quality techniques, modeling statistical process control, control charts, sampling, experimental design, and designing and manufacturing for quality and reliability.
Prerequisite: MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 36305 NETWORKING II 2 Credit Hours
Continuation of ENGR 26305 and ENGR 26306. In-depth coverage of personal computer-based enterprise networking systems hardware with a focus on network hardware and software configuration, fault analysis, diagnostics and troubleshooting. Topics include router and switch operation, programming, configuration and troubleshooting, along with overall enterprise network maintenance, troubleshooting and repair. Course also includes WAN and VLAN fundamentals, intermediate TCP/IP and network administration and maintenance as related to fielding and maintaining networking hardware components and systems.
Prerequisite: ENGR 26305 and ENGR 26306.
Corequisite: ENGR 36306.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 36306 NETWORKING II LABORATORY 1 Credit Hour
Continuation of ENGR 26305 and ENGR 26306. In-depth coverage of personal computer-based enterprise networking systems hardware with a focus on network hardware and software configuration, fault analysis, diagnostics and troubleshooting. Topics include router and switch operation, programming, configuration and troubleshooting, along with overall enterprise network maintenance, troubleshooting and repair. Course also includes WAN and VLAN fundamentals, intermediate TCP/IP and network administration and maintenance as related to fielding and maintaining networking hardware components and systems.
Prerequisite: ENGR 26305 and ENGR 26306.
Corequisite: ENGR 36305.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 36337 INFORMATION TECHNOLOGY SECURITY 3 Credit Hours
This course provides the foundation for understanding the key issues associated with protecting information assets. It covers the essential principles for information security and risk management; making it an important stepping stone of an IT security career. The course is supported with case based industry problems and their solutions through simulation based labs. Additionally, this course prepares students for CompTIA's Security+ SY0-501 certification exam.
Prerequisite: ENGR 10005; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 36620 PROJECT MANAGEMENT IN ENGINEERING 3 Credit Hours
The planning, organizing, directing and controlling of company technology resources for project-based management functions. Includes project coordination requirements, management and planning methods and the use of various management and planning tools.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 37777 CYBERSECURITY OPERATIONS 2 Credit Hours
The course also aligns to the Cisco Certified CyberOps Associate certification and covers how to monitor, detect, and respond to cybersecurity threats, as outlined in the National Institute of Standards and Technology (NIST) Cybersecurity Framework. You will learn security concepts, security monitoring, host-based analysis, network intrusion analysis, and security policies procedures. This course also aligns with the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework to support consistent communication language for cybersecurity education, training, and workforce development.
Prerequisite: ENGR 26305 and ENGR 26306.
Corequisite: ENGR 37778.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 37778 CYBERSECURITY OPERATIONS LABORATORY 1 Credit Hour
Laboratory activities related to course ENGR 37777.
Prerequisite: ENGR 26305 and ENGR 26306.
Corequisite: ENGR 37777.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 38105 IOT SECURITY IN ENGINEERING SYSTEMS 2 Credit Hours
Internet of things and other endpoints that connect over a networked infrastructure for industrial/engineering process control and automation system data exchange functions may utilize proprietary and/or standard protocols. The main activities include gaining knowledge and understanding of networked industrial systems, protocol attack surface analysis, troubleshooting, security posture of systems and analysis of data flow toward risk assessment.
Prerequisite: ENGR 28105 and ENGR 28106; and junior standing.
Corequisite: ENGR 38106.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 38106 IOT SECURITY IN ENGINEERING SYSTEMS LABORATORY 1 Credit Hour
Internet of things and other endpoints that connect over a networked infrastructure for industrial/engineering process control and automation system data exchange functions may utilize proprietary and/or standard protocols. The main activities include gaining knowledge and understanding of networked industrial systems, protocol attack surface analysis, troubleshooting, security posture of systems and analysis of data flow toward risk assessment.
Prerequisite: ENGR 28105 and ENGR 28106; and junior standing.
Corequisite: ENGR 38105.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 38205 NETWORK INSTRUMENTATION AND FORENSIC ANALYSIS 2 Credit Hours
Essential network instrumentation principles that provide an industrial network the requisite monitoring capabilities to realize a holistic cybersecurity posture and maintenance thereof for given business policy statements. Foundations of forensic and root-cause analysis and fundamental tenets of network instrumentation are covered. The course includes a project about a realistic scenario where the activities revolve around network analysis and design with cybersecurity policy enforcement and maintenance under business changes.
Prerequisite: ENGR 28105 and ENGR 28106; and junior standing.
Corequisite: ENGR 38206.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 38206 NETWORK INSTRUMENTATION AND FORENSIC ANALYSIS LABORATORY 1 Credit Hour
Essential network instrumentation principles that provide an industrial network the requisite monitoring capabilities to realize a holistic cybersecurity posture and maintenance thereof for given business policy statements. Foundations of forensic and root-cause analysis and fundamental tenets of network instrumentation are covered. The course includes a project about a realistic scenario where the activities revolve around network analysis and design with cybersecurity policy enforcement and maintenance under business changes.
Prerequisite: ENGR 28105 and ENGR 28106; and junior standing.
Corequisite: ENGR 38205.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 40003 LEAN SIX SIGMA 3 Credit Hours
Students will gain a comprehensive understanding of the tools and methodologies necessary to optimize processes, minimize waste and enhance overall quality. This class begins by exploring the concept of a Lean history and Lean Enterprise, where the focus is on value creation and waste reduction across all operations. This course helps students to categorize activities into value-added, non-value-added, or necessary non-value-added and how to address the eight types of waste. The course also examines the five core principles of Lean: Value, Value Stream, Flow, Pull, and Perfection, and examine how these principles can be applied to real-world scenarios. Introduces key tools such as Value Stream Mapping, Kaizen, 5S, Kanban and Root Cause Analysis to help identify opportunities for continuous improvement.
Prerequisite: ENGR 11001 and ENGR 11002; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 41065 SOLID MODELING AND SOLIDIFICATION SIMULATION 3 Credit Hours
Introduction to casting simulation software with an emphasis on projects related to design and filling of casting molds.
Prerequisite: ENGR 13586 and ENGR 13587 and ENGR 31065.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 42111 STRENGTH OF MATERIALS FOR ENGINEERS 3 Credit Hours
(Slashed with ENGR 52111 and ENGR 72111) The mathematical study of how materials respond to external forces. Stress, strain, torsion; deformation of thin-walled pressure vessels, beams and columns; and an introduction to energy methods.
Prerequisite: ENGR 25200; and MATH 32044 or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 42363 MATERIALS SELECTION IN DESIGN AND APPLICATIONS 3 Credit Hours
Description and analysis of procedures for selecting appropriate materials for a particular mechanical design. The affect of processing on material properties, introduction to materials science for users of materials. Extensive case studies of materials selection and materials and sustainability.
Prerequisite: ENGR 20002; and ENGR 33111 or ENGR 42111.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 42410 ENGINEERING OPTIMIZATION 3 Credit Hours
(Slashed with ENGR 52410 and ENGR 72410) This course will cover the theoretical foundations and present methods associated with the engineering optimization field, including: problem statement formulation; sensitivity methods; decomposition methods; Multidisciplinary Design Optimization (MDO) formulations; unconstrained and constrained 1-D and n-D search methods; and an introduction to heuristic search methods. Engineering optimization in the context of design of complex engineering systems will be discussed as well, with an emphasis on emerging techniques in the field.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 42610 INDUSTRIAL ROBOTICS AND VISION SYSTEMS 1 Credit Hour
Students learn how to program a FANUC industrial robot using the teach pendant. They also learn how to set up and use an industrial robot vision system. Students who successfully complete this course and the corequisite lecture will receive both FANUC Robotics Handling Tool Operation and Programming and FANUC V-iRVison Operation and Programming - 2D Certificates of Completion.
Prerequisite: PHY 13002 or PHY 23102; and senior standing.
Corequisite: ENGR 42611.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 42611 INDUSTRIAL ROBOTICS AND VISION SYSTEMS LABORATORY 2 Credit Hours
Students learn how to program a FANUC industrial robot using the teach pendant. They also learn how to set up and use an industrial robot vision system. Students who successfully complete this course and the corequisite lecture will receive both FANUC Robotics Handling Tool Operation and Programming and FANUC V-iRVison Operation and Programming - 2D Certificates of Completion.
Prerequisite: PHY 13002 or PHY 23102; and senior standing.
Corequisite: ENGR 42610.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

ENGR 42620 INDUSTRIAL AUTOMATION AND CONTROL 1 Credit Hour
Course covers programmable logic controllers, variable frequency drive motor control, human machine interfaces and industrial networking.
Prerequisite: ENGR 21020 (and ENGR 21022) or ENGR 35500 (and ENGR 35501).
Corequisite: ENGR 42621.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 42621 INDUSTRIAL AUTOMATION AND CONTROL LABORATORY 2 Credit Hours
Laboratory utilizing programmable logic controllers, variable frequency drive motor control, human machine interfaces and industrial networking.
Prerequisite: ENGR 21020 (and ENGR 21022) or ENGR 35500 (and ENGR 35501).
Corequisite: ENGR 42620.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

ENGR 42710 ADDITIVE MANUFACTURING AND 3D PRINTING 2 Credit Hours
(Slashed with ENGR 52710 and ENGR 72710) This course is designed to provide engineering students with knowledge about all available Rapid Prototyping and Rapid Tooling Techniques. Topics covered will include fundamentals of rapid prototyping and additive manufacturing, reverse engineering, CAD modeling, and current 3D printing technologies. Additional concepts important to product development in aviation industry and medical applications will be addressed and exercise during term projects. This class helps in preparing student to pass the SME- AM certification exam.
Prerequisite: (ENGR 13586 and ENGR 13587) or MERT 12001; and junior standing.
Corequisite: ENGR 42711.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 42711 ADDITIVE MANUFACTURING AND 3D PRINTING LABORATORY 1 Credit Hour
(Slashed with ENGR 52711 and ENGR 72711) This course is the laboratory component for the corequisite course. The course is designed to provide engineering students with knowledge about all available Rapid Prototyping and Rapid Tooling Techniques. Topics covered will include fundamentals of rapid prototyping and additive manufacturing, reverse engineering, CAD modeling, and current 3D printing technologies. Additional concepts important to product development in aviation industry and medical applications will be addressed and exercise during term projects. This class helps in preparing student to pass the SME- AM certification exam
Corequisite: ENGR 42710.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 43026 MICROPROCESSOR SYSTEMS 4 Credit Hours
(Slashed with ENGR 53026) Introduction to the architecture, operation and applications of an advanced microprocessor, focusing on assembly language programming and interfacing of standard programmable peripherals.
Prerequisite: ENGR 33222 and ENGR 46330.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 43030 MECHATRONICS 3 Credit Hours
(Slashed with ENGR 53030 and ENGR 73030) Application of automation concepts in motion control, electrical circuits, fundamental mechanics, control systems and programming, including modeling, interfacing and signal conditioning.
Prerequisite: ENGR 26220 and ENGR 26222; and PHY 13002 or PHY 23102.
Pre/corequisite: ENGR 33031 and ENGR 33041.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 43050 INVENTIVE PROBLEM SOLVING 3 Credit Hours
Theory of Inventive Problem Solving, TRIZ, is a collection of powerful problem-solving tools for a broad range of inventive problems. Capstone web-based course for students finishing their bachelor's degree. Assists students in utilizing material learned in earlier courses to solve many real world problems in multiple disciplines.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 43080 INDUSTRIAL AND ENVIRONMENTAL SAFETY 3 Credit Hours
Examines the occupational safety and health act and fundamentals of industrial safety programs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 43099 MECHATRONICS CAPSTONE (ELR) (WIC) 3 Credit Hours
Students work as members of integrated product teams to design and implement one or more mechatronics projects incorporating appropriate engineering standards and multiple design constraints. Final design report to include complete documentation of the design process, how constraints were met and all appropriate documentation of the final design (e.g. block and schematic diagrams, CAD models/drawings, a bill of materials, appropriate engineering calculations, discussion of the use of engineering standards).
Prerequisite: ENGR 43030; and a minimum 2.000 overall GPA.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENGR 43220 ELECTRICAL MACHINERY 3 Credit Hours
Principles of operation and application of motors, generators, transformers and other magnetic devices; electrical power generation, distribution and use.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 43550 COMPUTER-AIDED MANUFACTURING 3 Credit Hours
(Slashed with ENGR 53550) The application of computers to the preparation of machine tool control programs.
Prerequisite: (ENGR 13586 and ENGR 13587) or MERT 12001; and ENGR 20002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 43580 COMPUTER-AIDED MACHINE DESIGN 3 Credit Hours
Application of the principles of mechanics and strength of materials, with computer assistance to the design and selection of machine components under both static and dynamic loads.
Prerequisite: ENGR 13586 and ENGR 13587; and ENGR 33111 or ENGR 42111 or MERT 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 43899 ENGINEERING TECHNOLOGY CAPSTONE (ELR) (WIC) 3 Credit Hours
As the capstone course in Industrial Engineering Technology and Mechanical Engineering Technology, students develop and participate in all aspects of a project involving the solution of a problem through application of technology.
Prerequisite: ENGR 21020; and ENGR 21022; and ENGR 33111; and ENGR 43550 or ENGR 43580; and a minimum 2.000 overall GPA; and senior standing.
Schedule Type: Project or Capstone, Seminar
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENGR 45099 CAPSTONE: FOUNDRY TOOLING AND PATTERN MAKING (ELR) 3 Credit Hours
A project based lecture-lab focused on production of foundry tooling, testing and quality approval.
Prerequisite: ENGR 41065 and ENGR 43550.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab, Project or Capstone
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENGR 45121 AEROSPACE PROPULSION FOR ENGINEERING 3 Credit Hours
An in-depth study of gas turbine engines, rockets and hypersonic propulsion systems used in aerospace applications. Includes propulsion system design and operation, and the analysis of performance characteristics.
Prerequisite: ENGR 30001 or ENGR 35200; and MATH 22005 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 45151 APPLIED FLIGHT DYNAMICS II 3 Credit Hours
Aerodynamics, flight dynamics, and flight performance of high performance aircraft. Course includes supersonic aerodynamics, flight stability and handling, and an in-depth investigation and analysis of flight performance parameters including lift, drag, load factor, climb performance, and turn performance.
Prerequisite: AERN 45150.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

ENGR 45600 AIRCRAFT PERFORMANCE AND STABILITY II 3 Credit Hours
Second of a two-course sequence in aircraft performance and flight mechanics. Aircraft design introduction, linearized equations of motion, aircraft dynamics modes, approximations and control, aircraft root locus analysis, aircraft handling qualities.
Prerequisite: ENGR 35300; and ENGR 33041 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 45799 AIRCRAFT DESIGN I (ELR) 3 Credit Hours
(Slashed with ENGR 55799) First of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to aircraft, rotorcraft and spacecraft. Primary focus on introduction to design, decision making in design and preliminary sizing of an aerospace vehicle to meet customer requirements. Final technical report and presentation. Students must be within three semesters of graduating from their program and satisfy their program's major and overall GPA to register for the course.
Prerequisite: Special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENGR 45899 AIRCRAFT DESIGN II (ELR) (WIC) 3 Credit Hours
(Slashed with ENGR 55899) Second of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to aircraft, rotorcraft, and spacecraft. Primary focus on sub-system design (i.e., propulsion, structure, controls, etc.), and overall vehicle integration of these subsystems. Cost analysis and safety analysis. Final technical report and or model prototype.
Prerequisite: ENGR 45799.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENGR 45901 INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS 3 Credit Hours
(Slashed with ENGR 55901 and ENGR 75901) The objective of this course is to teach in a unified manner the fundamentals of the finite element method for the analysis of engineering problems arising in solids and structures. The course emphasizes the solution of real-life problems using the finite element method, and students get exposure to commercial finite element software (ANSYS or ABAQUS) and learn to critically evaluate finite element models. Examples are provided for solid, fluid and heat transfer applications. Finally, developing an understanding of the computational aspects of the finite element method and its application in realistic aerospace applications are the core goals of this course.
Prerequisite: ENGR 13586 and ENGR 13587; and MATH 32044 or MATH 32052; and senior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 46099 COMPUTER ENGINEERING TECHNOLOGY CAPSTONE (ELR) 3 Credit Hours
This course provides students with an integrative experience, applying aspects of the student's required coursework in computer engineering technology. Students gain experience in developing requirements in engineering specifications for a practical problem in networking and/or telecom-related projects. This course addresses emerging issues, capabilities and challenges in the current field of study. Students must be within two semesters of graduating from their program and satisfy their program's major and overall GPA to register for the course.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab, Project or Capstone
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENGR 46305 NETWORK SECURITY 2 Credit Hours
Introduction to network security with emphasis in identifying, analyzing and preventing various threats and attack patterns on computer networks. Students gain practical knowledge on network security protocols, firewalls, VPN, intrusion detection and prevention systems.
Prerequisite: ENGR 26305 and ENGR 26306.
Corequisite: ENGR 46306.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 46306 NETWORK SECURITY LABORATORY 1 Credit Hour
Introduction to network security with emphasis in identifying, analyzing and preventing various threats and attack patterns on computer networks. Students gain practical knowledge on network security protocols, firewalls, VPN, intrusion detection and prevention systems.
Prerequisite: ENGR 26305 and ENGR 26306.
Corequisite: ENGR 46305.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 46312 WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS 3 Credit Hours
(Slashed with ENGR 56312) Course builds upon existing wired networking skills and extends students' knowledge into the world of wireless networking. Students learn digital wireless fundamentals, wireless standards, how to implement a wireless network in an enterprise environment and how to troubleshoot wireless issues. Curriculum follows and prepares students for industry certification in wireless networking.
Prerequisite: ENGR 26305 and ENGR 26306.
Pre/corequisite: ENGR 36305 and ENGR 36306.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 46316 SERVER ADMINISTRATION AND CONFIGURATION I 3 Credit Hours
This course emphasizes on configuring and administering server operating systems to solve engineering problems. Students are expected to learn MS server management, Active Directory, OUs and server roles by utilizing variety of on-based and cloud based solutions.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 46317 SERVER ADMINISTRATION AND CONFIGURATION II 2 Credit Hours
Server Administration and Configuration II Lecture provides an in-depth coverage of the 70-741 certification exam objectives and focuses on the skills you need to configure networking with Windows Server 2016 and AZURE. After you finish this course, you'll have an in-depth knowledge of Windows Server 2016 networking services, including TCP/IP, DNS, DHCP, IPAM, remote access and advanced networking solutions.
Prerequisite: ENGR 46316.
Corequisite: ENGR 46318.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 46318 SERVER ADMINISTRATION AND CONFIG II - LABORATORY 1 Credit Hour
Server Administration and Configuration II Lab provides the hands-on component of ENGR 46317. It provides an in-depth coverage of the 70-741 certification exam objectives and focuses on the skills you need to configure networking with Windows Server 2016 and AZURE. After finishing this course, you'll have an in-depth knowledge of Windows Server 2016 networking services, including TCP/IP, DNS, DHCP, IPAM, remote access and advanced networking solutions.
Prerequisite: ENGR 46316.
Corequisite: ENGR 46317.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 46330 VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY 3 Credit Hours
(Slashed with ENGR 56330) Course includes programming in a high-level object-oriented, event- driven visual programming language, Visual Basic 2010 Express, conditional statements, iterative statements, arrays, object oriented programming, classes, objects, methods, inheritance, exception handling, graphical user interfaces with Windows Forms.
Prerequisite: ENGR 10005.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

ENGR 46351 NETWORK MANAGEMENT AND DESIGN 2 Credit Hours
Course covers the technical aspects of centrally managed and distributed wide area networks, with an emphasis on the techniques used to maintain and improve the performance of telecommunications and data networks. Students use software packages to monitor the real-time performance of a network and to diagnose various networking hardware and software problems. Topics include the five stacks of network management (fault management, configuration management, performance management, security management and accounting management). Examples of current specific network management products are reviewed.
Prerequisite: ENGR 36305 and ENGR 36306.
Corequisite: ENGR 46352.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 46352 NETWORK MANAGEMENT AND DESIGN LABORATORY 1 Credit Hour
Course covers the technical aspects of centrally managed and distributed wide area networks, with an emphasis on the techniques used to maintain and improve the performance of telecommunications and data networks. Students use software packages to monitor the real-time performance of a network and to diagnose various networking hardware and software problems. Topics include the five stacks of network management (fault management, configuration management, performance management, security management and accounting management). Examples of current specific network management products are reviewed.
Prerequisite: ENGR 36305 and ENGR 36306.
Corequisite: ENGR 46351.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 47200 SYSTEMS ENGINEERING 3 Credit Hours
(Slashed with ENGR 57200) Systems engineering as a method to solve problems. Introduction to the fundamental systems engineering principles, processes, and methodologies used to analyze, design, develop, and deploy complex, sustainable systems. Focuses on systems engineering as a logical, disciplined, systematic, and coherent approach to the design and development of a system, across the full life cycle of the system. Special emphasis is made on the concepts, methods, and activities used to analyze systems, to define and allocate requirements, to transform requirements into a system design, and to verify and validate the system.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 47210 SUSTAINABLE ENERGY I 3 Credit Hours
(Slashed with ENGR 57210) A comprehensive overview of energy sources and energy systems, with an emphasis on renewable energy and the implementation and sustainability of various forms of energy. Examines the characteristics of conventional non-renewable energy systems, along with alternate, renewable energy sources and systems. Includes fundamental energy concepts and the conversion, delivery, distribution, and storage of energy. Explores the technological application of various sources of energy and compares their benefits and limitations. Also presents an overview of present U.S. and global energy needs and demands, and the sustainable energy technologies that may be used to meet future energy demands.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 47211 SUSTAINABLE ENERGY II 3 Credit Hours
(Slashed with ENGR 57211) An in-depth study of the analysis, selection and implementation of various energy and power sources, with an emphasis on the use of renewable, sustainable energy systems. Focuses on determining energy needs, and on assessing and comparing energy systems with respect to efficiency, technical feasibility, available resources, cost and sustainability characteristics. Includes economics of energy systems, methods for determining costs, and cost-benefit analysis of various energy and power systems. Also includes the social, economic and environmental impact associated with the development, implementation and use of various forms of energy.
Prerequisite: ENGR 47210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 48001 ORBITAL MECHANICS 3 Credit Hours
(Slashed with ENGR 58001 and ENGR 78001) The course is an introduction to orbital and trajectory design. Topics include Newton's law of gravity; two-body motion; relative equations of motion; conic sections; orbits in three dimensions; orbital maneuvers; and interplanetary transfers.
Prerequisite: ENGR 25400; and MATH 32044 or MATH 32052; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 48002 SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL 3 Credit Hours
(Slashed with ENGR 58002 and ENGR 78002) Spacecraft rigid body dynamics in terms of direction cosine matrix, Euler angles, principal rotation vector and quaternions. Attitude determination using TRIAD, quaternion and matrix solutions to Wahba's problem and an introduction to recursive estimation and Kalman Filter. Nonlinear stability and control technique (i.e., Lyapunov Theory) is introduced and applied to the attitude stabilization and control problem.
Prerequisite: ENGR 25400 and MATH 32052; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 48003 SPACECRAFT DESIGN 3 Credit Hours
(Slashed with ENGR 58003 and ENGR 78003) Spacecraft mission design course with a focus on hands-on design experience. The first portion of the course is lecture-based. Topics include launch systems, space environment, spacecraft orbits and ground tracks, spacecraft design and sizing, budget designs, subsystem design and evaluation, cost and risk. The second portion is dedicated to student teamwork on the spacecraft design.
Prerequisite: (PHY 13001 and PHY 13021) or PHY 23101; and CHEM 10050 or CHEM 10058 or CHEM 10060 or CHEM 10970; and MATH 12002 or MATH 12012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 48010 MACHINE VISION 3 Credit Hours
(Slashed with ENGR 58010 and ENGR 78010) Course explores concepts and techniques for image/video processing and machine vision. Topics covered include image formation, image filtering, edge detection and segmentation, object recognition, object detection and tracking, 3D vision, etc.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 48099 ENGINEERING CAPSTONE I (ELR) 3 Credit Hours
First of a two-course capstone sequence for engineering and engineering technology students. Students work as members of an integrated product team under a faculty advisor to develop a conceptual design/prototype of a complex system that accomplishes a set of functional requirements. These projects can take the form of state, regional or national design competitions; governmental-sponsored projects; or industry-sponsored projects. Students must be within three semesters of graduating from their program and satisfy their program's GPA to register for the course.
Prerequisite: Special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENGR 48191 ADVANCED CYBERSECURITY SEMINAR 3 Credit Hours
State of the art advanced applications and topics about cybersecurity engineering are covered. The content of the course changes from semester to semester based on the faculty member's domain expertise in the cybersecurity engineering area.
Prerequisite: ENGR 38205 and ENGR 38206; and senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENGR 48199 ENGINEERING CAPSTONE II (ELR) (WIC) 3 Credit Hours
Second of a two-course capstone sequence for engineering and engineering technology students. Students work as members of an integrated product team under a faculty advisor to develop a conceptual design/prototype of a complex system that accomplishes a set of functional requirements. These projects can take the form of state, regional, or national design competitions, governmental-sponsored projects, or industry-sponsored projects.
Prerequisite: ENGR 48099.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENGR 48200 WIRELESS MESH NETWORK SECURITY 3 Credit Hours
Principles of wireless mesh networks in engineering systems with emphasis on their protocol vulnerabilities and common attack surface analysis. Foundational knowledge and hands-on labs to analyze, troubleshoot and develop risk assessment in wireless networks in industrial applications.
Prerequisite: ENGR 28105 and ENGR 28106; and senior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 52111 STRENGTH OF MATERIALS FOR ENGINEERS 3 Credit Hours
(Slashed with ENGR 42111 and ENGR 72111) The mathematical study of how materials respond to external forces. Stress, strain, torsion; deformation of thin-walled pressure vessels, beams and columns; and an introduction to energy methods.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 52363 MATERIALS SELECTION IN DESIGN AND APPLICATIONS 3 Credit Hours
(Slashed with ENGR 42363 and ENGR 72363) Description and analysis of procedures for selecting appropriate materials for a particular mechanical design. The affect of processing on material properties, introduction to materials science for users of materials. Extensive case studies of materials selection and materials and sustainability.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 52410 ENGINEERING OPTIMIZATION 3 Credit Hours
(Slashed with ENGR 42410 and ENGR 72410) This course will cover the theoretical foundations and present methods associated with the engineering optimization field, including: problem statement formulation; sensitivity methods; decomposition methods; Multidisciplinary Design Optimization (MDO) formulations; unconstrained and constrained 1-D and n-D search methods; and an introduction to heuristic search methods. Engineering optimization in the context of design of complex engineering systems will be discussed as well, with an emphasis on emerging techniques in the field.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 52710 ADDITIVE MANUFACTURING AND 3D PRINTING 2 Credit Hours
(Slashed with ENGR 42710 and ENGR 72710) This course is designed to provide engineering students with knowledge about all available Rapid Prototyping and Rapid Tooling Techniques. Topics covered will include fundamentals of rapid prototyping and additive manufacturing, reverse engineering, CAD modeling, and current 3D printing technologies. Additional concepts important to product development in aviation industry and medical applications will be addressed and exercise during term projects. This class helps in preparing student to pass the SME- AM certification exam
Prerequisite: Graduate standing.
Corequisite: ENGR 52711.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 52711 ADDITIVE MANUFACTURING AND 3D PRINTING LABORATORY 1 Credit Hour
(Slashed with ENGR 42711 and ENGR 72711) This is the laboratory component for the corequisite lecture. This course is designed to provide engineering students with knowledge about all available Rapid Prototyping and Rapid Tooling Techniques. Topics covered will include fundamentals of rapid prototyping and additive manufacturing, reverse engineering, CAD modeling, and current 3D printing technologies. Additional concepts important to product development in aviation industry and medical applications will be addressed and exercise during term projects. This lab helps in preparing student to pass the SME- AM certification exam.
Prerequisite: Graduate standing.
Corequisite: ENGR 52710.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 53030 MECHATRONICS 3 Credit Hours
(Slashed with ENGR 43030 and ENGR 73030) Application of automation concepts in motion control, electrical circuits, fundamental mechanics, control systems and programming, including modeling, interfacing and signal conditioning.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 53550 COMPUTER-AIDED MANUFACTURING 3 Credit Hours
(Slashed with ENGR 43550) The application of computers to the preparation of machine tool control programs.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 55799 AIRCRAFT DESIGN I 3 Credit Hours
(Slashed with ENGR 45799) First of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to aircraft, rotorcraft and spacecraft. Primary focus on introduction to design, decision making in design and preliminary sizing of an aerospace vehicle to meet customer requirements. Final technical report and presentation.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

ENGR 55899 AIRCRAFT DESIGN II 3 Credit Hours
(Slashed with ENGR 45899) Second of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to aircraft, rotorcraft and spacecraft. Primary focus on sub-system design (i.e., propulsion, structure, controls, etc.), and overall vehicle integration of these subsystems. Cost analysis and safety analysis. Final technical report and or model prototype.
Prerequisite: ENGR 55799; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

ENGR 55901 INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS 3 Credit Hours
(Slashed with ENGR 45901 and ENGR 75901) The objective of this course is to teach in a unified manner the fundamentals of the finite element method for the analysis of engineering problems arising in solids and structures. The course emphasizes the solution of real-life problems using the finite element method, and students get exposure to commercial finite element software (ANSYS or ABAQUS) and learn to critically evaluate finite element models. Examples are provided for solid, fluid and heat transfer applications. Finally, developing an understanding of the computational aspects of the finite element method and its application in realistic aerospace applications are the core goals of this course.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 56312 WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS 3 Credit Hours
(Slashed with ENGR 46312) Course builds upon existing wired networking skills and extends students' knowledge into the world of wireless networking. Students learn digital wireless fundamentals, wireless standards, how to implement a wireless network in an enterprise environment and how to troubleshoot wireless issues. Curriculum follows and prepares students for industry certification in wireless networking.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 56330 VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY 3 Credit Hours
(Slashed with ENGR 46330) Course includes programming in a high-level object-oriented, event- driven visual programming language, Visual Basic 2010 Express, conditional statements, iterative statements, arrays, object oriented programming, classes, objects, methods, inheritance, exception handling, graphical user interfaces with Windows Forms.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 57200 SYSTEMS ENGINEERING 3 Credit Hours
(Slashed with ENGR 47200) Systems engineering as a method to solve problems. Introduction to the fundamental systems engineering principles, processes, and methodologies used to analyze, design, develop, and deploy complex, sustainable systems. Focuses on systems engineering as a logical, disciplined, systematic, and coherent approach to the design and the development of a system, across the full life cycle of the system. Special emphasis is made on the concepts, methods and activities used to analyze systems, to define and allocate requirements, to transform requirements into a system design, and to verify and validate the system.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 57210 SUSTAINABLE ENERGY I 3 Credit Hours
(Slashed with ENGR 47210) A comprehensive overview of energy sources and energy systems, with an emphasis on renewable energy and the implementation and sustainability of various forms of energy. Examines the characteristics of conventional non-renewable energy systems, along with alternate, renewable energy sources and systems. Includes fundamental energy concepts and the conversion, delivery, distribution, and storage of energy. Explores the technological application of various sources of energy and compares their benefits and limitations. Also presents an overview of presents U.S. and global energy needs and demands, and the sustainable energy technologies that may be used to meet future energy demands.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 57211 SUSTAINABLE ENERGY II 3 Credit Hours
(Slashed with ENGR 47211) An in-depth study of the analysis, selection and implementation of various energy and power sources, with an emphasis on the use of renewable, sustainable energy systems. Focuses on determining energy needs, and on assessing and comparing energy systems with respect to efficiency, technical feasibility, available resources, cost and sustainability characteristics. Includes economics of energy systems, methods for determining costs, and cost-benefit analysis of various energy and power systems. Also includes the social, economic, and environmental impact associated with the development, implementation, and use of various forms of energy.
Prerequisite: ENGR 57210; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 58001 ORBITAL MECHANICS 3 Credit Hours
(Slashed with ENGR 48001 and ENGR 78001) The course is an introduction to orbital and trajectory design. Topics include Newton's law of gravity; two-body motion; relative equations of motion; conic sections; orbits in three dimensions; orbital maneuvers; and interplanetary transfers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 58002 SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL 3 Credit Hours
(Slashed with ENGR 48002 and ENGR 78002) Spacecraft rigid body dynamics in terms of direction cosine matrix, Euler angles, principal rotation vector and quaternions. Attitude determination using TRIAD, quaternion and matrix solutions to Wahba's problem and an introduction to recursive estimation and Kalman Filter. Nonlinear stability and control technique (i.e., Lyapunov Theory) is introduced and applied to the attitude stabilization and control problem.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 58003 SPACECRAFT DESIGN 3 Credit Hours
(Slashed with ENGR 48003 and ENGR 78003) Spacecraft mission design course with a focus on hands-on design experience. The first portion of the course is lecture-based. Topics include launch systems, space environment, spacecraft orbits and ground tracks, spacecraft design and sizing, budget designs, subsystem design and evaluation, cost and risk. The second portion is dedicated to student teamwork on the spacecraft design.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 58010 MACHINE VISION 3 Credit Hours
(Slashed with ENGR 48010 and ENGR 78010) Course explores concepts and techniques for image/video processing and machine vision. Topics covered include image formation, image filtering, edge detection and segmentation, object recognition, object detection and tracking, 3D vision, etc.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 60000 PROJECT MANAGEMENT IN A TECHNOLOGICAL ENVIRONMENT 3 Credit Hours
This course covers concepts and skills that are used by managers to propose, plan, budget, manage and lead project teams to successful completion of their projects, and the planning, organizing, directing and controlling of company technology resources for relatively short-term objectives. Students also learn to apply current projects. This course addresses the major questions and challenges that are encountered in the project management field, including the following: How should projects be prioritized? What factors contribute to project failure or success? How do project managers orchestrate the complex network of relationships involving vendors, subcontractors, project team members, senior management, functional managers and customers that affect project success?
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 60003 SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT 2 Credit Hours
Principles and concepts of six-sigma to improve organizational efficiency, effectiveness and productivity by improving quality, reducing waste, defects and failures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 60020 QUALITY STANDARDS 3 Credit Hours
This course introduces students to issues in quality standards, quality assurance and statistical inference in applied technology and process control. Topics include systems reliability, quality control, SPC, control charts, principles and methods of statistical analysis and prediction, and hypothesis testing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 60030 QUANTITATIVE METHODS I 2 Credit Hours
Descriptive and inferential statistics used in technology and engineering. Emphasis is on the methods of analysis and the interpretation of data associated with research and development in technological and engineering environments. Course topics include representation of data, descriptive statistics, probability, and probability distributions. No previous familiarity with probability or statistics is assumed. The ability to utilize basic algebra is required.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 60040 QUANTITATIVE METHODS II 2 Credit Hours
Descriptive and inferential statistics used in technology and engineering. Emphasis is on the methods of analysis and the interpretation of data associated with research and development in technological and engineering environments. Course topics include inferential statistics, statistical design, and the analysis of experiments. The ability to utilize basic algebra is required.
Prerequisite: Graduate standing.
Pre/corequisite: ENGR 60030.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 60078 RESEARCH METHODS IN TECHNOLOGY 2 Credit Hours
Research techniques for the technologist. Methods for designing, conducting, analyzing and interpreting results of technological research. Course allows students to become informed consumers of all forms of research used in different fields. Students identify various research approaches and the strengths and limitations associated with different approaches. Focus is on the context of educational research; philosophy underlying research; the scientific method; the relationship of theory to research; research strategies; experimental design; non-experimental design; sampling; hypotheses; and other pertinent aspects of research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 60092 INDUSTRIAL PRACTICE 1-4 Credit Hours
(Repeatable for credit) Practical experience in industry of a cooperative work-study nature.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-12 other
Grade Mode: Standard Letter

ENGR 61091 GRADUATE SEMINAR 1 Credit Hour
(Repeatable for credit) Discussions of selected technical topics related to engineering research.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

ENGR 61095 SPECIAL TOPICS IN ENGINEERING 1-3 Credit Hours
(Repeatable for credit) (Slashed with ENGR 81095) Study of significant and current issues in various engineering topics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ENGR 61096 INDIVIDUAL INVESTIGATION IN ENGINEERING 1-3 Credit Hours
(Repeatable for credit) (Slashed with ENGR 81096) Individual investigation for a topic in the field of engineering.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ENGR 61099 ENGINEERING TECHNOLOGY CAPSTONE 2-6 Credit Hours
(Repeatable for credit) Students complete either a comprehensive project at a workplace through employment or internship or a comprehensive research paper from an investigation. Student's goal is to demonstrate competence in their graduate area of study. Possibilities include empirical research, case studies, theoretical or applied projects or projects identified for a specific client. Students are evaluated on the use of knowledge and skills gained from other courses taken in the program.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2-6 other
Grade Mode: Standard Letter

ENGR 62610 INDUSTRIAL ROBOTICS AND VISION SYSTEMS 1 Credit Hour
(Slashed with ENGR 72610) Students learn how to program a FANUC industrial robot using the teach pendant. They also learn how to set up and use an industrial robot vision system. Students who successfully complete this course and the corequisite lab will receive both FANUC Robotics Handling Tool Operation and Programming and FANUC V-iRVison Operation and Programming - 2D certificates of completion.
Prerequisite: Graduate standing.
Corequisite: ENGR 62611.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 62611 INDUSTRIAL ROBOTICS AND VISION SYSTEMS LABORATORY 2 Credit Hours
(Slashed with ENGR 72611) Students learn how to program a FANUC industrial robot using the teach pendant. They also learn how to set up and use an industrial robot vision system. Students who successfully complete this course and the corequisite lecture will receive both FANUC Robotics Handling Tool Operation and Programming and FANUC V-iRVison Operation and Programming - 2D certificates of completion.
Prerequisite: Graduate standing.
Corequisite: ENGR 62610.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

ENGR 62620 INDUSTRIAL AUTOMATION AND CONTROL 1 Credit Hour
(Slashed with ENGR 72620) Course covers programmable logic controllers, variable frequency drive motor control, human machine interfaces and industrial networking.
Prerequisite: Graduate standing.
Corequisite: ENGR 62621.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 62621 INDUSTRIAL AUTOMATION AND CONTROL LABORATORY 2 Credit Hours
(Slashed with ENGR 72621) Laboratory utilizing programmable logic controllers, variable frequency drive motor control, human machine interfaces and industrial networking.
Prerequisite: Graduate standing.
Corequisite: ENGR 62620.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

ENGR 63010 INFORMATION TECHNOLOGY FUNDAMENTALS 3 Credit Hours
Introduction to the hardware, architecture and operation of the personal computer and associated devices. Topics include personal computer architecture and operation fundamentals, basic hardware, data busses and ports, hardware component packaging, auxiliary hardware components, and computer assembly, basic hardware installation, configuration and troubleshooting.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 63031 PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours
Programmable logic controllers (PLCS) covering hardware, ladder logic programming, networking and communications. Programming timers, counters and sequencers and an introduction to human machine interfaces (HMIS). An understanding of basic electricity and computer technology is required.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 63041 MOTORS AND CONTROLLERS 3 Credit Hours
Theory and application of AC and DC motors, motor control, and machine operations in mechatronic systems. Includes introduction to basic control system terms and devices, input and output transducers, signal conditioning, open loop and closed loop control, stability and performance.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 63050 TRIZ: THEORY OF INVENTIVE PROBLEM-SOLVING 3 Credit Hours
TRIZ is a collection of powerful problem-solving tools for a broad range of inventive problems. The theory originated in Russia by the study of more than two million patents. Students utilize material learned in earlier courses to solve real world problems in multiple disciplines.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 63070 COMPUTER HARDWARE DESIGN AND INTEGRATION 3 Credit Hours
In-depth study of personal computer (PC) and computer networking hardware. Topics include PC design, basic and auxiliary PC hardware components, PC assembly, PC upgrade and optimization, and PC repair, diagnosis and troubleshooting. Additional topics include computer networking hardware, network architecture, network communication protocols, and network installation, configuration and maintenance. Includes laboratory.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 63100 COMPUTER-AIDED DESIGN 3 Credit Hours
Study of modern industrial practice using computers in advanced graphics, design and analysis including geometric dimensioning and tolerancing, parametric design, solid modeling and finite element analysis. Two hours lecture and two hours lab.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

ENGR 64010 CONNECTIVITY AND INTEROPERABILITY IN INDUSTRY 3 Credit Hours
This course focuses on integrating and administering multiple systems in an industrial environment.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 64312 ADVANCED WIRELESS TELECOMMUNICATION SYSTEM AND NETWORK TECHNOLOGIES 3 Credit Hours
Describes technologies associated with wireless and telecommunications systems. Topics covered include public switch telephone network infrastructures, intelligent networks, wireless technologies in manufacturing enterprises, 3GPP standards, ITU standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Varied topics according to student interest and faculty approval. The work is designed to conduct research on a topic, and it will result in a paper or other appropriate product.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory

ENGR 65199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory

ENGR 65270 HUMAN FACTORS ENGINEERING 3 Credit Hours
(Slashed with ENGR 75270) This course provides a survey of human factors and ergonomics principles that are relevant to the effective design and operation of human-machine systems. It will emphasize human factors fundamentals, work environment, human functions within human-machine systems, and human-systems design and integration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

ENGR 65400 ADVANCED DYNAMICS 3 Credit Hours
(Slashed with ENGR 75400) This course provides an in-depth exploration of advanced concepts in dynamics, with a focus on the motion of particles and rigid bodies in three-dimensional space. Students will develop a strong foundation in the mathematical formulations of dynamics including kinematics in various coordinate systems, coordinate transformations, work and energy, linear and angular momentum, impact dynamics, Lagrange equations, and gyroscopic motion. This course is designed for graduate students with a solid understanding of undergraduate dynamics and vector calculus and an ability to program in Python or MATLAB.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65401 VIBRATIONS 3 Credit Hours
(Slashed with ENGR 75401) This course delves into the theoretical and practical aspects of mechanical vibrations with applications to various engineering systems. Students will explore the modeling, analysis, and design of single-degree-of-freedom (SDOF) and multi-degree-of-freedom (MDOF) systems, as well as continuous systems and nonlinear vibrations. Topics include free and forced vibrations, damping, resonance, modal analysis, vibration control strategies, and analysis of vibration signals. This course requires prior knowledge of calculus, linear algebra, differential equations, and dynamics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65500 QUALITY SYSTEMS AND INDUSTRIAL PRODUCTIVITY 3 Credit Hours
Tools and techniques for increasing industrial productivity through total quality management. Productivity improvement techniques involving human, technology, material, product and processes, utilizing value engineering, analytical models and scientific management tools in high-technology environment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65501 ADVANCED FLUID MECHANICS 3 Credit Hours
(Slashed with ENGR 85501) Kinematics of fluid motion. Constitutive equations of isotropic viscous compressible fluids. Derivation of Navier-Stokes equations. Lessons from special exact solutions, self-similarity. Admissibility of idealizations and their applications: inviscid, adiabatic, irrotational, incompressible, boundary layer, quasi one-dimensional, linearized and creeping flows. This course covers the topics of vorticity theorems, unsteady Bernoulli equation, basic flow solutions and basic features of turbulent flows. This course requires an undergraduate level understanding of differential equations and fluid mechanics.
Prerequisite: Aerospace Engineering or Mechatronics Engineering major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65502 COMPUTATIONAL FLUID DYNAMICS 3 Credit Hours
(Slashed with ENGR 85502) Classification of partial differential equations. Finite difference methods. Numerical solution techniques including direct, iterative and multigrid methods for general elliptic and parabolic differential equations. Numerical algorithms for solution of the Navier-Stokes equations in the primitive variables and vorticity-stream function formulations. Grids and grid generation. Numerical modeling of turbulent flows. This course requires an understanding of differential equations, linear algebra and fluid mechanics/aerodynamics.
Prerequisite: Aerospace Engineering or Mechatronics Engineering major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65550 DESIGN AND ANALYSIS OF EXPERIMENTS IN TECHNOLOGY 3 Credit Hours
Introduces planning and conducting experiments, as well as analyzing the resulting data using statistical techniques to obtain valid and objective conclusions. Also focuses on experiments performed in areas such as product design, manufacturing process development and process improvement.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65700 APPLIED RELIABILITY ENGINEERING 3 Credit Hours
Introduction to reliability engineering for engineering-technology management professionals. Course includes design for reliability, failure mode and failure effect analysis, reliability testing and measurement, statistical and mathematical modeling, assessment and forecasting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 65800 BURN-IN AND STRESS-TESTING FOR RELIABILITY 3 Credit Hours
Comprehensive course on reliability testing to analyze and establish reliability standards for components, products and systems. Specific emphasis on burn-in and stress testing procedures to perform effective reliability statistical calculations will be the major focus of the course.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 66380 ADVANCED NETWORKING 3 Credit Hours
Provides students with experience in advanced computer networking techniques, including network architectures, network security, network virtualization and storage area networks.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 67010 ETHICS, TECHNOLOGY AND THE ENVIRONMENT 3 Credit Hours
Explores the fundamental issues of the interconnections between human beings and the environment, with an emphasis on the ethics and the importance of the sustainability. Takes an in-depth look at basic environmental concepts, ethics and values, as they relate to a wide range of practical subject matters, including technology, from global and national perspectives. Provides an in-depth look at sustainable systems and the ethical issues associated with sustainability as it relates to technology by focusing on common and future impacts as they apply to ethics, values and justice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 67300 MEDICAL ROBOTICS 3 Credit Hours
(Slashed with ENGR 77300) Introduction to the current development of medical robot, study the design and control of medical robot. Main focus of course is surgical robots and walking assistant robots.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 67400 ROBOTICS: KINEMATICS AND DESIGN 3 Credit Hours
(Slashed with ENGR 77400) Course covers techniques to physically design, model, analyze and control a robotic system, especially robotic arms with serial structures. Provides students with a basic understanding of physics and mathematics of robotic kinematics and design. Students develop skills for force analysis, practice robotic programming and understand principles of robotic operation, sensing and path planning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68004 OPTIMAL CONTROL THEORY 3 Credit Hours
(Slashed with ENGR 88004) This course introduces students to the theory and numerical calculation of optimal space trajectories and related optimization problems in aerospace engineering. This course provides the essential technical components of space trajectory design and optimization. Students develop basic engineering skills in formulating and solving open-ended problems and writing a project report.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68005 LINEAR SYSTEM ANALYSIS AND CONTROL 3 Credit Hours
(Slashed with ENGR 78005) This course covers the analysis and synthesis of linear dynamical systems. Fundamental concepts including canonical representations, the state transition matrix and the properties of controllability and observability are discussed. The existence and synthesis of stabilizing feedback control laws using pole placement and linear-quadratic optimal control are discussed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68006 NONLINEAR SYSTEMS AND CONTROL 3 Credit Hours
(Slashed with ENGR 78006) Overview of stability concepts and examination of various methods for assessing stability such as linearization and Lyapunov methods. Introduction to various design methods based on linearization, sliding modes, adaptive control and feedback linearization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68007 DIGITAL CONTROL SYSTEMS 3 Credit Hours
(Slashed with ENGR 78007) This course covers design and analysis of sampled data and digital control systems. Fundamental concepts include introduction to digital control and discrete transform (z-transform), discrete and hybrid signal flow graphs (SFGs), solution of discrete-time state space models, time-response and characteristic equations, stability analysis for discrete time systems, root locus, Bode plot and Nyquist method for sampled data systems, pole placement and state estimation for discrete time systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68008 INTRODUCTION TO ROBUST CONTROL 3 Credit Hours
(Slashed with ENGR 78008) Course covers the fundamentals of robust control theory, with emphasis on stability and performance analysis in the time and frequency domains and design tools for robust performance and robust stability. Course examines how a controller can be designed taking into account uncertainties in the model of the plant. Some current research topics such as application of robust identification and control techniques to active vision systems also are addressed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68013 SPACECRAFT PROPULSION 3 Credit Hours
(Slashed with ENGR 88013) Students learn about the components and systems of rocket propulsion for launch, deep space transport and attitude control. We explore chemical and electric propulsion systems and address their benefits, drawbacks and recent advances. This course also briefly explores the commercial and environmental considerations of spaceflight systems and discusses aspects of novel and unconventional propulsion systems.
Prerequisite: Aerospace Engineering major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68101 AUTONOMOUS UNMANNED AERIAL SYSTEMS 3 Credit Hours
(Slashed with ENGR 78101) This course provides an advanced-level understanding of unmanned aerial vehicles in physical system design; payload; and stealth design, navigation and deployment regulations. This course introduces students to state-of-the-art artificial intelligence methods for UAS deployments in different urban, forest and water surface scenarios.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 68102 INTELLIGENT SENSING AND PLANNING OF UNMANNED AERIAL SYSTEMS 3 Credit Hours
(Slashed with ENGR 78102) This course focuses on real world environment understanding for the UAV systems. This course introduces students to state-of-the-art artificial intelligence methods for planning UAV missions in the real world.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 71095 SPECIAL TOPICS IN ENGINEERING 1-3 Credit Hours
(Repeatable for credit) Study of significant and current issues in various engineering topics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ENGR 72111 STRENGTH OF MATERIALS FOR ENGINEERS 3 Credit Hours
(Slashed with ENGR 42111 and ENGR 52111) The mathematical study of how materials respond to external forces. Stress, strain, torsion; deformation of thin-walled pressure vessels, beams and columns; and an introduction to energy methods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 72363 MATERIALS SELECTION IN DESIGN AND APPLICATIONS 3 Credit Hours
(Slashed with ENGR 42363 and ENGR 52363) Description and analysis of procedures for selecting appropriate materials for a particular mechanical design. The affect of processing on material properties, introduction to materials science for users of materials. Extensive case studies of materials selection and materials and sustainability.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 72410 ENGINEERING OPTIMIZATION 3 Credit Hours
(Slashed with ENGR 42410 and ENGR 52410) This course will cover the theoretical foundations and present methods associated with the engineering optimization field, including: problem statement formulation; sensitivity methods; decomposition methods; Multidisciplinary Design Optimization (MDO) formulations; unconstrained and constrained 1-D and n-D search methods; and an introduction to heuristic search methods. Engineering optimization in the context of design of complex engineering systems will be discussed as well, with an emphasis on emerging techniques in the field.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 72610 INDUSTRIAL ROBOTICS AND VISION SYSTEMS 1 Credit Hour
(Slashed with ENGR 62610) Students learn how to program a FANUC industrial robot using the teach pendant. They also learn how to set up and use an industrial robot vision system. Students who successfully complete this course and the corequisite lab will receive both FANUC Robotics Handling Tool Operation and Programming and FANUC V-iRVison Operation and Programming - 2D certificates of completion.
Prerequisite: Doctoral standing.
Corequisite: ENGR 72611.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 72611 INDUSTRIAL ROBOTICS AND VISION SYSTEMS LABORATORY 2 Credit Hours
(Slashed with ENGR 62611) Students learn how to program a FANUC industrial robot using the teach pendant. They also learn how to set up and use an industrial robot vision system. Students who successfully complete this course and the corequisite lecture will receive both FANUC Robotics Handling Tool Operation and Programming and FANUC V-iRVison Operation and Programming - 2D certificates of completion.
Prerequisite: Doctoral standing.
Corequisite: ENGR 72610.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

ENGR 72620 INDUSTRIAL AUTOMATION AND CONTROL 1 Credit Hour
(Slashed with ENGR 62620) Course covers programmable logic controllers, variable frequency drive motor control, human machine interfaces and industrial networking.
Prerequisite: Doctoral standing.
Corequisite: ENGR 72621.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENGR 72621 INDUSTRIAL AUTOMATION AND CONTROL LABORATORY 2 Credit Hours
(Slashed with ENGR 62621) Laboratory utilizing programmable logic controllers, variable frequency drive motor control, human machine interfaces and industrial networking.
Prerequisite: Doctoral standing.
Corequisite: ENGR 72620.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

ENGR 72710 ADDITIVE MANUFACTURING AND 3D PRINTING 2 Credit Hours
(Slashed with ENGR 42710 and ENGR 52710) This course is designed to provide engineering students with knowledge about all available Rapid Prototyping and Rapid Tooling Techniques. Topics covered will include fundamentals of rapid prototyping and additive manufacturing, reverse engineering, CAD modeling, and current 3D printing technologies. Additional concepts important to product development in aviation industry and medical applications will be addressed and exercise during term projects. This class helps in preparing student to pass the SME- AM certification exam.
Prerequisite: Doctoral standing.
Corequisite: ENGR 72711.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ENGR 72711 ADDITIVE MANUFACTURING AND 3D PRINTING LABORATORY 1 Credit Hour
(Slashed with ENGR 42711 and ENGR 52711) This is the laboratory component for the corequisite lecture. This course is designed to provide engineering students with knowledge about all available Rapid Prototyping and Rapid Tooling Techniques. Topics covered will include fundamentals of rapid prototyping and additive manufacturing, reverse engineering, CAD modeling, and current 3D printing technologies. Additional concepts important to product development in aviation industry and medical applications will be addressed and exercise during term projects. This lab helps in preparing student to pass the SME- AM certification exam.
Prerequisite: Doctoral standing.
Corequisite: ENGR 72710.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ENGR 73030 MECHATRONICS 3 Credit Hours
(Slashed with ENGR 43030 and ENGR 53030) Application of automation concepts in motion control, electrical circuits, fundamental mechanics, control systems and programming, including modeling, interfacing and signal conditioning.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 75270 HUMAN FACTORS ENGINEERING 3 Credit Hours
(Slashed with ENGR 65270) This course provides a survey of human factors and ergonomics principles that are relevant to the effective design and operation of human-machine systems. It will emphasize human factors fundamentals, work environment, human functions within human-machine systems, and human-systems design and integration.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 75400 ADVANCED DYNAMICS 3 Credit Hours
(Slashed with ENGR 65400) This course provides an in-depth exploration of advanced concepts in dynamics, with a focus on the motion of particles and rigid bodies in three-dimensional space. Students will develop a strong foundation in the mathematical formulations of dynamics including kinematics in various coordinate systems, coordinate transformations, work and energy, linear and angular momentum, impact dynamics, Lagrange equations, and gyroscopic motion. This course is designed for graduate students with a solid understanding of undergraduate dynamics and vector calculus and an ability to program in python or MATLAB.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 75401 VIBRATIONS 3 Credit Hours
(Slashed with ENGR 65401) This course delves into the theoretical and practical aspects of mechanical vibrations with applications to various engineering systems. Students will explore the modeling, analysis, and design of single-degree-of-freedom (SDOF) and multi-degree-of-freedom (MDOF) systems, as well as continuous systems and nonlinear vibrations. Topics include free and forced vibrations, damping, resonance, modal analysis, vibration control strategies, and analysis of vibration signals. This course requires prior knowledge of calculus, linear algebra, differential equations, and dynamics and an ability to program in python or MATLAB.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 75901 INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS 3 Credit Hours
(Slashed with ENGR 45901 and ENGR 55901) The objective of this course is to teach in a unified manner the fundamentals of the finite element method for the analysis of engineering problems arising in solids and structures. The course emphasizes the solution of real-life problems using the finite element method, and students get exposure to commercial finite element software (ANSYS or ABAQUS) and learn to critically evaluate finite element models. Examples are provided for solid, fluid and heat transfer applications. Finally, developing an understanding of the computational aspects of the finite element method and its application in realistic aerospace applications are the core goals of this course.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGR 77300 MEDICAL ROBOTICS 3 Credit Hours
(Slashed with ENGR 67300) Introduction to the current development of medical robot, study the design and control of medical robot. Main focus of course is surgical robots and walking assistant robots.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 77400 ROBOTICS: KINEMATICS AND DESIGN 3 Credit Hours
(Slashed with ENGR 67400) Course covers techniques to physically design, model, analyze and control a robotic system, especially robotic arms with serial structures. Provides students with a basic understanding of physics and mathematics of robotic kinematics and design. Students develop skills for force analysis, practice robotic programming and understand principles of robotic operation, sensing and path planning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78001 ORBITAL MECHANICS 3 Credit Hours
(Slashed with ENGR 48001 and ENGR 58001) The course is an introduction to orbital and trajectory design. Topics include Newton's law of gravity; two-body motion; relative equations of motion; conic sections; orbits in three dimensions; orbital maneuvers; and interplanetary transfers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78002 SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL 3 Credit Hours
(Slashed with ENGR 48002 and ENGR 58002) Spacecraft rigid body dynamics in terms of direction cosine matrix, Euler angles, principal rotation vector and quaternions. Attitude determination using TRIAD, quaternion and matrix solutions to Wahba's problem and an introduction to recursive estimation and Kalman Filter. Nonlinear stability and control technique (i.e., Lyapunov Theory) is introduced and applied to the attitude stabilization and control problem.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78003 SPACECRAFT DESIGN 3 Credit Hours
(Slashed with ENGR 48003 and ENGR 58003) Spacecraft mission design course with a focus on hands-on design experience. The first portion of the course is lecture-based. Topics include launch systems, space environment, spacecraft orbits and ground tracks, spacecraft design and sizing, budget designs, subsystem design and evaluation, cost and risk. The second portion is dedicated to student teamwork on the spacecraft design.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78005 LINEAR SYSTEM ANALYSIS AND CONTROL 3 Credit Hours
(Slashed with ENGR 68005) This course covers the analysis and synthesis of linear dynamical systems. Fundamental concepts including canonical representations, the state transition matrix and the properties of controllability and observability are discussed. The existence and synthesis of stabilizing feedback control laws using pole placement and linear-quadratic optimal control are discussed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78006 NONLINEAR SYSTEMS AND CONTROL 3 Credit Hours
(Slashed with ENGR 68006) Overview of stability concepts and examination of various methods for assessing stability such as linearization and Lyapunov methods. Introduction to various design methods based on linearization, sliding modes, adaptive control and feedback linearization.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78007 DIGITAL CONTROL SYSTEMS 3 Credit Hours
(Slashed with ENGR 68007) This course covers design and analysis of sampled data and digital control systems. Fundamental concepts include introduction to digital control and discrete transform (z-transform), discrete and hybrid signal flow graphs (SFGs), solution of discrete-time state space models, time-response and characteristic equations, stability analysis for discrete time systems, root locus, Bode plot and Nyquist method for sampled data systems, pole placement and state estimation for discrete time systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78008 INTRODUCTION TO ROBUST CONTROL 3 Credit Hours
(Slashed with ENGR 68008) Course covers the fundamentals of robust control theory, with emphasis on stability and performance analysis in the time and frequency domains and design tools for robust performance and robust stability. Course examines how a controller can be designed taking into account uncertainties in the model of the plant. Some current research topics such as application of robust identification and control techniques to active vision systems also are addressed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78010 MACHINE VISION 3 Credit Hours
(Slashed with ENGR 48010 and ENGR 58010) Course explores concepts and techniques for image/video processing and machine vision. Topics covered include image formation, image filtering, edge detection and segmentation, object recognition, object detection and tracking, 3D vision, etc.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78101 AUTONOMOUS UNMANNED AERIAL SYSTEMS 3 Credit Hours
(Slashed with ENGR 68101) This course provides an advanced-level understanding of unmanned aerial vehicles in physical system design; payload; and stealth design, navigation and deployment regulations. This course introduces students to state-of-the-art artificial intelligence methods for UAS deployments in different urban, forest and water surface scenarios.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 78102 INTELLIGENT SENSING AND PLANNING OF UNMANNED AERIAL SYSTEMS 3 Credit Hours
(Slashed with ENGR 68102) This course focuses on real world environment understanding for the UAV systems. This course introduces students to state-of-the-art artificial intelligence methods for planning UAV missions in the real world.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 81091 GRADUATE SEMINAR 1 Credit Hour
(Repeatable for credit) Discussions of selected technical topics related to aerospace engineering.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

ENGR 81095 SPECIAL TOPICS IN ENGINEERING 1-3 Credit Hours
(Slashed with ENGR 61095)(Repeatable for credit) Study of significant and current issues in various engineering topics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ENGR 81096 INDIVIDUAL INVESTIGATION IN ENGINEERING 1-3 Credit Hours
(Slashed with ENGR 61096)(Repeatable for credit) Individual investigation for a topic in the field of engineering.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ENGR 85098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Varied topics according to student interest and faculty approval. The work is designed to conduct research on a topic, and it will result in a paper or other appropriate product.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory

ENGR 85199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory

ENGR 85299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory

ENGR 85501 ADVANCED FLUID MECHANICS 3 Credit Hours
(Slashed with ENGR 65501) Kinematics of fluid motion. Constitutive equations of isotropic viscous compressible fluids. Derivation of Navier-Stokes equations. Lessons from special exact solutions, self-similarity. Admissibility of idealizations and their applications: inviscid, adiabatic, irrotational, incompressible, boundary layer, quasi one-dimensional, linearized and creeping flows. This course covers the topics of vorticity theorems, unsteady Bernoulli equation, basic flow solutions and basic features of turbulent flows. This course requires an undergraduate level understanding of differential equations and fluid mechanics.
Prerequisite: Aerospace Engineering or Mechatronics Engineering major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 85502 COMPUTATIONAL FLUID DYNAMICS 3 Credit Hours
(Slashed with ENGR 65502) Classification of partial differential equations. Finite difference methods. Numerical solution techniques including direct, iterative and multigrid methods for general elliptic and parabolic differential equations. Numerical algorithms for solution of the Navier-Stokes equations in the primitive variables and vorticity-stream function formulations. Grids and grid generation. Numerical modeling of turbulent flows. This course requires an understanding of differential equations, linear algebra and fluid mechanics/aerodynamics.
Prerequisite: Aerospace Engineering or Mechatronics Engineering major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 88004 OPTIMAL CONTROL THEORY 3 Credit Hours
(Slashed with ENGR 68004) This course introduces students to the theory and numerical calculation of optimal space trajectories and related optimization problems in aerospace engineering. This course provides the essential technical components of space trajectory design and optimization. Students develop basic engineering skills in formulating and solving open-ended problems and writing a project report.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGR 88013 SPACECRAFT PROPULSION 3 Credit Hours
(Slashed with ENGR 68013) Students learn about the components and systems of rocket propulsion for launch, deep space transport and attitude control. We explore chemical and electric propulsion systems and address their benefits, drawbacks and recent advances. This course also briefly explores the commercial and environmental considerations of spaceflight systems and discusses aspects of novel and unconventional propulsion systems.
Prerequisite: Aerospace Engineering major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Aeronautical Studies - B.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

Ready to launch a career in aviation that lets you chart your own path? The Aeronautical Studies program lets you explore it all—piloting, air traffic control, airport operations, aviation safety and more. Designed for flexibility, this program gives you the freedom to shape your future in the sky or on the ground. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Compliance officers

- 4.6% about as fast as the average
- 337,600 number of jobs
- $71,100 potential earnings

Additional Careers

- Aerial applicator/aerial crop duster/agriculture pilot
- Aerial hurricane hunter
- Air force pilot
- Air tour pilot
- Airline and commercial pilot
- Airline operations specialist
- Airline transport pilot
- Airport operations assistant
- Aviation logistics officer
- Aviation safety officer/analyst
- Cargo operations manager
- Charter/private airline pilot
- Federal law enforcement pilot
- Fixed wing air ambulance captain
- Flight dispatcher (with training/certification)
- Flight operations coordinator

Accreditation

The B.S. degree in Aeronautical Studies is accredited by the Aviation Accreditation Board International, Federal Aviation Administration.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer Students: Transfer students must have a minimum 2.250 overall GPA in all college-level coursework for admission to the Aeronautical Studies major.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
AERN 15000	INTRODUCTION TO AERONAUTICS	3
AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 35020	AIRCRAFT PROPULSION SYSTEMS	3
AERN 35040	AIRCRAFT SYSTEMS I	3
AERN 35341	AIR TRANSPORTATION SYSTEMS	3
AERN 45030	AIRCRAFT SYSTEMS II	3
AERN 45099	AERONAUTICAL STUDIES CAPSTONE (ELR) [1]	3
or CAE 45092	AERONAUTICS AND ENGINEERING INTERNSHIP/ COOPERATIVE EDUCATION (ELR) (WIC)	
AERN 45130	PHYSIOLOGY AND HUMAN FACTORS IN AVIATION	3
AERN 45135	AVIATION SAFETY THEORY	3
AERN 45150	APPLIED FLIGHT DYNAMICS I	3
AERN 45250	AVIATION LAW	3
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC) [1]	3
Aeronautics (AERN) Electives		18
Aeronautics (AERN) or Engineering (ENGR) Upper-Division Electives (30000 or 40000 level)		9
Elements of Flight Theory Elective, choose from the following:		3-5
AERN 15740	ELEMENTS OF FLIGHT THEORY	
AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	
AERN 15750 & AERN 15751	ELEMENTS OF FLIGHT THEORY I and PRIVATE PILOT FLIGHT I	
Additional Requirements (courses do not count in major GPA)		
CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING [2]	1-3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13012	COLLEGE PHYSICS II (KBS)	2
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		8
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Students scoring 34 or below on the ALEKS math assessment are required to enroll in CAE 12260 until they successfully complete MATH 00022.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	AERN 15000	INTRODUCTION TO AERONAUTICS	3
	CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING	1
!	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Elements of Flight Theory Elective		3-5
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
	AERN 25250	ELEMENTS OF AVIATION WEATHER	3
	AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
	AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	MATH 11022	TRIGONOMETRY (KMCR)	3
	Aeronautics (AERN) Elective		3
		Credit Hours	**15**
	Semester Three		
!	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
!	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	Aeronautics (AERN) Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Four		
	AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
!	PHY 13012	COLLEGE PHYSICS II (KBS)	2
	Aeronautics (AERN) Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Five		
	AERN 35020	AIRCRAFT PROPULSION SYSTEMS	3
	AERN 35040	AIRCRAFT SYSTEMS I	3
	Aeronautics (AERN) Elective		3
	Aeronautics (AERN) or Engineering (ENGR) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
	AERN 35341	AIR TRANSPORTATION SYSTEMS	3
	AERN 45030	AIRCRAFT SYSTEMS II	3
	AERN 45130	PHYSIOLOGY AND HUMAN FACTORS IN AVIATION	3
	Aeronautics (AERN) Elective		3
	Aeronautics (AERN) or Engineering (ENGR) Upper-Division Elective (30000 or 40000 level)		3
		Credit Hours	**16**
	Semester Seven		
	AERN 45099 or CAE 45092	AERONAUTICAL STUDIES CAPSTONE (ELR) or AERONAUTICS AND ENGINEERING INTERNSHIP/COOPERATIVE EDUCATION (ELR) (WIC)	3
	AERN 45150	APPLIED FLIGHT DYNAMICS I	3
	AERN 45250	AVIATION LAW	3
	Aeronautics (AERN) Elective		3
	Aeronautics (AERN) or Engineering (ENGR) Upper-Division Elective (30000 or 40000 level)		3
		Credit Hours	**15**
	Semester Eight		
	AERN 45135	AVIATION SAFETY THEORY	3
	AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
	General Electives		8
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain the physics of flight, aerodynamics and the effects of the atmosphere.
2. Describe the operation of aircraft systems and how they integrate.
3. Demonstrate the process of air traffic control and describe the components of the National Airspace System.
4. Investigate physiological and human factors as they relate to aviation safety.
5. Accomplish successful academic work in aviation and associated academic disciplines in preparation for professional work in the aviation industry.

The educational goals of the program are the following:

1. Exhibit the qualities of excellence, integrity, leadership, management and professionalism within their area of professional specialization in aviation.
2. Demonstrate a professional commitment to safety and contribute to the safety culture within their area of professional specialization in aviation.
3. Demonstrate the ability to improve aerospace for generations to come through experiential learning, creativity and innovation within their area of professional specialization in aviation.
4. Manifest the college's core values in the areas of collaboration, compassion, inclusiveness, innovation, integrity, respect and perseverance within their area of professional specialization in aviation.

Full Description

The Bachelor of Science degree in Aeronautical Studies provides students with a strong foundation in aviation knowledge, preparing them for a variety of careers in the industry. This program emphasizes theoretical understanding of aeronautical principles, air traffic management, aviation safety and industry regulations. With experienced faculty and access to cutting-edge resources, students gain the expertise needed for roles such as air traffic controllers, aviation managers or other aviation-related positions. Opportunities for internships and co-op experiences further enhance students' education by providing real-world industry exposure.

Aeronautical Systems Engineering Technology - B.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

Interested in building the systems that keep aircraft, and entire industries, moving? Focusing on systems thinking, hands-on problem solving and industry-relevant skills, the Aeronautical Systems Engineering Technology program equips students to meet contemporary challenges in both aeronautics and broader technical areas. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery**
  - In person
- **Location**
  - Kent Campus

Examples of Possible Careers and Salaries*

Aerospace engineers

- 2.8% slower than the average
- 66,400 number of jobs
- $118,610 potential earnings

Aircraft mechanics and service technicians

- 4.6% about as fast as the average
- 137,200 number of jobs
- $66,440 potential earnings

Avionics technicians

- 4.4% about as fast as the average
- 22,800 number of jobs
- $67,840 potential earnings

Electrical engineers

- 4.6% about as fast as the average
- 193,100 number of jobs
- $100,830 potential earnings

Electronics engineers, except computer

- 1.4% slower than the average
- 134,900 number of jobs
- $107,540 potential earnings

Mechanical engineers

- 3.9% about as fast as the average
- 316,300 number of jobs
- $90,160 potential earnings

Additional Careers

- Aerodynamics/computational fluid dynamics (CFD) engineer
- Aircraft design engineer
- Astrodynamics/orbit analyst
- Avionics engineer
- Design engineer
- Flight control/dynamics engineer
- Flight test/test evaluation engineer
- Fluid mechanics engineer
- Guidance, navigation and control (GNC) engineer

- Manufacturing engineer
- Product engineer
- Propulsion engineer (jet/prop/turbomachinery/rocket)
- Research and development (R&D) engineer
- Sales engineer
- Space system engineer
- Spacecraft design engineer
- Structural/stress/material engineer/analyst (aircraft/spacecraft)
- Systems engineer
- Thermal engineer/thermal system design
- Thermodynamics engineer

Accreditation

The Bachelor of Science degree in Aeronautical Systems Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org, under the General Criteria and the Program Criteria for Aeronautical Engineering Technology and Similarly Named Programs. This degree program is also accredited by the Aviation Accreditation Board International (www.aabi.aero).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Aeronautical Systems Engineering Technology major is selective.

New Students: Admission into this major requires a minimum 2.700 unweighted high school GPA. Students who do not meet this requirement will be admitted to the Industrial Engineering Technology major. Students may change their major to Aeronautical Systems Engineering Technology after satisfying the below requirements for current students.

Note: Applicants should understand that this is a math-intensive program. Students admitted to the program are expected to demonstrate prerequisite knowledge on a math placement exam (the ALEKS exam) prior to starting their first semester. Students who do not obtain the minimum score required to place into MATH 12011 are at risk of delaying graduation.

Current Students: Students may change their major to Aeronautical Systems Engineering Technology if they meet the following criteria:

- Minimum 2.500 overall Kent State GPA
- Minimum C grade in both ENGR 11001 and ENGR 11002
- Minimum C grade in either MATH 11022 or MATH 12011

Transfer Students: Transfer students must have completed minimum 12 credit hours of college-level coursework with a minimum 2.500 overall GPA for admission to the Aeronautical Systems Engineering Technology major. Students with less than 12 credit hours completed will be evaluated based on their high school transcript using the criteria in the above "new student" section.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	3
AERN 35020	AIRCRAFT PROPULSION SYSTEMS	3
AERN 35040	AIRCRAFT SYSTEMS I	3
AERN 35150	AIRCRAFT STRUCTURES	3
AERN 45030	AIRCRAFT SYSTEMS II	3
AERN 45150	APPLIED FLIGHT DYNAMICS I	3
BA 44152	PROJECT MANAGEMENT	3
or ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING	
ENGR 11001	INTRODUCTION TO ENGINEERING	2
ENGR 11002	INTRODUCTION TO ENGINEERING LABORATORY	1
ENGR 13586 & ENGR 13587	COMPUTER AIDED DESIGN I and COMPUTER AIDED DESIGN I LABORATORY [1]	3
or MERT 12001	COMPUTER-AIDED DESIGN	
ENGR 15300	ENGINEERING COMPUTING AND PROBLEM SOLVING	2
ENGR 15301	ENGINEERING COMPUTING AND PROBLEM SOLVING LABORATORY	1
ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
ENGR 20002	MATERIALS AND PROCESSES [1]	3
or MERT 12004	MANUFACTURING PROCESSES	
ENGR 30001	APPLIED THERMODYNAMICS [1]	3
or MERT 42000	THERMODYNAMICS FOR ENGINEERING TECHNOLOGY	
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 33033	HYDRAULICS/PNEUMATICS	3
ENGR 33041	CONTROL SYSTEMS	3
ENGR 33111	STATICS AND STRENGTH OF MATERIALS [1]	3-6
or MERT 22005 & MERT 22007	STATICS and STRENGTH OF MATERIALS	
ENGR 35550	LAW AND ETHICS FOR ENGINEERS	2
ENGR 45151	APPLIED FLIGHT DYNAMICS II	3
ENGR 47200	SYSTEMS ENGINEERING	3
ENGR 48099	ENGINEERING CAPSTONE I (ELR) [2]	3
ENGR 48199	ENGINEERING CAPSTONE II (ELR) (WIC) [2, 3]	3
Aeronautics (AERN) Elective		3
Engineering (ENGR) Elective		3
Electrical Circuits Electives, choose from the following: [1]		4-7
EERT 12000 & EERT 12001	ELECTRIC CIRCUITS I and ELECTRIC CIRCUITS II	
ENGR 21020 & ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS and SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	

ENGR 35500 & ENGR 35501	SIGNALS AND CIRCUITS and SIGNALS AND CIRCUITS LABORATORY	
Additional Requirements (courses do not count in major GPA)		
CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING [4]	1-3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) [5]	5
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) [5]	5
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
UC 10001	FLASHES 101	1
Mathematics Electives, choose from the following: [1,6]		6-8
MATH 11022 & MATH 12002	TRIGONOMETRY (KMCR) and ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12011 & MATH 12012	CALCULUS WITH PRECALCULUS I (KMCR) and CALCULUS WITH PRECALCULUS II (KMCR)	
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines) (cannot be ECON)		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		5
Minimum Total Credit Hours:		**120**

1 Preferred option for students: ENGR 13586, ENGR 13587, ENGR 20002, ENGR 21020, ENGR 21022, ENGR 30001, ENGR 33111, MATH 12011 and MATH 12012. Some options may require coursework outside of this program.

2 ENGR 48099 and ENGR 48199 must be taken during the same academic year. ENGR 48099 is only offered during the fall semester and ENGR 48199 is only offered during the spring semester.

3 A minimum C grade must be earned to fulfill the writing-intensive requirement.

4 Students scoring 34 or below on the ALEKS math assessment are required to enroll in CAE 12260 until they successfully complete MATH 00022.

5 Students who desire to change their major to Aerospace Engineering or Mechatronics Engineering should take PHY 23101 and PHY 23102. Failing to do so may result in additional coursework.

6 Students who desire to change their major to Aerospace Engineering or Mechatronics Engineering should take MATH 11022 and MATH 12002. Failing to do so will result in additional coursework.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- A minimum C grade may be required in some courses.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING	1
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	ENGR 11001	INTRODUCTION TO ENGINEERING	2
	ENGR 11002	INTRODUCTION TO ENGINEERING LABORATORY	1
	ENGR 15300	ENGINEERING COMPUTING AND PROBLEM SOLVING	2
	ENGR 15301	ENGINEERING COMPUTING AND PROBLEM SOLVING LABORATORY	1
	UC 10001	FLASHES 101	1
	Mathematics Elective		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
	ENGR 13586 & ENGR 13587 or MERT 12001	COMPUTER AIDED DESIGN I and COMPUTER AIDED DESIGN I LABORATORY or COMPUTER-AIDED DESIGN	3
	ENGR 20002 or MERT 12004	MATERIALS AND PROCESSES or MANUFACTURING PROCESSES	3
!	PHY 13001 & PHY 13021 or PHY 23101	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
!	Mathematics Elective		3-5
		Credit Hours	**14**
	Semester Three		
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	ENGR 33111 or MERT 22005 ***and*** MERT 22007	STATICS AND STRENGTH OF MATERIALS or STATICS ***and*** STRENGTH OF MATERIALS	3-6
!	PHY 13002 & PHY 13022 or PHY 23102	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Electrical Circuits Electives		4-7
		Credit Hours	**15**
	Semester Four		
	AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	3
!	AERN 35040	AIRCRAFT SYSTEMS I	3
	ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
	ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**16**
	Semester Five		
	AERN 45030	AIRCRAFT SYSTEMS II	3
	ENGR 30001 or MERT 42000	APPLIED THERMODYNAMICS or THERMODYNAMICS FOR ENGINEERING TECHNOLOGY	3

	ENGR 33033	HYDRAULICS/PNEUMATICS	3
	ENGR 33041	CONTROL SYSTEMS	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	AERN 35150	AIRCRAFT STRUCTURES	3
	AERN 45150	APPLIED FLIGHT DYNAMICS I	3
	ENGR 47200	SYSTEMS ENGINEERING	3
	Kent Core Requirement		3
	General Elective		2
		Credit Hours	**14**
	Semester Seven		
	AERN 35020	AIRCRAFT PROPULSION SYSTEMS	3
	ENGR 35550	LAW AND ETHICS FOR ENGINEERS	2
	ENGR 45151	APPLIED FLIGHT DYNAMICS II	3
!	ENGR 48099	ENGINEERING CAPSTONE I (ELR)	3
	Engineering (ENGR) Elective		3
		Credit Hours	**14**
	Semester Eight		
	BA 44152 or ENGR 36620	PROJECT MANAGEMENT or PROJECT MANAGEMENT IN ENGINEERING	3
!	ENGR 48199	ENGINEERING CAPSTONE II (ELR) (WIC)	3
	Aeronautics (AERN) Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge, techniques, skills and modern tools of mathematics, science, engineering and technology to solve broadly defined engineering problems appropriate to the discipline.
2. Design systems, components or processes meeting specified needs for broadly defined engineering problems appropriate to the discipline.
3. Apply written, oral and graphical communication in broadly defined technical and non-technical environments, and an ability to identify and use appropriate technical literature.
4. Conduct standard tests, measurements and experiments and analyze and interpret the results to improve processes.
5. Function effectively as a member as well as a leader on technical teams.

The educational objectives of the program are the following:

1. Drive positive change in the community by engaging in careers in the field of aeronautical, systems and other engineering technologies in a manner that promotes excellence and integrity.
2. Practice forward-thinking through continued education by way of graduate education, professional development and other continued self-motivated learning.
3. Successfully navigate the ever-changing trajectory of the world, practicing compassion as you strive to meet your personal career goals.

Full Description

The Bachelor of Science degree in Aeronautical Systems Engineering Technology successfully prepares graduates of the future to work in multi-disciplinary teams in aeronautical, systems and other engineering technology fields in ways that positively improve efficiency, reduce waste and increase sustainability. The program prepares graduates to enter careers in the design, installation, manufacturing, testing, evaluation, technical sales and maintenance of aeronautical/aerospace systems. Students gain technical expertise in engineering materials, statics, strength of materials, applied aerodynamics, applied propulsion and electronics. Graduates have strengths in the analysis, applied design, development, implementation and oversight of more advanced aeronautical/aerospace systems and processes.

Applicants to this program should understand that this is a math-intensive program.

Students may apply early to the Master of Engineering Technology degree and double count 9 credit hours of graduate courses toward both

degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information. Students wishing to pursue aerospace engineering at the graduate level must complete additional undergraduate math courses beyond what is required for this program.

Aerospace Engineering - B.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

Ready to engineer the future of air and space travel? The Aerospace Engineering program prepares students to design the systems that make hypersonic flight, autonomous aviation and deep space missions a reality. From high-powered rockets to next generation aircraft and satellites, you will gain hands-on experience tackling real-world aerospace challenges. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Aerospace engineers

- 2.8% slower than the average
- 66,400 number of jobs
- $118,610 potential earnings

Electrical engineers

- 4.6% about as fast as the average
- 193,100 number of jobs
- $100,830 potential earnings

Electronics engineers, except computer

- 1.4% slower than the average
- 134,900 number of jobs
- $107,540 potential earnings

Mechanical engineers

- 3.9% about as fast as the average
- 316,300 number of jobs
- $90,160 potential earnings

Additional Careers

- Aerodynamics/computational fluid dynamics (CFD) engineer
- Aircraft design engineer
- Astrodynamics/orbit analyst
- Avionics engineer
- Design engineer
- Flight control/dynamics engineer
- Flight test/test evaluation engineer
- Fluid mechanics engineer
- Guidance, navigation and control (GNC) engineer
- Manufacturing engineer
- Product engineer
- Propulsion engineer (jet/prop/turbomachinery/rocket)
- Research and development (R&D) engineer
- Sales engineer
- Space system engineer
- Spacecraft design engineer
- Structural/stress/material engineer/analyst (aircraft/spacecraft)
- Systems engineer
- Thermal engineer/thermal system design
- Thermodynamics engineer

Accreditation

The Bachelor of Science degree in Aerospace Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, under the General Criteria and the Program Criteria for Aerospace Engineering and Similarly Named Programs.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Aerospace Engineering major is selective. Applicants should understand that this is a math-intensive program, and the roadmap assumes students start with MATH 12002 their first semester. Students admitted to the program are expected to demonstrate prerequisite knowledge on a math placement assessment (the ALEKS math assessment) or via other means (e.g., AP, IB, CLEP, A levels) prior to registering for their first semester. Students who do not place into MATH 12002 will likely take longer than eight semesters to complete the program.

New Students: Admission into this major requires:

- Minimum 3.0 high school GPA
- Clear demonstration of an ability to be placed directly into MATH 12002 (or its equivalent); this will occur if the student is currently taking or has taken a calculus, pre-calculus or trigonometry course with a minimum C grade *(starting with the fall 2026 admission*

term, a minimum C grade in all math courses listed on the high school transcript (e.g., trigonometry, algebra, geometry) is required)

Students who do not meet the above requirements will be admitted to the Aeronautical Systems Engineering Technology major, provided they meet the minimum admission requirements.

Current Students: Students accepted into other Kent State programs may request to change their major to Aerospace Engineering once they meet the following criteria:

- Minimum 3.000 overall Kent State GPA (*starting with the fall 2026 admission term, minimum 12 credit hours completed at Kent State with a minimum 3.000 overall Kent State GPA is required)*
- Minimum C grade in both MATH 12002 and PHY 23101 *(starting with the fall 2026 admission term, minimum B grade in MATH 11022 OR minimum C grade in MATH 12002 is required)*

Transfer Students: Admission into this major requires:

- Minimum 12 credit hours of college-level coursework
- Minimum 3.000 overall GPA
- Minimum C grade in both MATH 12002 and PHY 23101 (or their equivalents)*(starting with the fall 2026 admission term, minimum B grade in MATH 11022 OR minimum C grade in MATH 12002 or their equivalents is required)*

Transfer students who have completed fewer than 12 credit hours of college-level coursework will be evaluated on both collegiate and high school records and must submit a final high school transcript.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
AERN 35150	AIRCRAFT STRUCTURES	3
ENGR 11001	INTRODUCTION TO ENGINEERING	2
ENGR 11002	INTRODUCTION TO ENGINEERING LABORATORY	1
ENGR 13586 & ENGR 13587	COMPUTER AIDED DESIGN I and COMPUTER AIDED DESIGN I LABORATORY	3
or MERT 12001	COMPUTER-AIDED DESIGN	
ENGR 15300	ENGINEERING COMPUTING AND PROBLEM SOLVING	2
ENGR 15301	ENGINEERING COMPUTING AND PROBLEM SOLVING LABORATORY	1
ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
ENGR 20002	MATERIALS AND PROCESSES	3
or MERT 12004	MANUFACTURING PROCESSES	
ENGR 25200	STATICS (min C grade)	3
ENGR 25400	DYNAMICS (min C grade)	3
ENGR 25500	AERODYNAMICS FOR ENGINEERS I (min C grade)	3
ENGR 33041	CONTROL SYSTEMS	3
ENGR 35200	THERMAL FLUID ENGINEERING	3
ENGR 35201	THERMAL FLUID ENGINEERING LABORATORY	1
ENGR 35300	AIRCRAFT PERFORMANCE AND STABILITY I	3
ENGR 35500	SIGNALS AND CIRCUITS	3
ENGR 35501	SIGNALS AND CIRCUITS LABORATORY	1
ENGR 35600	AERODYNAMICS FOR ENGINEERS II	3
ENGR 42111	STRENGTH OF MATERIALS FOR ENGINEERS	3
ENGR 42363	MATERIALS SELECTION IN DESIGN AND APPLICATIONS	3
ENGR 45121	AEROSPACE PROPULSION FOR ENGINEERING	3
ENGR 45600	AIRCRAFT PERFORMANCE AND STABILITY II	3
ENGR 45901	INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS	3
ENGR 48001	ORBITAL MECHANICS	3
ENGR 48099	ENGINEERING CAPSTONE I (ELR) [1]	3
ENGR 48199	ENGINEERING CAPSTONE II (ELR) (WIC) [1, 2]	3
Specialization, choose from the following:		2-3
Engineering Internship		
CAE 45092	AERONAUTICS AND ENGINEERING INTERNSHIP/COOPERATIVE EDUCATION (ELR) (WIC) [2]	
Machine Design		
ENGR 43580	COMPUTER-AIDED MACHINE DESIGN	
Materials		
ENGR 42710 & ENGR 42711	ADDITIVE MANUFACTURING AND 3D PRINTING and ADDITIVE MANUFACTURING AND 3D PRINTING LABORATORY	
Patent and Engineering Law		
ENGR 35550	LAW AND ETHICS FOR ENGINEERS	
Process Control		
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	
Space Applications		
ENGR 48002	SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL	
ENGR 48003	SPACECRAFT DESIGN	
Systems Engineering and Optimization		
ENGR 42410	ENGINEERING OPTIMIZATION	
ENGR 47200	SYSTEMS ENGINEERING	
Undergraduate Research		
CAE 45096	INDIVIDUAL INVESTIGATION IN AERONAUTICS AND ENGINEERING	
Director-Approved Engineering (ENGR) Elective		
Additional Requirements (courses do not count in major GPA)		
CHEM 10058	GENERAL CHEMISTRY FOR LIFE SCIENCES I [3]	4
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
or CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) (min C grade)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB) (min C grade)	5

UC 10001	FLASHES 101	1
Additional Mathematics Electives, choose from the following (min C grade): [4]		8-10
MATH 21001 & MATH 22005 & MATH 32044	LINEAR ALGEBRA and ANALYTIC GEOMETRY AND CALCULUS III and ORDINARY DIFFERENTIAL EQUATIONS	
MATH 32051 & MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I and MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional [3]		1-6
Minimum Total Credit Hours:		**123**

1 ENGR 48099 and ENGR 48199 must be taken during the same academic year.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

3 Students who choose to take CHEM 10058 must complete 6 total credit hours of Kent Core Additional. Students who choose to take CHEM 10060 or CHEM 10970 only require 1 credit hour of Kent Core Additional.

4 To reduce the total number of required credit hours, students are advised to take MATH 32051 and MATH 32052. The other alternative courses are for students who have already taken college coursework elsewhere or are off track with respect to the roadmap.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.750	2.500

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	ENGR 11001	INTRODUCTION TO ENGINEERING	2
	ENGR 11002	INTRODUCTION TO ENGINEERING LABORATORY	1
	ENGR 15300	ENGINEERING COMPUTING AND PROBLEM SOLVING	2
	ENGR 15301	ENGINEERING COMPUTING AND PROBLEM SOLVING LABORATORY	1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Two		
	CHEM 10058 or CHEM 10060 or CHEM 10970	GENERAL CHEMISTRY FOR LIFE SCIENCES I or GENERAL CHEMISTRY I (KBS) or HONORS GENERAL CHEMISTRY I (KBS)	4
	ENGR 13586 & ENGR 13587 or MERT 12001	COMPUTER AIDED DESIGN I and COMPUTER AIDED DESIGN I LABORATORY or COMPUTER-AIDED DESIGN	3
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
		Credit Hours	**17**
	Semester Three		
	ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
!	ENGR 25200	STATICS	3
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
!	Additional Mathematics Elective		4
!	Additional Mathematics Elective or Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	ENGR 20002 or MERT 12004	MATERIALS AND PROCESSES or MANUFACTURING PROCESSES	3
!	ENGR 25400	DYNAMICS	3
!	ENGR 25500	AERODYNAMICS FOR ENGINEERS I	3
!	Additional Mathematics Elective		3-4
		Credit Hours	**16**
	Semester Five		
	ENGR 35200	THERMAL FLUID ENGINEERING	3
	ENGR 35201	THERMAL FLUID ENGINEERING LABORATORY	1
	ENGR 35500	SIGNALS AND CIRCUITS	3
	ENGR 35501	SIGNALS AND CIRCUITS LABORATORY	1
!	ENGR 35600	AERODYNAMICS FOR ENGINEERS II	3
	ENGR 42111	STRENGTH OF MATERIALS FOR ENGINEERS	3
	Kent Core Requirement		0-3
		Credit Hours	**14**
	Semester Six		
	ENGR 33041	CONTROL SYSTEMS	3
!	ENGR 35300	AIRCRAFT PERFORMANCE AND STABILITY I	3
	ENGR 42363	MATERIALS SELECTION IN DESIGN AND APPLICATIONS	3
	ENGR 45121	AEROSPACE PROPULSION FOR ENGINEERING	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Seven		
	AERN 35150	AIRCRAFT STRUCTURES	3
!	ENGR 45600	AIRCRAFT PERFORMANCE AND STABILITY II	3
!	ENGR 48099	ENGINEERING CAPSTONE I (ELR)	3
	Specialization		2-3
	Kent Core Requirement		3
	Kent Core Requirement		1-3
		Credit Hours	**15**
	Semester Eight		
!	ENGR 45901	INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS	3
!	ENGR 48001	ORBITAL MECHANICS	3
!	ENGR 48199	ENGINEERING CAPSTONE II (ELR) (WIC)	3
	Kent Core Requirement		3
	Kent Core Requirement		3

Kent Core Requirement	0-3
Credit Hours	**15**
Minimum Total Credit Hours:	**123**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify, formulate and solve complex engineering problems by applying principles of engineering, science and mathematics.
2. Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety and welfare, as well as global, cultural, social, environmental and economic factors.
3. Communicate effectively with a range of audiences.
4. Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental and societal contexts.
5. Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks and meet objectives.
6. Develop and conduct appropriate experimentation, analyze and interpret data and use engineering judgment to draw conclusions.
7. Acquire and apply new knowledge as needed, using appropriate learning strategies.

The educational objectives of the program are the following:

1. Drive positive change in the community by engaging in careers in the field of aerospace engineering and beyond in a manner that promotes excellence and integrity.
2. Practice forward-thinking through continued education by way of graduate education, professional development and other continued self-motivated learning.
3. Successfully navigate the ever-changing trajectory of the world, practicing compassion while striving to meet personal career goals.

Full Description

The Bachelor of Science degree in Aerospace Engineering successfully prepares the aerospace engineers of the future to work in multidisciplinary teams to design products and perform research in innovative ways that affect positive change on a regional, national and global scale. The program focuses on the application of engineering principles to the design, manufacturing and functionality of aerospace vehicles such as aircraft, missiles and spacecraft. Students gain in-depth knowledge of aerodynamics, engineering materials and processes, structures, propulsion, flight mechanics and control, while being exposed to orbital mechanics, space structures and rocket propulsion.

Applicants to this program should understand that this is a math-intensive program.

Students may apply early to the M.S. degree in Aerospace Engineering and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Aerospace Engineering - M.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Master of Science degree in Aerospace Engineering provides an advanced theoretical and/or research-oriented curriculum with significant depth in aerospace-specific disciplines, beyond the general fundamentals of the engineering bachelor's degree.

Contact Information

- CAEgraduatestudies@kent.edu | 330-672-2892
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Aerospace engineers

- 2.8% slower than the average
- 66,400 number of jobs
- $118,610 potential earnings

Engineering teachers, postsecondary

- 8.6% much faster than the average
- 44,600 number of jobs
- $103,600 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree in aerospace engineering or a closely related area (e.g., mechanical engineering) from an accredited college or university[1]
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement[2]
- Three letters of recommendation[2]
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[3]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] Applicants with a bachelor's degree in engineering technology or a non-engineering STEM discipline may be considered for admission before or after completing additional coursework as determined on a case-by-case basis. Applicants should reach out to the College of Aeronautics and Engineering via email (caegraduatestudies@kent.edu) for more information.

[2] Current Kent State undergraduate students who want to apply to the combined B.S./M.S. degree program should contact the College of Aeronautics and Engineering via email (caegraduatestudies@kent.edu) to discuss the process and request waivers for certain admission requirements.

[3] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.
- **Spring Semester**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ENGR 52410	ENGINEERING OPTIMIZATION	3
or ENGR 65700	APPLIED RELIABILITY ENGINEERING	
or ENGR 68005	LINEAR SYSTEM ANALYSIS AND CONTROL	
ENGR 58003	SPACECRAFT DESIGN	3
or ENGR 68013	SPACECRAFT PROPULSION	
ENGR 61091	GRADUATE SEMINAR	1
ENGR 65501	ADVANCED FLUID MECHANICS	3
or ENGR 65502	COMPUTATIONAL FLUID DYNAMICS	
Aerospace Engineering Electives, choose from the following: [1]		6-9
Aerodynamics		
ENGR 65501	ADVANCED FLUID MECHANICS	
ENGR 65502	COMPUTATIONAL FLUID DYNAMICS	
Astronautics		
ENGR 58001	ORBITAL MECHANICS	
ENGR 58002	SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL	
ENGR 68013	SPACECRAFT PROPULSION	
Dynamics and Control		
ENGR 65400	ADVANCED DYNAMICS	
ENGR 65401	VIBRATIONS	
ENGR 68004	OPTIMAL CONTROL THEORY	
ENGR 68005	LINEAR SYSTEM ANALYSIS AND CONTROL	
ENGR 68006	NONLINEAR SYSTEMS AND CONTROL	
ENGR 68007	DIGITAL CONTROL SYSTEMS	
ENGR 68008	INTRODUCTION TO ROBUST CONTROL	
ENGR 68101	AUTONOMOUS UNMANNED AERIAL SYSTEMS	
Structures and Materials		
ENGR 52111	STRENGTH OF MATERIALS FOR ENGINEERS	
ENGR 52363	MATERIALS SELECTION IN DESIGN AND APPLICATIONS	
ENGR 55901	INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS	
Systems and Design		
ENGR 52410	ENGINEERING OPTIMIZATION	
ENGR 55799	AIRCRAFT DESIGN I	
ENGR 57200	SYSTEMS ENGINEERING	
ENGR 58003	SPACECRAFT DESIGN	
ENGR 68102	INTELLIGENT SENSING AND PLANNING OF UNMANNED AERIAL SYSTEMS	
Graduate Electives, choose from the following:		6

Any Computer Science (CS) Graduate course (50000 level or higher)		
Any Engineering (ENGR) Graduate course (50000 level or higher)		
Any Mathematics (MATH) Graduate course (50000 level or higher) [2]		
Other graduate courses as approved by the graduate advisor		
Mathematics Elective, choose from the following: [2]		3
MATH 50015	APPLIED STATISTICS	
MATH 52011	MATHEMATICAL OPTIMIZATION	
MATH 52031	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS	
MATH 52045	PARTIAL DIFFERENTIAL EQUATIONS	
MATH 52201	NUMERICAL LINEAR ALGEBRA	
MATH 52202	NUMERICAL APPROXIMATION AND OPTIMIZATION	
Culminating Requirement		
Choose from the following:		3-6
ENGR 65098	RESEARCH [1]	
ENGR 65199	THESIS I [3]	
Minimum Total Credit Hours:		**31**

1 Students selecting the non-thesis option as their culminating requirement need to complete 3 credit hours of ENGR 65098 by working with a faculty member to complete a project. Students should meet with their advisor to discuss project topics well before their final semester. Additionally, these students are required to take an additional 3 credit hours from the Aerospace Engineering Electives list (for a total of 9 credit hours) to ensure that 31 credit hours are completed for the degree.

2 Before registering for a mathematics (MATH) course, students must contact the Department of Mathematical Sciences to request a prerequisite override. Students may be required to demonstrate prerequisite knowledge depending on the course.

3 Students selecting the thesis option must successfully defend their research thesis in a public setting before the thesis committee. Upon approval of the thesis topic, the student is required to register continuously for ENGR 65199 each semester for a total of 6 credit hours. A student who has completed the required 6 credit hours of ENGR 65199 but has not finished the thesis is expected, thereafter, to register continuously for ENGR 65299 each semester until all degree requirements are met. No more than 6 credit hours of ENGR 65199 may be counted toward the completion of degree requirements. Credit hours earned in ENGR 65299 do not, under any circumstances, count toward the degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Conduct literature searches, comprehend advanced research materials and uncover connections between related work.
2. Perform research, discovery and integration by applying advanced knowledge of aerospace engineering.
3. Communicate problems and solutions in aerospace engineering clearly, both verbally and in writing.

Aerospace Engineering - Ph.D.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Ph.D. degree in Aerospace Engineering provides an advanced theoretical and/or research-oriented curriculum with significant depth in aerospace-specific disciplines, beyond the general fundamentals of the engineering bachelor's degree.

Contact Information

- CAEgraduatestudies@kent.edu | 330-672-2892
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Aerospace engineers

- 2.8% slower than the average
- 66,400 number of jobs
- $118,610 potential earnings

Engineering teachers, postsecondary

- 8.6% much faster than the average
- 44,600 number of jobs
- $103,600 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree in aerospace engineering or a closely related area (e.g., mechanical engineering) from an accredited college or university
- Minimum 3.000 undergraduate or graduate GPA on a 4.000-point scale

- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ENGR 81091	GRADUATE SEMINAR (taken three times)	3
Courses approved by a graduate program representative [1]		0-30
Engineering-Focus Electives, choose from the following: [2]		18
ENGR 72410	ENGINEERING OPTIMIZATION	
ENGR 75270	HUMAN FACTORS ENGINEERING	
Aerodynamics		
ENGR 85501	ADVANCED FLUID MECHANICS	
ENGR 85502	COMPUTATIONAL FLUID DYNAMICS	
Astronautics		
ENGR 78001	ORBITAL MECHANICS	
ENGR 78002	SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL	
ENGR 88013	SPACECRAFT PROPULSION	
Dynamics and Control		
ENGR 75400	ADVANCED DYNAMICS	
ENGR 75401	VIBRATIONS	
ENGR 78005	LINEAR SYSTEM ANALYSIS AND CONTROL	
ENGR 78006	NONLINEAR SYSTEMS AND CONTROL	
ENGR 78007	DIGITAL CONTROL SYSTEMS	
ENGR 78008	INTRODUCTION TO ROBUST CONTROL	
ENGR 78101	AUTONOMOUS UNMANNED AERIAL SYSTEMS	
ENGR 88004	OPTIMAL CONTROL THEORY	
Structure and Materials		
ENGR 72111	STRENGTH OF MATERIALS FOR ENGINEERS	
ENGR 72363	MATERIALS SELECTION IN DESIGN AND APPLICATIONS	
ENGR 75901	INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS	
Systems and Design		
ENGR 78003	SPACECRAFT DESIGN	
ENGR 78102	INTELLIGENT SENSING AND PLANNING OF UNMANNED AERIAL SYSTEMS	
Additional graduate courses as approved by graduate program representative		
Culminating Requirements		
ENGR 85098	RESEARCH (taken for 9 credit hours total)	9
ENGR 85199	DISSERTATION I [3]	30
Minimum Total Credit Hours for Post-Baccalaureate Students:		**90**
Minimum Total Credit Hours for Post-Master's Students:		**60**

[1] Post-baccalaureate students may apply toward the 30 credit hours a maximum 15 credit hours of coursework outside the College of Aeronautics and Engineering and 9 credit hours of research (maximum 18 credit hours total of research toward the degree).

[2] While coursework outside of Engineering (ENGR) may be considered, a minimum 50 percent of the required credits must be designated ENGR doctoral-level courses (70000 or 80000 level). Not all ENGR courses outside of this list will be approved.

[3] Doctoral candidates, upon admission to candidacy, must register for ENGR 85199 for a total of 30 hours. It is expected that doctoral candidates will continuously register for ENGR 85199—and, thereafter, ENGR 85299—each semester until all requirements for the degree have been met. The doctoral candidate must successfully propose and defend their research dissertation in a public setting before the dissertation committee.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Conduct literature searches, comprehend advanced research materials and uncover connections between related work.
2. Perform research, discovery and integration by applying advanced knowledge of aerospace engineering.
3. Communicate clearly problems and solutions in aerospace engineering, both verbally and in writing.

Air Traffic and Airspace Management - B.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

Ready to lead the future of air traffic and help shape the systems that keep our skies safe, efficient and innovative? The Air Traffic and Airspace Management program prepares students for high impact roles in air traffic control, aircraft dispatch and emerging fields like advanced and urban air mobility to manage complex airspace and support the next generation of aviation. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Air traffic controllers

- 0.5% little or no change
- 24,300 number of jobs
- $130,420 potential earnings

Additional Careers

- Airport operations specialist/manager
- Airspace planning consultant
- Air traffic control (ATC) instructor
- Aviation analyst
- Aviation consultant
- Aviation safety inspector
- Flight dispatcher
- Flight standards or regulatory compliance officer
- Risk and safety analyst
- Simulation specialist
- Transportation planner

Accreditation

The B.S. degree in Air Traffic and Airspace Management is accredited by the Aviation Accreditation Board International, Federal Aviation Administration.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer Students: Transfer students must have a minimum 2.250 overall GPA in all college-level coursework for admission to the Air Traffic and Airspace Management major.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
AERN 15000	INTRODUCTION TO AERONAUTICS	3
AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25252	THUNDERSTORMS AND SEVERE WEATHER	3
AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
AERN 25800	INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS	3
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 35040	AIRCRAFT SYSTEMS I	3
AERN 35250	UNMANNED AIRCRAFT SYSTEMS LAW AND REGULATIONS	2
AERN 35350	TERMINAL OPERATIONS	3
AERN 35351	TERMINAL OPERATIONS LABORATORY	2
AERN 35650	NON-PILOT INSTRUMENT FLIGHT THEORY	3
AERN 35850	EMERGENT AIR VEHICLES AND INFRASTRUCTURE	3
AERN 35851	EMERGENT AIR VEHICLES AND INFRASTRUCTURE LABORATORY	1
AERN 45010	AIRCRAFT DISPATCH I	3

AERN 45020	AIRCRAFT DISPATCH II	3
AERN 45030	AIRCRAFT SYSTEMS II	3
AERN 45130	PHYSIOLOGY AND HUMAN FACTORS IN AVIATION	3
AERN 45135	AVIATION SAFETY THEORY	3
AERN 45150	APPLIED FLIGHT DYNAMICS I	3
AERN 45250	AVIATION LAW	3
AERN 45345	EN ROUTE OPERATIONS	3
AERN 45346	EN ROUTE OPERATIONS LABORATORY	1
AERN 45399	AIR TRAFFIC CONTROL CAPSTONE (ELR)	1
AERN 45499	AIR TRAFFIC CONTROL CAPSTONE LABORATORY (ELR)	2
AERN 45720	CREW RESOURCE MANAGEMENT	2
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC) [1]	3
AERN 45820	AIRSPACE MANAGEMENT	3
ENGR 10005	INTRODUCTION TO CYBERSECURITY	3
Flight Theory Elective, choose from the following:		3-5
AERN 15740	ELEMENTS OF FLIGHT THEORY	
AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	
AERN 15750 & AERN 15752	ELEMENTS OF FLIGHT THEORY I and ELEMENTS OF FLIGHT THEORY II	
Additional Requirements (courses do not count in major GPA)		
CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING [2]	1-3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13012	COLLEGE PHYSICS II (KBS)	2
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Minimum Total Credit Hours:		**121**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Students scoring 34 or below on the ALEKS math assessment are required to enroll in CAE 12260 until they successfully complete MATH 00022.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	AERN 15000	INTRODUCTION TO AERONAUTICS	3
	AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
	AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
	CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING	1
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Flight Theory Elective		3-5
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
	AERN 25800	INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	ENGR 10005	INTRODUCTION TO CYBERSECURITY	3
	MATH 11022	TRIGONOMETRY (KMCR)	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	AERN 25250	ELEMENTS OF AVIATION WEATHER	3
	MGMT 24163	PRINCIPLES OF MANAGEMENT	3
	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Four		
	AERN 25252	THUNDERSTORMS AND SEVERE WEATHER	3
	AERN 35250	UNMANNED AIRCRAFT SYSTEMS LAW AND REGULATIONS	2
	AERN 35350	TERMINAL OPERATIONS	3
	AERN 35351	TERMINAL OPERATIONS LABORATORY	2
	PHY 13012	COLLEGE PHYSICS II (KBS)	2
	PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Five		
	AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
!	AERN 35040	AIRCRAFT SYSTEMS I	3
	AERN 35650	NON-PILOT INSTRUMENT FLIGHT THEORY	3
	AERN 35850	EMERGENT AIR VEHICLES AND INFRASTRUCTURE	3
	AERN 35851	EMERGENT AIR VEHICLES AND INFRASTRUCTURE LABORATORY	1
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Six		
	AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
	AERN 45130	PHYSIOLOGY AND HUMAN FACTORS IN AVIATION	3
	AERN 45150	APPLIED FLIGHT DYNAMICS I	3

	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**13**
	Semester Seven		
	AERN 45135	AVIATION SAFETY THEORY	3
	AERN 45250	AVIATION LAW	3
	AERN 45345	EN ROUTE OPERATIONS	3
	AERN 45346	EN ROUTE OPERATIONS LABORATORY	1
	AERN 45720	CREW RESOURCE MANAGEMENT	2
	AERN 45820	AIRSPACE MANAGEMENT	3
		Credit Hours	**15**
	Semester Eight		
	AERN 45010	AIRCRAFT DISPATCH I	3
	AERN 45020	AIRCRAFT DISPATCH II	3
	AERN 45030	AIRCRAFT SYSTEMS II	3
	AERN 45399	AIR TRAFFIC CONTROL CAPSTONE (ELR)	1
	AERN 45499	AIR TRAFFIC CONTROL CAPSTONE LABORATORY (ELR)	2
	AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
		Credit Hours	**15**
		Minimum Total Credit Hours:	**121**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the knowledge and skills of air traffic and airspace management, as set forth by the AT-CTI program requirements, by applying rules and procedures needed to safely control traffic in the National Airspace System (NAS).
2. Demonstrate the necessary knowledge of the rules and procedures needed to test for the Federal Aviation Administration's 14 CFR Part 65 Aircraft Dispatcher Certification.
3. Demonstrate knowledge of and ability to adapt to the changing air traffic and airspace management technology and rules as the global aviation industry grows.

The educational goals of the program are the following:

1. Exhibit the qualities of excellence, integrity, leadership, management and professionalism within their area of professional specialization in aviation.
2. Demonstrate a professional commitment to safety and contribute to the safety culture within their area of professional specialization in aviation.
3. Demonstrate the ability to improve aerospace for generations to come through experiential learning, creativity and innovation within their area of professional specialization in aviation.
4. Manifest the college's core values in the areas of collaboration, compassion, inclusiveness, innovation, integrity, respect and perseverance within their area of professional specialization in aviation.

Full Description

The Bachelor of Science degree in Air Traffic and Airspace Management is part of the Federal Aviation Administration's (FAA) Air Traffic-Collegiate Training Initiative (AT-CTI) to provide a broad education in several areas of aviation to operate the National Airspace System in the 21st century. The Air Traffic and Airspace Management major offers practical simulation-based training to prepare students for professional work in air traffic control (ATC) and management. Graduates have the knowledge and skills to work as air traffic controllers, managers or numerous other types of professionals operating in the National Airspace System.

The mission of the Bachelor of Science degree in Air Traffic and Airspace Management is to help prepare students for success in numerous aviation-related fields, including those that are emerging such as advanced air mobility (AAM), space traffic management (upper class E traffic management) and remote and automated operations. As an FAA AT-CTI program, students receive specialized education and training to help them earn employment and advancement in ATC. Additionally, this program focuses on disciplines such as aircraft dispatch (14 CFR Part 65), AAM and many more.

Aircraft Dispatch - Minor

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Aircraft Dispatch minor prepares students to take the written, oral and practical exams leading to the issuance of an aircraft dispatch certificate. An aircraft dispatcher plans for weather, routing, fuel, cargo and special situations. They coordinate with air traffic control, maintenance, crew scheduling and gate agents, and issue a dispatch package to the pilot-in-command. A dispatcher monitors the flight from gate-to-gate and communicates with the crew about any information concerning the flight.

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25252	THUNDERSTORMS AND SEVERE WEATHER	3
AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
AERN 35650	NON-PILOT INSTRUMENT FLIGHT THEORY	3
or AERN 35660	INSTRUMENT FLIGHT THEORY	
AERN 45010	AIRCRAFT DISPATCH I	3
AERN 45020	AIRCRAFT DISPATCH II	3
Flight Theory Elective, choose from the following:		3-5
AERN 15740	ELEMENTS OF FLIGHT THEORY	
AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	
AERN 15750 & AERN 15752	ELEMENTS OF FLIGHT THEORY I and ELEMENTS OF FLIGHT THEORY II	
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Pass the written, oral and practical exams to earn the aircraft dispatch certificate.
2. Demonstrate operational knowledge of domestic air travel, including industry and governmental agencies, airport identifiers, scheduling protocol, flight planning procedures and the application of weather theory to develop the skills of a professional dispatcher.
3. Exemplify a high standard of ethical and professional behavior.

Aviation Law and Policy - Minor

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Aviation Law and Policy minor provides you with a comprehensive understanding of the legal and regulatory issues that affect the aviation industry. Taught by experienced faculty, you will gain a strong foundation in aviation law, policy and management, making you well-equipped to pursue a career in this dynamic field. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
AERN 45250	AVIATION LAW	3
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
PLST 28001	LEGAL RESEARCH AND WRITING	3
POL 10300	PUBLIC POLICY	3

or POL 10500	WORLD POLITICS (DIVG) (KSS)	
Aeronautics Electives, choose from the following:		5
AERN 35031	AIR TRANSPORTATION INDUSTRY REGULATIONS	
AERN 35250	UNMANNED AIRCRAFT SYSTEMS LAW AND REGULATIONS	
AERN 45040	LABOR RELATIONS IN AVIATION	
AERN 45255	LEGAL ANALYSIS OF AVIATION AND ENGINEERING DISASTERS	
AERN 45400	AVIATION MAINTENANCE LAW AND REGULATIONS	
AERN 45750	AEROSPACE MEDICINE	
ENGR 35550	LAW AND ETHICS FOR ENGINEERS	
Minimum Total Credit Hours:		**17**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify, formulate and solve applied aviation problems.
2. Work effectively on multi-disciplinary and diverse teams.
3. Make professional and ethical decisions.
4. Communicate effectively, using both written and oral communication skills.

Full Description

Students pursuing the Aviation Law and Policy minor gain a deep understanding of existing policy and case law while developing the skills necessary to influence the regulatory process, which establishes and creates new laws and regulations. This minor enhances the student learning experience from a multitude of disciplines (aeronautics, engineering, business, pre-law, etc.), and prepares students to affect change in the air transportation industry from a variety of career fields.

The air transportation industry is one of the most heavily regulated in the U.S. economy. Responsible for more than 10 million jobs and driving five percent of the U.S. gross domestic product (GDP) and nearly $1.5 trillion in annual economic activity, the industry requires aviation professionals who can readily navigate the complex areas of aviation regulations.

Aviation Maintenance Management - B.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

Already certified with your A&P license and ready to take the next step? The Aviation Maintenance Management program is designed for working professionals, combining technical knowledge with leadership, communication and business skills to prepare you for supervisory and management roles across the aviation maintenance industry. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online

Applications to the B.S. in Aviation Maintenance Management are not being accepted at this time.

Examples of Possible Careers

- Aviation chief inspector
- Aviation maintenance lead
- Aviation maintenance manager
- Aviation maintenance supervisor
- Director of aviation maintenance

Admission Requirements

Applications to the B.S. in Aviation Maintenance Management are not being accepted at this time.

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this major is selective. Applicants must hold Airframe and Powerplant certificates issued by the Federal Aviation Administration (FAA) or the equivalent certification from an International Civil Aviation Organization (ICAO) member state.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
AERN 22500	INTRODUCTION TO AVIATION MAINTENANCE MANAGEMENT	2
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1

AERN 32400	AVIATION COMMUNICATIONS	2
AERN 42000	HUMAN FACTORS IN AVIATION MAINTENANCE	2
AERN 42799	STRATEGIC AVIATION MAINTENANCE MANAGEMENT CAPSTONE (ELR) (WIC) [1]	2
AERN 45135	AVIATION SAFETY THEORY	3
AERN 45400	AVIATION MAINTENANCE LAW AND REGULATIONS	2
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	3
FIN 36053	BUSINESS FINANCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Major Electives, choose from the following:		11
AERN 32100	ADVANCED AIRCRAFT COMPOSITE TECHNOLOGY	
AERN 32200	AVIONICS MAINTENANCE FOR GLASS COCKPITS	
AERN 35339	FIXED BASE OPERATOR OPERATIONS	
AERN 45040	LABOR RELATIONS IN AVIATION	
AERN 45255	LEGAL ANALYSIS OF AVIATION AND ENGINEERING DISASTERS	
Any Aeronautics (AERN) Upper-Division course (30000 or 40000 level) with college approval		
Any Engineering (ENGR) Upper-Division course (30000 or 40000 level) with college approval		
Additional Requirements (courses do not count in major GPA)		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
FAA Airframe and Powerplant Certification (or international equivalent)		30
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [2]		11
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Recommended: CIS 24053 and MGMT 34165 to complete requirements for the Business minor.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
	FAA Airframe or Powerplant Certification (or international equivalent)		30
		Credit Hours	**30**
	Semester One		
	AERN 22500	INTRODUCTION TO AVIATION MAINTENANCE MANAGEMENT	2
	AERN 32400	AVIATION COMMUNICATIONS	2
!	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
!	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	Major Elective		2
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Two		
	ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
	AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
	AERN 42000	HUMAN FACTORS IN AVIATION MAINTENANCE	2
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
!	MATH 11022	TRIGONOMETRY (KMCR)	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	MGMT 24163	PRINCIPLES OF MANAGEMENT	3
	Major Elective		2
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Four		
	AERN 45135	AVIATION SAFETY THEORY	3
	FIN 36053	BUSINESS FINANCE	3
	HRM 34180	HUMAN RESOURCE MANAGEMENT	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	3
	MKTG 25010	PRINCIPLES OF MARKETING	3
	Major Electives		4
	General Electives		6
		Credit Hours	**16**
	Semester Six		
	AERN 42799	STRATEGIC AVIATION MAINTENANCE MANAGEMENT CAPSTONE (ELR) (WIC)	2
	AERN 45400	AVIATION MAINTENANCE LAW AND REGULATIONS	2
	Major Elective		3
	Kent Core Requirement		3
	General Electives		5
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Employ requisite knowledge, skills and techniques to manage others in the process of the inspection, repair and return of aircraft to service.
2. Integrate skills and knowledge essential to the management of aircraft maintenance programs with a focus on safety and efficiency.
3. Incorporate skills and knowledge needed to effectively lead and manage a team of people working in a maintenance repair organization.

The educational goals of the program are the following:

1. Exhibit the qualities of excellence, integrity, leadership, management and professionalism within their area of professional specialization in aviation.
2. Demonstrate a professional commitment to safety and contribute to the safety culture within their area of professional specialization in aviation.
3. Demonstrate the ability to improve aerospace for generations to come through experiential learning, creativity and innovation within their area of professional specialization in aviation.
4. Manifest the college's core values in the areas of collaboration, compassion, inclusiveness, innovation, integrity, respect and perseverance within their area of professional specialization in aviation.

Full Description

The Bachelor of Science degree in Aviation Maintenance Management is a completer program designed to prepare certified aviation maintenance technicians with the necessary knowledge and skills to further develop professionally and advance their careers in the areas of leadership, communication and management.

The mission of the Bachelor of Science degree in Aviation Maintenance Management is to prepare students with the highest quality education for a career in aviation maintenance management, and provide aviation maintenance organizations with qualified candidates who possess skill sets consisting of solid management and communication principles, as well as technical skills consistent with those of successful aviation maintenance professionals.

Students will be able to complete the bachelor's degree in under four years. Students are able to earn the Business minor by choosing the final minor required courses from their general electives.

Aviation Management - B.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

Interested in leading aviation operations, managing logistics and making high stakes decisions in a global industry? The Aviation Management program prepares students for a wide range of leadership roles across the aviation sector, including airport and airline operations, safety management, consulting, logistics and regulatory compliance, while also preparing them to navigate the next generation of challenges and innovations shaping the future of air transportation. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Transportation, storage, and distribution managers

- 3.5% about as fast as the average
- 139,400 number of jobs
- $96,390 potential earnings

Additional Careers

- Aerospace project manager
- Airline operations manager
- Airport duty manager
- Airport operations specialist
- Airport planner
- Air service development analyst
- Assistant aviation director
- Aviation business analyst
- Aviation inspector
- Aviation public information officer
- Aviation safety analyst
- Cargo operations manager
- Charter operations manager
- Concessions and ground transportation manager
- Deputy airport director
- Deputy director of operations
- Fixed base operator (FBO) manager
- Flight dispatcher (with training/certification)

Accreditation

The B.S. degree in Aviation Management is accredited by the Aviation Accreditation Board International, Federal Aviation Administration.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer Students: Transfer students must have a minimum 2.250 overall GPA in all college-level coursework for admission to the Aviation Management major.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
AERN 15000	INTRODUCTION TO AERONAUTICS	3
AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	3
AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 35031	AIR TRANSPORTATION INDUSTRY REGULATIONS	3
AERN 35339	FIXED BASE OPERATOR OPERATIONS	3
AERN 35340	AIRPORT MANAGEMENT	3
AERN 35341	AIR TRANSPORTATION SYSTEMS	3
AERN 45040	LABOR RELATIONS IN AVIATION	3
AERN 45130	PHYSIOLOGY AND HUMAN FACTORS IN AVIATION	3
AERN 45135	AVIATION SAFETY THEORY	3
AERN 45150	APPLIED FLIGHT DYNAMICS I	3
AERN 45199	AIRPORT OPERATIONS (ELR)	3
AERN 45250	AVIATION LAW	3
AERN 45299	STRATEGIC AVIATION MANAGEMENT (ELR) (min C grade)	3
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC) [1]	3
COMM 20001	INTERPERSONAL COMMUNICATION	3
ENGR 13586	COMPUTER AIDED DESIGN I	2
ENGR 13587	COMPUTER AIDED DESIGN I LABORATORY	1
FIN 36053	BUSINESS FINANCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Additional Requirements (courses do not count in major GPA)		
CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING [2]	1-3

COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		4
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Students scoring 34 or below on the ALEKS math assessment are required to enroll in CAE 12260 until they successfully complete MATH 00022.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	AERN 15000	INTRODUCTION TO AERONAUTICS	3
!	AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	3
	AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
	AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
	CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING	1
!	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
	AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
	ENGR 13586	COMPUTER AIDED DESIGN I	2
	ENGR 13587	COMPUTER AIDED DESIGN I LABORATORY	1
	MATH 11022	TRIGONOMETRY (KMCR)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	AERN 25250	ELEMENTS OF AVIATION WEATHER	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Four		
	ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
	AERN 35340	AIRPORT MANAGEMENT	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
	MGMT 24163	PRINCIPLES OF MANAGEMENT	3
		Credit Hours	**15**
	Semester Five		
	AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
	AERN 35339	FIXED BASE OPERATOR OPERATIONS	3
	AERN 35341	AIR TRANSPORTATION SYSTEMS	3
	HRM 34180	HUMAN RESOURCE MANAGEMENT	3
	MKTG 25010	PRINCIPLES OF MARKETING	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Six		
	AERN 35031	AIR TRANSPORTATION INDUSTRY REGULATIONS	3
!	AERN 45150	APPLIED FLIGHT DYNAMICS I	3
	COMM 20001	INTERPERSONAL COMMUNICATION	3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Seven		
	AERN 45130	PHYSIOLOGY AND HUMAN FACTORS IN AVIATION	3
	AERN 45135	AVIATION SAFETY THEORY	3
	AERN 45199	AIRPORT OPERATIONS (ELR)	3
	AERN 45250	AVIATION LAW	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Eight		
	AERN 45040	LABOR RELATIONS IN AVIATION	3
	AERN 45299	STRATEGIC AVIATION MANAGEMENT (ELR)	3
	AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
	FIN 36053	BUSINESS FINANCE	3
	General Elective		1
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour

Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the role of federal legislation and regulatory policies in the management of agencies, airlines, airports, businesses and other organizations in professional aviation.
2. Demonstrate and apply knowledge and understanding of the technical details involved in the effective management of employees and operational systems in professional aviation.
3. Accomplish successful academic work in aviation and allied academic disciplines in preparation for graduate level or professional credentialing.

The educational goals of the program are the following:

1. Exhibit the qualities of excellence, integrity, leadership, management and professionalism within their area of professional specialization in aviation.
2. Demonstrate a professional commitment to safety and contribute to the safety culture within their area of professional specialization in aviation.
3. Demonstrate the ability to improve aerospace for generations to come through experiential learning, creativity and innovation within their area of professional specialization in aviation.
4. Manifest the college's core values in the areas of collaboration, compassion, inclusiveness, innovation, integrity, respect and perseverance within their area of professional specialization in aviation.

Full Description

The Bachelor of Science degree in Aviation Management prepares students for entry-level management, supervisory and administrative positions in aviation and other aviation-related professional fields. This course of study combines technical and aeronautical courses with courses in management and information systems. Students entering this program should have an interest in helping or working with people and an ability to develop analytical and communicative capabilities.

The mission of the B.S. degree in Aviation Management is to prepare students for careers in aviation management and provide the professional aviation industry with qualified graduates who possess skill sets that comprise management principles, budgetary and financial components and technical knowledge consistent with those of successful aviation professionals.

Aviation Management - Minor

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Aviation Management minor is offered to those students whose career paths may one day be focused toward management or operations across the breadth of the aviation industry.

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
AERN 15000	INTRODUCTION TO AERONAUTICS	3
AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
AERN 35339	FIXED BASE OPERATOR OPERATIONS	3
AERN 35340	AIRPORT MANAGEMENT	3
AERN 35341	AIR TRANSPORTATION SYSTEMS	3
AERN 45040	LABOR RELATIONS IN AVIATION	3
or AERN 45299	STRATEGIC AVIATION MANAGEMENT (ELR)	

AERN 45199	AIRPORT OPERATIONS (ELR)	3
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a thorough understanding of fundamental aeronautical management concepts and practices.
2. Demonstrate a comprehensive understanding and application of aviation business management principles.

Aviation Management and Logistics - M.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

Take your aviation career to new heights with the M.S. degree in Aviation Management and Logistics. Our hands-on curriculum prepares you for success in operations, logistics, safety and more, with experienced faculty bringing real-world industry knowledge to the classroom. Whether you are advancing your career or making a change, our program sets you on the path to achieving your goals. For an added advantage, pair the M.B.A. with this degree. Read more...

Contact Information

- **Ali Abdul-Aziz, Ph.D., P.E.** | CAEgraduatestudies@kent.edu | 330-672-1032
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Applications to the M.S. in Aviation Management and Logistics are not being accepted at this time.

Examples of Possible Careers and Salaries*

Aircraft cargo handling supervisors

- 5.4% faster than the average
- 9,600 number of jobs
- $53,610 potential earnings

Transportation, storage, and distribution managers

- 3.5% about as fast as the average
- 139,400 number of jobs
- $96,390 potential earnings

First-line supervisors of transportation and material-moving workers, except aircraft cargo handling supervisors

- 5.1% faster than the average
- 456,700 number of jobs
- $54,870 potential earnings

Additional Careers

- Airline and air carrier operations managers
- Research

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.S. in Aviation Management and Logistics are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
AERN 65091	SEMINAR IN EMERGING ISSUES IN AVIATION LOGISTICS	2
AERN 65100	LOGISTICAL STRATEGIES IN AVIATION MANAGEMENT	2
AERN 65150	LEGAL AND REGULATORY ISSUES FOR AIR CARGO MANAGEMENT	2
AERN 65200	AVIATION ECONOMICS AND FISCAL MANAGEMENT	2
AERN 65230	MODELING AND FORECASTING FOR AVIATION LOGISTICS PLANNING	2
AERN 65240	AVIATION SAFETY MANAGEMENT SYSTEMS	2
BA 54038	ANALYTICS IN PRACTICE	3
or BA 64018	QUANTITATIVE MANAGEMENT MODELING	
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64036	BUSINESS ANALYTICS	3
ENGR 60003	SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT	2
Major Electives, choose from the following: [1]		6
AERN 65092	PRACTICUM IN AERONAUTICS [2]	
AERN 65201	AVIATION INDUSTRY CONTRACT MANAGEMENT	
AERN 65235	HUMAN ERROR ANALYSIS IN AVIATION	
AERN 65300	AIRLINE TRANSPORTATION OPERATIONS	
AERN 65301	AIR CARGO SECURITY	
AERN 65400	WEATHER FOR AVIATION LOGISTICS PLANNING [1]	
AERN 65496	INDIVIDUAL INVESTIGATION IN AERONAUTICS [2]	
AERN 65499	CAPSTONE IN AERONAUTICS	
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	
HRM 64271	HUMAN RESOURCE MANAGEMENT	
or MGMT 64158	LEADERSHIP	
or MKTG 65051	MARKETING MANAGEMENT	
MGMT 64158	LEADERSHIP	
Culminating Requirement		
Choose from the following:		2-6
AERN 65199	THESIS I (with advisor approval) [3]	
AERN 65499	CAPSTONE IN AERONAUTICS [4]	
Minimum Total Credit Hours:		**30**

1 Students with no previous aviation weather experience are required to take AERN 65400 as an elective. The minimum credit hours for electives depends on meeting 30 total credit hours for the degree.

2 Maximum 6 credit hours of AERN 65092 and AERN 65496, combined, may be applied toward the degree.

3 Students who are planning to advance to a doctorate or are interested specifically in research may complete a thesis in place of the capstone with advisor approval. Students selecting the thesis must continually register for AERN 65199 for maximum 6 credit hours toward the degree (students may need to register for AERN 65299 to complete the thesis requirement; however, those credit hours do not, whatsoever, count toward the degree). With the thesis, students will complete the M.S. degree at 34 credit hours.

4 The capstone consists of a scholarly paper or project that integrates knowledge attained through coursework and research experience. Students may undertake original empirical research, case studies, reports or research results, theoretical or applied designs of logistical systems. The capstone may include improvements on existing systems or completion of a project from an identified client. Students are engaged in workplace or internship applications of the capstone or empirical analysis of an aviation management and logistics system.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Design, build, analyze and manage logistical systems at aviation organizations engaged in the transport of people and goods via air transport.
2. Perform management functions at an executive level overseeing the processes of an aviation organization.
3. Model and forecast logistical strategies for domestic and international aviation operations.
4. Analyze and manage safety systems, human error analysis and decision-making.

Dual Degree with Master of Business Administration

Applications to the Dual Degree M.B.A./M.S. Aviation Management and Logistics are not being accepted at this time.

Students have the opportunity to complete a dual degree program with the M.S. degree in Aviation Management and Logistics and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual M.S./M.B.A. degree program prepares students for responsible leadership positions and provides an integrated business and aviation management and logistics education with an emphasis on regional, national and global implications in the field of aviation.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
AERN 65091	SEMINAR IN EMERGING ISSUES IN AVIATION LOGISTICS	2
AERN 65100	LOGISTICAL STRATEGIES IN AVIATION MANAGEMENT	2

AERN 65150	LEGAL AND REGULATORY ISSUES FOR AIR CARGO MANAGEMENT	2
AERN 65200	AVIATION ECONOMICS AND FISCAL MANAGEMENT	2
AERN 65230	MODELING AND FORECASTING FOR AVIATION LOGISTICS PLANNING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
ENGR 60003	SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT	2
ENGR 60030	QUANTITATIVE METHODS I	2
ENGR 60040	QUANTITATIVE METHODS II	2
ENGR 60078	RESEARCH METHODS IN TECHNOLOGY	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	1
MKTG 65051	MARKETING MANAGEMENT	2
Ambassador Crawford College of Business and Entrepreneurship Graduate Elective (50000 level or higher), choose from the following:		3
Accounting (ACCT) Course		
Business (BUS) Course		
Business Analytics (BA) Course		
Computer Information Systems (CIS) Course		
Economics (ECON) Course		
Entrepreneurship (ENTR) Course		
Finance (FIN) Course		
Human Resource Management (HRM) Course		
Management (MGMT) Course		
Marketing (MKTG) Course		
Aeronautics Electives, choose from the followoing: [2]		4
AERN 65092	PRACTICUM IN AERONAUTICS [3]	
AERN 65201	AVIATION INDUSTRY CONTRACT MANAGEMENT	
AERN 65235	HUMAN ERROR ANALYSIS IN AVIATION	
AERN 65240	AVIATION SAFETY MANAGEMENT SYSTEMS	
AERN 65300	AIRLINE TRANSPORTATION OPERATIONS	
AERN 65301	AIR CARGO SECURITY	
AERN 65400	WEATHER FOR AVIATION LOGISTICS PLANNING [2]	
AERN 65496	INDIVIDUAL INVESTIGATION IN AERONAUTICS [3]	
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**53**

[1] MGMT 68051 is required for students who have not worked a minimum of two years, full-time, since obtaining their bachelor's degree. **Students waived the course may graduate with 52 credit hours.**

[2] Students with no previous aviation weather experience are required to take AERN 65400 as an elective.

[3] Maximum 6 credit hours of AERN 65092 and AERN 65496, combined, may be applied toward degree.

Full Description

The Master of Science degree in Aviation Management and Logistics prepares graduates to perform at an advanced level in organizations that move people and/or goods via air transport.

Students in the program examine the business of aviation logistics and its role in the global supply chain. In addition, they learn techniques necessary to understand and develop an aviation logistics model for producing an accurate and effective forecast for demand of aviation services.

Students are given practical experience in the negotiating, vetting and managing of vendor and labor contracts. They also learn the economic, regulatory, political, geographical and human-centric challenges facing the industry today, including profit strategies, human-error interventions tactics and post-9/11 security legislation concerning air cargo operations.

Safety policy, risk management, assurance and safety promotion are the key focus areas, and students take an in-depth study of the concepts, principals, design, implementation and administration of aviation safety management systems. As weather events are so disruption to an aviation organization, students gain an understanding of hazardous weather and the products to predict weather impact on aviation operations.

Aviation Weather - Minor

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Aviation Weather minor is for students wishing to gain a deeper understanding of weather and its physical and operational effect on aviation operations. Students will gain knowledge of the national weather information and forecasting system, as well as radar and satellite imagery and interpretation, weather information systems, thunderstorms and severe weather and information available to a crew in flight.

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the

A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25251	WEATHER INFORMATION SYSTEMS	3
AERN 25252	THUNDERSTORMS AND SEVERE WEATHER	3
AERN 35021	RADAR SATELLITE WEATHER INFORMATION	3
AERN 35022	WEATHER STRATEGY FOR AIRCREWS	3
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	3
GEOG 31064	CLIMATE AND THE ENVIRONMENT	3
GEOG 41066	GLOBAL CLIMATE CHANGE	3
Minimum Total Credit Hours:		**24**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Access, interpret and apply weather tools in order to make decisions regarding aviation operations, including non-flight operations.

Computer Engineering Technology - B.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

Want to be the expert who builds, secures and optimizes the systems that power our connected world? Designated by the National Security Agency (NSA) as a Center of Academic Excellence in Cyber Defense, the Computer Engineering Technology program bridges the gap between hardware and software, giving students hands-on experience with embedded systems, digital design, cybersecurity, networking and advanced computing technologies. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Computer hardware engineers

- 1.6% slower than the average
- 71,100 number of jobs
- $119,560 potential earnings

Computer network architects

- 5.0% faster than the average
- 160,100 number of jobs
- $116,780 potential earnings

Computer network support specialists

- 6.4% faster than the average
- 195,100 number of jobs
- $65,450 potential earnings

Computer systems analysts

- 7.4% faster than the average
- 632,400 number of jobs
- $93,730 potential earnings

Network and computer systems administrators

- 4.3% about as fast as the average
- 373,900 number of jobs
- $84,810 potential earnings

Accreditation

The B.S. degree in Computer Engineering Technology is accredited by the Association of Technology, Management and Applied Engineering (ATMAE).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the

seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Note: Applicants should understand that this is a math-intensive program. Students admitted to the program are expected to demonstrate prerequisite knowledge on a math placement exam (the ALEKS exam) prior to starting their first semester. Students who fail to obtain the minimum score required to place into the required math courses are at risk of delaying graduation.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BA 44152	PROJECT MANAGEMENT [1]	3
or EMAT 41510	PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC)	
or ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING	
ENGR 10005	INTRODUCTION TO CYBERSECURITY	3
ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
ENGR 23010	COMPUTER HARDWARE	3
ENGR 26305	NETWORKING I	2
ENGR 26306	NETWORKING I LABORATORY	1
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC) [1]	3
ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	3
ENGR 33223	ELECTRONIC COMMUNICATION	3
ENGR 33320	APPLIED EMBEDDED SYSTEMS I	3
ENGR 36305	NETWORKING II	2
ENGR 36306	NETWORKING II LABORATORY	1
ENGR 36337	INFORMATION TECHNOLOGY SECURITY	3
ENGR 46099	COMPUTER ENGINEERING TECHNOLOGY CAPSTONE (ELR)	3
ENGR 46305	NETWORK SECURITY	2
ENGR 46306	NETWORK SECURITY LABORATORY	1
ENGR 46312	WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS	3
ENGR 46316	SERVER ADMINISTRATION AND CONFIGURATION I	3
ENGR 46317	SERVER ADMINISTRATION AND CONFIGURATION II	2
ENGR 46318	SERVER ADMINISTRATION AND CONFIG II - LABORATORY	1
ENGR 46351	NETWORK MANAGEMENT AND DESIGN	2
ENGR 46352	NETWORK MANAGEMENT AND DESIGN LABORATORY	1
ENGR 47200	SYSTEMS ENGINEERING	3
Additional Major Electives, choose from the following:		6
Any Aeronautics (AERN) course		
Any Computer Science (CS) course		
Any Design Innovation (DI) course		
Any Engineering (ENGR) course		
Any Information Technology (IT) course		
Electrical Circuits Electives, choose from the following:		4-7
EERT 12000 & EERT 12001	ELECTRIC CIRCUITS I and ELECTRIC CIRCUITS II	
ENGR 21020 & ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS and SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	
Programming Elective, choose from the following:		3-4
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
ENGR 26220 & ENGR 26222	PROGRAMMING FOR ENGINEERS and PROGRAMMING FOR ENGINEERS LABORATORY	
Additional Requirements (courses do not count in major GPA)		
BA 24056	BUSINESS ANALYTICS I	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) [2]	5
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) [2]	5
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
UC 10001	FLASHES 101	1
Kent Core Composition		6

Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (must be from two disciplines)	6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	5
Minimum Total Credit Hours:	**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] PHY 23101 and PHY 23102 require prerequisites outside of this program.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ENGR 10005	INTRODUCTION TO CYBERSECURITY	3
MATH 11022	TRIGONOMETRY (KMCR)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
PHY 13001 & PHY 13021 or PHY 23101	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Kent Core Requirement		3
	Credit Hours	**14**
Semester Three		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
ENGR 23010	COMPUTER HARDWARE	3
PHY 13002 & PHY 13022 or PHY 23102	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Programming Elective		3-4
	Credit Hours	**15**
Semester Four		
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Electrical Circuits Electives		4-7
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Five		
ENGR 26305	NETWORKING I	2
ENGR 26306	NETWORKING I LABORATORY	1
ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	3
ENGR 33223	ELECTRONIC COMMUNICATION	3
ENGR 36337	INFORMATION TECHNOLOGY SECURITY	3
ENGR 47200	SYSTEMS ENGINEERING	3
	Credit Hours	**15**
Semester Six		
BA 44152 or EMAT 41510 or ENGR 36620	PROJECT MANAGEMENT or PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC) or PROJECT MANAGEMENT IN ENGINEERING	3
ENGR 33320	APPLIED EMBEDDED SYSTEMS I	3
ENGR 36305	NETWORKING II	2
ENGR 36306	NETWORKING II LABORATORY	1
ENGR 46305	NETWORK SECURITY	2
ENGR 46306	NETWORK SECURITY LABORATORY	1
Additional Major Elective		3
	Credit Hours	**15**
Semester Seven		
BA 24056	BUSINESS ANALYTICS I	3
ENGR 46316	SERVER ADMINISTRATION AND CONFIGURATION I	3
ENGR 46351	NETWORK MANAGEMENT AND DESIGN	2
ENGR 46352	NETWORK MANAGEMENT AND DESIGN LABORATORY	1
Additional Major Elective		3
General Elective		3
	Credit Hours	**15**
Semester Eight		
ENGR 46099	COMPUTER ENGINEERING TECHNOLOGY CAPSTONE (ELR)	3
ENGR 46312	WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS	3
ENGR 46317	SERVER ADMINISTRATION AND CONFIGURATION II	2
ENGR 46318	SERVER ADMINISTRATION AND CONFIG II - LABORATORY	1
Kent Core Requirement		3
General Elective		2
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour

Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge, techniques, skills and modern tools of mathematics, science, engineering and technology to solve broadly defined engineering problems appropriate to the discipline.
2. Design systems, components or processes meeting specified needs for broadly defined engineering problems appropriate to the discipline.
3. Apply written, oral and graphical communication in broadly defined technical and non-technical environments, and an ability to identify and use appropriate technical literature.
4. Conduct standard tests, measurements and experiments and analyze and interpret the results to improve processes.
5. Function effectively as a member as well as a leader on technical teams.

The educational objectives of the program are the following:

1. Drive positive change in the community by engaging in careers in the field of computer engineering, information systems and other engineering technology disciplines in a manner that promotes excellence and integrity.
2. Have a depth of applied skills to specialize in one or more core computer engineering areas, such as computer hardware, networks and operating systems, and equip students with problem-solving, teamwork and communication skills.
3. Successfully navigate the ever-changing trajectory of the computer engineering technology industry, practicing compassion as you strive to meet your personal career goals.

Full Description

The Bachelor of Science degree in Computer Engineering Technology prepares students with problem-solving skills and computer technology foundational knowledge to engineer solutions in computer engineering technology (CET) fields. The program provides students with the opportunity to study computer systems and software-hardware interface so that they are capable of analyzing the problems in the computer and networking industry and producing computer engineering, networking and software solutions. The major's curriculum includes materials necessary for students to be eligible for industry certifications (e.g., Cisco, Microsoft, CompTIA) for career advancement.

Computer engineering technologists focus on hardware or software issues. When companies need custom applications and network systems designed, they call the computer engineering technologist. In this age of heavy computer usage, with companies using computers for a large variety of functions, the computer engineering technologist is invaluable in keeping equipment running, updating software, maintaining connectivity and interfacing with users.

Computer engineering technologists typically work for large companies, installing, testing, operating and maintaining the computer networking. They may also find employment with companies that sell computers, at computer repair stores or at independent emergency repair facilities. Other common work locations include computer and peripheral manufacturing facilities, computer distribution facilities, computer research facilities and educational institutions.

Applicants to this program should understand that this is a math-intensive program.

Students may apply early to the Master of Engineering Technology degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Computer Engineering Technology - Minor

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Computer Engineering Technology minor provides the foundation for students to study the design of network systems, telecommunications systems, networking hardware and computer hardware engineering and architecture technologies. Students have the opportunity to conceptualize, develop and analyze requirements engineering specifications for practical systems.

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ENGR 10005	INTRODUCTION TO CYBERSECURITY	3
ENGR 26305	NETWORKING I	2
ENGR 26306	NETWORKING I LABORATORY	1
ENGR 36337	INFORMATION TECHNOLOGY SECURITY	3
ENGR 46316	SERVER ADMINISTRATION AND CONFIGURATION I	3
Minor Elective, choose from the following:		3-4
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
ENGR 23010	COMPUTER HARDWARE	
ENGR 26220 & ENGR 26222	PROGRAMMING FOR ENGINEERS and PROGRAMMING FOR ENGINEERS LABORATORY	
ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	
ENGR 36305 & ENGR 36306	NETWORKING II and NETWORKING II LABORATORY	
ENGR 46305 & ENGR 46306	NETWORK SECURITY and NETWORK SECURITY LABORATORY	
ENGR 46312	WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS	
ENGR 46317 & ENGR 46318	SERVER ADMINISTRATION AND CONFIGURATION II and SERVER ADMINISTRATION AND CONFIG II - LABORATORY	
ENGR 46330	VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY	
ENGR 46351 & ENGR 46352	NETWORK MANAGEMENT AND DESIGN and NETWORK MANAGEMENT AND DESIGN LABORATORY	
ENGR 47200	SYSTEMS ENGINEERING	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate basic applied knowledge of cybersecurity, computer hardware, networking hardware and information technology security.

Cybersecurity Engineering - B.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

Want to design the systems that stand up to today's most sophisticated cyber threats? The Cybersecurity Engineering program goes beyond code, preparing students to design, build and reinforce resilient systems that detect, withstand and recover from attacks to protect the critical infrastructure that powers everything from aviation and healthcare to defense and automation. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- Application security engineer
- Cloud security engineer
- Cybersecurity architect
- Cybersecurity engineer
- Cyber risk analyst
- Digital forensics analyst
- Governance, risk and compliance (GRC) analyst
- Identity and access management (IAM) engineer
- Incident response specialist
- Information security engineer
- Malware analyst
- Network security engineer
- Penetration tester (ethical hacker)
- Security consultant

- Security operations center (SOC) analyst
- Security operations manager

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Cybersecurity Engineering major is selective.

New Students: Admission into this major requires:

- Minimum 3.0 high school GPA
- Completion of high school algebra II or a college-level algebra course with a minimum C grade

Students who do not meet the above requirements will be admitted to the **Computer Engineering Technology** major, provided they meet the minimum admission requirements.

Current Students: Students accepted into other Kent State programs may request to change their major to Cybersecurity Engineering once they meet the following criteria:

- Minimum 3.000 overall Kent State GPA (*starting with the fall 2026 admission term, minimum 12 credit hours completed at Kent State with a minimum 3.000 overall Kent State GPA is required)*
- Minimum C grade in both MATH 11022 and PHY 13001 (*starting with the fall 2026 admission term, minimum C grade in PHY 13001 is no longer required)*

Transfer Students: Admission into this major requires:

- Minimum 12 credit hours of college-level coursework
- Minimum 3.000 overall GPA
- Minimum C grade in both MATH 11022 and PHY 13001 (or their equivalents) (*starting with the fall 2026 admission term, minimum C grade in PHY 13001 is no longer required)*

Transfer students who have completed fewer than 12 credit hours of college-level coursework will be evaluated on both collegiate and high school records and must submit a final high school transcript.

Students from countries or schools that do not specify math topics on their transcripts must demonstrate a minimum C grade in all math courses.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CIS 44041	MANAGING CYBERSECURITY	3
CS 47221	INTRODUCTION TO CRYPTOLOGY	3
ENGR 10005	INTRODUCTION TO CYBERSECURITY	3
ENGR 11001	INTRODUCTION TO ENGINEERING	2
ENGR 11002	INTRODUCTION TO ENGINEERING LABORATORY	1
ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
ENGR 28105	FUNDAMENTALS OF NETWORKED INFRASTRUCTURE	2
ENGR 28106	FUNDAMENTALS OF NETWORKED INFRASTRUCTURE LABORATORY	1
ENGR 35550	LAW AND ETHICS FOR ENGINEERS	2
ENGR 37777	CYBERSECURITY OPERATIONS	2
ENGR 37778	CYBERSECURITY OPERATIONS LABORATORY	1
ENGR 38105	IOT SECURITY IN ENGINEERING SYSTEMS	2
ENGR 38106	IOT SECURITY IN ENGINEERING SYSTEMS LABORATORY	1
ENGR 38205	NETWORK INSTRUMENTATION AND FORENSIC ANALYSIS	2
ENGR 38206	NETWORK INSTRUMENTATION AND FORENSIC ANALYSIS LABORATORY	1
ENGR 46305	NETWORK SECURITY	2
ENGR 46306	NETWORK SECURITY LABORATORY	1
ENGR 47200	SYSTEMS ENGINEERING	3
ENGR 48099	ENGINEERING CAPSTONE I (ELR) [1]	3
ENGR 48191	ADVANCED CYBERSECURITY SEMINAR	3
ENGR 48199	ENGINEERING CAPSTONE II (ELR) (WIC) [1, 2]	3
ENGR 48200	WIRELESS MESH NETWORK SECURITY	3
INS 29000	INTRODUCTION TO INSURANCE AND RISK	3
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II [3]	3-5
or MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	
MATH 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
MATH 30011	BASIC PROBABILITY AND STATISTICS	3
PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	3
Engineering (ENGR) Upper-Division Elective (30000 or 40000 level)		3
Computer Science Electives, choose from the following: [3]		8
CS 10062 & CS 20062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES and ADVANCED PROGRAMMING WITH PYTHON [3]	
CS 13001 & CS 23001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING and COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	
CS 13011 & CS 13012 & CS 23001	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING and COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	
Technical Upper-Division Elective (40000 level), choose from the following:		3
CAE 45092	AERONAUTICS AND ENGINEERING INTERNSHIP/COOPERATIVE EDUCATION (ELR) (WIC) [2]	
Any Computer Information Systems (CIS) Upper-Division course (40000 level)		
Any Computer Science (CS) Upper-Division course (40000 level)		
Any Criminology and Justice Studies (CRIM) Upper-Division course (40000 level)		
Any Engineering (ENGR) Upper-Division course (40000 level)		

Any Information Technology (IT) Upper-Division course (40000 level)		
Additional Requirements (courses do not count in major GPA)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) [3]	5
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) [3]	5
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
UC 10001	FLASHES 101	1
Science or Mathematics Elective, choose from the following:		3-4
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	
MATH 21001	LINEAR ALGEBRA	
MATH 21002	APPLIED LINEAR ALGEBRA	
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	
MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	
PHY 32511	ELECTRONICS	
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Minimum Total Credit Hours:		**120**

[1] ENGR 48099 and ENGR 48199 must be taken during the same academic year.

[2] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[3] Preferred option for students: CS 10062, CS 20062, MATH 20011, PHY 13001 (and lab), PHY 13002 (and lab).

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.250

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	ENGR 11001	INTRODUCTION TO ENGINEERING	2
	ENGR 11002	INTRODUCTION TO ENGINEERING LABORATORY	1
	MATH 11022	TRIGONOMETRY (KMCR)	3
	UC 10001	FLASHES 101	1
	Computer Science Elective		4
	Kent Core Requirement		3
	Credit Hours		**14**
	Semester Two		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	ENGR 10005	INTRODUCTION TO CYBERSECURITY	3
	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	3
	Kent Core Requirement		3
	Credit Hours		**17**
	Semester Three		
	ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
	ENGR 28105	FUNDAMENTALS OF NETWORKED INFRASTRUCTURE	2
	ENGR 28106	FUNDAMENTALS OF NETWORKED INFRASTRUCTURE LABORATORY	1
	INS 29000	INTRODUCTION TO INSURANCE AND RISK	3
	PHY 13001 & PHY 13021 or PHY 23101	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Kent Core Requirement		3
	Credit Hours		**15**
	Semester Four		
	MATH 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
	PHY 13002 & PHY 13022 or PHY 23102	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Computer Science Elective		4
	Kent Core Requirement		3
	Credit Hours		**15**
	Semester Five		
	ENGR 38105	IOT SECURITY IN ENGINEERING SYSTEMS	2
	ENGR 38106	IOT SECURITY IN ENGINEERING SYSTEMS LABORATORY	1
	ENGR 47200	SYSTEMS ENGINEERING	3
	MATH 12003 or MATH 20011	ANALYTIC GEOMETRY AND CALCULUS II or DECISION-MAKING UNDER UNCERTAINTY	3-5
	MATH 30011	BASIC PROBABILITY AND STATISTICS	3
	Kent Core Requirement		3
	Credit Hours		**15**
	Semester Six		
	CIS 44041	MANAGING CYBERSECURITY	3
	CS 47221	INTRODUCTION TO CRYPTOLOGY	3
	ENGR 37777	CYBERSECURITY OPERATIONS	2
	ENGR 37778	CYBERSECURITY OPERATIONS LABORATORY	1
	ENGR 38205	NETWORK INSTRUMENTATION AND FORENSIC ANALYSIS	2
	ENGR 38206	NETWORK INSTRUMENTATION AND FORENSIC ANALYSIS LABORATORY	1
	ENGR 46305	NETWORK SECURITY	2
	ENGR 46306	NETWORK SECURITY LABORATORY	1
	Credit Hours		**15**

	Semester Seven		
	ENGR 35550	LAW AND ETHICS FOR ENGINEERS	2
!	ENGR 48099	ENGINEERING CAPSTONE I (ELR)	3
	ENGR 48191	ADVANCED CYBERSECURITY SEMINAR	3
	Engineering (ENGR) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Eight		
!	ENGR 48199	ENGINEERING CAPSTONE II (ELR) (WIC)	3
	ENGR 48200	WIRELESS MESH NETWORK SECURITY	3
	Science or Mathematics Elective		3-4
	Technical Upper-Division Elective (40000 level)		3
	Kent Core Requirement		3
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify, formulate and solve complex engineering problems by applying principles of engineering, science and mathematics.
2. Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety and welfare, as well as global, cultural, social, environmental and economic factors.
3. Communicate effectively with a range of audiences.
4. Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in a global, economic, environmental and societal context.
5. Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks and meet objectives.
6. Develop and conduct appropriate experimentation, analyze and interpret data and use engineering judgment to draw conclusions.
7. Acquire and apply new knowledge as needed, using appropriate learning strategies.

The educational objectives of the program are the following:

1. Drive positive change in the community by engaging in careers in the field of cybersecurity, information systems and other engineering disciplines in a manner that promotes excellence and integrity.
2. Practice forward-thinking through continued education by way of graduate education, professional development and other continued self-motivated learning.
3. Successfully navigate the ever-changing trajectory of the world, practicing compassion while striving to meet personal career goals.

Full Description

The Bachelor of Science degree in Cybersecurity Engineering prepares students with problem-solving skills and a resourceful mindset to tackle cybersecurity threats in engineering systems. The program provides students with a working knowledge of analysis and evaluation of components and systems with respect to security and maintaining operations in the presence of risks and threats, with an emphasis on engineered systems. Students gain the understanding and skills necessary to address security issues pertaining to stakeholder needs and requirements (from a system engineering perspective) considering the lifecycle of the system from the outset. Design and development of systems, their components and associated networks to increase trustworthiness is a driving concern.

Electronics - Minor

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Electronics minor gives students a basic knowledge in programming, circuits, digital design, electronic devices and control of systems. It also illustrates how digital combinational and sequential circuits work and provides students with some applications of these types of circuits. The minor complements studies in computer science, physics and instrumentation, as well as student interest in a general background on how computers work.

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	3
ENGR 33440	ELECTRONIC DEVICES	3
ENGR 33442	ELECTRONIC DEVICES LABORATORY	1
Electrical Circuits Electives, choose from the following:		4-7
EERT 12000 & EERT 12001	ELECTRIC CIRCUITS I and ELECTRIC CIRCUITS II	
ENGR 21020 & ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS and SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	
ENGR 35500 & ENGR 35501	SIGNALS AND CIRCUITS and SIGNALS AND CIRCUITS LABORATORY	
Minor Electives, choose from the following:		6-7
CAE 22095	SPECIAL TOPICS IN AERONAUTICS AND ENGINEERING [1]	
CAE 35095	SPECIAL TOPICS IN AERONAUTICS AND ENGINEERING [1]	
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING [2]	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING [2]	
EERT 22095	SPECIAL TOPICS IN ELECTRICAL/ELECTRONIC AND RELATED ENGINEERING TECHNOLOGIES [1]	
EMAT 25310	CREATIVE CODING [2]	
EMAT 32210	DATA IN EMERGING MEDIA AND TECHNOLOGY	
ENGR 26220 & ENGR 26222	PROGRAMMING FOR ENGINEERS and PROGRAMMING FOR ENGINEERS LABORATORY [2]	
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	
ENGR 33041	CONTROL SYSTEMS	
ENGR 33223	ELECTRONIC COMMUNICATION	
ENGR 43220	ELECTRICAL MACHINERY	
ENGR 46330	VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY [2]	
ENGT 33095	SPECIAL TOPICS IN ENGINEERING TECHNOLOGY [1]	
Minimum Total Credit Hours:		**17**

[1] The following courses may be applied toward minor electives with college approval: CAE 22095, CAE 35095, EERT 22095, ENGT 33095.

[2] Students may apply a maximum of one of the following courses or course sequences toward minor electives: CS 13001, CS 13011 and CS 13012, EMAT 25310, ENGR 26220 and ENGR 26222, ENGR 46330.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Gain a basic knowledge of electronic components and their applications.
2. Gain a basic understanding of how to use components to control processes.

Engineering Technology - M.E.T.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Master of Engineering Technology degree offers a curriculum that provides students with advanced technical and management knowledge and skills to meet the needs of the technical workforce in industry and business. The program orients and educates students in critical emerging areas of engineering, including additive manufacturing, sustainable energy, materials selection, quality systems, systems engineering, computer aided-manufacturing and design, industrial automation and robotics, information technology and network management and business analytics.

Contact Information

- CAEgraduatestudies@kent.edu | 330-672-2829
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person

- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Aerospace engineering and operations technologists and technicians

- 7.0% faster than the average
- 11,900 number of jobs
- $68,570 potential earnings

Calibration technologists and technicians and engineering technologists and technicians, except drafters, all other

- 2.1% slower than the average
- 91,600 number of jobs
- $64,190 potential earnings

Civil engineering technologists and technicians

- 2.5% slower than the average
- 70,900 number of jobs
- $54,080 potential earnings

Electrical and electronic engineering technologists and technicians

- 1.5% slower than the average
- 125,800 number of jobs
- $67,550 potential earnings

Electro-mechanical and mechatronics technologists and technicians

- 3.0% about as fast as the average
- 14,600 number of jobs
- $59,800 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university[1]
- Minimum 2.750 undergraduate GPA on a 4.000-point scale[1]
- Official transcript(s)
- Goal statement (one page) describing applicant's background, interests, and goals, and how this program will help to achieve those goals
- Three letters of recommendation[2]
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[3]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

An admissions committee of the College of Aeronautics and Engineering graduate faculty review all applications. Admission will be considered by examination of the applicant's background on an individual basis. Applicants with deficiencies may be admitted conditionally, which may include a requirement for completion of appropriate undergraduate coursework that will not count toward the master's degree.

1 In exceptional cases, an applicant without a technical degree or with a composite GPA below 2.750 may be admitted conditionally based on strong letters of recommendation or significant experience related to the intended area of study. These applicants should submit any additional information that may assist the admissions committee in assessing their academic, technical or professional background and abilities. The additional information may include a résumé or professional portfolio summarizing any relevant technical competencies, professional experience, and any academic and professional achievements in areas related to the applicant's intended studies.

2 The letters should come from an individual familiar with the applicant's academic or professional background and abilities. The letters should attest to the applicant's potential to complete graduate work successfully. Letters of recommendation from persons who are experienced professionals in the applicant's intended field of study or in a closely related area are acceptable. Recommendations from former or current professors are preferred.

3 International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 1
- **Spring Semester**
  - Application deadline: August 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ENGR 57200	SYSTEMS ENGINEERING [1]	3
or ENGR 65700	APPLIED RELIABILITY ENGINEERING	
ENGR 57210	SUSTAINABLE ENERGY I [1]	3
ENGR 60000	PROJECT MANAGEMENT IN A TECHNOLOGICAL ENVIRONMENT	3
ENGR 65500	QUALITY SYSTEMS AND INDUSTRIAL PRODUCTIVITY	3
Business or Mathematics Electives, choose from the following:		6

BA 64036 & BA 64060	BUSINESS ANALYTICS and FUNDAMENTALS OF MACHINE LEARNING	
MATH 50012 & MATH 50024	THEORY OF STATISTICS and COMPUTATIONAL STATISTICS	
MATH 50015 & MATH 50024	APPLIED STATISTICS and COMPUTATIONAL STATISTICS [2]	
Major Electives, choose from the following:		9
ENGR 60003	SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT	
Computer Engineering Technology Specialization		
ENGR 56312	WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS [1]	
ENGR 63010	INFORMATION TECHNOLOGY FUNDAMENTALS	
Manufacturing Specialization		
ENGR 52363	MATERIALS SELECTION IN DESIGN AND APPLICATIONS [1]	
ENGR 52410	ENGINEERING OPTIMIZATION [1]	
ENGR 53550	COMPUTER-AIDED MANUFACTURING [1]	
Robotics Specialization		
ENGR 60092	INDUSTRIAL PRACTICE [3]	
ENGR 62610	INDUSTRIAL ROBOTICS AND VISION SYSTEMS	
ENGR 62611	INDUSTRIAL ROBOTICS AND VISION SYSTEMS LABORATORY	
ENGR 62620	INDUSTRIAL AUTOMATION AND CONTROL	
ENGR 62621	INDUSTRIAL AUTOMATION AND CONTROL LABORATORY	
Quality Specialization		
ENGR 60020	QUALITY STANDARDS	
ENGR 65270	HUMAN FACTORS ENGINEERING	
ENGR 65550	DESIGN AND ANALYSIS OF EXPERIMENTS IN TECHNOLOGY	
ENGR 65700	APPLIED RELIABILITY ENGINEERING	
Culminating Requirement		
Choose from the following:		3-4
ENGR 52710 & ENGR 52711	ADDITIVE MANUFACTURING AND 3D PRINTING and ADDITIVE MANUFACTURING AND 3D PRINTING LABORATORY	
ENGR 60092	INDUSTRIAL PRACTICE	
Minimum Total Credit Hours:		**30**

1 Students who have completed the undergraduate equivalent of the graduate course may not take the graduate course toward the degree. Example, students who completed ENGR 47200 may not take ENGR 57200.

2 Students with prior coursework in statistics may be approved to take MATH 50015 as an alternative to MATH 50012. Students must contact the Department of Mathematical Sciences to request a prerequisite override to register for graduate math courses.

3 Students who want to take both the Industrial Practice and Additive Manufacturing culminating requirements may have ENGR 60092 count as a major elective.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply engineering and technology management principles and practices.
2. Conduct planning, organizing, decision-making and management of technology and complex systems.
3. Apply problem-solving and creative-thinking skills in technical and interdisciplinary settings.
4. Conduct design, business analysis, statistical analysis and the development and implementation of applied engineering and technology in various engineering, science and technology venues.

Dual Degree With Master of Business Administration

Students have the opportunity to complete a dual degree program with the Master of Engineering Technology degree and the Master of Business Administration degree. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The M.B.A./M.E.T. dual degree is designed for students with the dual goal of pursuing the a highly technical degree while at the same time preparing for a career that will hold increasing levels of management positions.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
BA 64036	BUSINESS ANALYTICS	3
BA 64060	FUNDAMENTALS OF MACHINE LEARNING	3
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
ENGR 52363	MATERIALS SELECTION IN DESIGN AND APPLICATIONS	3
ENGR 57200	SYSTEMS ENGINEERING	3
ENGR 57210	SUSTAINABLE ENERGY I	3
ENGR 60000	PROJECT MANAGEMENT IN A TECHNOLOGICAL ENVIRONMENT	3
ENGR 65500	QUALITY SYSTEMS AND INDUSTRIAL PRODUCTIVITY	3
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	0-1
MKTG 65051	MARKETING MANAGEMENT	2

Engineering Electives, choose from the folloiwng:		6
ENGR 52410	ENGINEERING OPTIMIZATION	
ENGR 60003	SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT	
ENGR 60092	INDUSTRIAL PRACTICE	
ENGR 62610	INDUSTRIAL ROBOTICS AND VISION SYSTEMS	
ENGR 62611	INDUSTRIAL ROBOTICS AND VISION SYSTEMS LABORATORY	
ENGR 62620	INDUSTRIAL AUTOMATION AND CONTROL	
ENGR 62621	INDUSTRIAL AUTOMATION AND CONTROL LABORATORY	
ENGR 63010	INFORMATION TECHNOLOGY FUNDAMENTALS	
ENGR 63100	COMPUTER-AIDED DESIGN	
Culminating Experience		
ENGR 52710 & ENGR 52711	ADDITIVE MANUFACTURING AND 3D PRINTING and ADDITIVE MANUFACTURING AND 3D PRINTING LABORATORY	3
or ENGR 60092	INDUSTRIAL PRACTICE	
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**55-56**

[1] MGMT 68051 may be waived for students with at least two years of full-time work experience.

Innovation - Minor

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Innovation minor is an interdisciplinary program that addresses the need to use innovation to solve many pressing problems in manufacturing, science, business and technology.

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
DI 20100	INTRODUCTION TO DESIGN INNOVATION	3
ENGR 27210	INTRODUCTION TO SUSTAINABILITY	3
Minor Electives, choose from the following:		9
DI 20020	BE SMARTER THAN YOUR SMARTPHONE	
DI 30099	CHALLENGE-BASED INNOVATION (ELR)	
DI 49995	SPECIAL TOPICS IN DESIGN INNOVATION	
DI 49999	DESIGN INNOVATION GRAND CHALLENGES STUDIO PROJECT (ELR)	
ENGR 13586 & ENGR 13587	COMPUTER AIDED DESIGN I and COMPUTER AIDED DESIGN I LABORATORY	
or MERT 12001	COMPUTER-AIDED DESIGN	
ENGR 20002	MATERIALS AND PROCESSES	
ENGR 31016	MANUFACTURING TECHNOLOGY	
ENGR 42710 & ENGR 42711	ADDITIVE MANUFACTURING AND 3D PRINTING and ADDITIVE MANUFACTURING AND 3D PRINTING LABORATORY	
ENGR 47210	SUSTAINABLE ENERGY I	
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
ENTR 37070	SOCIAL ENTREPRENEURSHIP	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
UXD 40104	USABILITY	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Utilize basic analytical skills, intuition and creative thinking to develop practical ethical solutions to real world problems.
2. Apply various problem-solving methodologies and strategies with regards to innovation, while considering impacts to business, planning and sustainability.

Mechanical Engineering Technology - B.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

Ready to turn ideas into real-world solutions? The Mechanical Engineering Technology program combines applied design, testing and manufacturing with hands-on experience in systems such as fluid dynamics, materials testing and industrial automation across industries like aerospace, automotive, energy and advanced manufacturing. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Cost estimators

- -1.5% decline
- 214,200 number of jobs
- $66,610 potential earnings

Drafters, all other

- 0.6% little or no change
- 15,200 number of jobs
- $54,500 potential earnings

Industrial engineering technologists and technicians

- 1.5% slower than the average
- 68,500 number of jobs
- $57,320 potential earnings

Industrial production managers

- 0.9% little or no change
- 190,100 number of jobs
- $108,790 potential earnings

Mechanical engineering technologists and technicians

- 3.1% about as fast as the average
- 43,500 number of jobs
- $58,230 potential earnings

Mechanical engineers

- 3.9% about as fast as the average
- 316,300 number of jobs
- $90,160 potential earnings

Additional Careers

- Career and technical education teacher

Accreditation

The B.S. degree in Mechanical Engineering Technology is accredited by the Association of Technology, Management and Applied Engineering (ATMAE).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Mechanical Engineering Technology major is selective.

New Students: Admission into this major requires a minimum 2.700 unweighted high school GPA. Students who do not meet this requirement will be admitted to the Industrial Engineering Technology major. Students may change their major to Mechanical Engineering Technology after satisfying the below requirements for current students.

Note: Applicants should understand that this is a math-intensive program. Students admitted to the program are expected to demonstrate prerequisite knowledge on a math placement exam (the ALEKS exam) prior to starting their first semester. Students who do not obtain the minimum score required to place into the required math courses are at risk of delaying graduation.

Current Students: Students may change their major to Mechanical Engineering Technology if they meet the following criteria:

- Minimum 2.500 overall Kent State GPA
- Minimum C grade in both ENGR 11001 and ENGR 11002
- Minimum C grade in either MATH 11022 or MATH 12011

Transfer Students: Transfer students must have completed minimum 12 credit hours of college-level coursework with a minimum 2.500 overall GPA for admission to the Mechanical Engineering Technology major. Students with less than 12 credit hours completed will be evaluated based on their high school transcript using the criteria in the above "new student" section.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ENGR 11001	INTRODUCTION TO ENGINEERING	2
ENGR 11002	INTRODUCTION TO ENGINEERING LABORATORY	1

ENGR 13586 & ENGR 13587	COMPUTER AIDED DESIGN I and COMPUTER AIDED DESIGN I LABORATORY [1]	3
or MERT 12001	COMPUTER-AIDED DESIGN	
ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
ENGR 20002	MATERIALS AND PROCESSES [1]	3
or MERT 12004	MANUFACTURING PROCESSES	
ENGR 23585	COMPUTER AIDED DESIGN II	3
ENGR 30001	APPLIED THERMODYNAMICS [1]	3
or MERT 42000	THERMODYNAMICS FOR ENGINEERING TECHNOLOGY	
ENGR 31016	MANUFACTURING TECHNOLOGY	3
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 33033	HYDRAULICS/PNEUMATICS	3
ENGR 33111	STATICS AND STRENGTH OF MATERIALS [1]	3-6
or MERT 22005 & MERT 22007	STATICS and STRENGTH OF MATERIALS	
ENGR 33364	METALLURGY AND MATERIALS SCIENCE	3
ENGR 33700	QUALITY TECHNIQUES	3
ENGR 35550	LAW AND ETHICS FOR ENGINEERS	2
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
ENGR 43550	COMPUTER-AIDED MANUFACTURING	3
ENGR 43580	COMPUTER-AIDED MACHINE DESIGN	3
ENGR 43899	ENGINEERING TECHNOLOGY CAPSTONE (ELR) (WIC) [2]	3
ENGR 47200	SYSTEMS ENGINEERING	3
Engineering (ENGR) Electives		6
Electrical Circuits Electives, choose from the following: [1]		4-7
EERT 12000 & EERT 12001	ELECTRIC CIRCUITS I and ELECTRIC CIRCUITS II	
ENGR 21020 & ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS and SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	
Programming Elective, choose from the following:		3-4
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
ENGR 15300 & ENGR 15301	ENGINEERING COMPUTING AND PROBLEM SOLVING and ENGINEERING COMPUTING AND PROBLEM SOLVING LABORATORY	
ENGR 26220 & ENGR 26222	PROGRAMMING FOR ENGINEERS and PROGRAMMING FOR ENGINEERS LABORATORY	
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING [3]	1-3
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
or CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) [4]	5
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) [4]	5
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
UC 10001	FLASHES 101	1
Mathematics Electives, choose from the following: [5]		6-8
MATH 11022 & MATH 12002	TRIGONOMETRY (KMCR) and ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12011 & MATH 12012	CALCULUS WITH PRECALCULUS I (KMCR) and CALCULUS WITH PRECALCULUS II (KMCR)	
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines) (cannot be ECON)		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		5
Minimum Total Credit Hours:		**120**

1 Preferred option for students: ENGR 13586, ENGR 13587, ENGR 20002, ENGR 21020, ENGR 21022, ENGR 30001 and ENGR 33111. Some options may require coursework outside of this program.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

3 Students scoring 34 or below on the ALEKS math assessment are required to enroll in CAE 12260 until they successfully complete MATH 00022.

4 Students who desire to change their major to Aerospace Engineering or Mechatronics Engineering should take PHY 23101 and PHY 23102. Failing to do so may result in having to retake physics to complete their degree. PHY 23101 and PHY 23102 require coursework outside the major. Students planning to remain in the Mechanical Engineering Technology program should take PHY 13001, PHY 13002, PHY 13021 and PHY 13022.

5 MATH 12011 and MATH 12012 are the preferred math electives for this program. However, students wishing to change their major to Aerospace Engineering or Mechatronics Engineering should take MATH 11022 and MATH 12002 to avoid additional coursework.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING	1
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3

ENGR 13586 & ENGR 13587 or MERT 12001	COMPUTER AIDED DESIGN I and COMPUTER AIDED DESIGN I LABORATORY or COMPUTER-AIDED DESIGN	3
UC 10001	FLASHES 101	1
Mathematics Elective		3-5
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**17**
Semester Two		
ENGR 11001	INTRODUCTION TO ENGINEERING	2
ENGR 11002	INTRODUCTION TO ENGINEERING LABORATORY	1
ENGR 23585	COMPUTER AIDED DESIGN II	3
PHY 13001 & PHY 13021 or PHY 23101	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Mathematics Elective		3-5
	Credit Hours	**14**
Semester Three		
CHEM 10050 or CHEM 10060 or CHEM 10970	FUNDAMENTALS OF CHEMISTRY (KBS) or GENERAL CHEMISTRY I (KBS) or HONORS GENERAL CHEMISTRY I (KBS)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
ENGR 20002 or MERT 12004	MATERIALS AND PROCESSES or MANUFACTURING PROCESSES	3
PHY 13002 & PHY 13022 or PHY 23102	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Credit Hours	**15**
Semester Four		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
Electrical Circuits Electives		4-7
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Five		
ENGR 30001 or MERT 42000	APPLIED THERMODYNAMICS or THERMODYNAMICS FOR ENGINEERING TECHNOLOGY	3
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 33111 or MERT 22005 ***and*** MERT 22007	STATICS AND STRENGTH OF MATERIALS or STATICS ***and*** STRENGTH OF MATERIALS	3-6
ENGR 35550	LAW AND ETHICS FOR ENGINEERS	2
ENGR 47200	SYSTEMS ENGINEERING	3
	Credit Hours	**14**
Semester Six		
ENGR 33033	HYDRAULICS/PNEUMATICS	3
ENGR 33364	METALLURGY AND MATERIALS SCIENCE	3
Programming Elective		3-4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Seven		
ENGR 31016	MANUFACTURING TECHNOLOGY	3
ENGR 33700	QUALITY TECHNIQUES	3
ENGR 43550	COMPUTER-AIDED MANUFACTURING	3
ENGR 43580	COMPUTER-AIDED MACHINE DESIGN	3
Engineering (ENGR) Elective		3
	Credit Hours	**15**
Semester Eight		
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
ENGR 43899	ENGINEERING TECHNOLOGY CAPSTONE (ELR) (WIC)	3
Engineering (ENGR) Elective		3
General Electives		5
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7

Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

www.kent.edu/cae

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge, techniques, skills and modern tools of mathematics, science, engineering and technology to solve broadly defined engineering problems appropriate to the discipline.
2. Design systems, components or processes meeting specified needs for broadly defined engineering problems appropriate to the discipline.
3. Apply written, oral and graphical communication in broadly defined technical and non-technical environments, and an ability to identify and use appropriate technical literature.
4. Conduct standard tests, measurements and experiments and analyze and interpret the results to improve processes.
5. Function effectively as a member as well as a leader on technical teams.

The educational objectives of the program are the following:

1. Drive positive societal change while working in the areas of mechanical, robotic systems, hydraulics, pneumatics and automation, including other engineering technology fields in a manner that promotes excellence, integrity and success.
2. Practice forward-thinking through continued education by way of professional development, graduate education and other continued self-motivated learning.
3. Successfully navigate the ever-changing trajectory of the world, practicing compassion as you strive to meet your personal and professional goals.

Full Description

The Bachelor of Science degree in Mechanical Engineering Technology prepares graduates with knowledge across engineering technology disciplines for professional careers in mechanical, robotic systems, hydraulics, pneumatics, automation and other related fields that provide solutions to broadly defined challenges. The program teaches design, operation, installation, maintenance and analysis of machinery. This is an engineering technology degree that focuses on hands-on applications and not a traditional mechanical engineering degree. The program prepares students to become technical professionals in current and emerging fields using mechanical and computer-aided engineering. Students learn to develop innovative solutions to problems encountered in manufacturing.

Applicants to this program should understand that this is a math-intensive program.

Students may apply early to the Master of Engineering Technology degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Mechatronics Engineering - B.S.

College of Aeronautics and Engineering

About This Program

Excited by the future of robotics, automation and intelligent systems? The Mechatronics Engineering program fuses mechanical, electrical and computer engineering to prepare students to design the smart machines powering advanced manufacturing, autonomous vehicles and next generation technologies. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Electrical engineers

- 4.6% about as fast as the average
- 193,100 number of jobs
- $100,830 potential earnings

Electronics engineers, except computer

- 1.4% slower than the average
- 134,900 number of jobs
- $107,540 potential earnings

Electro-mechanical and mechatronics technologists and technicians

- 3.0% about as fast as the average
- 14,600 number of jobs
- $59,800 potential earnings

Industrial engineers

- 10.1% much faster than the average
- 295,800 number of jobs
- $88,950 potential earnings

Mechanical engineers

- 3.9% about as fast as the average
- 316,300 number of jobs
- $90,160 potential earnings

Additional Careers

- Automation engineer
- Automation technician
- Autonomous systems engineer

- Controls engineer
- Controls systems engineer
- Digital twin engineer
- Electromechanical engineer
- Embedded systems engineer
- Engineering and design roles
- Field robotics engineer
- Human-robot interaction (HRI) specialist
- Mechatronics product developer
- Quality control inspector
- Robotics applications engineer
- Robotics engineer
- Robotics systems integrator
- Robotics test engineer
- Systems integration engineer

Accreditation

The Bachelor of Science degree in Mechatronics Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, under the General Criteria.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Mechatronics Engineering major is selective. Applicants should understand that this is a math-intensive program, and the roadmap assumes students start with MATH 12002 their first semester. Students admitted to the program are expected to demonstrate prerequisite knowledge on a math placement assessment (the ALEKS math assessment) or via other means (e.g., AP, IB, CLEP, A levels) prior to registering for their first semester. Students who do not place into MATH 12002 will likely take longer than eight semesters to complete the program.

New Students: Admission into this major requires:

- Minimum 3.0 high school GPA
- Clear demonstration of an ability to be placed directly into MATH 12002 (or its equivalent); this will occur if the student is currently taking or has taken a calculus, pre-calculus or trigonometry course with a minimum C grade *(starting with the fall 2026 admission term, a minimum C grade in all math courses listed on the high school transcript (e.g., trigonometry, algebra, geometry) is required)*

Students who do not meet the above requirements will be admitted to the Mechatronics Engineering Technology major, provided they meet the minimum admission requirements.

Current Students: Students accepted into other Kent State programs may request to change their major to Mechatronics Engineering once they meet the following criteria:

- Minimum 3.000 overall Kent State GPA (*starting with the fall 2026 admission term, minimum 12 credit hours completed at Kent State with a minimum 3.000 overall Kent State GPA is required)*
- Minimum C grade in both MATH 12002 and PHY 23101 *(starting with the fall 2026 admission term, minimum B grade in MATH 11022 OR minimum C grade in MATH 12002 is required)*

Transfer Students: Admission into this major requires:

- Minimum 12 credit hours of college-level coursework
- Minimum 3.000 overall GPA
- Minimum C grade in both MATH 12002 and PHY 23101 (or their equivalents)*(starting with the fall 2026 admission term, minimum B grade in MATH 11022 OR minimum C grade in MATH 12002 or their equivalents is required)*

Transfer students who have completed fewer than 12 credit hours of college-level coursework will be evaluated on both collegiate and high school records and must submit a final high school transcript.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ENGR 11001	INTRODUCTION TO ENGINEERING	2
ENGR 11002	INTRODUCTION TO ENGINEERING LABORATORY	1
ENGR 13586 & ENGR 13587	COMPUTER AIDED DESIGN I and COMPUTER AIDED DESIGN I LABORATORY	3
or MERT 12001	COMPUTER-AIDED DESIGN	
ENGR 15302	MATLAB SKILLS FOR ENGINEERS	1
ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
ENGR 20002	MATERIALS AND PROCESSES	3
or MERT 12004	MANUFACTURING PROCESSES	
ENGR 25200	STATICS (min C grade)	3
ENGR 25400	DYNAMICS (min C grade)	3
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 33041	CONTROL SYSTEMS	3
ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	3
ENGR 33440	ELECTRONIC DEVICES	3
ENGR 33442	ELECTRONIC DEVICES LABORATORY	1
ENGR 35500	SIGNALS AND CIRCUITS	3
ENGR 35501	SIGNALS AND CIRCUITS LABORATORY	1
ENGR 42111	STRENGTH OF MATERIALS FOR ENGINEERS	3
ENGR 42363	MATERIALS SELECTION IN DESIGN AND APPLICATIONS	3

ENGR 43030	MECHATRONICS	3
ENGR 43099	MECHATRONICS CAPSTONE (ELR) (WIC) [1,2]	3-6
or ENGR 48099 & ENGR 48199	ENGINEERING CAPSTONE I (ELR) and ENGINEERING CAPSTONE II (ELR) (WIC)	
ENGR 43220	ELECTRICAL MACHINERY	3
ENGR 43580	COMPUTER-AIDED MACHINE DESIGN	3
ENGR 47200	SYSTEMS ENGINEERING	3
Programming Elective, choose from the following:		3-4
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
ENGR 26220 & ENGR 26222	PROGRAMMING FOR ENGINEERS and PROGRAMMING FOR ENGINEERS LABORATORY	
Additional Requirements (courses do not count in major GPA)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
MATH 21001	LINEAR ALGEBRA (min C grade)	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III (min C grade)	4
MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS (min C grade)	3
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) (min C grade) [3]	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB) (min C grade) [3]	5
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		4
Minimum Total Credit Hours:		**120**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

2 Students wishing to take the full-year capstone option (ENGR 48099 and ENGR 48199) must take the sequence during consecutive semesters. ENGR 48099 is only offered during the fall semester and ENGR 48199 is only offered during the spring semester.

3 PHY 23101 and PHY 23102 are required for this program. No credit will be given to students who take other physics courses. Students who change their major to Mechatronics Engineering from another program should understand that choosing to take a different physics sequence may result in up to 10 additional credit hours of required work.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.750	2.500

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	ENGR 20002 or MERT 12004	MATERIALS AND PROCESSES or MANUFACTURING PROCESSES	3
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
	Programming Elective		3-4
		Credit Hours	**15**
	Semester Two		
	ENGR 11001	INTRODUCTION TO ENGINEERING	2
	ENGR 11002	INTRODUCTION TO ENGINEERING LABORATORY	1
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	MATH 21001	LINEAR ALGEBRA	3
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
		Credit Hours	**16**
	Semester Three		
!	ENGR 25200	STATICS	3
!	ENGR 35500	SIGNALS AND CIRCUITS	3
!	ENGR 35501	SIGNALS AND CIRCUITS LABORATORY	1
	MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
		Credit Hours	**16**
	Semester Four		
	ENGR 13586 & ENGR 13587 or MERT 12001	COMPUTER AIDED DESIGN I and COMPUTER AIDED DESIGN I LABORATORY or COMPUTER-AIDED DESIGN	3
	ENGR 15302	MATLAB SKILLS FOR ENGINEERS	1
!	ENGR 25400	DYNAMICS	3
!	MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	3
	Kent Core Requirement		3
	General Elective		1
		Credit Hours	**14**
	Semester Five		
	ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
	ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	3
!	ENGR 42111	STRENGTH OF MATERIALS FOR ENGINEERS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**13**
	Semester Six		
	ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
	ENGR 33041	CONTROL SYSTEMS	3
	ENGR 33440	ELECTRONIC DEVICES	3
	ENGR 33442	ELECTRONIC DEVICES LABORATORY	1
	ENGR 42363	MATERIALS SELECTION IN DESIGN AND APPLICATIONS	3

	Kent Core Requirement	3
	Credit Hours	**16**
	Semester Seven	
	ENGR 43030 MECHATRONICS	3
	ENGR 43580 COMPUTER-AIDED MACHINE DESIGN	3
	ENGR 48099 ENGINEERING CAPSTONE I (ELR)	3
	or General Elective	
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	**15**
	Semester Eight	
	ENGR 43099 MECHATRONICS CAPSTONE (ELR) (WIC) or ENGINEERING CAPSTONE II (ELR) (WIC) ENGR 48199	3
	ENGR 43220 ELECTRICAL MACHINERY	3
	ENGR 47200 SYSTEMS ENGINEERING	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify, formulate and solve complex engineering problems by applying principles of engineering, science and mathematics.
2. Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety and welfare, as well as global, cultural, social, environmental and economic factors.
3. Communicate effectively with a range of audiences.
4. Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental and societal contexts.
5. Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks and meet objectives.
6. Develop and conduct appropriate experimentation, analyze and interpret data and use engineering judgment to draw conclusions.
7. Acquire and apply new knowledge as needed, using appropriate learning strategies.

The educational objectives of the program are the following:

1. Drive positive change in the community by engaging in careers in mechatronics, automation, systems and other engineering fields in a robust manner that promotes excellence and integrity.
2. Practice forward-thinking through continued education by way of graduate education, professional development and other continued self-motivated learning.
3. Successfully navigate the ever-changing trajectory of the world, practicing compassion while striving to meet personal career goals.

Full Description

The Bachelor of Science degree in Mechatronics Engineering successfully prepares graduates with knowledge across engineering disciplines for professional careers in mechatronics, controls, robotics, automation and other engineering fields that provide solutions to technical challenges and address societal needs. The program integrates mechanical, electrical, computer and controls engineering to understand automated machinery, specifically, how to design it and make it work. Mechatronics engineering revolves around the design, construction and operation of automated systems, robots and intelligent products, which result from the integration of software and hardware.

Using automated systems is becoming more popular for operating equipment or machinery on manufacturing lines, boilers and aircraft to reduce labor costs; increase precision and accuracy; and provide quality and safety for workers. Mechatronic devices can be found in agriculture, hospitals, buildings, homes, automobiles, manufacturing plants, the toy and entertainment industry and aids for the elderly and disabled.

Applicants to this program should understand that this is a math-intensive program.

Students may apply early to the M.S. degree in Mechatronics Engineering and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Mechatronics Engineering - M.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Master of Science degree in Mechatronics Engineering provides an advanced theoretical and/or research-oriented curriculum with significant depth in a mechatronics-related discipline, beyond the general fundamentals of the engineering bachelor's degree.

Contact Information

- CAEgraduatestudies@kent.edu | 330-672-2892
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Mechanical engineers

- 3.9% about as fast as the average
- 316,300 number of jobs
- $90,160 potential earnings

Electrical engineers

- 4.6% about as fast as the average
- 193,100 number of jobs
- $100,830 potential earnings

Engineering teachers, postsecondary

- 8.6% much faster than the average
- 44,600 number of jobs
- $103,600 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree in mechatronics engineering or a closely related area (e.g., electrical engineering or mechanical engineering) from an accredited college or university[1]
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s) from each institution in which 8+ semester credit hours were attempted
- Goal statement[2]
- Three letters of recommendation[2]
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[3]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] Applicants with a bachelor's degree in engineering technology or a non-engineering STEM discipline may be considered for admission before or after completing additional coursework as determined on a case-by-case basis. Applicants should reach out to the College of Aeronautics and Engineering via email (caegraduatestudies@kent.edu) for more information.

[2] Current Kent State undergraduate students who want to apply to the combined B.S./M.S. degree program should contact the College of Aeronautics and Engineering via email (caegraduatestudies@kent.edu) to discuss the process and request waivers for certain admission requirements.

[3] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.
- **Spring Semester**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ENGR 52410	ENGINEERING OPTIMIZATION [1]	3
or ENGR 57200	SYSTEMS ENGINEERING	
ENGR 53030	MECHATRONICS [2]	3
ENGR 61091	GRADUATE SEMINAR	1
ENGR 68005	LINEAR SYSTEM ANALYSIS AND CONTROL	3
Focus Areas, choose one course from two areas:		6
Control Systems		
ENGR 68004	OPTIMAL CONTROL THEORY	
ENGR 68006	NONLINEAR SYSTEMS AND CONTROL	
ENGR 68007	DIGITAL CONTROL SYSTEMS	
ENGR 68008	INTRODUCTION TO ROBUST CONTROL	

Machine Intelligence		
CS 54201	ARTIFICIAL INTELLIGENCE [1]	
CS 54202	MACHINE LEARNING AND DEEP LEARNING [1]	
CS 64201	ADVANCED ARTIFICIAL INTELLIGENCE	
ENGR 58010	MACHINE VISION [1]	
ENGR 68102	INTELLIGENT SENSING AND PLANNING OF UNMANNED AERIAL SYSTEMS	
Robotics and Automation		
CS 53301	SOFTWARE DEVELOPMENT FOR ROBOTICS [1]	
CS 53334	HUMAN-ROBOT INTERACTION [1]	
ENGR 62620 & ENGR 62621	INDUSTRIAL AUTOMATION AND CONTROL and INDUSTRIAL AUTOMATION AND CONTROL LABORATORY	
ENGR 67300	MEDICAL ROBOTICS	
ENGR 67400	ROBOTICS: KINEMATICS AND DESIGN	
ENGR 68101	AUTONOMOUS UNMANNED AERIAL SYSTEMS	
Other courses with approval from advisor and graduate program representative		
Graduate Elective, choose from the following:		3
CS 53301	SOFTWARE DEVELOPMENT FOR ROBOTICS [1]	
CS 53334	HUMAN-ROBOT INTERACTION [1]	
CS 54201	ARTIFICIAL INTELLIGENCE [1]	
CS 54202	MACHINE LEARNING AND DEEP LEARNING [1]	
CS 64201	ADVANCED ARTIFICIAL INTELLIGENCE	
ENGR 52410	ENGINEERING OPTIMIZATION [1]	
ENGR 52710 & ENGR 52711	ADDITIVE MANUFACTURING AND 3D PRINTING and ADDITIVE MANUFACTURING AND 3D PRINTING LABORATORY [1]	
ENGR 58010	MACHINE VISION [1]	
ENGR 60030	QUANTITATIVE METHODS I	
ENGR 61096	INDIVIDUAL INVESTIGATION IN ENGINEERING	
ENGR 62620 & ENGR 62621	INDUSTRIAL AUTOMATION AND CONTROL and INDUSTRIAL AUTOMATION AND CONTROL LABORATORY	
ENGR 65270	HUMAN FACTORS ENGINEERING	
ENGR 65400	ADVANCED DYNAMICS	
ENGR 65401	VIBRATIONS	
ENGR 65501	ADVANCED FLUID MECHANICS	
ENGR 65502	COMPUTATIONAL FLUID DYNAMICS	
ENGR 67300	MEDICAL ROBOTICS	
ENGR 67400	ROBOTICS: KINEMATICS AND DESIGN	
ENGR 68004	OPTIMAL CONTROL THEORY	
ENGR 68006	NONLINEAR SYSTEMS AND CONTROL	
ENGR 68007	DIGITAL CONTROL SYSTEMS	
ENGR 68008	INTRODUCTION TO ROBUST CONTROL	
ENGR 68101	AUTONOMOUS UNMANNED AERIAL SYSTEMS	
ENGR 68102	INTELLIGENT SENSING AND PLANNING OF UNMANNED AERIAL SYSTEMS	
Other courses with approval from advisor and graduate program representative		
Mathematics Elective, choose from the following: [1,3]		3
MATH 50015	APPLIED STATISTICS	
MATH 52011	MATHEMATICAL OPTIMIZATION	
MATH 52031	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS	
MATH 52045	PARTIAL DIFFERENTIAL EQUATIONS	
MATH 52201	NUMERICAL LINEAR ALGEBRA	
MATH 52202	NUMERICAL APPROXIMATION AND OPTIMIZATION	
Culminating Requirement		
Choose from the following:		9
Thesis Option [4]		
ENGR 65098	RESEARCH	
ENGR 65199	THESIS I	
Non-Thesis Option [5]		
ENGR 65098	RESEARCH	
Graduate Electives (from courses listed above)		
Minimum Total Credit Hours:		**31**

1 Students who have completed the undergraduate equivalent of the graduate course may not take the graduate course toward the degree. Example, students who completed ENGR 42410 may not take ENGR 52410.

2 Students who completed ENGR 43030 may not take ENGR 53030 toward the degree. Instead, they must discuss an appropriate alternative with their advisor, to be approved by the graduate program representative.

3 Before registering for a mathematics (MATH) course, students must contact the Department of Mathematical Sciences to request a prerequisite override.

4 Students selecting the thesis option complete 3 credit hours of ENGR 65098 and must continually register for ENGR 65199 for maximum 6 credit hours toward the degree (students may need to register for ENGR 65299 to complete the thesis requirement; however, those credit hours do not, under any circumstances, count toward the degree).

5 Students selecting the non-thesis option complete 3 credit hours of ENGR 65098 and 6 credit hours from the elective options in the program. At minimum, the non-thesis activity requires a report and presentation and/or demonstration.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Conduct literature searches, comprehend advanced research materials and uncover connections between related work.
2. Perform research, discovery and integration by applying advanced knowledge of mechatronics engineering.
3. Communicate problems and solutions in mechatronics engineering clearly, both verbally and in writing.

Mechatronics Engineering - Ph.D.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Ph.D. degree in Mechatronics Engineering provides an advanced theoretical and/or research-oriented curriculum with significant depth in mechatronics-related discipline, beyond the general fundamentals of the engineering bachelor's degree.

Contact Information

- CAEgraduatestudies@kent.edu | 330-672-2892
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Engineering teachers, postsecondary

- 8.6% much faster than the average
- 44,600 number of jobs
- $103,600 potential earnings

Engineers, all other

- 1.3% slower than the average
- 170,100 number of jobs
- $103,380 potential earnings

Electronics engineers, except computer

- 1.4% slower than the average
- 134,900 number of jobs
- $107,540 potential earnings

Electrical engineers

- 4.6% about as fast as the average
- 193,100 number of jobs
- $100,830 potential earnings

Mechanical engineers

- 3.9% about as fast as the average
- 316,300 number of jobs
- $90,160 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's or master's degree in mechatronics engineering or closely related area (e.g., electrical engineering or mechanical engineering) from an accredited college or university
- Minimum 3.000 GPA on a 4.000-point scale
- Official transcript(s) from each institution in which 8+ semester credit hours were attempted
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ENGR 81091	GRADUATE SEMINAR (taken for 3 credit hours total)	3
Advisor-approved courses in or outside the College of Aeronautics and Engineering [1]		0-30
Major Electives, choose from the following:		18
Engineering		
ENGR 72410	ENGINEERING OPTIMIZATION	
ENGR 73030	MECHATRONICS	
ENGR 75270	HUMAN FACTORS ENGINEERING	
ENGR 75400	ADVANCED DYNAMICS	
ENGR 75401	VIBRATIONS	
ENGR 78005	LINEAR SYSTEM ANALYSIS AND CONTROL	
Control Systems		
ENGR 78006	NONLINEAR SYSTEMS AND CONTROL	
ENGR 78007	DIGITAL CONTROL SYSTEMS	
ENGR 78008	INTRODUCTION TO ROBUST CONTROL	
ENGR 88004	OPTIMAL CONTROL THEORY	
Robotics and Automation		
CS 73334	HUMAN-ROBOT INTERACTION	

ENGR 72620	INDUSTRIAL AUTOMATION AND CONTROL	
ENGR 77300	MEDICAL ROBOTICS	
ENGR 77400	ROBOTICS: KINEMATICS AND DESIGN	
ENGR 78101	AUTONOMOUS UNMANNED AERIAL SYSTEMS	
Machine Intelligence		
CS 74201	ADVANCED ARTIFICIAL INTELLIGENCE	
ENGR 78010	MACHINE VISION	
ENGR 78102	INTELLIGENT SENSING AND PLANNING OF UNMANNED AERIAL SYSTEMS	
Other courses with approval from advisor and graduate program representative		
Culminating Requirements		
ENGR 85098	RESEARCH (taken for 9 credit hours total)	9
ENGR 85199	DISSERTATION I [2]	30
Minimum Total Credit Hours for Post-Baccalaureate Students:		**90**
Minimum Total Credit Hours for Post-Master's Students:		**60**

[1] Post-baccalaureate students may apply toward the 30 credit hours a maximum 15 credit hours of coursework outside the College of Aeronautics and Engineering and 9 credit hours of research (maximum 18 credit hours total of research toward the degree).

[2] Each doctoral candidate, upon admission to candidacy, must register for ENGR 85199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for ENGR 85199, and thereafter ENGR 85299, each semester, until all requirements for the degree have been met. The dissertation is specialized research, leading to a definitive contribution to the candidate's research focus-area. This contribution should be of sufficient importance to warrant publication in a recognized journal. The candidate must successfully propose and defend their research dissertation in a public setting.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Conduct literature searches, comprehend advanced research materials and uncover connections between related work.
2. Perform research, discovery and integration by applying advanced knowledge of mechatronics engineering.
3. Communicate problems and solutions in mechatronics engineering clearly, both verbally and in writing.

Mechatronics Engineering Technology - B.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

Ready to design, build and optimize the smart systems driving the future of automation and robotics? The Mechatronics Engineering Technology program focuses on the applied integration of mechanical, electrical and computer systems to develop intelligent technologies for advanced manufacturing, autonomous systems and smart infrastructure. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Electrical and electronic engineering technologists and technicians

- 1.5% slower than the average
- 125,800 number of jobs
- $67,550 potential earnings

Electrical engineers

- 4.6% about as fast as the average
- 193,100 number of jobs
- $100,830 potential earnings

Electronics engineers, except computer

- 1.4% slower than the average
- 134,900 number of jobs
- $107,540 potential earnings

Electro-mechanical and mechatronics technologists and technicians

- 3.0% about as fast as the average
- 14,600 number of jobs
- $59,800 potential earnings

Industrial engineers

- 10.1% much faster than the average
- 295,800 number of jobs
- $88,950 potential earnings

Mechanical engineers

- 3.9% about as fast as the average
- 316,300 number of jobs
- $90,160 potential earnings

Additional Careers

- Application engineer (automation products)
- Controls engineer
- Field service engineer (automation or robotics)
- Industrial maintenance engineer

- Instrumentation and controls engineer
- Manufacturing systems engineer
- Product development engineer
- Programmable logic controller (PLC) programmer
- Quality control inspector
- Systems integration engineer
- Tooling engineer

Accreditation

The Bachelor of Science degree in Mechatronics Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org, under the General Criteria and the Program Criteria for Mechatronics Engineering Technology and Similarly Named Programs.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Mechatronics Engineering Technology major is selective.

New Students: Admission into this major requires a minimum 2.700 unweighted high school GPA. Students who do not meet this requirement will be admitted to the Industrial Engineering Technology major. Students may change their major to Mechatronics Engineering Technology after satisfying the below requirements for current students.

Note: Applicants should understand that this is a math-intensive program. Students admitted to the program are expected to demonstrate prerequisite knowledge on a math placement exam (the ALEKS exam) prior to starting their first semester. Students who do not obtain the minimum score required to place into MATH 11022 or MATH 12011 are at risk of delaying graduation.

Current Students: Students may change their major to Mechatronics Engineering Technology if they meet the following criteria:

- Minimum 2.500 overall Kent State GPA
- Minimum C grade in both ENGR 11001 and ENGR 11002
- Minimum C grade in either MATH 11022 or MATH 12011

Transfer Students: Transfer students must have completed minimum 12 credit hours of college-level coursework with a minimum 2.500 overall GPA for admission to the Mechatronics Engineering Technology major. Students with less than 12 credit hours completed will be evaluated based on their high school transcript using the criteria in the above "new student" section.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ENGR 11001	INTRODUCTION TO ENGINEERING	2
ENGR 11002	INTRODUCTION TO ENGINEERING LABORATORY	1
ENGR 13586 & ENGR 13587	COMPUTER AIDED DESIGN I and COMPUTER AIDED DESIGN I LABORATORY	3
or MERT 12001	COMPUTER-AIDED DESIGN	
ENGR 15302	MATLAB SKILLS FOR ENGINEERS	1
ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
ENGR 20002	MATERIALS AND PROCESSES	3
or MERT 12004	MANUFACTURING PROCESSES	
ENGR 23585	COMPUTER AIDED DESIGN II	3
ENGR 27210	INTRODUCTION TO SUSTAINABILITY	3
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 33032	PROGRAMMABLE LOGIC CONTROLLERS II	3
ENGR 33033	HYDRAULICS/PNEUMATICS	3
ENGR 33041	CONTROL SYSTEMS	3
ENGR 33111	STATICS AND STRENGTH OF MATERIALS	3-6
or MERT 22005 & MERT 22007	STATICS and STRENGTH OF MATERIALS	
ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	3
ENGR 33334	INDUSTRIAL ROBOTICS	1
ENGR 33335	INDUSTRIAL ROBOTICS LABORATORY	1
ENGR 33700	QUALITY TECHNIQUES	3
ENGR 35550	LAW AND ETHICS FOR ENGINEERS	2
ENGR 43030	MECHATRONICS	3
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
ENGR 43099	MECHATRONICS CAPSTONE (ELR) (WIC) [1,2]	3-6
or ENGR 48099 & ENGR 48199	ENGINEERING CAPSTONE I (ELR) and ENGINEERING CAPSTONE II (ELR) (WIC)	
ENGR 43580	COMPUTER-AIDED MACHINE DESIGN	3
ENGR 47200	SYSTEMS ENGINEERING	3
Electrical Circuits Electives, choose from the following:		4-7
EERT 12000 & EERT 12001	ELECTRIC CIRCUITS I and ELECTRIC CIRCUITS II	
ENGR 21020 & ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS and SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	
Programming Elective, choose from the following:		3-4
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
ENGR 26220 & ENGR 26222	PROGRAMMING FOR ENGINEERS and PROGRAMMING FOR ENGINEERS LABORATORY	
Technical Elective, choose from the following:		6
Any Aeronautics (AERN) course		

Any College of Aeronautics and Engineering (CAE) course		
Any Design Innovation (DI) course		
Any Engineering (ENGR) course		
Additional Requirements (courses do not count in major GPA)		
CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING [3]	1-3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) [4]	5
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) [4]	5
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
UC 10001	FLASHES 101	1
Mathematics Electives, choose from the following: [5]		6-8
MATH 11022 & MATH 12002	TRIGONOMETRY (KMCR) and ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12011 & MATH 12012	CALCULUS WITH PRECALCULUS I (KMCR) and CALCULUS WITH PRECALCULUS II (KMCR)	
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines) (cannot be ECON course)		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		8
Minimum Total Credit Hours:		**120**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

2 Students wishing to take the full-year capstone option (ENGR 48099 and ENGR 48199) must take the sequence during consecutive semesters. ENGR 48099 is only offered during the fall semester and ENGR 48199 is only offered during the spring semester.

3 Students scoring 34 or below on the ALEKS math assessment are required to enroll in CAE 12260 until they successfully complete MATH 00022.

4 Students wishing to change their major to Mechatronics Engineering **must** take PHY 23101 and PHY 23102. Failing to do so will result in additional coursework.

5 MATH 12011 and MATH 12012 are the preferred math electives for this program. However, students wishing to change their major to Mechatronics Engineering are encouraged to take MATH 11022 and MATH 12002.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING	1
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	ENGR 20002 or MERT 12004	MATERIALS AND PROCESSES or MANUFACTURING PROCESSES	3
	ENGR 27210	INTRODUCTION TO SUSTAINABILITY	3
	UC 10001	FLASHES 101	1
	Mathematics Elective		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
	ENGR 11001	INTRODUCTION TO ENGINEERING	2
	ENGR 11002	INTRODUCTION TO ENGINEERING LABORATORY	1
!	PHY 13001 & PHY 13021 or PHY 23101	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Mathematics Elective		3-5
	Programming Elective		3-4
		Credit Hours	**14**
	Semester Three		
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	ENGR 13586 & ENGR 13587 or MERT 12001	COMPUTER AIDED DESIGN I and COMPUTER AIDED DESIGN I LABORATORY or COMPUTER-AIDED DESIGN	3
	ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
!	PHY 13002 & PHY 13022 or PHY 23102	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	ENGR 15302	MATLAB SKILLS FOR ENGINEERS	1
	ENGR 23585	COMPUTER AIDED DESIGN II	3
	ENGR 33033	HYDRAULICS/PNEUMATICS	3
	Electrical Circuits Electives		4-7
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**17**
	Semester Five		
	ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
	ENGR 33041	CONTROL SYSTEMS	3
	ENGR 33111 or MERT 22005 ***and*** MERT 22007	STATICS AND STRENGTH OF MATERIALS or STATICS ***and*** STRENGTH OF MATERIALS	3-6
	ENGR 33700	QUALITY TECHNIQUES	3

	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	ENGR 33032	PROGRAMMABLE LOGIC CONTROLLERS II	3
	ENGR 33334	INDUSTRIAL ROBOTICS	1
	ENGR 33335	INDUSTRIAL ROBOTICS LABORATORY	1
	ENGR 47200	SYSTEMS ENGINEERING	3
	Technical Elective		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Seven		
	ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	3
	ENGR 35550	LAW AND ETHICS FOR ENGINEERS	2
	ENGR 43030	MECHATRONICS	3
	ENGR 43580	COMPUTER-AIDED MACHINE DESIGN	3
	ENGR 48099	ENGINEERING CAPSTONE I (ELR)	3
	or General Elective		
		Credit Hours	**14**
	Semester Eight		
	ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
	ENGR 43099 or ENGR 48199	MECHATRONICS CAPSTONE (ELR) (WIC) or ENGINEERING CAPSTONE II (ELR) (WIC)	3
	Technical Elective		3
	Kent Core Requirement		3
	General Elective		2
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge, techniques, skills and modern tools of mathematics, science, engineering and technology to solve broadly defined engineering problems appropriate to the discipline.
2. Design systems, components or processes meeting specified needs for broadly defined engineering problems appropriate to the discipline.
3. Apply written, oral and graphical communication in broadly defined technical and non-technical environments, and an ability to identify and use appropriate technical literature.
4. Conduct standard tests, measurements and experiments and analyze and interpret the results to improve processes.
5. Function effectively as a member as well as a leader on technical teams.

The educational objectives of the program are the following:

1. Drive positive change in the community by engaging in careers in the areas of mechatronics, automation, systems and other engineering technology fields in a robust manner that promotes excellence and integrity.
2. Practice forward-thinking through continued education by way of professional development, graduate education and other continued self-motivated learning.
3. Successfully navigate the ever-changing trajectory of the world, practicing compassion as you strive to meet your personal and professional goals.

Full Description

The Bachelor of Science degree in Mechatronics Engineering Technology successfully prepares graduates with knowledge across engineering disciplines for professional careers in mechatronics, controls, robotics, automation and related technological fields that provide solutions addressing societal needs and challenges. The program integrates mechanical, electrical, computer and controls. Mechatronics engineering technology revolves around the design, construction and operation of automated systems, robots and intelligent products, which result from the integration of software and hardware.

Using automated systems is becoming more popular for operating equipment/machinery in a host of situations, including on assembly and manufacturing lines, on automobiles and aircraft and in electrical power generations to reduce labor costs, increase precision and accuracy and provide quality and safety for workers.

Graduates from the mechatronics engineering technology program manage and support the design, operation and analysis of mechanical and electrical devices connected with automated systems, robots and computer-integrated manufacturing. They can work in any company that develops, designs or manufactures and markets these devices. Opportunities exist in manufacturing sales as well as research.

Applicants to this program should understand that this is a math-intensive program.

Students may apply early to the Master of Engineering Technology degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Professional Pilot - B.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

Ready to train as a professional pilot with a program built on precision and performance? The Professional Pilot program combines FAA-approved coursework with advanced flight training in Kent State's university-owned fleet and integrated simulators, preparing students for careers in commercial, corporate, military and specialized aviation operations. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Airline pilots, copilots, and flight engineers

- 2.8% slower than the average
- 85,500 number of jobs
- $160,970 potential earnings

Commercial pilots

- 9.1% much faster than the average
- 41,600 number of jobs
- $93,300 potential earnings

Additional Careers

- Aerial applicator/aerial crop duster/agriculture pilot
- Aerial hurricane hunter
- Air force pilot
- Air tour pilot
- Airline and commercial pilot
- Airline transport pilot
- Charter/private airline pilot
- Federal law enforcement pilot
- Fixed wing air ambulance captain - Emergency Medical Service (EMS)
- Flight dispatcher (with training/certification)
- Flight instructor

Accreditation

The B.S. degree in Professional Pilot is accredited by the Aviation Accreditation Board International, Federal Aviation Administration.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Professional Pilot major is selective.

All students must complete a pre-admission evaluation to be considered for admission. Students applying to the Professional Pilot major and receiving admission to Kent State University will be placed into the Aeronautical Studies major, allowing students to begin any scholarship or financial aid applications while waiting for the final decision regarding the Professional Pilot major. Please see the College of Aeronautics and Engineering for additional information.

Transfer students must have a minimum 2.500 overall GPA in all college-level coursework to be considered for admission to the Professional Pilot major.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Flight Training Courses: Transfer students and students admitted to the Professional Pilot major with credits completed through College Credit Plus or other means may be allowed to enroll in flight training courses only with special permission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
AERN 15000	INTRODUCTION TO AERONAUTICS	3
AERN 15740	ELEMENTS OF FLIGHT THEORY (min C grade)	5

or AERN 15750 & AERN 15752	ELEMENTS OF FLIGHT THEORY I and ELEMENTS OF FLIGHT THEORY II	
AERN 15751	PRIVATE PILOT FLIGHT I (min C grade)	2
AERN 15753	PRIVATE PILOT FLIGHT II (min C grade)	3
AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25252	THUNDERSTORMS AND SEVERE WEATHER	3
AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 35020	AIRCRAFT PROPULSION SYSTEMS	3
AERN 35040	AIRCRAFT SYSTEMS I	3
AERN 35150	AIRCRAFT STRUCTURES	3
or AERN 45730	APPLIED TRANSPORT CATEGORY AIRCRAFT SYSTEMS	
or AERN 45740	FLIGHT MANAGEMENT SYSTEMS	
AERN 35660	INSTRUMENT FLIGHT THEORY (min C grade)	3
AERN 35661	INSTRUMENT PILOT FLIGHT (min C grade)	3
AERN 35665	COMMERCIAL PILOT FLIGHT: NAVIGATION (min C grade)	3
AERN 35760	COMMERCIAL PILOT THEORY (min C grade)	2
AERN 35761	COMMERCIAL PILOT FLIGHT (min C grade)	3
AERN 45030	AIRCRAFT SYSTEMS II	3
AERN 45130	PHYSIOLOGY AND HUMAN FACTORS IN AVIATION	3
AERN 45135	AVIATION SAFETY THEORY	3
AERN 45150	APPLIED FLIGHT DYNAMICS I	3
AERN 45250	AVIATION LAW	3
AERN 45550	MULTI-ENGINE PILOT - THEORY (min C grade)	1
AERN 45551	MULTI-ENGINE PILOT - FLIGHT (min C grade)	1
AERN 45648	THEORY OF FLIGHT INSTRUCTION (ELR) (min C grade)	3
AERN 45649	FLIGHT INSTRUCTOR - AIRPLANES (min C grade)	3
AERN 45660	FLIGHT INSTRUCTOR - INSTRUMENTS THEORY (min C grade)	1
AERN 45661	FLIGHT INSTRUCTOR - INSTRUMENTS FLIGHT (min C grade)	1
AERN 45710	TURBINE ENGINE THEORY AND OPERATION	2
AERN 45720	CREW RESOURCE MANAGEMENT	2
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC) [1]	3
Additional Requirements (courses do not count in major GPA)		
CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING [2]	1-3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13012	COLLEGE PHYSICS II (KBS)	2
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Minimum Total Credit Hours:		**121**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

2 Students scoring 34 or below on the ALEKS math assessment are required to enroll in CAE 12260 until they successfully complete MATH 00022.

Progression Requirements

Successful completion of the Professional Pilot major is an achievable goal for students who stay on track with the program's structured progression. The college support students in maintaining academic standing, obtaining and retaining appropriate medical clearance and successfully meeting course requirements. While challenges may arise, students are encouraged to use available resources and support systems to address them.

Flight Training Ground and Theory Courses

Students must pass all required flight training and associated flight theory courses with a minimum C grade and maintain a minimum 2.500 overall GPA. These courses may **not** be repeated without special approval.

Beyond AERN 15751, all students are required to maintain a minimum 2.500 overall GPA to continue in flight courses. Students must complete all flight courses by the end of the semester following the semester in which they enrolled (e.g., a student who enrolls in a flight course in the fall must complete the course no later than the end of the following spring semester). This requirement is subject to waiver by the chief flight instructor assigned to the flight course. In the absence of an authorized waiver, students who fail to complete any flight course by the end of the subsequent semester after course enrollment will receive the F grade. Flight fees will be refunded in accordance with the university policy regarding tuition credit for dropped courses.

Students must complete the commercial certificate and instrument rating at Kent State to be eligible for the FAA's R-ATP certificate.

Medical Requirements

Pilot certification dictates that certain medical standards be met. As such, all students are required to obtain and maintain FAA medical certification for program eligibility. While it is encouraged for all students to obtain first-class medical certification, all students starting in the Private Pilot Flight courses are required to obtain a minimum third-class medical certification. All flight courses beyond Private Pilot Flight require a minimum second-class medical certification.

Students admitted to the Professional Pilot major must have a medical in hand (minimum third class) before the start of their first flight course, but no later than the end of their first semester. If the medical is deferred (in progress by the FAA), students will have two full semesters to obtain the medical from the initial date their medical was deferred.

Continuing students who have their medical certificate deferred, suspended or revoked will be placed in a medical probationary status and have two full semesters to re-obtain medical clearance. If their medical clearance is not obtained by the end of the second semester, they must change their program to the Aeronautical Studies major.

Progression Ineligibility

A minimum 2.500 major GPA and overall 2.500 GPA is required for the Professional Pilot major. Students who fall below the minimum GPA will have two semesters to raise their GPA to the required minimum level.

Students may become ineligible to continue in the Professional Pilot major and be advised to change their program to the Aeronautical Studies major if any of the following occur:

1. Failure to to raise their major and/or overall GPA to the minimum required;
2. Failure to obtain or retain an appropriate level of medical clearance;
3. Failure of either an FAA-regulated flight theory course or a flight course; and/or
4. Failure to comply with Kent State Code of Student Conduct, Federal Aviation Regulations and policies outlined in the Kent State University Flight Operations Manual.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Flight courses may be repeated once with permission.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	AERN 15000	INTRODUCTION TO AERONAUTICS	3
	CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING	1
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
	Requirement: Students must have a 2.500 overall GPA prior to taking flight training courses.		
	AERN 15740 or AERN 15750	ELEMENTS OF FLIGHT THEORY or ELEMENTS OF FLIGHT THEORY I	3-5
	AERN 15751	PRIVATE PILOT FLIGHT I	2
!	AERN 25250	ELEMENTS OF AVIATION WEATHER	3
	AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
	AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
!	MATH 11022	TRIGONOMETRY (KMCR)	3
		Credit Hours	**14**
	Semester Three		
	AERN 15752	ELEMENTS OF FLIGHT THEORY II (required for students who took AERN 15750)	0-2
	AERN 15753	PRIVATE PILOT FLIGHT II	3
	AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
!	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
!	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
	AERN 25252	THUNDERSTORMS AND SEVERE WEATHER	3
!	AERN 35020	AIRCRAFT PROPULSION SYSTEMS	3
	AERN 35660	INSTRUMENT FLIGHT THEORY	3
	AERN 35661	INSTRUMENT PILOT FLIGHT	3
!	PHY 13012	COLLEGE PHYSICS II (KBS)	2
!	PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
		Credit Hours	**15**
	Semester Five		
	AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
!	AERN 35040	AIRCRAFT SYSTEMS I	3
	AERN 35665	COMMERCIAL PILOT FLIGHT: NAVIGATION	3
!	AERN 45150	APPLIED FLIGHT DYNAMICS I	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Six		
	AERN 35760	COMMERCIAL PILOT THEORY	2
	AERN 35761	COMMERCIAL PILOT FLIGHT	3
!	AERN 45030	AIRCRAFT SYSTEMS II	3
!	AERN 45130	PHYSIOLOGY AND HUMAN FACTORS IN AVIATION	3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Seven		
!	AERN 45250	AVIATION LAW	3
!	AERN 45720	CREW RESOURCE MANAGEMENT	2
	AERN 45648	THEORY OF FLIGHT INSTRUCTION (ELR)	3
	AERN 45649	FLIGHT INSTRUCTOR - AIRPLANES	3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Eight		
	AERN 35150 or AERN 45730 or AERN 45740	AIRCRAFT STRUCTURES or APPLIED TRANSPORT CATEGORY AIRCRAFT SYSTEMS or FLIGHT MANAGEMENT SYSTEMS	3
	AERN 45135	AVIATION SAFETY THEORY	3
!	AERN 45710	TURBINE ENGINE THEORY AND OPERATION	2
!	AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
	AERN 45550	MULTI-ENGINE PILOT - THEORY	1
	AERN 45551	MULTI-ENGINE PILOT - FLIGHT	1
	AERN 45660	FLIGHT INSTRUCTOR - INSTRUMENTS THEORY	1
	AERN 45661	FLIGHT INSTRUCTOR - INSTRUMENTS FLIGHT	1
		Credit Hours	**15**
		Minimum Total Credit Hours:	**121**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the knowledge, skills and techniques required to safely operate in single-pilot or multi-crew aircraft operations under FAR Parts 121, 135, 91K and other commercial aviation operations.
2. Analyze available information and problem solve as part of an aircrew, with respect to aircraft operation, airline operations, physiology, safety and emergency or challenging situations.
3. Demonstrate the skills of an aviation professional, make ethical decisions and correlate aviation business principles to operations.
4. Demonstrate instructional level knowledge and skills in application to single-engine and multi-engine flight, Visual Flight Rules (VFR) or Instrument Flight Rules (IFR).

The educational goals of the program are the following:

1. Exhibit the qualities of excellence, integrity, leadership, management and professionalism within their area of professional specialization in aviation.
2. Demonstrate a professional commitment to safety and contribute to the safety culture within their area of professional specialization in aviation.
3. Demonstrate the ability to improve aerospace for generations to come through experiential learning, creativity and innovation within their area of professional specialization in aviation.
4. Manifest the college's core values in the areas of collaboration, compassion, inclusiveness, innovation, integrity, respect and perseverance within their area of professional specialization in aviation.

Full Description

The Bachelor of Science degree in Professional Pilot is designed for students who aspire to become professional pilots. This program stresses subjects associated with flight systems, propulsion, structures and electronics. Students entering this program should have a strong desire for excellence in aviation, as well as the flying skills required of a professional pilot.

The mission of the Professional Pilot major is to prepare students to be professional pilots and enable them to obtain Federal Aviation Administration certificates and ratings required for giving flight and ground instruction and commercial and instrument operations in federally regulated commercial aviation operations.

Professional Pilot - Minor

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Professional Pilot minor is for students who want to learn to fly but are not necessarily interested in a career as a professional pilot. Upon completion, students are expected to have the Commercial Pilot certificate with instrument rating.

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

The Professional Pilot minor is not accepting students at this time.

Admission Requirements

The Professional Pilot minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
AERN 15740	ELEMENTS OF FLIGHT THEORY	5
or AERN 15750 & AERN 15752	ELEMENTS OF FLIGHT THEORY I and ELEMENTS OF FLIGHT THEORY II	
AERN 15751	PRIVATE PILOT FLIGHT I	2
AERN 15753	PRIVATE PILOT FLIGHT II	3
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 35660	INSTRUMENT FLIGHT THEORY	3
AERN 35661	INSTRUMENT PILOT FLIGHT	3
AERN 35665	COMMERCIAL PILOT FLIGHT: NAVIGATION	3
AERN 35760	COMMERCIAL PILOT THEORY	2
AERN 35761	COMMERCIAL PILOT FLIGHT	3
Minimum Total Credit Hours:		**27**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a thorough understanding of fundamental aeronautical concepts and practices.
2. Understand attributes of a modern aviation professional.
3. Possess the knowledge and skills to obtain the Commercial Pilot certificate to be eligible for professional work as a commercial pilot.
4. Possess the knowledge and skills to obtain a Commercial Pilot Airplane Multiengine Land with instrument rating.

Safety, Quality and Lean in Manufacturing - Minor

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Safety, Quality and Lean in Manufacturing minor provide students the opportunity to study quality techniques, aspects of establishing lean enterprises and workplace safety and accident analysis.

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

The Safety, Quality and Lean in Manufacturing minor is not accepting students at this time.

Admission Requirements

The Safety, Quality and Lean in Manufacturing minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
AERN 45135	AVIATION SAFETY THEORY	3
CMGT 11044	CONSTRUCTION SAFETY	3
ENGR 33700	QUALITY TECHNIQUES	3
ENGR 35765	QUALITY AND RELIABILITY ENGINEERING	3
ENGR 40003	LEAN SIX SIGMA	3
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Sustainability - Minor

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Sustainability minor provides students a basic knowledge of sustainability and allows them to address a specific area within

sustainability. The minor consists of basic courses addressing the three main components of sustainability and an integrated series of advanced courses related to applications of this basic principle.

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ENGR 27210	INTRODUCTION TO SUSTAINABILITY	3
CAE 45092	AERONAUTICS AND ENGINEERING INTERNSHIP/COOPERATIVE EDUCATION (ELR) (WIC) [1]	1-3
Basic-Level Electives, choose from the following:		6
BSCI 10002	LIFE ON PLANET EARTH (KBS)	
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
ENVS 22070	NATURE AND SOCIETY (KSS)	
FDM 10043	SUSTAINABLE FASHION THINKING	
FDM 10044	SUSTAINABLE FASHION THINKING LABORATORY	
GEOG 10160	INTRODUCTION TO GEOGRAPHY	
MGMT 24163	PRINCIPLES OF MANAGEMENT	
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	
Advanced-Level Electives, choose from the following:		9
ARCS 30421	ENVIRONMENTAL IMPERATIVES	
ARCH 40501	ENVIRONMENTAL TECHNOLOGY I	
BA 44062	SUPPLY CHAIN MANAGEMENT	
ECON 32084	ECONOMICS OF THE ENVIRONMENT	
ENGR 47210	SUSTAINABLE ENERGY I	
ENGR 47211	SUSTAINABLE ENERGY II	
GEOG 36065	CITIES AND URBANIZATION (DIVG)	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 41800	GLOBAL ENVIRONMENTAL ISSUES	
GEOG 46060	FOOD SECURITY AND SUSTAINABILITY	
GEOG 46080	URBAN SUSTAINABILITY	
MGMT 44009	THE BUSINESS CASE FOR SUSTAINABILITY	
RPTM 36083	ENVIRONMENTAL EDUCATION AND CONSERVATION	
Minimum Total Credit Hours:		**19**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the concepts of sustainability, including the three pillars of economic growth, environmental protection and social equality.
2. Apply aspects of sustainability to their field of study.

Technology - Minor

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Technology minor provides students with a broad introduction to the fundamentals of applied engineering.

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

The Technology minor is not accepting students at this time.

Admission Requirements

The Technology minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ENGR 13586	COMPUTER AIDED DESIGN I	2
ENGR 13587	COMPUTER AIDED DESIGN I LABORATORY	1
ENGR 20002	MATERIALS AND PROCESSES	3
ENGR 21020	SURVEY OF ELECTRICITY AND ELECTRONICS	3
ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	1
ENGR 47210	SUSTAINABLE ENERGY I	3
Engineering Elective, choose from the following:		3
CAE 22095	SPECIAL TOPICS IN AERONAUTICS AND ENGINEERING	
CAE 35095	SPECIAL TOPICS IN AERONAUTICS AND ENGINEERING	
ENGR 31016	MANUFACTURING TECHNOLOGY	
ENGR 31065	CAST METALS	
ENGR 33700	QUALITY TECHNIQUES	
ENGT 33095	SPECIAL TOPICS IN ENGINEERING TECHNOLOGY	
PHY 32511	ELECTRONICS	
PHY 45201	ELECTROMAGNETIC THEORY	
Minimum Total Credit Hours:		**16**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Communicate with technical and non-technical colleagues.
2. Appreciate the impact of technology on civilization.

Unmanned Aircraft Systems - Minor

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

The Unmanned Aircraft Systems minor introduces students to various types of unmanned aerial systems and their increasing role in today's society. Using a systems engineering perspective, students study roles and applications of unmanned aerial systems and apply their knowledge to the development of sensors, control, communications and flight operations. Students will also become an FAA certificated drone pilot.

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25800	INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS	3
AERN 35810	UNMANNED AIRCRAFT SYSTEMS	3
AERN 35830	UNMANNED AIRCRAFT SYSTEMS SENSING AND SENSOR SYSTEMS	3
AERN 35840	UNMANNED AIRCRAFT SYSTEMS COMMAND, CONTROL AND COMMUNICATIONS	3
AERN 45800	UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS THEORY	4
Minimum Total Credit Hours:		**19**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze various aspects of unmanned aerial systems operations, including safety, certification, applications, trends, regulations and performance.
2. Analyze the system components of unmanned aerial systems.
3. Determine the communication and control systems necessary for unmanned aerial systems platform operations.

Unmanned Aircraft Systems Flight Operations - B.S.

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program

Ready to pilot the systems that are reshaping how industries respond, deliver and connect? The Unmanned Aircraft Systems Flight Operations program combines hands-on drone training with expertise in airspace integration, policy and real-world mission planning, preparing students to lead in industries like public safety, agriculture, infrastructure, logistics and advanced air mobility. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Compliance officers

- 4.6% about as fast as the average
- 337,600 number of jobs
- $71,100 potential earnings

Surveying and mapping technicians

- 0.7% little or no change
- 58,400 number of jobs
- $46,200 potential earnings

Additional Careers

- Airborne sensor operator
- (Drone) film and video editor and camera operator
- (Drone) photographer
- Regulatory and safety compliance
- UAS compliance officer
- UAS flight operations manager
- UAS pilot/remote pilot
- UAS program manager
- UAS safety inspector
- UAS systems integrator

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer Students: Transfer students must have a minimum 2.250 overall GPA in all college-level coursework for admission to the Unmanned Aircraft Systems Flight Operations major.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
AERN 15000	INTRODUCTION TO AERONAUTICS	3
AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	3
AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
AERN 25800	INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS	3

AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 35020	AIRCRAFT PROPULSION SYSTEMS	3
AERN 35040	AIRCRAFT SYSTEMS I	3
AERN 35250	UNMANNED AIRCRAFT SYSTEMS LAW AND REGULATIONS	2
AERN 35650	NON-PILOT INSTRUMENT FLIGHT THEORY	3
AERN 35810	UNMANNED AIRCRAFT SYSTEMS	3
AERN 35830	UNMANNED AIRCRAFT SYSTEMS SENSING AND SENSOR SYSTEMS	3
AERN 35840	UNMANNED AIRCRAFT SYSTEMS COMMAND, CONTROL AND COMMUNICATIONS	3
AERN 35892	SMALL UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM (ELR)	2
AERN 45030	AIRCRAFT SYSTEMS II	3
AERN 45130	PHYSIOLOGY AND HUMAN FACTORS IN AVIATION	3
AERN 45135	AVIATION SAFETY THEORY	3
AERN 45150	APPLIED FLIGHT DYNAMICS I	3
AERN 45250	AVIATION LAW	3
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC) [1]	3
AERN 45800	UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS THEORY	4
AERN 45892	UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM (ELR)	2
ENGR 45151	APPLIED FLIGHT DYNAMICS II	3
Aeronautics (AERN) Electives		6
Additional Requirements (courses do not count in major GPA)		
CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING [2]	1-3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13012	COLLEGE PHYSICS II (KBS)	2
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		6
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Students scoring 34 or below on the ALEKS math assessment are required to enroll in CAE 12260 until they successfully complete MATH 00022.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
AERN 15000	INTRODUCTION TO AERONAUTICS	3
AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	3
AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
AERN 25800	INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS	3
CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
	Credit Hours	**17**
Semester Two		
MATH 11022	TRIGONOMETRY (KMCR)	3
Aeronautics (AERN) Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 35650	NON-PILOT INSTRUMENT FLIGHT THEORY	3
AERN 35810	UNMANNED AIRCRAFT SYSTEMS	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
AERN 35830	UNMANNED AIRCRAFT SYSTEMS SENSING AND SENSOR SYSTEMS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
General Elective		3
	Credit Hours	**14**
Semester Five		
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 35020	AIRCRAFT PROPULSION SYSTEMS	3
AERN 45130	PHYSIOLOGY AND HUMAN FACTORS IN AVIATION	3
PHY 13012	COLLEGE PHYSICS II (KBS)	2
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Six		
AERN 35040	AIRCRAFT SYSTEMS I	3

AERN 35892	SMALL UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM (ELR)	2
AERN 45150	APPLIED FLIGHT DYNAMICS I	3
Aeronautics (AERN) Elective		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Seven		
AERN 35840	UNMANNED AIRCRAFT SYSTEMS COMMAND, CONTROL AND COMMUNICATIONS	3
AERN 45030	AIRCRAFT SYSTEMS II	3
AERN 45135	AVIATION SAFETY THEORY	3
AERN 45250	AVIATION LAW	3
ENGR 45151	APPLIED FLIGHT DYNAMICS II	3
	Credit Hours	**15**
Semester Eight		
AERN 35250	UNMANNED AIRCRAFT SYSTEMS LAW AND REGULATIONS	2
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
AERN 45800	UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS THEORY	4
AERN 45892	UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM (ELR)	2
General Elective		3
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a comprehensive understanding of unmanned aircraft systems (UAS), including their design, operation and maintenance.
2. Demonstrate the ability to effectively plan, execute and manage UAS missions for a variety of applications, ensuring optimal performance, data accuracy and safety.
3. Interpret and apply current and future regulations related to airspace, privacy, safety and data protection.
4. Demonstrate and employ critical thinking and problem-solving techniques when unexpected issues arise to make informed decisions, adapt strategies and ensure the successful completion of missions while prioritizing safety and mission goals.

The educational goals of the program are the following:

1. Exhibit the qualities of excellence, integrity, leadership, management and professionalism within their area of professional specialization in aviation.
2. Demonstrate a professional commitment to safety and contribute to the safety culture within their area of professional specialization in aviation.
3. Demonstrate the ability to improve aerospace for generations to come through experiential learning, creativity and innovation within their area of professional specialization in aviation.
4. Manifest the college's core values in the areas of collaboration, compassion, inclusiveness, innovation, integrity, respect and perseverance within their area of professional specialization in aviation.

Full Description

The Bachelor of Science degree in Unmanned Aircraft Systems Flight Operations is for students who aspire to become professional unmanned aircraft pilots (drone pilot). This program is focused on the safe operations of unmanned aircraft systems (UAS), regulations, the technology of autonomous systems and policies regarding the operations of unmanned aerial elements.

The mission of the Bachelor of Science degree in Unmanned Aircraft Systems Flight Operations, as a Federal Aviation Administration (FAA) Collegiate Training Institution for UAS (UAS-CTI), is to cultivate a new generation of professionals equipped with the knowledge, skills and technological awareness to excel in the dynamic field of unmanned aviation, and provide students with a comprehensive education that combines cutting-edge technological expertise with a deep understanding of the regulatory, operational and safety considerations essential to the responsible and effective use of unmanned aircraft systems and advanced air mobility (AAM).

College of Applied and Technical Studies

College of Applied and Technical Studies
cats@kent.edu
www.kent.edu/cats

Undergraduate Programs

- Accounting Technology - A.A.B.
- Animation Game Design - B.S.
- Associate of Arts
- Associate of Science
- Business Management Technology - A.A.B.
- Criminology and Justice Studies - A.A.S.
- Cybersecurity - A.A.B.
- Early Years Education and Care - A.A.S.
- Electrical/Electronic Engineering Technology - A.A.S.
- Engineering Technology - B.S.
- Horticulture - B.A.H.
- Horticulture Technology - A.A.S.
- Human Services - A.A.S.
- Individualized Program - A.T.S
- Information Technology - A.A.B.
- Information Technology - B.S.I.T.
- Insurance Studies - B.S.
- Mechanical Engineering Technology - A.A.S.
- Nursing ADN - A.A.S.
- Occupational Therapy Assistant - A.A.S.
- Office Technology - A.A.B.
- Physical Therapist Assistant Technology - A.A.S.
- Radiologic Imaging Sciences - B.R.I.T.
- Radiologic Technology - A.A.S.
- Radiologic Technology - A.T.S.
- Respiratory Care - B.S.
- Respiratory Therapy - A.A.S.
- Social Work - B.S.W.
- Technical and Applied Studies - B.T.A.S.
- Technical Modeling Design - A.A.S.
- Veterinary Technology - A.A.S.

Minors

- Computer Forensics and Security
- Game Design
- Help Desk Support
- Insurance Studies
- Modeling and Animation
- Software Development

Undergraduate Certificates

- Advanced Semiconductor Manufacturing Technician
- Brewing Technology
- CAD for Manufacturing
- Computed Tomography
- Computer Forensics and Information Security
- Computer-Aided Drafting: Design Technician
- Enology
- Entrepreneurship
- Essentials for Business Decision Making
- Floriculture
- Greenhouse Production
- Magnetic Resonance Imaging
- Mammography
- Medical Assisting
- Medical Billing
- Office Software Applications
- Peace Officers Training Academy
- Semiconductor Manufacturing Technician
- Viticulture

College Policies

NURSING ADN

Program and Course Withdrawal

Students withdrawing from the Nursing ADN major are expected to notify the program director. Students who do not register for any required course or drop any required course after registration should notify the program director immediately.

Program Time Limits

Student must complete the nursing course requirements within a maximum of four years after admission to the nursing program. Students are strongly advised to avoid a full-time work schedule.

For students previously in the Nursing ADN major who re-enter as a licensed practical nurse (LPN) or certified paramedic, their four-year limit begins the the term they start the NRST course sequence.

Readmission

Readmission to the Nursing ADN major is based on the decision of the Readmission Committee and seat availability. Readmission is not guaranteed to any student.

Students who left the major before earning the degree and are now a licensed practical nurse (LPN) or a certified paramedic may request readmission through the Advanced Placement Policies for LPNs and Paramedics.

Eligibility for Readmission

To be eligible for readmission, students must satisfy the following requirements:

- Meet with the Nursing ADN program director as soon as possible — after the end of the semester in which the student withdrew or

failed and prior to the start of the next semester — to discuss the readmission process and policies.
- Hold a minimum 2.000 overall GPA from Kent State University.
- Submit a formal request in writing to the Nursing ADN program director. The submission deadlines are:
  - June 1 for returning in the fall semester
  - November 1 for returning in the spring semester at the East Liverpool and Tuscarawas campuses and the Twinsburg Academic Center
  - December 31 for returning in the spring semester at the Ashtabula Campus
  - March 1 for returning in the summer term
- Submit a detailed plan for academic success. The plan must address, in detail, why the student was not successful during the previous attempt, and how the student intends to be successful if readmitted. The student must sign the plan; it will become a contract that the student must follow throughout the remainder of the nursing program.
- For readmitted students who have been out of the program more than one semester: Follow the Nursing Clinical Requirements Policy for Readmitted Students.
- For readmitted students who have been out of the program more than one semester: Demonstrate satisfactory performance of previously learned skills. Students will have three attempts to demonstrate competency. The deadline for completing these skills as required are:
  - July 1 for returning in the fall semester
  - December 1 for returning in the spring semester
  - April 1 for returning in the summer term

After Readmission

- Readmitted students who fail an NRST course may reapply for readmission to the nursing program one time only.
- Any readmitted student who fails to meet the program's progression requirements a second time will not be permitted to continue in the program and will not be eligible to begin another NRST course or be eligible to reapply for readmission.
- Readmitted students are responsible for following the Kent State University Associate Degree Nursing Student Handbook in effect at the time of readmission and changing to the current catalog year.

RESPIRATORY THERAPY Readmission

Students seeking readmission to the A.A.S. degree in Respiratory Therapy must submit a written request to the program director. A minimum 2.000 overall GPA from Kent State University is required for readmission. The decision of readmission is made by the Admission/Readmission Committee and may be based on seat availability.

Students seeking readmission to the program must complete the following:

1. Provide documentation of a current two-step Mantoux test and Basic Life Support (BLS) for Healthcare Providers card.
2. Repeat their BCI/FBI background check, drug testing and either retest or meet all other requirements as outlined in the Progression Requirements.
3. Re-demonstrate previously learned skills prior to entering clinical sites at the discretion of the instructor. Scheduling of re-demonstration of skills must be discussed with the program director prior to re-entering the program.

Students in the withdrawn or failed category will be removed from the status of "Admitted to Technical Study" until they meet all readmission requirements.

Any student who fails to meet the program's requirements a second time will be dismissed from the program and will not be able to register for future RESP courses or be eligible for readmission.

Students who are entering the program for the second time after withdrawing during their first or second semester for non-academic reasons may be excluded from the program completion time limit (three years) and re-start the program as a new student. For more information, see the Program Requirements Completion policy.

Remediation

Competencies in the Clinical Setting

Remediation begins after students who have passed a competency in the laboratory setting but failed the same competency after three attempts in the clinical setting with a clinical instructor. The director of clinical education will re-instruct students in the proper technique and complete remediation documentation with the students. Students are given two weeks to practice and prepare for re-demonstration of the competency. Students will then re-test with a program instructor in the laboratory setting.

- Students who fail the competency at this time will receive an F grade for the course.
- Students who pass the competency will return to the clinical site for demonstrate the competency with a clinical instructor or preceptor. Students will again have three attempts. Students who are unable to pass the competency in the clinical setting a second time will receive an F grade for the course.

Clinical instructors or preceptors will make every effort to complete required competencies with students and make referrals before the last two weeks of the semester.

Competencies in the Laboratory Setting

Students will be remediated in accordance with their course syllabus. Students who fail any competency in the laboratory setting for the third time must meet with the program director prior to attempting the competency for the fourth time.

Time Limits

All students enrolled in the program have a maximum of two years to complete all program requirements. This is inclusive of students in the withdrawn or failed category or status. Students who are entering the program for the second time after withdrawing during their first or second semester for non-academic reasons may be excluded from this and re-start the program as a new student. For more information on re-starting the program, see the Readmission Policy.

College of Applied and Technical Studies Faculty

- Alicea, Megan R. (2013), Associate Lecturer, M.E.T. , Boise State University, 2015

- Andreas, Sarah E. (2020), Assistant Professor, Ph.D., Johnson Bible College, 2019
- Antenucci, Robert P. (2005), Associate Professor, Ph.D., Kent State University, 2013
- Armstrong, Lori (2011), Lecturer, B.A., Kent State University, 2014
- Baker, John J. (2012), Associate Lecturer, M.S., La Roche College, 1990
- Barcus, Laurie D. (2005), Senior Lecturer, M.S.N., University of Phoenix, 2006
- Bears, Lorraine E. (1999), Senior Lecturer, M.Tech., Kent State University, 2004
- Beck, Stacy J. (2008), Senior Lecturer, M.P.H., Kent State University, 2004
- Berlin, Kingsly T. (2013), Associate Lecturer, B.S., The Ohio State University, 2005
- Berndsen, Michelle (2024), Lecturer, M.S.N., Kent State University, 2019
- Blake, Robert M. (2003), Lecturer, M.S., Duke University, 1994
- Bonaduce, Samantha J. (2012), Associate Lecturer, M.S.N., Kent State University, 2015
- Brindley, Meghan A. (2023), Lecturer, M.Ed., University of Cincinnati, 2017
- Burkholder, Maria R. (2006), Senior Lecturer, B.S., The Ohio State University, 2001
- Burnworth, Christina M. (1995), Associate Lecturer, M.Tech., Kent State University, 2006
- Butler, Matt A. (2021), Lecturer, M.S., Case Western Reserve, 2010
- Cameron, Mary M. (2017), Associate Lecturer, B.S., Kent State University, 2013
- Carvalho, Carolyn J. (2004), Senior Lecturer, M.Tech., Kent State University, 2007
- Chen, Jie (2001), Professor, Ph.D., University of Wisconsin-Madison, 1993
- Courey, Tamra J. (1998), Associate Professor, D.N.P., Kent State University, 2014
- Cowling, Vanessa M. (2022), Lecturer, M.S.N, Post University, 2022
- Daniels, Martha E. (2010), Associate Professor, Ed.D., Walden University, 2008
- Darby, Benjamin (2013), Lecturer, M.Tech. , Kent State University, 2020
- DiPofi, Rhonda S. (2018), Associate Lecturer, M.S.N., Kent State University, 2018
- Douglass, Angela T. (2003), Senior Lecturer, M.S.N., Youngstown State University, 2003
- Dragomir, Kelly A. (2012), Senior Lecturer, M.A., Kent State University, 2018
- Emens, Susan (1993), Associate Professor, Ph.D., Trident University International, 2013
- Farag Mohamed Elshahat, Sheren E. (2021), Assistant Professor, Ph.D., University Of Seville, 2011
- Fritz, Timothy E. (2003), Associate Lecturer, M.Tech., Kent State University, 2017
- Ginal, Sharon L. (2006), Associate Lecturer, M.S.N., Ursuline College, 2002
- Golden, Shawn D. (2004), Associate Professor, Ph.D., Kent State University, 2014
- Gump, Traci L. (2016), Associate Lecturer, B.S., Ohio University, 2014
- Hancock, Darryl A. (2012), Associate Professor, Ph.D., Chatham College, 2008
- Harding, Mariann M. (2005), Professor, Ph.D., West Virginia University, 2013
- Hoffman, Susan C. (1983), Assistant Professor, M.B.A., Wheeling College, 1982
- Iagulli, Margie B. (1997), Senior Lecturer, M.Ed., Kent State University, 2002
- Inbanathan, Flavia Princess Nesamani (2023), Assistant Professor, Ph.D., Anna University, 2015
- Irfan, Mohammad A. (2024), Associate Professor, Ph.D., Case Western Reserve University, 1998
- Johnston, Kelly R. (2016), Associate Professor, D.V.M., The Ohio State University, 1992
- Kiphart, Tiffany M. (2002), Senior Lecturer, B.S., Wilmington College of Ohio, 1993
- Koptur, Turan E. (2007), Associate Lecturer, M.Tech., Kent State University, 2013
- Leija, Lynn M. (2005), Senior Lecturer, B.S., Ohio University, 1991
- Littles, La Toya R. (2020), Lecturer, M.S., Robert Morris University, 2003
- Long, Timothy R. (2024), Assistant Professor, D.B.A., New England College of Business and Finance, 2019
- Lowden, Doug M. (2025), Lecturer, M.S.N., Chamberlain University, 2022
- Mariano, Julia (2025), Lecturer, B.S., Kent State University, 2024
- Marshall, Shelley K. (1999), Associate Lecturer, M.Tech., Kent State University, 2008
- McCrea, Justin M. (2017), Lecturer, M.A., Savannah College of Art and Design, 2008
- Migliore, Heidi B. (2023), Lecturer, M.S.W., The Ohio State University, 2011
- Morgan, Donna D. (2016), Associate Lecturer, M.S.N., Kent State University, 2020
- Morris, Lora J. (2003), Associate Professor, M.S.N., Ursuline College, 2002
- Muscatello, Joseph R. (2004), Associate Professor, D.B.A., Cleveland State University, 2002
- Panthi, Dhruba (2016), Associate Professor, Ph.D., University of Tokyo, 2014
- Pate, Corey M. (2007), Associate Lecturer, M.A., Kent State University, 2005
- Peterson, Cynthia L. (1999), Senior Lecturer, M.P.H., Kent State University, 2008
- Pilc, Caitlyn J. (2024), Lecturer, M.S.N., Roberts Wesleyan College, 2020
- Rajagopal, Chitra P. (1993), Associate Professor, M.S., Youngstown State University, 1992
- Ratican, Sean P. (2018), Associate Professor, Ph.D., University Of The Cumberlands, 2019
- Reed, William E. (2022), Lecturer, M.S., Carnegie Mellon University, 2015
- Reed, William E. (2024), Associate Lecturer, M.S., Carnegie Mellon University, 2015
- Rempe, Rebecca D. (2010), Senior Lecturer, M.L.I.S., Kent State Unviersity, 2017

- Rodenhausen, Amy A. (2010), Senior Lecturer, M.Ed., Kent State University, 2014
- Rose, Stacy R. (2001), Associate Professor, M.S.N., Case Western Reserve University, 2000
- Sanguedolce, Kathleen (2024), Lecturer, M.S.N., Ohio University, 2022
- Schlosser, Elizabeth A. (1995), Associate Lecturer, B.S., Bowling Green State University, 1989
- Senita, Julie A. (2004), Associate Professor, Ph.D., Kent State University, 2017
- Senita-Saksa, Jenna R. (2021), Lecturer, B.S., Kent State University, 2020
- Shadduck, Margaret A. (2021), Associate Professor, Ph.D., Southern Illinois University School of Medicine, 1995
- Singer-Bare, Lori B. (2022), Lecturer, M.P.A., Upper Iowa University , 2020
- Spickler, Jamie L. (2019), Lecturer, M.S., Chamberlain College of Nursing-Addison, 2020
- Stefka, Shelly L. (2013), Associate Lecturer, M.S.N., Walden University-Baltimore, 2012
- Sustar, Amy K. (2014), Lecturer, B.S.N., Kent State University, 2004
- Swoboda, Kathy (2008), Associate Lecturer, L.S.M., Kent State University, 2011
- Totten, Christopher W. (2018), Associate Professor, M.Arch., Catholic University of America, 2009
- Tu, Tsunghui (2002), Associate Professor, Ph.D., Iowa State University, 2001
- Upole, Daryl G. (1992), Associate Lecturer, M.B.A., Cleveland State University, 1994
- Vanfossen, Jonathan S. (2007), Lecturer, M.Tech, Kent State University, 2009
- Warino, Shellie I. (2006), Lecturer, M.Ed., Kent State University, 2011
- Zampino, Anthony C. (1998), Associate Lecturer, M.Tech., Kent State University, 2003
- Zarzour, Richard (2019), Lecturer, M.S.N., University of Phoenix, 2014

Accounting Technology (ACTT)

ACTT 11000 ACCOUNTING I: FINANCIAL 4 Credit Hours
(Equivalent to ACCT 23020) Introduction to financial accounting, including principles generally accepted when preparing accounting statements for users outside of the business organization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

ACTT 11001 ACCOUNTING II: MANAGERIAL 4 Credit Hours
(Equivalent to ACCT 23021) Introduction to managerial accounting, including accounting for manufacturing firms, budgeting, standard cost systems, direct costing, segment reporting and cost-volume-profit (CVP) analysis.
Prerequisite: ACTT 11000.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

ACTT 11003 PAYROLL ACCOUNTING 3 Credit Hours
Introduction to the payroll function, including preparation of payroll and related federal, state and local tax forms required of all businesses. Students study both manual and computerized applications.
Prerequisite: ACTT 11000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACTT 20012 ACCOUNTING SOFTWARE APPLICATIONS 3 Credit Hours
Students explore accounting, spreadsheet and word processing software.
Prerequisite: ACTT 11000.
Schedule Type: Lecture
Contact Hours: 3 other
Grade Mode: Standard Letter

ACTT 21000 ACCOUNTING III: FINANCIAL 3 Credit Hours
An intensive and practical study of financial accounting principles pertaining to balance sheet, income statement accounts and statement analyses.
Prerequisite: ACTT 11001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACTT 21003 FUNDAMENTALS OF TAX PREPARATION 3 Credit Hours
A non-technical presentation of federal income tax laws and regulations as they relate to individuals.
Prerequisite: ACTT 11000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACTT 21092 INTERNSHIP IN ACCOUNTING TECHNOLOGY (ELR) 2-3 Credit Hours
(Repeatable for credit) Supervised field experience requires either minimum 14 hours each week for unpaid work experiences or minimum 20 hours each week for paid work experiences.
Prerequisite: ACTT 21000; and special approval.
Schedule Type: Practical Experience
Contact Hours: 24-36 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ACTT 21095 SPECIAL TOPICS IN ACCOUNTING TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Topics in accounting vary per course offering.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ACTT 21096 INDIVIDUAL INVESTIGATION IN ACCOUNTING TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Independent in-depth research of an accounting topic supervised and coordinated by an accounting technology faculty member.
Prerequisite: 12 credit hours of ACTT courses; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ACTT 31063 INTRODUCTION TO COST ACCOUNTING 3 Credit Hours
Cost accounting concepts and systems; role of costs in decision making; budgeting concepts and procedures; analysis of revenue, cost and income variances.
Prerequisite: ACTT 11001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Agribusiness (AGRI)

AGRI 20000 ECONOMIC PERSPECTIVES ON FOOD AND AGRICULTURE 3 Credit Hours
Introduction of the role of economics in agriculture at the firm, national, and international level. An overview of the structure and scope of the U.S. Food and Fiber Sector and its current trends and implications for the national economy. Students learn to apply various economic principles and concepts relating to production agriculture, business management, consumer behavior, market price analysis and equilibrium, international trade and public policy formation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 30000 FARM BUSINESS MANAGEMENT 3 Credit Hours
Develops an understanding of the various business management decisions involved in the organization and operation of a farm business operation for continuous profit and production cost efficiency. Students acquire knowledge and proficiency in applying the various economic principles and farm business management analysis concepts which aid a farm operator or owner in the decision making process for a farm business operation.
Prerequisite: ACTT 11000 and BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 31000 AGRIBUSINESS MANAGEMENT 3 Credit Hours
Intended for students interested in careers eventually leading to managerial positions in commodity production and marketing, input supply, banking, cooperatives and related agricultural industries. Focus is on the use of financial statements, operating and managerial functions, communication, and the inter-personal work environment within an organization. Presentation is by lecture integrated with experiential learning through use of student-team decision making applied to an agribusiness management simulation.
Prerequisite: ACTT 11000 and ACTT 11001 and BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 32000 FARM RECORDS ANALYSIS AND INCOME TAX MANAGEMENT 3 Credit Hours
Develop an understanding of the procedures involved with farm recordkeeping and illustrates the ways in which farm records can be used to evaluate and to improve the economic performance and profitability of a farm business. Students have the opportunity to gain an understanding of the current tax system. Students learn to apply the various tax management methods and strategies that can be used to maximize the after tax income to a farm business operation.
Prerequisite: AGRI 30000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 33000 AGRICULTURAL COMMODITY MARKETING 3 Credit Hours
Covers the economic factors, socioeconomic trends, farm demographic changes, global competitiveness, and consumer attitudes that shape the current structure and operation of the U.S. agricultural marketing system. Includes how decisions at one level in the value chain impact all other levels and explores how and when the system changes as a result of individual decisions. Also focuses on quality-based marketing, contracting and provides a global perspective.
Prerequisite: AGRI 20000 and BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 34000 LIVESTOCK PRODUCTION MANAGEMENT 3 Credit Hours
An introduction to the livestock industry and its role in society and our economy. Principles of livestock production management are introduced for beef, swine, dairy cattle, horses, sheep, goats and poultry.
Prerequisite: AGRI 31000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 35000 CROP AND FORAGE PRODUCTION MANAGEMENT 3 Credit Hours
Deals with crop plants in relation to the environment, crop improvement, seeds, and seeding. The practice of tillage, fertilizer, rotation, cropping, and weed control is covered. Pastureland and farmland, the harvest of field crops, and the handling and marking of grain seeds and hay are also included, as well as crops of the grass family, perennial forage grasses, the legume family and miscellaneous crops.
Prerequisite: AGRI 30000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 40000 ADVANCED FARM BUSINESS MANAGEMENT 3 Credit Hours
Application of economics and business principles to the management of a Farm Business. Use of analytical tools such as enterprise budgeting, linear programming, pro-forma cash flow budgeting, capital budgeting, and risk management analysis to aid the decision-making process. Understanding of farm transfer and succession planning and its importance in the intergenerational viability of a farm business.
Prerequisite: AGRI 30000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 40092 AGRIBUSINESS INTERNSHIP (ELR) 3 Credit Hours
Provides students an internship work experience in the agribusiness industry. The internship may be completed in any one of the following areas of agribusiness: sales management, agriculture lending, insurance, cooperative management, commodity merchandising, farm business management, public relations, farm marketing, agricultural policy, dairy production or farm business operations.
Prerequisite: Agribusiness major; junior or senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AGRI 41000 AGRICULTURAL PRICE ANALYSIS 3 Credit Hours
The economics of supply and demand provide a foundation for understanding the behavior of agricultural markets, the formation of prices, and the role of prices in the allocation of goods and services. Traditional topics include: aggregate demand& supply determination, price equilibrium, elasticities in the commodity market, equilibrium displacement models, derived demand of food products, quantitative analysis of food marketing channels, regression analysis and spatial concepts in agriculture.
Prerequisite: AGRI 20000, ECON 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 42000 AGRICULTURAL FINANCE 3 Credit Hours
To develop an understanding and proficiency in applying the various economic principles and concepts of financial management for analyzing alternative investment decisions and solving financial problems in a farm business operation. Various strategies for acquiring and financing capital resources in the farm business operation are explored. Characteristics of the financial institutions providing credit to farmers and their particular lending programs are studied.
Prerequisite: AGRI 30000 and MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 43000 AGRICULTURAL ENVIRONMENTAL LAW 3 Credit Hours
To acquaint students with the fundamentals of state and federal pollution control law. Major topics include: air pollution control, water pollution control, toxic substance control, solid waste management and disposal, Superfund, wetlands, endangered species, land use regulation, environmental assessment, environmental law administration and enforcement and global environmental law.
Prerequisite: AGRI 30000 and BMRT 21000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 44000 AGRICULTURAL AND INTERNATIONAL TRADE POLICY 3 Credit Hours
History, development, programs, and analysis of public policy issues in agriculture and natural resources. Analysis of science, economic, and political factors involved in policy development. Emphasis on farm policy and farm structure; food and nutrition; trade and development; and natural resources, the environment, and bioenergy, with special attention to issues and policies impacting Ohio and the United States.
Prerequisite: AGRI 20000 and ECON 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 45000 SENIOR SEMINAR (WIC) 3 Credit Hours
Capstone course designed to expose Agribusiness majors to current events and the interpretation of those events in an economics framework for use in management decision making. Students are introduced to the scientific method and complete a senior research project.
Prerequisite: Agribusiness (AGRI) major; and senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

Allied Health Sciences (AHS)

AHS 11000 EXPLORATION OF NURSING AND ALLIED HEALTH PROFESSIONAL CAREERS 1 Credit Hour
Course provides students the means in which to develop an understanding of nursing and allied health career options available in healthcare-related professions. The following professions are reviewed: nurse, occupational therapist assistant, physical therapist assistant, radiologic technologist and respiratory therapist. Students who enroll in this course are typically undecided about what professional program of instruction to pursue, but are interested in the healthcare field. The course may include observation in health care professions.
Schedule Type: Lecture
Contact Hours: 1 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

AHS 12000 BASIC PRINCIPLES OF PHARMACOLOGY 2 Credit Hours
Identify and apply the basic principles of pharmacology to client care. Explore pharmaceutics, pharmacokinetics, pharmacodynamics, pharmacology-related math, drug classification and safe preparation and administration of medications.
Prerequisite: Nursing Technology, Nursing, Physical Therapist Assistant Technology, Occupational Therapist Assistant Technology, Radiologic Technology or Respiratory Therapy major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AHS 12005 CONCEPTS IN LIFESPAN DEVELOPMENT 3 Credit Hours
Developmental theories and assessment measures throughout the lifespan, with application to the rehabilitation client.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AHS 12010 PROFESSIONALISM IN HEALTHCARE 1 Credit Hour
Provides information concerning the professional behaviors and communication skills necessary for all healthcare providers to effectively interact with clients, related healthcare professionals and others. Students will gain an understanding of the importance of being professional, ethical and competent in their fields.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

AHS 22002 CLINICAL KINESIOLOGY 3 Credit Hours
Function of the human body with emphasis on the musculoskeletal system and gross body measurements.
Prerequisite: BSCI 11010; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AHS 22003 CLINICAL KINESIOLOGY LABORATORY 1 Credit Hour
Application of human body movement and function concepts.
Prerequisite: BSCI 11010; and special approval.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

AHS 24010 MEDICAL TERMINOLOGY 1 Credit Hour
Terminology utilized by the medical profession. Emphasis is on definition, spelling, pronunciation and correct usage of terms.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

Animation Game Design (AGD)

AGD 11003 SOLID MODELING 3 Credit Hours
Instruction given in the best usage approaches for parametric design philosophy through a hands-on, practice-intensive curriculum. Students acquire the knowledge needed to complete the process of designing models from conceptual sketching to solid modeling, assembly design and drawing production with rendering techniques for presentation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 12000 TWO DIMENSION GRAPHICS 3 Credit Hours
Introductory course for creation of two-dimension graphics using vector and raster imaging for use in mapping and character development in animation and gaming.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 12001 MODELING AND TEXTURING I 3 Credit Hours
Introduction to the basic concepts of three-dimension modeling and animation. Topics include terminology, techniques of creating textures and imaging for mapping, three-dimension modeling, lighting, shading and rendering.
Prerequisite: AGD 12000 with a minimum grade of C; and Animation Game Design major or Game Design minor or Modeling and Animation minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 21000 FUNDAMENTALS OF MIXED REALITY 3 Credit Hours
Course explores the fundamentals of virtual and augmented reality available today (education, medical, games, architecture, etc.).
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 21092 ANIMATION AND GAME DESIGN PRACTICUM (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience. One credit hour for 50 work hours.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 3.333-10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

AGD 22000 TWO-DIMENSION COMMUNICATION 3 Credit Hours
Comprehensive training with 2D and 3D elements of computer-aided-design from the foundation to advanced techniques applicable to design in the graphics, mechanical, industrial and electronics fields.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 22001 MODELING FOR ARCHITECTURE 3 Credit Hours
Introduction to building information modeling (BIM) fundamentals using an industry-standard architectural software application, including creation of full 3D architectural project into working drawings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 22004 MODELING AND TEXTURING II 3 Credit Hours
3D modeling and computerized techniques. Introduction to the basic concepts, terminology and techniques of 3D modeling, lighting, shading, imaging and animation.
Prerequisite: AGD 12001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 22005 MULTIMEDIA AND GAME DESIGN 3 Credit Hours
2D game development for pc and mobile devices, which includes the creation of flowcharts, roughs and interactive navigation systems. Integration of images, animation, video, sound and custom C# coding
Prerequisite: AGD 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 22010 DIGITAL SCULPTING 3 Credit Hours
This course will explore interactive 3D sculpting to create highly-detailed and realistic models for use in games, film, animation and illustration.
Prerequisite: Animation Game Design major or Game Design minor or Modeling and Animation minor.
Corequisite: AGD 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 22095 SPECIAL TOPICS IN ANIMATION AND GAME DESIGN 1-3 Credit Hours
(Repeatable for credit) Special topics in animation and game design. Repeated registration permitted.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

AGD 23020 GAMING AND CULTURE 3 Credit Hours
Familiarize students with the basic issues of culture and social aspects in different contexts including the relationship between culture and gaming. What is play, what is experiencing, and what are the cultural determinants that are at work in the process.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 23030 GAME PROTOTYPING 3 Credit Hours
Hands-on project course where students will create 3 games that highlight different aspects of the game-making and prototyping process. Students will learn to create game prototypes with different types of media – paper prototypes, storytelling prototypes, simple level design, and others.
Prerequisite: AGD 12000 or CS 38101.
Schedule Type: Lecture
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

AGD 33010 COMPETITIVE GAMING 3 Credit Hours
Introduction to eSports cultures and exploration of streaming techniques and layouts. The business culture of eSports, developing teams, communities, competitive gaming, event marketing and organizing an eSports event.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 33030 GAMES FOR IMPACT 3 Credit Hours
Hands-on project course where students learn how games are used for socially responsible purposes. Students choose a real-life problem to address, identify relevant research about the problem, then propose play-based solutions. This research informs the creation of a digital or non-digital game that educates players about the problem and how to address it.
Prerequisite: AGD 12000; and Animation Game Design major or Game Design minor or Modeling and Animation minor; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2.07 lecture, 2.93 lab
Grade Mode: Standard Letter

AGD 33095 SPECIAL TOPICS ANIMATION AND GAME DESIGN 1-3 Credit Hours
(Repeatable for credit) Topic varies per course offering.
Prerequisite: Animation and game design major.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

AGD 34000 CHARACTER ANIMATION 3 Credit Hours
Continuation of the study and technology applications of computer animation with emphasis on camera usage and the production of a comprehensive animation project involving the animation thought process (ATP).
Prerequisite: AGD 22004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 34001 ANIMATION PROJECT 3 Credit Hours
Continued study of practical technology applications of computer animation with emphasis on scripting code writing, systems line variables and fluent realism factors within the ATP.
Prerequisite: AGD 34000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 34003 ANIMATION THEORY 3 Credit Hours
A comprehensive course covering the fundamentals of storytelling with animation and motion graphics. Coverage of concept development, pre-production, storyboarding, color and design.
Prerequisite: AGD 22004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 34005 ENVIRONMENTAL GAME DESIGN 3 Credit Hours
In this course, we will learn the essentials of game environment creation. We will look at how textures, terrains, foliage, particle effects, lighting and blueprinting work and are created in a computer-aided software. We will also learn to import 3D models in to our game environment.
Prerequisite: AGD 22004; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 43001 ANIMATION PRODUCTION AND VISUAL EFFECTS 3 Credit Hours
A course dealing with the technical and business aspects of pre-and post production planning for multimedia video or film projects. Covers a systematic approach to content organization and development, scripting, visualization. We will explore effects such as particles and volumes (fire, smoke, liquids) inside 3D scenes as well as compositing effects.
Prerequisite: AGD 22004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 43002 GRAPHICS DESIGN TECHNOLOGY 3 Credit Hours
A course of study in the technology of creating knowledge and effects using computer-graphics concepts to create photo-realistic composite images and to restore and enhance a wide array of images.
Prerequisite: AGD 22004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 43025 REAL-TIME RENDERING FOR ANIMATION 3 Credit Hours
This course is designed to explore the workflow of real-time rendering in Unreal Engine to present stories and animation. This includes performance targets, interactivity and animation.
Prerequisite: AGD 34001 or AGD 34005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGD 43092 INTERNSHIP IN ANIMATION AND GAME DESIGN (ELR) (WIC) 1-3 Credit Hours
(Repeatable for credit) A credit-bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper, or an experience report. It is expected that the internship is different each time the course is taken.
Prerequisite: Animation Game Design major and junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

AGD 43096 INDIVIDUAL INVESTIGATION IN ANIMATION AND GAME DESIGN 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

AGD 43099 GAME PROJECT (ELR) 3 Credit Hours
Explore advanced concepts in Interactive 3D Game Design through a research and project-based course. This course centers on collaborative group project, guiding students in the creation of interactive objects, AI systems, user interfaces and playable 3D characters. The main objective is to develop a fully playable 3D game using Unreal Engine. This course is a continuation of AGD 34005.
Prerequisite: AGD 34005.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AGD 49999 SENIOR CAPSTONE PROJECT (ELR) (WIC) 3 Credit Hours
This is a senior project class allowing students to work in an area of interest.
Prerequisite: AGD 43025 or AGD 43099; and senior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

Applied and Technical Studies (ATS)

ATS 10000 INTRODUCTION TO ORGANIZATIONAL LEADERSHIP 3 Credit Hours
Course introduces key leadership concepts and practices based on a broad view of the practice of leadership in multiple types of organizations, including social service agencies, non-profit organizations, government units and small businesses. It provides a basic understanding of organizational leadership that is designed to guide students to discover the knowledge and skills that are characteristic of effective leaders. Leadership will be distinguished from the concept of management. Includes a basic examination of leadership theories and models as applied to different categories of organizations, cross-cultural leadership, ethics, power, leadership development, dyadic relations and contextual variation in traits of leaders.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATS 11001 INTRODUCTION TO VACUUM SYSTEMS 3 Credit Hours
Course will cover the types, working principle, application, troubleshooting and maintenance of vacuum pumps used in manufacturing industries.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Vacuum Systems

ATS 11002 OVERVIEW OF MANUFACTURING MAINTENANCE 3 Credit Hours
Course will cover the concepts associated with a manufacturing environment, process control and lean manufacturing.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Intro to Manufacturing, TAG Intro to Manufacturing

ATS 20152 COMPARATIVE ORGANIZATIONAL ETHICS AND LEADERSHIP PRACTICE 3 Credit Hours
Course will examine differences in ethical standards and approaches in the workplaces, including social service agencies, non-profit organizations, government units and small businesses. It is focused on the role organizational leaders play in fostering ethical behavior appropriate to the organization via different forms of cultural development. Students will utilize contemporary case-studies and explore existing frameworks from organizations such as hospitals, educational entities and family-owned small businesses to study ethical dealings and moral leadership from an applied leadership perspective.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATS 20195 SPECIAL TOPICS 1-3 Credit Hours
Subject varies depending on the need and faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ATS 32016 EMOTIONAL INTELLIGENCE AND LEADERSHIP ACROSS ORGANIZATIONS 3 Credit Hours
Course will explore the essentials of emotional intelligence in relation to the human condition and the practical effects of understanding emotional intelligence for effective leadership across different types of organizations, including social service agencies, non-profit organizations, government units and small businesses. Students will engage in thoughtful self-assessment and self-reflection, while seeking to identify their strengths as well as their opportunities for personal growth and expanded emotional intelligence. The focus will be the application of emotional intelligence essentials to different types of organizations, and how that awareness can impact the leadership process for positive culture within varying organizations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATS 42012 ORGANIZATIONAL CARE AND SOCIAL RESPONSIBILITY 3 Credit Hours
Course examines the role of different kinds of organizations in improving community development through organizational responsibility. Topics will include an overview of varying types of organizational responsibility, metrics and the involvement of stakeholders at the organizational, employee and community levels. Organizations considered will include social service agencies, non-profit organizations, government units and small businesses. The course will foster the development of knowledge and explore real-world application of skills that will enable professionals to serve and contribute to advancements of organizations as a part of the community, be it work, nonprofit, voluntary organization, church, city or state through ethical and sustainable decision-making.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Aviation Maintenance Technology (AMRT)

AMRT 10010 FAA REGULATIONS AND DOCUMENTATION 2 Credit Hours
FAA history, inspections, documentation and aircraft drawings. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Corequisite: AMRT 10040.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AMRT 10020 AIRCRAFT TOOLS AND TECHNIQUES 2 Credit Hours
Welding for the aviation maintenance technician and understanding of fluid lines and fittings. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Corequisite: AMRT 10010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

AMRT 10030 AIRFRAME I 3 Credit Hours
Understanding aircraft systems and corrosion control. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Corequisite: AMRT 10010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AMRT 10040 AVIATION POWER PLANT I 4 Credit Hours
Study of aviation engines and propellers. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Corequisite: AMRT 10010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

AMRT 20010 AIRFRAME II 3 Credit Hours
Understanding aircraft structures. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Prerequisite: AMRT 10030.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AMRT 20020 AIRFRAME III 2 Credit Hours
Advanced airframe course. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Corequisite: AMRT 20010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

AMRT 20030 AVIATION ELECTRONICS 3 Credit Hours
Electronics and systems for the aviation maintenance technician. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Prerequisite: EERT 12001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AMRT 20040 PRINCIPLES OF FLIGHT 3 Credit Hours
Nature of light, sound and aerodynamics. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Prerequisite: PHY 12202.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AMRT 20050 PRACTICUM IN ADVANCED AVIATION 2 Credit Hours
Aviation maintenance experience. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Prerequisite: AMRT 10040.
Schedule Type: Practical Experience
Contact Hours: 2 other
Grade Mode: Standard Letter

AMRT 20060 AVIATION POWER PLANT II 2 Credit Hours
Further studies into aircraft engines. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.
Prerequisite: AMRT 10040.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

Business Management Related Technology (BMRT)

BMRT 11000 INTRODUCTION TO BUSINESS 3 Credit Hours
(Equivalent to BUS 10123) Overview of social, economic and consumer environments as related to large and small business. Emphasis is on production, marketing, finance, management and human resources.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 11006 BUSINESS COMPUTATIONS I 3 Credit Hours
Application of algebraic and arithmetic concepts to accounting, finance and marketing. Computation of finance charges, taxes, fundamentals of inventory control and depreciation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 11009 INTRODUCTION TO MANAGEMENT TECHNOLOGY 3 Credit Hours
(Equivalent to MGMT 24163) Study of planning, organizing, directing/leadership, controlling, staffing, decision making, and communication theories and management applications of human and material resources and methods.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21000 BUSINESS LAW AND ETHICS I 3 Credit Hours
(Equivalent to FIN 26074) Introduction to American law as related to government, business, society and the ethical issues that occur in the legal environment. Emphasis is on contract law. Relevant past and current law issues are addressed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21004 BUSINESS ANALYTICS I 3 Credit Hours
(Equivalent to BA 24056) This course is an introduction to concepts in statistical methods and their application to real-world problems. This course will examine both the theoretical and practical side of the different methods. Students will be given ample opportunities to apply the techniques to different real-world programs. The goal of the course is for students to understand fundamental statistical concepts and methods, and their applications.
Prerequisite: MATH 11010 or MATH 11012 or MATH 12002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

BMRT 21008 CASE STUDIES IN MANAGEMENT AND ENTREPRENEURSHIP 3 Credit Hours
Application of management theory to actual business situations. Emphasis on decision making and evaluation of methods and styles of management in all functional areas.
Prerequisite: BMRT 11000 or BMRT 11009 or MGMT 24163 or BUS 10123.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21011 FUNDAMENTALS OF FINANCIAL MANAGEMENT 3 Credit Hours
Understanding basic financial reports for analysis and performance of a business. Preparation of sales forecasts to develop capital and expense budgets.
Prerequisite: ACTT 11000 and IT 11000 or special approval of BMRT faculty.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21020 INTRODUCTION TO ENTREPRENEURSHIP 3 Credit Hours
Provides information about the functional elements of starting a small business. Includes the use of instruments, exercises and case analyses to assess entrepreneurial skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

BMRT 21023 FINANCING THE BUSINESS VENTURE 3 Credit Hours
Course deals with determining capital needs, identifying sources of capital, developing a financial plan and interpreting financial statements. Both public and private loan programs are reviewed.
Prerequisite: BMRT 21020 or special approval of full-time BMRT faculty.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21050 FUNDAMENTALS OF MARKETING TECHNOLOGY 3 Credit Hours
(Equivalent to MKTG 25010) An overview of the process, activities, and problems associated with the conception, planning and execution of pricing, promotion, product and placement of goods and services.
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

BMRT 21052 PROFESSIONAL SELLING TECHNIQUES 3 Credit Hours
Study of personal selling as a promotional technique to determine and satisfy the needs of buyers and to build a long-term relationship among all parties.
Prerequisite: BMRT 11000 or special approval of full-time BMRT faculty.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21053 ADVERTISING IN BUSINESS 3 Credit Hours
A practical approach to the study of advertising. Emphasis is on the effective use of the media creating advertising operations and advertising management.
Prerequisite: BMRT 21050 or special approval of BMRT faculty.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21092 INTERNSHIP IN MANAGEMENT TECHNOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Students participate in a supervised educational experience. Each credit hour requires a minimum of seven hours work without pay or 10 hours work with pay per week for 15 weeks.
Prerequisite: Special approval of full-time BMRT faculty.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

BMRT 21095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Special topics in business technology announced when scheduled.
Prerequisite: Special approval from full-time BMRT faculty.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BMRT 21096 INDIVIDUAL INVESTIGATION IN BUSINESS TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Individual study in business and related fields.
Prerequisite: Business Management Technology major; and special approval from full-time BMRT faculty.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BMRT 22000 GLOBAL LOGISTICS 3 Credit Hours
The efficient and effective movement of physical goods from point of origin to point of consumption for consumers, businesses, and other organizations. Key areas of study include inbound and outbound logistics, transportation methods, inventory control, warehousing, material handling, information technology, security, risk, and sustainability.
Prerequisite: BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 22099 CAPSTONE IN LOGISTICS AND SUPPLY CHAIN MANAGEMENT (ELR) 3 Credit Hours
Capstone course in Logistics and Supply Chain Management requiring an in-depth analysis of emerging global issues, both qualitative and quantitative. Case studies, research reports and in-depth investigations are incorporated into the course.
Prerequisite: BMRT 22000; and Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BMRT 31005 PURCHASING AND SUPPLY MANAGEMENT 3 Credit Hours
Investigates the purchasing, planning and logistics functions of supply chain management. Process control, negotiations, quality control, service measurement and other quantitative methods are covered.
Prerequisite: BMRT 11000 or BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 31006 HUMAN RESOURCE MANAGEMENT 3 Credit Hours
The study of contemporary issues of human resources. Covers planning, job design, selection, appraisal, compensation, training, life quality, safety/health, diversity and unions.
Prerequisite: BMRT 11009 or MGMT 24163.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 31009 SEMINAR IN MANAGEMENT AND ENTREPRENEURSHIP 3 Credit Hours
Students of business management technology engage in critical reading, writing and discussion to apply business theory to on-the-job experiences.
Prerequisite: BMRT 11000 or BMRT 11009 or BUS 10123; and ACTT 11000 or ACTT 11001 or ACCT 23020 or 23021 or equivalent.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 32020 LEAN SUSTAINABILITY 1 Credit Hour
A sustainable business is an enterprise that has minimal negative, or a positive impact on Society. Impacts can be environmental, economical, or community based.
Prerequisite: BMRT 11009.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BMRT 36401 APPLICATIONS OF TECHNOLOGY MANAGEMENT SOFTWARE 3 Credit Hours
Combination of computer and business applications for managing technology within an organization. Focus is on using emerging computer software programs for the enhancement of decision making. Course is 2 hours lecture, 1 hour lab.
Prerequisite: BMRT 11000 and IT 12000; or special approval of full-time Applied Business faculty.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

BMRT 36415 CUSTOMER SERVICE 3 Credit Hours
Analysis and definition of customer satisfaction with an emphasis on quality customer service that includes techniques for assessing company service efforts and developing customer satisfaction programs.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 40092 PRACTICUM IN APPLIED BUSINESS AND TECHNOLOGY (ELR) 1-4 Credit Hours
(Repeatable for a maximum of 4 credit hours) On sight internship or a project with a business or technology related organization approved by the Instructor.
Prerequisite: Junior standing and special approval.
Schedule Type: Field Experience, Practical Experience
Contact Hours: 7-28 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BMRT 40096 INDIVIDUAL INVESTIGATION IN BUSINESS AND TECHNOLOGY 1-4 Credit Hours
(Repeatable for a maximum of 4 credit hours) Perform an individual project or research assignment as approved by the instructor.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 7-28 other
Grade Mode: Standard Letter

BMRT 46295 SPECIAL TOPICS IN APPLIED BUSINESS 2-3 Credit Hours
(Repeatable for credit) Specialized advance instruction oriented primarily to applied business topics. Topics will vary and will be announced as scheduled.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter

BMRT 46409 STRATEGIC MANAGEMENT OF TECHNOLOGY AND INNOVATION 3 Credit Hours
An examination using case studies and readings of the management of technology and innovation through perspectives at the product line, business unit and corporate levels.
Prerequisite: BMRT 21050 and BMRT 21011; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 46418 LABOR STUDIES IN TECHNOLOGY 3 Credit Hours
This course will include the history of the labor movement, interrelationships of labor with business and industry, labor law, contemporary labor problems that emphasizes how unions are organized, contracts, arbitration and management issues.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Early Years Education and Care (EYEC)

EYEC 10121 EARLY YEARS FIELD PREPARATION AND TRAININGS 1 Credit Hour
This course will prepare students for entrance into the early childhood field by providing information and guidance as students complete a clearance packet which includes specific trainings, paperwork and preparation. This documentation and related trainings are required prior to beginning observations and field experiences undertaken at sites approved by the Ohio Department of Job and Family Services (ODJFS) and Ohio Department of Education (ODE). Clearance packets and yearly background checks are required for students to be able to participate in course-related field experiences, which occur each semester in the EYEC and the BSE program.
Pre/corequisite: ECED 10120.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

EYEC 10192 PRESCHOOL CLINICAL EXPERIENCE I (ELR) 1 Credit Hour
This course will be taken in conjunction with ECED 20101 and with EYEC 21010, which have field related observations and assignments. A minimum of 45 field hours is required. Students must also submit an approved clearance packet and the results of a current Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background check to authorized personnel at their field site before beginning their field experience.
Pre/corequisite: ECED 10120 and EYEC 10121.
Corequisite: ECED 20101 and EYEC 21010.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EYEC 20192 PRESCHOOL CLINICAL EXPERIENCE II (ELR) 1 Credit Hour
This course will require students to complete a minimum of 120 field hours in a preschool setting. This field course is to be taken in conjunction with the designated preschool block of course work prior to preschool student teaching (EYEC 22192). Related assignments from the concurrent preschool courses are completed at the assigned field site. Students must also submit an approved clearance packet and the results of a current Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background check to authorized personnel at their assigned school or agency before the first day of the semester. Students must successfully complete the field experience and pass all related preschool course work with a minimum grade of C in order to register for the final preschool student teaching, EYEC 22192.
Pre/corequisite: ECED 10120 and EYEC 10121 and EYEC 10192 and ECED 20101 and EYEC 21010.
Corequisite: EYEC 21005 and EYEC 22000 and EYEC 22130.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EYEC 21005 COLLABORATIVE PARTNERSHIPS IN THE EDUCATION AND GUIDANCE OF THE YOUNG CHILD 3 Credit Hours
(Equivalent to ECED 20105) This course focuses on the understanding that children are a part of a family, culture, and community. Content addresses family partnerships and inclusive schooling with young children and their educators. Students gain knowledge and skills to establish collaborative and productive relationships with families and the surrounding community. Students identify and discuss the multiple influences and diversity that impact the development, guidance, and education of the whole child: family structure, customs, identities, socio-cultural and linguistic backgrounds, and advocacy. There are field-based assignments in this course and 15 hours of field experience is required. Students are required to complete a Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their field site before beginning their field experience. Some preschool sites may also require a clearance packet which is completed in EYEC 10121.
Pre/corequisite: ECED 10120 and ECED 20101 and EYEC 10121 and EYEC 21010 and EYEC 10192.
Corequisite: EYEC 20192 and EYEC 22000 and EYEC 22130.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EYEC 21010 INFANT AND TODDLER CURRICULUM AND SERVICES 3 Credit Hours
This course focuses on Infant/toddler development as it relates to environments and curriculum, theoretical perspectives, family involvement, community involvement, community resources, collaboration, and advocacy. A minimum of 30 hours of field experience is required. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their field site before beginning their field experience.
Pre/corequisite: ECED 10120 and EYEC 10121 and ECED 20101.
Corequisite: EYEC 10192.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EYEC 21095 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Intensive study of significant current issues in the early childhood education field.
Prerequisite: Departmental permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EYEC 21096 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION TECHNOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Analysis and special research in the early childhood education field.
Prerequisite: Departmental special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

EYEC 22000 PRESCHOOL CURRICULUM 3 Credit Hours
(Equivalent to ECED 20103) Students will plan, implement and evaluate developmentally appropriate content and methodology for preschool age children. This course will provide students with a foundation for understanding the developmental processes occurring during the preschool years and an introduction to teaching and learning in preschool which includes the importance of play, guidance of young children, designing quality environments and authentic documentation and assessment. A minimum of 38 field hours will be required along with field-based assignments. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their field site before beginning their field experience. Some sites may also require a clearance packet with designated trainings.
Pre/corequisite: ECED 10120 and EYEC 10121 and ECED 20101 and EYEC 21010.
Corequisite: EYEC 21005 and EYEC 22130.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EYEC 22130 EMERGING LITERACIES 3 Credit Hours
(Equivalent to ECED 30201) This course engages students in an examination of the process of language and literacy development in preschool children. The course will focus on how early childhood teachers integrate knowledge of child development with early literacy learning in the home and school environments and valuing the cultural and linguistic diversity of each child. There are field based assignments in this course with a minimum of 22 required field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their field site before beginning their field experience. Some sites may also require a clearance packet of related information and additional trainings.
Pre/corequisite: ECED 10120 and EYEC 10121 and ECED 20101 and EYEC 21010.
Corequisite: EYEC 21005 and EYEC 22000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EYEC 22140 PRESCHOOL SEMINAR: SUPPORTING A CULTURALLY SUSTAINING PEDAGOGY (ELR) 2 Credit Hours
(Equivalent to ECED 30205 and ECED 40165) This course provides a reflective approach to make student teaching experience more valuable. Students develop and implement developmentally appropriate curriculum that supports the cultural and linguistic diversity of the children at their preschool site. The course content will serve to extend, deepen, and integrate the individual student's knowledge, attitudes, and skills related to the preschool competencies. There are field-based assignments in the course. This course is taken along with EYEC 22192 which requires a minimum of 180 field hours at an assigned preschool site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their field site before beginning their field experience. Some sites may also require a clearance packet of related information and trainings. Both the seminar and the field experience must be successfully completed in order to move ahead into the advanced studies portion of the BSE Early Childhood Education Program. The seminar is constructed around the following Teacher Education Competencies: Inquiry cycle – observation/documentation/assessment, knowledge of child growth and development – typical and atypical, ecological systems perspectives regarding family and family/professional collaboration, planning for student learning, curriculum, instruction - teaching in the classroom, professional accountability and responsibility - developing professional skills during student teaching and advocacy for the child.
Prerequisite: ECED 10120 and ECED 20101 and EYEC 10121 and EYEC 10192 and EYEC 21005 and EYEC 22130 and EYEC 20192.
Pre/corequisite: EYEC 22000 and EYEC 21010 and ECED 30202.
Corequisite: EYEC 22192; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EYEC 22192 PRESCHOOL STUDENT TEACHING (ELR) 2 Credit Hours
(Equivalent to ECED 20192) This course provides students the opportunity to apply the content and pedagogy they have learned during the Associate of Applied Science (AAS) program as it related to early childhood education. Students will spend a minimum of 180 hours at an approved preschool program under the supervision of a program faculty member or supervising teacher. Students must successfully complete their field experience and related course assignments in order to continue on to the advanced studies portion of the BSE/ECED program. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks are required with the results being submitted to authorized personnel at their field site before beginning their field experience in which student teaching will take place. Some preschool field sites may require additional trainings.
Prerequisite: Minimum C grade in ECED 10120 and ECED 20101 and EYEC 10121 and EYEC 20192 and EYEC 21005.
Pre/corequisite: ECED 30202 and EYEC 22000 and EYEC 22130 and EYEC 21010.
Corequisite: EYEC 22140; and special approval.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

Electrical Engineering and Related Technologies (EERT)

EERT 10192 OVERHEAD LINE TECHNOLOGY PRACTICUM I (ELR) 5 Credit Hours
Practical application of electrical overhead line worker job duties in a setting under direct supervision of First Energy Personnel. Prior to enrollment, students must be accepted into the First Energy Power Systems Institute (PSI).
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EERT 10292 OVERHEAD LINE TECHNOLOGY II PRACTICUM (ELR) 5 Credit Hours
Supervised practical application of electrical overhead line worker duties including the use of ladders, rescue operations, and transformers under the supervision of FirstEnergy personnel.
Prerequisite: EERT 10192; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EERT 11000 INTRODUCTION TO SEMICONDUCTOR AND CLEANROOM 4 Credit Hours
Course topics include cleanroom environment, chemical safety best practices, semiconductor wafer manufacturing, photolithography, etching, diffusion, thin film deposition and standard operating procedure.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Intro to Semicond Clnrm, TAG Intro to Semicond Clnrm

EERT 12000 ELECTRIC CIRCUITS I 4 Credit Hours
Direct current circuit analysis involving current and voltage, resistance, energy and power, Ohm's law, series and parallel networks. Mesh and nodal analysis, network theorems and DC instruments.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Electrical Engineer Technology, TAG Engineering Technology

EERT 12001 ELECTRIC CIRCUITS II 3 Credit Hours
Analysis of capacitive, inductance and magnetic circuits and transients in R-L-C combinations. AC network analysis: mesh and nodal, phasor algebra, power factor, resonance.
Prerequisite: EERT 12000.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

EERT 12005 ELECTRICAL/ELECTRONIC DRAWING 2 Credit Hours
Electrical Electronic drawing techniques using current computer-aided design software emphasizing schematic, block and wiring diagrams, document markups, circuit board printing, circuit or power layout is covered as needed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EERT 12010 INTRODUCTION TO ELECTRONICS 4 Credit Hours
Semiconductor theory. Properties and application of PN junctions and bipolar junction transistors, amplifiers, field effect transistors (FET) amplifiers, JFET and MOSFET biasing and their use in simple circuits.
Prerequisite: EERT 12000.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

EERT 20192 OVERHEAD LINE TECHNOLOGY III PRACTICUM (ELR) 5 Credit Hours
Supervised practical applications of electrical line worker job duties under the supervision of FirstEnergy personnel. Emphasis on URD equipment, grounding distribution circuits and working with energized three phase circuits.
Prerequisite: EERT 10292; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EERT 20292 OVERHEAD LINE TECHNOLOGY PRACTICUM IV (ELR) 5 Credit Hours
Supervised practical application of electrical overhead line worker job duties under the direct supervision of FirstEnergy personnel. Emphasis on line equipment, hot line tools, and transmission.
Prerequisite: EERT 20192; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EERT 21010 ENGINEERING AND PROFESSIONAL ETHICS 3 Credit Hours
Application of codes of ethics in the engineering and technology profession reflective of social and moral responsibilities to the public and accountability in engineering practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EERT 21096 INDIVIDUAL INVESTIGATION IN ELECTRICAL/ ENGINEERING TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Independent in depth research of an electrical electronic engineering technology topic supervised and coordinated by an engineering technology faculty member.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

EERT 22002 INDUSTRIAL CONTROLS 3 Credit Hours
Introduction to control of AC and DC machinery by electromechanical and solid state devices. Study of circuits, troubleshooting methods and logic systems.
Prerequisite: EERT 12010; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EERT 22004 DIGITAL SYSTEMS 4 Credit Hours
Modern integrated digital logic families. Analysis and design of digital circuits such as gates, multivibrators, comparators, counters, registers including interface, control memory and computer circuits. Programmable logic controllers and integrated circuit technologies.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Electrical Engineer Technology

EERT 22006 ELECTRICAL MACHINES 3 Credit Hours
Introduction to transformer action, losses and efficiency. Fundamentals of DC and AC motors and generators and three phase systems.
Prerequisite: EERT 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EERT 22008 FUNDAMENTALS OF ELECTRICAL MACHINES AND DRIVES 3 Credit Hours
Course introduces the fundamental concepts of electrical machines and drives, providing a solid foundation for students in electrical engineering. It covers the principles of operation, construction, and applications of common electrical machines such as DC machines, synchronous machines, and induction motors, along with the principles of motor control and drive systems.
Prerequisite: EERT 12001.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EERT 22011 ELECTRONIC SYSTEMS 2 Credit Hours
Continuation of EERT 12010. Frequency effects, Miller's Theorem, decibel notation and negative feedback, Oscillators, Op-amps, circuits and applications, Thyristors and electronically regulated power supplies.
Prerequisite: EERT 12010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

EERT 22014 MICROPROCESSORS AND ROBOTICS 3 Credit Hours
An introduction to microprocessor system fundamentals, number systems, binary codes, hexa- decimal codes, Programming fundamentals in C , C++ software, Microcontroller hardware architecture and instruction set, with applications to robot systems motor control, sensors.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

EERT 22016 PRODUCTIVITY SOFTWARE FOR INDUSTRY 1 Credit Hour
(Repeatable for a maximum of 3 credit hours) Introduces students to the use of computers for word processing, spreadsheets and database management applications. Students receive hands-on training on the use of the software applicable to engineering problems using hands-on formats.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lab
Grade Mode: Satisfactory/Unsatisfactory-IP

EERT 22018 PC/NETWORK ENGINEERING AND TROUBLESHOOTING 3 Credit Hours
Covers the service, maintenance, upgrade and optimization of personal computers. Specification, installation and maintenance of local area networks is covered. Students learn communication protocols and network architecture. Two lectures and two labs.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EERT 22095 SPECIAL TOPICS IN ELECTRICAL/ELECTRONIC AND RELATED ENGINEERING TECHNOLOGIES 1-3 Credit Hours
(Repeatable for credit) Special topics in electrical/electronic engineering technology.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EERT 32003 TECHNICAL COMPUTING 3 Credit Hours
A hands-on introduction to computation, through object-oriented programming and problem solving. Programming in the C++ language.
Prerequisite: MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EERT 32005 INSTRUMENTATION 3 Credit Hours
Introduction to modern industrial controls, interfacing devices, transducer systems, and process control methods.
Prerequisite: Junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 1 lab
Grade Mode: Standard Letter

Engineering Technology (ENGT)

ENGT 23099 ENGINEERING TECHNOLOGY DESIGN PROJECT (ELR) 3 Credit Hours
A practical, hands-on experience that emphasizes the integration of analytical and design skills acquired in companion courses. Students work in teams under direct faculty supervision to pursue creative and challenging projects within the engineering discipline. Engineering communication (e.g., reports, oral presentations, portfolio development) are covered. The lecture sessions include discussions on professional and ethical responsibilities, including a respect for diversity.
Pre/corequisite: EERT 22014.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENGT 30000 ADVANCED MANUFACTURING 3 Credit Hours
This course will introduce students to the concepts of advanced manufacturing technologies, processes and equipment. Covered topics include automation and process control, flexible manufacturing systems, and manufacturing using additive processes such as 3D printing. Students will learn hands on programming and operation of relevant equipment during the laboratory sessions.
Prerequisite: Junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGT 31010 ENGINEERING AND PROFESSIONAL ETHICS 3 Credit Hours
Applications of codes of ethics in the engineering and technology professions reflective of social and moral responsibilities to the public, and accountability in engineering practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGT 32002 MATERIALS AND PROCESSES II 3 Credit Hours
Advanced study and practice in materials and processes. Emphasis will be upon developing skills and knowledge in producing a product and conducting problem solving activities.
Prerequisite: MERT 12005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGT 32006 ECONOMIC DECISION ANALYSIS FOR ENGINEERING TECHNOLOGY 3 Credit Hours
Economic decision making for engineering technology with applications emphasis, estimating economic elements, interest and economic equivalence, methods of comparing alternatives and evaluating replacement alternatives using Benefit/Cost Analysis, Present and Future Worth, Annual Worth, Internal Rate of Return etc. Practical applications of cost concepts and the application towards the different phases of manufacturing or project implementation.
Prerequisite: MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering

ENGT 32101 POLYMERS I 3 Credit Hours
Description of various polymers, thermoplastics and thermosets. Processes used to produce products. Outline of polymer chemistry including methods of testing and identification.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGT 33000 INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours
An introduction to Programmable Logic Controllers (PLC), focusing on understanding the principles of how PLCs work and providing practical information and skills about programming and troubleshooting a PLC system. Simulators relating to popular PLCs used in industry will be utilized for practicing programming and troubleshooting.
Prerequisite: EERT 12010 or EERT 22014 or EERT 32003.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGT 33010 COMPUTER HARDWARE FOR ANIMATION 3 Credit Hours
Students will gain a complete, step-by-step approach for learning the fundamentals of supporting and troubleshooting computer hardware. Throughout this course, students will learn the technical skills for PC configuration and troubleshooting. Finally, the students will be exposed to the concepts of Animation and Design through exploring Deep learning concepts, GPUs benchmark tests, peripherals and gaming platforms.
Prerequisite: Junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGT 33016 PC/NETWORK ENGINEERING AND TROUBLESHOOTING 3 Credit Hours
Covers the service, maintenance, upgrade and optimization of personal computers. Specification, installation and maintenance of local area networks are covered. Students learn communication protocols and network architecture.
Prerequisite: EERT 22014 or EERT 32003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ENGT 33092 ENGINEERING TECHNOLOGY INTERNSHIP AND PROFESSIONAL DEVELOPMENT (ELR) (WIC) 1-3 Credit Hours
(Repeatable for Credit) Supervised work-study experience in approved business or industrial environment relative to the student's major.
A 3 credit hour co-op experience must be for a period of at least 12 consecutive weeks at 40 hours per week, or 30 hours per week for 15 weeks, totaling not less than 450 hours. Most co-ops occur during the summer. Students can earn up to an additional 3 credit hours (one to three per co-op – 150 work hours per credit hour) over the course of their college career as long as each co-op has a different focus.
Prerequisite: Minimum 2.250 overall GPA; and sophomore standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 10-30 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENGT 33095 SPECIAL TOPICS IN ENGINEERING TECHNOLOGY 1-4 Credit Hours
Special topics of immediate interest in engineering technology.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ENGT 33225 INDUSTRIAL CONTROL SYSTEMS 3 Credit Hours
The application of electronics to the control of industrial machines and processes. Includes laboratory.
Prerequisite: EERT 12001 or PHY 12202 or PHY 13002 or PHY 13012.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ENGT 42003 LEAN AND SIX SIGMA FOR COMPETITIVE MANUFACTURING 3 Credit Hours
Designed to provide a better understanding of the components and underlying philosophy of Theory of Constraints, Lean, and Six Sigma and how the elements and philosophies work together to support competitive manufacturing systems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGT 42195 TRAINING TOPICS IN TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Specialized advanced instruction oriented primarily to the theoretical base and application of current technology developed by experts in the specific technology. This course requires substantial base knowledge.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ENGT 43092 ENGINEERING TECHNOLOGY PRACTICUM (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience in an engineering technology related field. Student may work 10 hours per week for 15 weeks, or 150 work hours total per 15-week semester to earn 1 credit.
Prerequisite: Junior standing; and department approval.
Schedule Type: Practical Experience
Contact Hours: 10-30 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ENGT 43096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Work study of an individual nature on a topic in a field of applied science and technology.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ENGT 43099 ENGINEERING TECHNOLOGY CAPSTONE (ELR) 3 Credit Hours
This course provides students with an integrative experience, where they can apply their knowledge and skills acquired through the coursework in Engineering Technology. Students will learn how to fit in their competencies in a real-world scenario and reach toward their educational and/or career goals. Emerging trends, challenges, and opportunities in the career fields pertinent to Engineering Technology will also be addressed. Students will maintain an electronic portfolio as part of their learning.
Prerequisite: Senior standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENGT 43363 MATERIALS SCIENCE AND TECHNOLOGY 3 Credit Hours
Study of nature and family of engineering materials. The focus is on understanding the relationships among structure, properties, processing and selection of materials in designing industrial parts and systems.
Prerequisite: Engineering Technology majors only; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGT 43700 COMPUTER-INTEGRATED MANUFACTURING 3 Credit Hours
Study of the computer-integrated manufacturing system as it relates to product design, estimating inventory, machining and assembly, quality control and distribution.
Prerequisite: Engineering Technology majors only; and junior or senior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

Enology (ENOL)

ENOL 12000 SCIENCE OF WINE AND BEER PRODUCTION I 3 Credit Hours
Provides an in-depth study of the molecular and analytical principles of wine and beer production. It covers essential chemistry topics, including fermentation, flavor, aroma and color chemistry, while also teaching practical techniques for grape juice and wine analysis. Students engage in both theoretical learning and hands-on lab exercises, emphasizing chemical, physical, and biochemical methods, as well as real-world applications in winery environments.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, .6 lab
Grade Mode: Standard Letter-IP

ENOL 14600 INTRODUCTION TO ENOLOGY 3 Credit Hours
Targets people who became interested in home winemaking with possibilities to grow into the small business opportunity, as well as cellar employees interested in winemaking career. During this course, students build proper basic understanding of winemaking which alleviates common home winemaker's errors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

ENOL 14810 WINERY AND BREWERY SANITATION 3 Credit Hours
The basic science and technology of winery and brewery sanitation that includes an introduction to microbiology. Covers all methods used both in the winery and brewery for sanitation including premises, tanks, pumps, filters, oak barrels and sampling equipment, including but not limited to chemical agents, reagents and thermal treatments leading to sterile bottling. Environmental issues and compliance are also addressed.
Pre/corequisite: ENOL 14600 or VIN 11800.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

ENOL 16000 WINERY EQUIPMENT OPERATION 2 Credit Hours
Covers process technologies and process systems used in modern commercial wineries. Overview of winemaking systems, including work place safety, cleaning and sanitation procedures, winemaking equipment and materials, tanks, barrels and barrel alternatives, filtration systems and bottling equipment. Also touches upon on chillers and electrical needs.
Prerequisite: ENOL 14600.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

ENOL 21010 INTRODUCTION TO WINE AND BEER MICROORGANISMS 3 Credit Hours
Introduction to the basic principles of wine and beer microbiology and the variety of microorganisms frequently encountered in the wine making and brewing process. Yeasts, bacteria and molds play vital roles in the production of wine and beer, both beneficial and harmful. Students become familiar with the morphology, reproduction and sensory attributes of wine and beer microorganisms in order to understand their influence on winemaking and brewing and to be able to manage them effectively.
Prerequisite: ENOL 14600 or VIN 11800.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

ENOL 22000 SCIENCE OF WINE AND BEER PRODUCTION II 2 Credit Hours
Provides an in-depth study of the molecular and analytical principles of wine and beer production. It covers essential chemistry topics, including fermentation, flavor, aroma and color chemistry, while also teaching practical techniques for grape juice and wine analysis. Students engage in both theoretical learning and hands-on lab exercises, emphasizing chemical, physical and biochemical methods, as well as real-world applications in winery environments. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods.
Prerequisite: ENOL 14600 or VIN 11800; and ENOL 12000.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, .6 lab
Grade Mode: Standard Letter-IP

ENOL 22001 ADVANCED WINERY AND BREWERY MICROBIOLOGY AND SANITATION 4 Credit Hours
Introduction to the basic principles of wine and beer microbiology and the variety of microorganisms frequently encountered in the wine making and brewing process. Yeasts, bacteria and molds play vital roles in the production of wine and beer, both beneficial and harmful. Students become familiar with the morphology, reproduction and sensory attributes of wine and beer microorganisms in order to understand their influence on winemaking and brewing, cleaning and sanitation techniques, and to be able to manage them effectively. Environmental and safety considerations, regulatory compliance, as well as spoilage prevention strategies are emphasized.
Prerequisite: ENOL 14600 or VIN 11800; and ENOL 12000.
Pre/corequisite: ENOL 22000.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 lecture, 1.2 lab
Grade Mode: Standard Letter-IP

ENOL 22092 INTERMEDIATE ENOLOGY: HARVEST AND CRUSH WITH FIELDWORK (ELR) 4 Credit Hours
Focused on advanced science and technology concepts of winemaking as it relates to pre-harvest, fruit harvest, and procedures involved in juice and must preparation. Covers advanced principles of grape juice and wine analysis, harvest practices and the application of enological science in a real-world field setting. Builds on the fundamentals taught in Introduction to Enology, Science of Wine and Beer Making I and II and Advanced Winery and Brewery Microbiology and Sanitation.
Prerequisite: ENOL 12000 and ENOL 14600 and ENOL 22000.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ENOL 23092 INTERMEDIATE ENOLOGY: POSTHARVEST WITH FIELDWORK (ELR) 4 Credit Hours
Focused on advanced science and technology concepts of winemaking as it relates to post harvest procedures. Students will gain a deeper understanding of stabilization, clarification, fining, bottling and wine analysis while participating in fieldwork to apply these principles to real-world operations. Builds on the fundamentals taught in Introduction to Enology, Science of Wine and Beer Production 1 and II, Advance Winery and Brewery Microbiology and Sanitation and Intermediate Enology: Harvest and Crush with Field Work.
Prerequisite: ENOL 12000 and ENOL 14600 and ENOL 22000 and ENOL 22092.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ENOL 24600 INTERMEDIATE ENOLOGY - HARVEST AND CRUSH 2 Credit Hours
Focused on advanced science and technology concepts of winemaking as it relates to pre-harvest, fruit harvest, and procedures involved in juice and must preparation. Builds on the fundamentals taught in Introduction to Enology, Molecular Principles of Grape and Wine, and Wine Microbiology.
Prerequisite: ENOL 14600.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

ENOL 24700 INTERMEDIATE ENOLOGY - POSTHARVEST 2 Credit Hours
Focused on advanced science and technology concepts of winemaking as it relates to post harvest procedures involved in stabilization, clarification, fining, and bottling. Builds on the fundamentals taught in Introduction to Enology, Molecular Principles of Grape and Wine, Wine Microbiology, Wine and Must Analysis, and Intermediate Enology Harvest and Crush.
Prerequisite: ENOL 14600 and ENOL 24600.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

ENOL 25792 FALL WINE PRODUCTION FIELD WORK (ELR) 3 Credit Hours
Principles of grape juice and wine analysis and the reasons for use of each analysis. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods. Students participate in workshops and hands-on experiences at participating wineries.
Prerequisite: ENOL 14600; and ENOL 16000.
Corequisite: ENOL 24600.
Schedule Type: Field Experience, Lecture
Contact Hours: .5 lecture, 2.5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ENOL 25992 CELLAR OPERATIONS FIELD WORK (ELR) 2 Credit Hours
Provide students initiated in the field of enology with actual and practical exposure to the technology of wine making as is performed during the passive vineyard periods associated with winter and spring. Students are expected to improve their understanding of the methods and science involved by on-site participation in each of the various activities associated with finished wine production. Course serves as actual practical exposure and may qualify as experience for those seeking employment in commercial enology.
Prerequisite: ENOL 25792.
Schedule Type: Field Experience, Lecture
Contact Hours: .6 lecture, 4.25 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ENOL 26600 SENSORY EVALUATION 3 Credit Hours
Intended for those individuals who need to develop an understanding of the principles of sensory evaluation used in commercial wine making. It also benefits wine enthusiasts interested in reaching advanced levels of appreciation, as well wine producers, wine merchants and enologists, who by the nature of their profession need to discern flavors and establish tasting benchmarks. Students practice sensory analysis at home and in workshops to further their sensory evaluation skills and techniques.
Prerequisite: ENOL 14600.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

ENOL 26800 WINE AND MUST ANALYSIS 3 Credit Hours
Principles of grape juice and wine analysis and the reasons for use of each analysis. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods. Students participate in workshops and hands-on experiences at participating wineries.
Prerequisite: ENOL 14600.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

Green and Alternate Energy (GAE)

GAE 31032 ENERGY AND POWER GENERATION 3 Credit Hours
This course covers fundamentals of energy and energy conversion processes. Students will have an exposure to various techniques of electric power generation including both conventional and alternative energy systems and conservation techniques. Includes a lab experience in electric power generation from renewable energy sources.
Prerequisite: PHY 12202 or PHY 13002 or PHY 13012.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

GAE 32000 FUEL CELL TECHNOLOGY 3 Credit Hours
Designed to provide a general perspective to fuel cell technology. Students are introduced to the various types of fuel cells, historical perspective, terminology, applications, fuel cell operation, basic electrochemical and thermodynamics principles involved in fuel cells, fuel cell components, materials and systems. Students learn basic fuel cell design principles and calculations.
Prerequisite: PHY 13012 or PHY 13002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GAE 42002 ENERGY MANAGEMENT SYSTEMS 3 Credit Hours
This course covers an introduction to energy fundamentals, energy systems, lighting, heating, ventilation and air conditioning, control systems for energy management. Alternative energy sources and green buildings will also be covered. The course focuses on improving energy efficiency, reducing energy use and reducing energy cost.
Prerequisite: PHY 12202 or PHY 13002 or PHY 13012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GAE 42004 ADVANCED FUEL CELL TECHNOLOGY 3 Credit Hours
Covers the theory and applications of fuel cell technology with an emphasis to proton exchange membrane fuel cells (PEMFCs). Students learn fuel cell component, stack and system design principles and fabrication methods, performance characterization, fuel cell testing and diagnostics methods. Students are introduced to transport phenomena in fuel cells. Introduction to hydrogen storage, generation and delivery, as well as hydrogen safety and regulations.
Prerequisite: GAE 32000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Horticulture (HORT)

HORT 10195 SPECIAL TOPICS IN HORTICULTURE 1-3 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in horticulture not covered in regular courses.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HORT 16002 INTRODUCTION TO AGROECOLOGY 3 Credit Hours
One of the major prerequisites for specialized courses, this is intended for freshmen students. This agroecology course will cover the principles and practices of creating sustainable and equitable food systems through an interdisciplinary approach to agriculture and horticulture systems. Students will learn about ecological processes, social and economic factors, environmental and health impacts, and practical farming skills such as crop rotation, intercropping and composting.
Prerequisite: BSCI 16001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 16003 INTRODUCTION TO HORTICULTURE TECHNOLOGIES AND SENSORS 1 Credit Hour
This is an introductory course to horticulture technologies and sensors that covers the principles and practices of using technology to enhance the efficiency and sustainability of horticulture. Students will learn about different types of sensors and how they are used in horticulture, as well as the latest trends in horticultural technology, including precision agriculture and automation. This course is for students interested in the latest advances in horticulture technology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

HORT 16004 DRONE TECHNOLOGY FOR HORTICULTURE 3 Credit Hours
This course will cover the principles and practices of using drones to improve the efficiency and effectiveness of horticultural operations. Students will learn about the different types of drones and sensors used in horticulture, as well as how to collect and analyze data for crop mapping, plant health monitoring and yield estimation. The course will also cover the regulatory and safety considerations for using drones in horticulture.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 16010 FLORAL DESIGN I 3 Credit Hours
Introduction to the concepts and practices of floral design for use in commercial settings. Topics include floral design theory, history, techniques and the skills required in the commercial floral design industry. Lab experience covers construction of basic floral products.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

HORT 16011 FLORAL DESIGN II 3 Credit Hours
Advanced training in a broad array of floral design applications including wedding design, contemporary European and Asian design, tropical flowers and outdoor compositions. Students will be provided hands-on laboratory activities to apply the principles of design.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

HORT 16020 PLANT MATERIALS I 3 Credit Hours
Design, selection, culture, and maintenance of flowering plants and foliage including annuals, perennials, bulbs and tropical plants for indoor and outdoor use.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 16021 WHOLESALE FLORICULTURE 3 Credit Hours
Commercial production, marketing, inventory management and post-harvest care associated with the floriculture industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 16022 GREENHOUSE STRATA 3 Credit Hours
Introduction to growing containerized plants in greenhouses and nurseries. Emphasis will be on issues related to traditional and alternative substrates, root media, irrigation practices, and soil matter.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 26001 OCCUPATIONAL REGULATIONS AND SAFETY 2 Credit Hours
Presentation of the basic standards, rules, safety regulations and laws pertaining to horticultural and related industries which will affect the work atmosphere.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HORT 26002 EMERGING TECHNOLOGIES IN HORTICULTURE AND PLANT SYSTEMS 3 Credit Hours
Course covers the principles behind these technologies and how they are being applied in various settings, from greenhouses and hydroponics systems to field-grown crops. Students will also have the opportunity to gain hands-on experience with some of these technologies through lab activities and projects. In addition to learning about the technical aspects of these technologies, students will explore potential social and ethical implications. Students will consider the role of biotechnology in addressing food security challenges and the potential impacts of precision agriculture on the environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 26003 ARBORICULTURE AND URBAN FORESTRY MANAGEMENT 3 Credit Hours
Course covers the principles and practices of managing trees in urban environments for both aesthetic and ecological purposes. Students learn about tree biology; tree selection and planting; tree care; pruning; pest and disease management; and risk assessment. The course also covers the importance of trees in urban ecosystems and the social, economic and environmental benefits they provide. Students gain a deep understanding of the role of trees in urban environments and develop the skills to manage them sustainably.
Prerequisite: BSCI 16001 and HORT 16003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 26006 SUSTAINABLE HORTICULTURAL SYSTEMS 3 Credit Hours
Course will provide the students with a holistic and solid understanding of sustainable horticulture. It emphasizes understanding the sustainable horticulture concepts, implications and common sustainable approaches and practices. The course focuses on the sustainable and innovative systems of horticultural crop production, such as hydroponics, aquaponics, and vertical farming, in addition to other tools and technologies for horticultural development. The course provides in-depth knowledge of the principles and practices of horticultural food crop production, including vegetables, herbs, fruits, and nuts) as well as agroforestry and sustainable landscaping. The course provides an overview of the role of precision farming innovations for a sustainable future.
Prerequisite: BSCI 16001 and BSCI 26002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 26016 IRRIGATION DESIGN AND MAINTENANCE 3 Credit Hours
Principles of irrigation design, installation maintenance and drainage. Specific information about the selection of sprinkler heads, pipe, pumps, basic hydraulics, water conservation methods and automatic control systems shall be explored. Drawing of irrigation plans shall be required.
Prerequisite: BSCI 16001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

HORT 26020 LANDSCAPE MANAGEMENT 3 Credit Hours
A detailed discussion and practice of managing trees, shrubs and flowers within the landscape. Additional concepts such as the types of equipment used in the "green industry," marketing, writing specifications, bidding projects and personnel management.
Prerequisite: BSCI 16001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Horticulture

HORT 26030 TURF GRASS MANAGEMENT 3 Credit Hours
Basic principles of turf management. Covers turf equipment and the safe use of equipment commonly found in the turf industry. Lecture two hours weekly; lab three hours weekly; course offered only at the Salem campus.
Prerequisite: BSCI 16001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: CTAG Horticulture

HORT 26032 GOLF COURSE MANAGEMENT 3 Credit Hours
The golf course environment as it relates to turf grass maintenance and pest/disease management. The construction and management of greens, tees, water and bunker management practices, turf aerification issues, topdressing and administrative concerns.
Prerequisite: BSCI 16001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 26046 LANDSCAPE DESIGN I 3 Credit Hours
An introduction to landscape appreciation and history, the landscape industry and elements of the landscape design process. Students will assess proper plant placement and uses, develop graphic communication skills and present a project. Field trips and project site work as required.
Prerequisite: BSCI 16001 and BSCI 26003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 30195 SPECIAL TOPICS IN HORTICULTURE 3 Credit Hours
(Repeatable for credit) Analysis of significant and current topics in horticulture not covered in regular classes.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

HORT 35092 HORTICULTURE PRACTICUM (ELR) 3 Credit Hours
Course is designed for students to acquire the necessary skills to perform professionally in the horticulture industry. This course requires a minimum of 30 hours per week of work experience.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

HORT 36004 MARKET GARDEN PRODUCTION 3 Credit Hours
Course will cover the principles and practices of growing and marketing crops on a small scale for local markets. Students will learn about site selection, soil management, crop planning and rotation, irrigation, pest and disease management and post-harvest handling. The course will cover marketing strategies for selling crops directly to consumers, including farmers markets, community-supported agriculture (CSA) and online sales.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 36005 ORCHARD PRODUCTION - DECIDUOUS AND EVERGREEN 3 Credit Hours
Course covers the principles and practices of commercial fruit tree production, including fruit, nut and citrus trees. Students learn about orchard establishment, including site selection, planting and irrigation; in addition to tree management techniques such as pruning, thinning and pest and disease management. The course also covers fruit tree physiology, fruit development and post-harvest handling.
Prerequisite: BSCI 16001 and BSCI 26003; or BSCI 26004.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 36014 PLANT PROPAGATION AND GREENHOUSE PRODUCTION 3 Credit Hours
Asexual/vegetative propagation including anatomical and physical concepts. Techniques covered include cuttings, budding, grafting, layering, dividing and micropropagation. Plant propagation by seeding and plugs are promoted along with crop production. Students provide an annual production schedule. Lecture two hours weekly; lab three hours weekly.
Prerequisite: BSCI 16001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 36018 LANDSCAPE CONSTRUCTION II 3 Credit Hours
Advanced landscape construction techniques involved in landscape contracting with an emphasis on the overall layout and planning of a landscape project. Students master and research product documentation, layout plans, written specifications and detailed construction drawings as they pertain to built landscape environments. Specific field site work with real world applications. Lecture two hours weekly; lab 3 hours weekly.
Prerequisite: Junior or senior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 36025 PROFESSIONAL PRACTICE IN HORTICULTURE (WIC) 3 Credit Hours
Investigation into owning and operating a green industry company including customer relations, wholesale and retail marketing, project bidding, potential profit and loss margins, communication requirements, and overall services to public and private clientele.
Prerequisite: HORT 26001 and HORT 26016.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HORT 36034 SPORTS TURF MANAGEMENT 3 Credit Hours
Identification of grass plant species; culture and morphology; turf ecology with practical information on turf establishment and cultural practices. Covers issues of design, renovation, and maintenance of sports grounds and facilities. Class requires 20 hours service learning component.
Prerequisite: HORT 26030; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 36046 LANDSCAPE DESIGN II 3 Credit Hours
Advanced landscape design looking at overall landscape planning, including site and planting design, site amenities, irrigation design and client needs. Special attention to communication formats such as color rendering and graphics, as well as to overall presentation. Some design modeling and graphic sketching are included.
Prerequisite: HORT 26032 or HORT 26046; and junior or senior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 36092 INTERNSHIP IN HORTICULTURE (ELR) 1-4 Credit Hours
(Repeatable for credit) Internship experience in an advanced field of study within the horticulture/green industry, building on the student's understanding of science-based fundamentals. Internship requires a minimum of 210 working hours with an approved public organization or private green industry firm, and 2 hours per week consultation on independent research as approved and supervised by the academic program director. Work includes supporting documentation and written reports as deemed appropriate give the subject studied.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HORT 36195 SPECIAL TOPICS IN HORTICULTURE 3 Credit Hours
Analysis of significant and current topics in horticulture not covered in regular classes.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 41096 INDIVIDUAL INVESTIGATION IN HORTICULTURE 1-3 Credit Hours
(Repeatable for credit)Research under the direction of a horticulture faculty/program director mentor. Investigation of specific horticulture topics that build upon previous concentration areas of study.
Prerequisite: Junior or senior standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

HORT 46008 FLORICULTURE AND ORNAMENTAL PLANTS 3 Credit Hours
Course will cover the principles and practices of producing and using ornamental plants for aesthetic and functional purposes. Students will learn about the biology and physiology of ornamental plants, as well as techniques for plant propagation, production and post-harvest handling. The course will also cover the design and management of ornamental landscapes, including plant selection, placement and maintenance.
Prerequisite: BSCI 16001 and BSCI 26002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 46009 ADVANCES IN VITICULTURE PRODUCTION 3 Credit Hours
Course will cover the principles and practices of grapevine production and management. Students will learn about vineyard establishment and maintenance, including site selection, soil preparation, planting, trellising, and irrigation. The course will cover grapevine physiology and biology, including grape development, canopy management, pest and disease management and harvest and post-harvest handling.
Prerequisite: BSCI 16001 and BSCI 26002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 46013 INTERNET OF THINGS AND ARTIFICIAL INTELLIGENCE IN PRECISION FARMING: TECHNOLOGIES AND APPLICATIONS 3 Credit Hours
Course covers the principles and practices of using cutting-edge technologies such as the Internet of things (IoT) and artificial intelligence (AI) in precision agriculture. Students learn about the sensors, drones and other IoT devices used in agriculture, as well as the data analysis and machine learning techniques used in AI. The course covers the applications of these technologies in crop management, soil monitoring, pest and disease control and yield prediction.
Prerequisite: HORT 16003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HORT 46014 GARDEN CENTER AND NURSERY PRODUCTION MANAGEMENT 3 Credit Hours
Survey of plant production of container, bare-root, balled-in-burlap plant materials in a nursery setting. Exploration of physiological principles involved, including planting, maturity dates for harvest, shipping, garden center activities and wholesale and retail marketing of stock.
Prerequisite: BSCI 26002 and BMRT 11000; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 46092 PRACTICUM IN HORTICULTURE (ELR) 3 Credit Hours
(Repeatable for credit) An in-depth individual project, combining field experiences with original research within a green industry niche. Area of interest supports the student's educational goals given their intended concentration of past class work.
Prerequisite: HORT 36092; and junior or senior standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

Human Services (HSRV)

HSRV 11000 FOUNDATIONS OF HUMAN SERVICES 3 Credit Hours
An overview of the roles, history, values, systems, policies, theories and core conceptions of the human services professions across a range of social problems including child abuse and neglect, addictions, poverty, aging, mental health and illness, prevention and corrections and society's response through the human service delivery system.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

HSRV 11001 GROUP METHODS IN HUMAN SERVICES 3 Credit Hours
Introduction to theory, research and application of the practice, structure and function, analysis, problem solving strategies and skills in working with small groups with respect to the cultural context, types of groups and special populations such as addiction are addressed from a systems perspective within the human services purposes, values and ethics framework.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HSRV 11002 SURVEY OF COMMUNITY RESOURCES 3 Credit Hours
A survey of providers at the federal, regional, state and local levels, including services provided and regulations of private and public agencies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HSRV 21000 DYNAMICS OF HELPING RELATIONSHIPS 3 Credit Hours
Introduction to communication skills in systems of professional practice with emphasis on skill development in motivational interviewing, principles of effective communication, functions and purposes of communication, active listening, building empathy, establishing therapeutic rapport, case conceptualization and provisions of assistance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HSRV 21001 ASSESSMENT METHODS IN HUMAN SERVICES 3 Credit Hours
Introduction to client assessment, intervention and evaluation methods for generalist practice within a strengths based recovery model with emphasis on the biopsychosocial development across the lifespan. Understanding of mental illness, addictions, developmental disabilities and the impact of trauma, etc.; utilization of specific assessment skills and tools including: stages of change, level of care, recovery and resiliency, crisis response and de-escalation.
Prerequisite: HSRV 11000 or HSRV 21003; and permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HSRV 21002 COMMUNITY SUPPORTIVE CASE MANAGEMENT AND ADVOCACY IN HUMAN SERVICES 3 Credit Hours
Introduction to the purposes, intent and activities of a community supportive case manager: assessment, facilitation and coordination of services, linkage, referral, coordination assistance in crisis management and stabilization, outreach, education, training; intervention, support and elimination of barriers to autonomy. Develop an understanding of systems of care; and population characteristics: mental health, addiction, recovery, culture, age, and gender, etc. with emphasis on advocacy in human services practices. Recommend students take HST 21001 in preparation.
Prerequisite: HSRV 11000 or HSRV 21003; and permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HSRV 21003 SOCIAL WELFARE IN HUMAN SERVICES 3 Credit Hours
Introduction to the history and development of social welfare including current federal and state social policy in the delivery of services; understanding of ideologies, values and ethics forming the social services foundation; financial, organizational and administrative structures influencing social services; fields of practice, populations served, mechanisms of poverty, oppression and discrimination; diversity issues in delivery of services and empowering at risk and vulnerable populations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

HSRV 21092 INTERNSHIP IN HUMAN SERVICES I (ELR) 3 Credit Hours
(Repeatable for credit) Supervised field experience in a human service agency totaling equivalent of 315 hours. Joint university-agency supervision.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HSRV 21192 INTERNSHIP IN HUMAN SERVICES II (ELR) 3 Credit Hours
(Repeatable for credit) Continued supervised field experience in a human services agency totaling 315 hours equivalent. Joint university-agency supervision.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Information Technology (IT)

IT 11000 INTRODUCTION TO OFFICE PRODUCTIVITY APPS 3 Credit Hours
(Equivalent to CIS 24053) Covers the basic concepts and use of computer systems, including hardware, personal productivity software, Internet usage and file management.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

IT 11004 SURVEY OF INFORMATION TECHNOLOGY 3 Credit Hours
Overview introduction to information technologies, career paths and professional certifications available.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 11005 INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY 3 Credit Hours
Survey of desktop and network operating systems essentials, including file and disk management, system tools utilization, security concepts, resource sharing and introductory network concepts. Students will learn about a variety of operating systems including mobile devices. Students will learn fundamentals of networking including network devices, cabling, numbering systems and network models.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 11006 INTRODUCTION TO WEB SITE TECHNOLOGY 3 Credit Hours
Focuses on website technologies, including HTML. Students learn the history of the Internet and effective search techniques.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 11009 COMPUTER ASSEMBLY AND CONFIGURATION 3 Credit Hours
Comprehensive course covering concepts like disk operating system functions and features; hardware/software installation procedures; file and directories management; system configuration/optimization; backup procedures; security; access control; networking, mobile devices, servers, cloud technologies and user management.
Prerequisite: CS 33211 or IT 11005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 12000 INTERMEDIATE OFFICE PRODUCTIVITY APPS 3 Credit Hours
Covers intermediate concepts and integration of computer applications. Emphasis on software suites, specifically word processing, electronic spreadsheets, database and presentation applications.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 13000 APPLIED SECURITY ESSENTIALS 3 Credit Hours
Course provides an introduction to the principles, challenges and practices of cybersecurity. Students explore key concepts related to information security and data privacy, understand common vulnerabilities, and examine the strategies used to mitigate cyber risks. Topics include network security, cryptography, malware, intrusion detection, compliance frameworks and the risks associated with emerging technologies such as IoT and healthcare IT.
Prerequisite: IT 11005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 15000 FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY 3 Credit Hours
Course provides a foundation in computer programming, focusing on key concepts, principles and practices. Students learn about the evolution of programming languages, explore the software development life cycle and apply basic programming techniques. The course covers logical thinking, procedural programming and control structures (conditional statements, loops, switch statements). Students gain hands-on experience using Integrated Development Environments/Integrated Development Learning Environment, manage version control in web-based collaborative repository and implement basic file management and security practices. Additionally, the course introduces secure programming, troubleshooting techniques and explores various applications of programming.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 20030 VISUAL AND OBJECT-ORIENTED PROGRAMMING IN INFORMATION TECHNOLOGY 3 Credit Hours
Course provides an introduction to the fundamental concepts of visual programming and object-oriented programming within the context of Information Technology. Students learn to design and develop interactive programs using graphical user interfaces and apply object-oriented programming principles, such as encapsulation, inheritance and polymorphism. Course covers essential topics including database connectivity, internet programming and the development of dynamic web applications.
Prerequisite: IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21002 NETWORK SETUP AND CONFIGURATION 3 Credit Hours
Introduces networking in local area network (LAN), wide area network (WAN) and Cloud environments. Topics include network hardware, numbering systems, protocols, configuration, operation, setup, installation, administration, management and security. Students will also learn and practice troubleshooting strategies.
Pre/corequisite: IT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Information Technology

IT 21003 SYSTEM ADMINISTRATION FOR INFORMATION TECHNOLOGY PROFESSIONALS 3 Credit Hours
Course provides an introduction to system administration, focusing on the skills and knowledge required to manage, configure and troubleshoot IT systems in professional environments. Students learn the fundamentals of managing operating systems, networks and user environments across diverse platforms. Emphasis is placed on practical skills in system configuration, resource management, security and network services.
Prerequisite: IT 11005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21005 VISUAL BASIC DATABASE PROGRAMMING 4 Credit Hours
Advanced course in the visual basic language focusing on database systems development.
Prerequisite: CIS 24065 or CS 13001 or EMAT 25310.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

IT 21006 DATABASE PROGRAMMING 3 Credit Hours
Focuses on database systems development, querying, report writing, and troubleshooting using object-oriented programming languages and Structed Query Language.
Prerequisite: CS 13001 or CIS 24065 or EMAT 25310 or IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21007 CYBER ETHICS IN INFORMATION TECHNOLOGY 3 Credit Hours
Covers the ethics, issues and policies regarding the Internet. Course includes discussion/research on intellectual property/freedom, hacking, pornography and privacy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21009 SEMINAR IN INFORMATION TECHNOLOGY 3 Credit Hours
Capstone course encompassing critical thinking, reflection, writing and discussion applying current theories of IT to on-the-job experiences and roles, with an emphasis on preparation for a career in IT. Students develop a portfolio to confirm their level of knowledge.
Prerequisite: IT 11005 and IT 11006 and IT 11009 and IT 15000 and IT 21002 and IT 21010.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

IT 21010 WORKGROUP PRODUCTIVITY SOFTWARE 3 Credit Hours
Research project-oriented course emphasizing workgroup methodologies for group project management, problem definition, data retrieval and analysis, conclusions and recommendations.
Prerequisite: IT 12000; or OTEC 16639 and OTEC 26611.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21011 TECHNIQUES OF MULTIMEDIA WEB DESIGN 3 Credit Hours
Focuses on developing and managing effective web sites using multimedia elements, including sound and video.
Prerequisite: IT 11006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21036 WEB SCRIPTING I 3 Credit Hours
Course focuses on client-side scripting needed to create interactive and dynamic websites. The use of scripting in context with various technologies is explored.
Prerequisite: CS 13001 or CIS 24065 or EMAT 25310 or IT 11006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21037 WEB SCRIPTING 3 Credit Hours
Introduces foundational client-side scripting skills essential for building interactive, dynamic websites. Students learn to design and implement scripts to enhance web functionality and user experience, with a focus on scripting within modern web technologies and best practices in JavaScript development.
Prerequisite: CS 13001 or CIS 24065 or EMAT 25310 or (IT 15000 and IT 11006).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21092 PRACTICUM FOR INFORMATION TECHNOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience in information technology environment; 45 hours supervised work experience per credit hour.
Prerequisite: Sophomore standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

IT 21095 SPECIAL TOPICS IN INFORMATION TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Topics announced when scheduled.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

IT 21096 INDIVIDUAL INVESTIGATION IN INFORMATION TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Individual study in computer field.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 7-28 other
Grade Mode: Standard Letter

IT 21100 LOCAL AREA NETWORK TROUBLESHOOTING 3 Credit Hours
Covers local area network troubleshooting techniques. Topics include identifying the scope of the problem, systematic troubleshooting approaches, problem resolution and ongoing maintenance.
Prerequisite: CS 33211 or IT 21002 or; ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21110 NETWORK ROUTING AND SWITCHING 3 Credit Hours
Course covering internetworking concepts. Topics include networking standards, network designs, cabling, Transmission Control Protocol/Internet Protocol (TCP/IP), routing protocols, switch and router configuration, local area network (LAN) and wide area network (WAN) segments, virtual local area network#(VLAN) and other related topics.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21200 ETHICAL HACKING 3 Credit Hours
Tools and techniques ethical hackers and security testers use to discover vulnerabilities and solutions to protect computer networks.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: ITAG Ethical Hacker

IT 21300 INTRODUCTION TO SECURITY INCIDENT MANAGEMENT 3 Credit Hours
Course covering an introduction to defending against cyber attackers.
Prerequisite: IT 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 23000 INTRODUCTION TO OPERATING SYSTEM SECURITY 3 Credit Hours
Course introducing operating system security configurations, considerations, and best practices.
Prerequisite: CS 33211 or ENGR 23010 or IT 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 24000 DEVELOPING AND IMPLEMENTING SECURITY POLICIES 3 Credit Hours
This course covers governance, legal considerations, and regulations related to information security policy development and implementation.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 26315 CERTIFICATION PREP IN INFORMATION TECHNOLOGY 3 Credit Hours
Certification preparation course helps students prepare for professional certification attempts in Information Technology. Certification is not guaranteed. Certification fees may apply.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 30000 PYTHON PROGRAMMING IN INFORMATION TECHNOLOGY 3 Credit Hours
Python language introducing object-oriented programming concepts utilized in various roles in the IT field. Topics include: implementation, variables, file and exception handling, control/data structures, functions, collections and modules.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 31002 HEALTH INFORMATION TECHNOLOGY SUPPORT 3 Credit Hours
Course covers skills and knowledge required to implement and support healthcare IT (HIT) systems including regulatory and compliance issues; organizational behavior, IT and medical business operations; best practices and security.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36095 SPECIAL TOPICS IN INFORMATION TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Special topics from all areas of information technology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

IT 36301 ADVANCED C++ PROGRAMMING 4 Credit Hours
Course using C++ classes and data abstraction, stream IO, inheritance, standard template library, Microsoft Foundation Classes, system programming concepts using Unified Modeling Language.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

IT 36302 ADVANCED C# PROGRAMMING 3 Credit Hours
Advanced concepts of C# including classes and objects, inheritance, polymorphism, arrays, exception handling, files and streams and Extensible Application Markup Language (XAML).
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36303 DIGITAL IMAGE EDITING 3 Credit Hours
Course covers various concepts involved in the creation and manipulation of digital images.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36304 C++ PROGRAMMING 3 Credit Hours
Course expands on foundational C++ programming skills, covering advanced object-oriented programming, data structures, pointers, dynamic memory management and file I/O. Students use the Standard Template Library and develop efficient, maintainable C++ applications through hands-on projects, with an emphasis on exception handling, debugging and performance optimization.
Prerequisite: IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36305 C# PROGRAMMING 3 Credit Hours
Course advances C# programming skills, emphasizing object-oriented principles, data structures, file handling, and data manipulation using LINQ and the development of Windows and web applications using C#. Students develop both Windows and web applications, focusing on asynchronous programming, error handling and debugging to create efficient, maintainable applications through hands-on projects and exercises.
Prerequisite: IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36306 JAVA PROGRAMMING 3 Credit Hours
Course advances Java programming skills, covering core object-oriented concepts, data structures, algorithms and multithreading. Topics include exception handling, file input/output, network programming and Graphical User Interface development. Through hands-on projects and practical applications, students develop efficient and robust Java applications.
Prerequisite: IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36308 ERGONOMICS AND USABILITY IN INFORMATION TECHNOLOGY 3 Credit Hours
Introduction to ergonomics, usability design and assessment methods for the development of computer hardware, software and systems.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36309 PROGRAMMING MOBILE APPLICATIONS 3 Credit Hours
Introduces the unique program design considerations required by mobile devices. Course focuses on creating programs that can be deployed on different devices.
Prerequisite: CIS 24065 or CS 13001 or EMAT 25310 or IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36311 ADVANCED JAVA PROGRAMMING 4 Credit Hours
Course using Java abstract data types and objects, object-oriented, event-driven design, file organization and access, and systems programming concepts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

IT 36314 SEMINAR IN EMERGING COMPUTER AND INFORMATION TECHNOLOGIES 3 Credit Hours
Survey of new and emerging technologies in computer and information technology.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36318 SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC) 3 Credit Hours
Course provides a non-technical introduction to contemporary issues in information security, Internet fraud and computer forensics.
Prerequisite: ENG 21011 or HONR 10297; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

IT 36320 COMPUTER FORENSICS 3 Credit Hours
Hands-on skills in incident response, forensic preparation and data recovery and analysis.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36321 NETWORK FORENSICS 3 Credit Hours
Emphasizing hands-on skills in live incident response, the proper use of network forensic tools, network monitoring, live data capture, evidence analysis, data integrity and other related topics.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36322 SOCIAL MEDIA AND MOBILE DEVICE FORENSICS 3 Credit Hours
Course covers data collection and analysis techniques for social media and mobile devices.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36330 NETWORK SECURITY FUNDAMENTALS 3 Credit Hours
Examines the primary issues involved in securing resources in networked environment, including threat assessment, countermeasures, best practices, security protocols, cryptography and management-related issues.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36331 ADVANCED ROUTING AND SWITCHING 3 Credit Hours
Reinforcing Internetworking concepts. Topics include network standards, LAN switching, VLANs, network designs, routing protocols and configuration, LAN and WAN segments, and other related topics.
Prerequisite: IT 21110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36339 CLOUD AND VIRTUALIZATION TECHNOLOGIES IN INFORMATION TECHNOLOGY 3 Credit Hours
Covers the basics of the common cloud computing and major virtualization technologies and their place in the modern enterprise. Topics include foundational understanding of virtualization implementations and tools; and how to plan, install, manage, configure, monitor and secure public, private, hybrid, cloud and service models for platform, software, infrastructure and other technologies.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36340 HELP DESK SUPPORT 3 Credit Hours
Examination of help desks that exist, importance within organizations, the roles and skills required, and methods and technologies commonly employed.
Prerequisite: IT 11009 or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36350 PROGRAMMING OFFICE PRODUCTIVITY APPLICATIONS 3 Credit Hours
Introduces the use of Visual Basic for Applications as a tool to create customized programs that automate repetitive and/or complex tasks performed using office suite applications.
Prerequisite: IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36355 COMMAND LINE UTILITIES 3 Credit Hours
Course prepares students to perform effectively in Windows, Linux and various server command line environments. Topics include command syntax, batch files, script files and internal and external commands.
Prerequisite: CS 33211 or EMAT 25310 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36392 INTERNSHIP FOR INFORMATION TECHNOLOGY STUDENTS (ELR) 1-3 Credit Hours
(Repeatable for Credit) An arranged work experience for students in the information technology field. Students complete 45 hours of internship per credit.
Prerequisite: Junior standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

IT 36396 CERTIFICATION PREPARATION IN INFORMATION TECHNOLOGY 3 Credit Hours
(Repeatable for Credit) Certification preparation course to help students prepare for professional certification attempts in information technology. Certification is not guaranteed and certification fees may apply.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

IT 40000 CYBERSECURITY 3 Credit Hours
Builds on a background in networking and focuses on cybersecurity best practices, standard models and regulatory requirements.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 41002 CLOUD TECHNOLOGY 3 Credit Hours
Course introduces the concepts and fundamentals of cloud computing and gives an understanding of the many services that are available to cloud technology, as well as the benefits and risks when compared to on-site methods. Cloud technology in networking, incident response/disaster recovery, data storage, virtualization, management, monitoring, security, and automation are also discussed.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 41010 MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY 3 Credit Hours
Course covers enterprise mobility technical concepts, strategies, and solutions across various domains and industries. Includes topics such as organizational issues, IT and business operations; and best practices and security.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 42000 SOCIAL MEDIA SECURITY 3 Credit Hours
Personal and corporate social media presence, security risks, intellectual property and ethical issues.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 43000 HEALTHCARE INFORMATION SYSTEMS 3 Credit Hours
Course focuses on the roles and responsibilities of the health information technology professional including the technology, legal and ethical responsibilities and complex systems and environment.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46300 ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION 3 Credit Hours
Focus is on advanced system components, streamlined operating system installation procedures, and current technology in local area network (LAN) connectivity.
Prerequisite: IT 11009; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46303 DIGITAL VIDEO EDITING 3 Credit Hours
Utilizes digital imaging technologies to produce videos. Includes timelines; filming, importing/exporting video; audio; effects, transitions and captions.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46308 ADVANCED VISUAL BASIC PROGRAMMING 3 Credit Hours
Advanced concepts of visual basic, including classes and objects, inheritance, polymorphism, arrays, exception handling, files and streams and dynamic-link library (DLL).
Prerequisite: CIS 24065 or CS 13001 or EMAT 25310.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46309 ASP.NET WEB PROGRAMMING 3 Credit Hours
Using Visual Studio and the ASP.NET platform to develop secure, data-aware web applications. Topics covered include HTML and CSS, testing and debugging, master pages, state management, security and authentication, Structure Query Language and object data sources.
Prerequisite: CS 13001 or CIS 24065 or EMAT 25310 or IT 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46311 TECHNOLOGY OF NETWORKING 3 Credit Hours
Advanced topics of enterprise LAN/WAN/Cloud management, including DNS, DHCP, IP addressing, routing basics, subnet masking, firewalls, storage redundancy techniques, network update and security, cloud services and general tuning, optimizing, troubleshooting, recovery.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46313 VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION 3 Credit Hours
Focus on configuring and administering virtual machine software in a variety of environments including desktop and network solutions.
Prerequisite: IT 21002 and IT 36339; or ENGR 26305 and ENGR 27100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46314 ADVANCED SERVER CONFIGURATION 3 Credit Hours
Course focus is on the core service roles provided by application services, including configuration, maintenance and security.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46315 SQL WITH ORACLE 3 Credit Hours
Focus is on Structured Query Language. (SQL) and relational databases using Oracle, a comprehensive and fully integrated stack of cloud applications and platform services.
Prerequisite: CIS 24065 or CS 13001 or EMAT 25310 or IT 21005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46320 CLOUD FORENSICS 3 Credit Hours
Concepts of cloud forensics, including legal consideration and software tools involved with discovery in the cloud.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46331 NETWORK SECURITY AND FIREWALLS 3 Credit Hours
Course examines the primary issues involved in defining and configuring network defense perimeter, including security analysis, monitoring networks, implementing firewalls and intrusion detection systems.
Prerequisite: IT 36330.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46340 DATA DESIGN AND IMPLEMENTATION 3 Credit Hours
Explores the role and design of databases in organizations, with emphasis on the technologies used in their implementation. Emphasis on Structured Query Language and large data sets.
Prerequisite: IT 21005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46350 DATABASE ADMINISTRATION AND REPORTING TOOLS 3 Credit Hours
Examines the role of database administrator, focusing on maintaining, validating and securing data along with use of report writing tools, techniques and best practices.
Prerequisite: IT 21005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Insurance Studies (INS)

INS 29000 INTRODUCTION TO INSURANCE AND RISK 3 Credit Hours
Introduction into the fields of insurance and risk management including, property and casualty, life, health, auto and other types of insurances. Personal and commercial risks are identified and quantified for potential loss.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 39000 INSURANCE LAW, FINANCE AND RISK MANAGEMENT 3 Credit Hours
Next-level insurance and risk management topics including ERM, insurance law and financial statement analysis. Other topics include impact of laws and regulation on insurers and additional elements of life insurance, annuities, IRAs, auto insurance, crime insurance and surety bonds.
Prerequisite: INS 29000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 39001 INSURANCE OPERATIONS (WIC) 3 Credit Hours
A detailed review of the strategic and tactical operations of the insurance industry. Explores the Function and role of insurers, claims management, rate making, financial structures and underwriting.
Prerequisite: INS 39000 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

INS 49000 LIFE AND HEALTH INSURANCE 3 Credit Hours
A detailed review of life and health insurance and their impact on individuals and society. The objective is a familiarization with various life and health products and how these products protect people and their families against financial losses caused by death, accident, sickness or disability.
Prerequisite: INS 39001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 49001 PERSONAL LINES INSURANCE 3 Credit Hours
Study of property and casualty personal lines of insurance including automobile, homeowner, dwelling and other residential policies, "toys" such as motor homes, motorcycles and boats, and high-risk plans for earthquake, flood and windstorm.
Prerequisite: INS 39001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 49002 COMMERCIAL INSURANCE 3 Credit Hours
Advanced concepts in commercial lines insurance including commercial property, commercial liability, business income, commercial crime and equipment breakdown insurance, commercial auto, workers compensation, business owners and specialty coverages.
Prerequisite: INS 39001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 49092 INSURANCE PRACTICUM GENERAL (ELR) 3 Credit Hours
(Repeatable for credit) Course requires an on-sight internship and/or a project with an insurance related organization approved by the Instructor.
Prerequisite: INS 39000 and 39001; and special approval.
Schedule Type: Practical Experience
Contact Hours: 21 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

Mechanical Engineering and Related Technology (MERT)

MERT 12000 ENGINEERING DRAWING 3 Credit Hours
Engineering drawing principles and techniques: orthographic projection, sketching, sections, auxiliary views, dimensioning and conventional practices.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Engineering Graphics

MERT 12001 COMPUTER-AIDED DESIGN 3 Credit Hours
Introduces 3D modeling techniques to design and draft mechanical components and assemblies.
Prerequisite: MERT 12000 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Mechanical Engineering Technology, ITAG Mechanical Engineering Technology, TAG Engineering Technology

MERT 12004 MANUFACTURING PROCESSES 3 Credit Hours
Introduces students to the various manufacturing processes such as extrusion, molding, forging, casting, stamping, piercing, joining and finishing. Investigates the various ways parts are made from the vast array of materials available.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Mechanical Engineering Technology, TAG Engineering Technology

MERT 12005 PROPERTIES OF MATERIALS 3 Credit Hours
Covers the structure and physical and mechanical properties of engineering materials, such as metals (ferrous and non-ferrous), polymers, ceramics and composites. Students learn the mechanical behavior of materials under different types of loading and testing of mechanical properties including elasticity, yield strength, ultimate tensile strength, shear strength, bending strength and hardness. Heat treatment and the effects of the manufacturing processes on the material properties are also considered.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

MERT 21096 INDIVIDUAL INVESTIGATION IN MECHANICAL ENGINEERING TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Independent in depth research of a mechanical engineering technology topic supervised and coordinated by an engineering technology faculty member.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MERT 22003 COMPUTER-AIDED TOOL DESIGN 3 Credit Hours
Tool design practices and procedures including materials, commercial standards, cutting tools, drill jigs, fixtures, dies and gauges using computer-aided design.
Prerequisite: MERT 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MERT 22005 STATICS 3 Credit Hours
Basic vector mechanics, calculation of reactions from applied forces, drawing free body diagrams, working with equations of equilibrium, analysis of simple structures, calculating mass properties and forces due to friction.
Prerequisite: None.
Corequisite: MATH 11022.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

MERT 22007 STRENGTH OF MATERIALS 3 Credit Hours
Course covers taking the stresses induced into members due to applied loading; and coupled with mass properties of the sections, designing members to safely carry the loads. Types of stresses considered are tensile, compressive, shear, bending, torsional and combined.
Prerequisite: MERT 22005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

MERT 22012 FLUID POWER 3 Credit Hours
Fluid properties, kinematics of fluid flow, momentum, viscosity, conservation of energy in fluid flow, industrial hydraulics and gas laws.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

MERT 22095 SPECIAL TOPICS IN MECHANICAL ENGINEERING TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Special topics in mechanical engineering technology.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MERT 32004 MACHINE DESIGN 3 Credit Hours
This course provides the concepts, procedures, data, and decision analysis techniques necessary to design machine elements commonly found in mechanical devices and systems.
Prerequisite: MERT 12001 and MERT 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MERT 34002 ADVANCED SOLID MODELING 3 Credit Hours
Advance parametric solid modeling using advanced software (CREO) to create and analyze solid models. Includes model creation using advance features, introduction to FEA simulation and manufacturing simulations.
Prerequisite: MERT 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MERT 42000 THERMODYNAMICS FOR ENGINEERING TECHNOLOGY 3 Credit Hours
Includes the study of the first and second laws of thermodynamics with a detailed study of various types of heat engines. Additional topics include principles of heat transfer and energy management.
Prerequisite: PHY 13001; and PHY 13002 or PHY 13012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Medical Assisting (MA)

MA 10001 FUNDAMENTALS OF MEDICAL ASSISTING 1 Credit Hour
Introduction to the fundamental responsibilities and skills of the medical assistant, including concepts of medical asepsis, nutritional care, positioning and draping, vision and hearing screening. Emphasis is placed on incorporating knowledge of the role of the medical assistant, professional communication and associated ethical/legal considerations.
Prerequisite: AHS 24010 or HED 14020; and BSCI 10001 or BSCI 11010.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MA 10002 MEDICATION ADMINISTRATION FOR MEDICAL ASSISTANTS 1 Credit Hour
Course develops mathematical competence to safely administer medications via parenteral and non-parenteral routes of administration. Emphasis is placed on integrating knowledge of commonly used medications and principles of safe patient care and monitoring.
Prerequisite: AHS 24010 or HED 14020; and BSCI 10001 or BSCI 11010.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MA 10003 PHLEBOTOMY FOR MEDICAL ASSISTANTS 1 Credit Hour
Course provides students with foundational knowledge and skill development to identify principles and steps of specimen collection of blood samples and to incorporate quality assurance practices, standard precautions, infections control procedures and CLIA-waived testing.
Prerequisite: AHS 24010 or HED 14020; and BSCI 10001 or BSCI 11010.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MA 10004 ELECTROCARDIOGRAM FUNDAMENTALS FOR MEDICAL ASSISTANTS 1 Credit Hour
Course provides theory and practice for completion of 12 lead electrocardiogram and allows students to demonstrate recognition of normal electrocardiograms, procedural steps of the diagnostic test, application of the understanding of the cardiovascular system and concepts of safe patient care.
Prerequisite: AHS 24010 or HED 14020; and BSCI 10001 or BSCI 11010.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MA 10005 BASIC CLINICAL MEDICAL ASSISTING PROCEDURES 3 Credit Hours
Course provides students with a foundational overview and practice of basic procedures completed in the physician's office and outpatient health care settings. It incorporates concepts of critical thinking, safety, infection control and appropriate communication and patient education expected of the medical assistant during procedures. Emphasis is placed on laboratory testing, associated pathology, collection and processing of specimens aligned with the Occupational Health and Safety Administration (OSHA) and Clinical Laboratory Improvement Amendment (CLIA) regulations and guidelines as applicable. Laboratory testing includes basic urinalysis, microbiology testing, serological testing, hematology testing and point0of-care testing.
Prerequisite: AHS 24010 or HED 14020; and BSCI 10001 or BSCI 11010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MA 10006 REIMBURSEMENT FOR PHYSICIAN SERVICES 3 Credit Hours
Introduction to basic medical practice finances, including insurance forms, common terminology and basic coding processes used in the health care setting. Students understand the aspects of third-party reimbursement processes in the medical office.
Prerequisite: MA 10001 and MA 10002 and MA 10003 and MA 10004 and MA 10005 and OTEC 26635.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MA 10007 ADVANCED CLINICAL MEDICAL ASSISTING 4 Credit Hours
Course provides students with theory and practice of advanced procedures that medical assistants encounter or complete in outpatient health care settings, including physician offices and outpatient settings. It incorporates concepts of critical thinking, safety, infection control and appropriate communication during procedures. Students practice application of theory to various diagnostic tests and procedures in the following specialty areas: ophthalmology, otology, gastroenterology, genitourinary, obstetrics/gynecology, pediatrics, orthopedics, neurology, mental health, endocrinology and pulmonary.
Prerequisite: MA 10001 and MA 10002 and MA 10003 and MA 10004 and MA 10005 and OTEC 26635.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 4 lab
Grade Mode: Standard Letter

MA 10092 MEDICAL ASSISTING PRACTICUM (ELR) 3 Credit Hours
Capstone course in medical assisting with supervised clinical experience in an ambulatory healthcare setting. Students perform and participate in clinical and administrative activities that allow demonstration of knowledge and skills of a medical assistant. Minimum 160 clock hours. This course requires students to be at least 18 years of age.
Prerequisite: MA 10001 and MA 10001 and MA 10003 and MA 10004 and MA 10005 and OTEC 26635.
Pre/corequisite: MA 10006 and MA 10007.
Schedule Type: Practical Experience
Contact Hours: 10.66 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

Nursing Technology (NRST)

NRST 10001 FOUNDATIONS OF NURSING AGENCY 5 Credit Hours
Development of basic nursing skills and physical assessment. Students begin implementation of the nursing process using universal self-care requisites as an organizational framework.
Prerequisite: Admission to technical study; and nursing ADN major.
Schedule Type: Clinical Laboratory, Combined Lecture and Lab
Contact Hours: 2 lecture, 4.67 lab, 4.33 other
Grade Mode: Standard Letter
Attributes: CTAG Nursing/Associate Degree, ITAG Nursing/Associate Degree

NRST 10003 NURSING AGENCY I 6 Credit Hours
Emphasizes broad concepts common to nursing practice. Increasingly complex skills are introduced. Care focuses on simple therapeutic self-care demands.
Prerequisite: Minimum C grade in the following: BSCI 11010 and CHEM 10055 (or CHEM 10050) and NRST 10001 and UC 10001 and one from the Kent Core Mathematics and Critical Reasoning category; and nursing ADN major; and minimum 2.000 overall GPA.
Schedule Type: Clinical Laboratory, Combined Lecture and Lab
Contact Hours: 3.5 lecture, 3 lab, 4.5 other
Grade Mode: Standard Letter
Attributes: CTAG Nursing/Associate Degree, ITAG Nursing/Associate Degree

NRST 10006 LPN TO ASSOCIATE DEGREE IN NURSING TRANSITION 3 Credit Hours
Course is designed for the advanced placement of licensed practical nurses (LPN) to the nursing program. Course includes content areas from all first-year nursing courses, with both theory and lab. Orem's theory is introduced, emphasizing the assessment of the client's self-care assets and self-care deficits.
Prerequisite: Nursing ADN major; and minimum 2.700 overall GPA; and admission to technical study; and minimum C grade in the following: BSCI 11010 and CHEM 10055 (CHEM 10050) and UC 10001 and one from Kent Core Mathematics and Critical Reasoning category.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

NRST 10008 PARAMEDIC TO ASSOCIATE DEGREE IN NURSING TRANSITION 5 Credit Hours
Course serves to validate prior learning, update and enhance the student's knowledge, begin the process of role transition and prepare students for advanced placement into the Nursing program.
Prerequisite: Minimum 2.700 cumulative GPA; and Nursing ADN major; and admission to technical study; and minimum C grade in the following: BSCI 11010 and CHEM 10055 (CHEM 10050) and UC 10001 and one from Kent Core Mathematics and Critical Reasoning category.
Schedule Type: Clinical Laboratory, Lecture
Contact Hours: 3.5 lecture, 1.83 lab, 2.67 other
Grade Mode: Standard Letter

NRST 10009 BASIC PRINCIPLES OF PHARMACOLOGY 2 Credit Hours
Students identify and apply the basic principles of pharmacology to client care. In addition, they explore pharmaceutics, pharmacokinetics, pharmacodynamics, pharmacology-related math, drug classification, and safe preparation and administration of medications.
Prerequisite: Major in one of the following: Nursing ADN, Nursing BSN, Radiologic Technology, Respiratory Therapy Technology, Physical Therapist Assistant Technology or Occupational Therapy Assistant Technology.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NRST 10010 THERAPEUTIC USE OF SELF 1 Credit Hour
Course focus is on the self-care of individuals, with emphasis on understanding human relationships in the promotion of self-care. Culture, values and past experiences as factors in communication are explored.
Prerequisite: NRST 10001 with a minimum C grade; and minimum 2.000 overall GPA; and nursing ADN major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NRST 10011 FUNDAMENTALS OF NURSING 5 Credit Hours
Course is designed to develop fundamental nursing skills and physical assessment. The student will acquire knowledge to be able to demonstrate implementation of the nursing process using Quality and Safety Education for Nurses (QSEN) concepts as the organizing framework. Emphasis is placed on a beginning nursing student who performs as a provider of care.
Prerequisite: Nursing ADN major; and admission to NRST technical course sequence.
Pre/corequisite: Minimum C in the following courses NRST 10012 or NRST 10016 or NRST 10018.
Schedule Type: Clinical Laboratory, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab, 3 other
Grade Mode: Standard Letter
Attributes: CTAG Nursing/Associate Degree, ITAG Nursing/Associate Degree

NRST 10012 PROFESSIONAL COMMUNICATION FOR NURSING 1 Credit Hour
Course is designed to facilitate integration of basic knowledge, interpersonal skills, attitudes and beliefs in human relationships with an emphasis on professional and caring communication as an essential dimension in nursing practice.
Prerequisite: Nursing ADN major; and admission to NRST technical course sequence; and minimum 2.000 overall GPA.
Corequisite: Minimum C grade in the following courses NRST 10011 or NRST 10016 or NRST 10018.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: CTAG Nursing/Associate Degree, ITAG Nursing/Associate Degree

NRST 10013 NURSING I 6 Credit Hours
Course is to facilitate integration of knowledge, skills, attitudes and clinical decision making in the nursing care of patients with acute health care needs.
Prerequisite: Minimum of C grade in BSCI 11010 and NRST 10011 and NRST 10012 and NRST 10014; and minimum 2.000 overall GPA; and Kent Core Mathematics and Critical Reasoning course; and nursing ADN major.
Schedule Type: Clinical Laboratory, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3.5 lecture, 3 lab, 4.5 other
Grade Mode: Standard Letter
Attributes: CTAG Nursing/Associate Degree, ITAG Nursing/Associate Degree

NRST 10014 PHARMACOLOGY FOR NURSING I 1 Credit Hour
Course is to introduce the science of pharmacology and consider the role of the registered nurse in the preparation, management and administration of medications. The course provides a working description of the principles of pharmacodynamics and pharmacokinetics.
An emphasis is on understanding the action of medications, safe administration practices and competence in drug calculations.
Prerequisite: Minimum 2.000 overall GPA; and Nursing ADN major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NRST 10016 LPN TO ADN TRANSITION 3 Credit Hours
Course is to integrate the knowledge, skills, attitudes and clinical decision making in the nursing care of acute patients transitioning the knowledge of the LPN to RN practice.
Prerequisite: Minimum C grade in the following: BSCI 11010 and UC 10001 and one course from Kent Core Mathematics and Critical Reasoning category; and minimum 2.700 overall GPA; Nursing ADN major; and admission to technical study; and special approval from the nursing director.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, .5 lab, .5 other
Grade Mode: Standard Letter

NRST 10018 PARAMEDIC TO ADN TRANSITION 5 Credit Hours
Course is to integrate the knowledge, skills, attitudes and clinical decision-making in the nursing care of acute patients transitioning the knowledge of the Paramedic to RN practice.
Prerequisite: Minimum C grade in the following: BSCI 11010 and UC 10001 and one course from Kent Core Mathematics and Critical Reasoning category; and minimum 2.700 overall GPA; Nursing ADN major; and admission to technical study; and special approval from the nursing director.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab, 3 other
Grade Mode: Standard Letter

NRST 20015 MENTAL HEALTH NURSING 3 Credit Hours
The focus of this course is to facilitate the integration of knowledge, skills, attitudes, and clinical decision making when providing mental health nursing care for patients, families, and the community.
Prerequisite: Minimum C grade in the following NRST 10011 and NRST 10012 and PSYC 11762; and minimum 2.000 overall GPA; and nursing ADN major.
Schedule Type: Clinical Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2.2 lecture, .3 lab, 2.1 other
Grade Mode: Standard Letter

NRST 20022 NURSING II 6 Credit Hours
Course is designed to facilitate integration of knowledge, skills, attitudes and clinical decision making in the nursing care of individuals and groups of patients with complex health care needs.
Prerequisite: Minimum C grade in the following courses BSCI 11020; and NRST 10013; and NRST 20214; and NRST 20015; and NUTR 23511 or NUTR 33512; and minimum 2.000 overall GPA; and Nursing ADN major.
Pre/corequisite: BSCI 20021 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 1.5 lab, 7.5 other
Grade Mode: Standard Letter

NRST 20023 NURSING III 6 Credit Hours
Course is designed to facilitate the integration of knowledge, skills, attitudes and clinical decision making in the nursing care of individuals and groups of patients with critical health care needs.
Prerequisite: NRST 20022 with minimum C grade; and minimum 2.000 overall GPA; and Nursing ADN major.
Schedule Type: Clinical Laboratory, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 1.5 lab, 7.5 other
Grade Mode: Standard Letter

NRST 20092 ADN NURSING PRACTICE INTERNSHIP (ELR) 1-4 Credit Hours
Opportunity for nursing practice is expanded to a selected population with complex health care needs. Focus is on increasing theoretical knowledge and using knowledge in complex care situations with patients and their families. Clinical practice will be guided by a clinical preceptor and assigned nursing faculty.
Prerequisite: NRST 10003 and NRST 10010 with a minimum C grade; and nursing adn major; and special approval.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NRST 20205 PSYCHOSOCIAL SELF CARE DEFICITS 3 Credit Hours
Course focus is on providing mental health nursing care utilizing the nursing process for the emotionally ill client, family and community with psychiatric mental health needs. Emphasis is placed on understanding holistic human needs and promotion of the professional therapeutic nurse-client relationship.
Prerequisite: Minimum C grade in BSCI 11020, NRST 10003, NRST 10010, NUTR 23511 (or NUTR 33512) and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 2 lecture, .333 lab, 2.667 other
Grade Mode: Standard Letter

NRST 20206 NURSING AGENCY II 5 Credit Hours
Course focuses on nursing care of adults with intermediate therapeutic self-care demands. Emphasis is placed on the nurse as a provider of care.
Prerequisite: Minimum C grade in BSCI 11020, BSCI 20021, NRST 10003, NRST 10010, NUTR 23511 (or NUTR 33512) and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 2.5 lecture, 1.5 lab, 6 other
Grade Mode: Standard Letter

NRST 20207 PSYCHOSOCIAL SELF-CARE DEFICITS 4 Credit Hours
Course focus is on providing mental health nursing care utilizing the nursing process for the emotionally ill client, family and community with psychiatric mental health needs. Emphasis is placed on understanding holistic human needs and promotion of the professional therapeutic nurse-client relationships.
Prerequisite: Minimum C grade in NRST 10003, NUTR 33512 and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.
Schedule Type: Clinical Laboratory, Lecture
Contact Hours: 3 lecture, .333 lab, 2.667 other
Grade Mode: Standard Letter

NRST 20208 NURSING AGENCY III 6 Credit Hours
Course covers nursing care of individuals with complex therapeutic self-care demands. Emphasis is placed on the nurse as provider and manager of patient care.
Prerequisite: Minimum C grade in NRST 20205, NRST 20206 and NURS 20950; and nursing ADN major; and minimum 2.000 overall GPA.
Schedule Type: Clinical Laboratory, Combined Lecture and Lab
Contact Hours: 3 lecture, .5 lab, 8.5 other
Grade Mode: Standard Letter

NRST 20209 MATERNAL/NEWBORN DEVELOPMENT SELF-CARE 2 Credit Hours
Course covers nursing care of the expectant and newly-delivered family. The nursing approach acknowledges the mother's self-care abilities and dependent care agent role. Health deviations related to childbearing are incorporated.
Prerequisite: BSCI 11020, BSCI 20021, NRST 10003, NRST 10010, NURS 20950, NUTR 23511 (or NUTR 33512) and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 1 lecture, 3 other
Grade Mode: Standard Letter

NRST 20210 CHILD AND FAMILY DEVELOPMENT SELF-CARE 2 Credit Hours
Course covers family-centered nursing care of children. Developmental self-care requisites and common health deviations are emphasized.
Prerequisite: Minimum C grade in NRST 20205, NRST 20206 and NURS 20950; and minimum 2.000 overall GPA.
Schedule Type: Clinical Laboratory, Combined Lecture and Lab
Contact Hours: 1 lecture, .4 lab, 2.6 other
Grade Mode: Standard Letter

NRST 20214 PHARMACOLOGY FOR NURSING II 2 Credit Hours
Course is to expand the understanding of science of pharmacology and consider the role of the registered nurse in the preparation, management and administration of advanced medications. The course provides an in-depth description of the principles of pharmacodynamics and pharmacokinetics of advanced medications. The course will expand on understanding the action of advanced medications, safe administration practices and competence in drug calculations acquired in Pharmacology for Nursing I.
Prerequisite: NRST 10011 and NRST 10014 with a minimum C grade; and minimum 2.000 overall GPA; and Nursing ADN major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NRST 20217 MATERNAL CHILD AND FAMILY NURSING 4 Credit Hours
Course is to facilitate the integration of complex knowledge, skills, attitudes and clinical decision making in the nursing care of patients in maternal, child and family settings with an emphasis placed on prevalent and critical problems.
Prerequisite: Minimum grade of C in the following courses NRST 10013 and NRST 20214 and BSCI 11020; and NUTR 23511 or NUTR 33512; and minimum 2.000 overall GPA; and nursing ADN major.
Pre/corequisite: NURS 20950 and BSCI 20021 with a minimum C grade.
Schedule Type: Clinical Laboratory, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, .75 lab, 5.25 other
Grade Mode: Standard Letter

NRST 20219 TRANSITION TO NURSING PRACTICE 2 Credit Hours
Course is to facilitate the student's transition into the profession of nursing and enhance student preparation to take the NCLEX-RN examination.
Prerequisite: NRST 20022 with a minimum C grade; and minimum 2.000 overall GPA; and nursing ADN major.
Pre/corequisite: NRST 20023 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NRST 21095 SPECIAL TOPICS 2-4 Credit Hours
(Repeatable for credit) Scheduled topic of interest to students and faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter

NRST 21096 INDIVIDUAL INVESTIGATION IN NURSING 1-3 Credit Hours
(Repeatable for a total of 18 hours) Readings and/or investigation of nursing topics supervised by nursing faculty.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

Occupational Therapist Assistant (OTA)

OTA 10000 FOUNDATIONS IN OCCUPATIONAL THERAPY 2 Credit Hours
Introduction to basic theoretical concepts, professional development, profession of occupational therapy, its place in the health care system and the role and function of the Occupational Therapist and Occupational Therapist Assistant.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

OTA 10002 OCCUPATIONAL PERFORMANCE IN PSYCHOSOCIAL HEALTH 4 Credit Hours
Application of occupational therapy assessment, skills and techniques in treatment programs concerned with psychosocial health.
Prerequisite: OTA 10003 with a minimum C grade.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

OTA 10003 OCCUPATIONAL THERAPY INTERVENTIONS FOR PRACTICE I 1 Credit Hour
Development of basic assessment and intervention skills as related to clients with physical and mental disabilities.
Prerequisite: Admission to technical study; and occupational therapist assistant major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

OTA 10010 OCCUPATIONAL THERAPY INTERVENTIONS FOR PRACTICE II 3 Credit Hours
Course emphasizes development of occupation therapy intervention skills for health including vision, cognition, functional mobility, sensation, pain and feeding. Content will include basic documentation and therapeutic use of crafts while implementing intervention skills to promote functional performance.
Prerequisite: OTA 10003 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

OTA 10192 FIELDWORK 1A (ELR) 1 Credit Hour
During this Level I fieldwork experience, the student will observe and participate in learning opportunities to apply the knowledge, skills and techniques acquired in OTA Occupational Performance courses. These experiences may include: simulated environments, standardized patients, faculty-led site visits and/or supervision by a qualified fieldwork educator in a practice environment.
Prerequisite: OTA 10003 with a minimum C grade.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

OTA 20001 OCCUPATIONAL THERAPY MANAGEMENT AND LEADERSHIP SKILLS 2 Credit Hours
Introduction to management and leadership issues in occupational therapy practice, including ethics, licensure, reimbursement related to practice settings, research and skills required for performance of administrative tasks in an occupational therapy department.
Prerequisite: OTA 10002.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

OTA 20002 OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH 3 Credit Hours
Application of occupational therapy assessment, skills and techniques in treatment program specifically concerned with physical health.
Prerequisite: OTA 10010 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

OTA 20003 OCCUPATIONAL THERAPY INTERVENTIONS FOR PRACTICE III 3 Credit Hours
Development of the occupational therapy practice skills including therapeutic use of occupation, leisure, adapting equipment and environment, therapeutic exercises, activity analysis and documentation.
Prerequisite: OTA 10002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

OTA 20004 OCCUPATIONAL PERFORMANCE IN PEDIATRIC POPULATIONS 3 Credit Hours
Application of occupational therapy assessment, skills and techniques applied to pediatric populations and conditions.
Prerequisite: OTA 20002.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

OTA 20006 OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH II 3 Credit Hours
Continued application of occupational therapy assessment, skills and techniques in treatment programs related to physical health.
Prerequisite: OTA 20002 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

OTA 20392 FIELDWORK 1B (ELR) 1 Credit Hour
During this Level I fieldwork experience, the student will observe and participate in learning opportunities to apply the knowledge, skills and techniques acquired in OTA Occupational Performance courses. These experiences may include: simulated environments, standardized patients, faculty-led site visits and/or supervision by a qualified fieldwork educator in a practice environment.
Prerequisite: OTA 10000 and OTA 10002.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

OTA 20492 FIELDWORK 1C (ELR) 1 Credit Hour
During this Level I fieldwork experience, the student will observe and participate in learning opportunities to apply the knowledge, skills and techniques acquired in OTA Occupational Performance courses. These experiences may include: simulated environments, standardized patients, faculty-led site visits and/or supervision by a qualified fieldwork educator in a practice environment.
Prerequisite: OTA 20002.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

OTA 21000 OCCUPATIONAL THERAPY LICENSURE PREPARATION 1 Credit Hour
Students in the course are informed on how to prepare for their national certification exam and apply for licensure in preparation for practice as occupational therapy assistants. Content includes a brief review of occupational therapy concepts and theories, test taking, study strategies and practice of simulated exam questions.
Prerequisite: OTA 20006.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

OTA 21092 CLINICAL APPLICATIONS I (ELR) 4 Credit Hours
Under the supervision of personnel in selected healthcare agencies, the student will apply knowledge, skills and techniques acquired in prior OTA courses.
Prerequisite: Minimum C grade in OTA 10000 and OTA 10002 and OTA 20002 and OTA 20001 and OTA 20003 and OTA 20006.
Schedule Type: Field Experience
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

OTA 21095 SPECIAL TOPICS IN OCCUPATIONAL THERAPIST ASSISTANT 1-4 Credit Hours
(Repeatable for credit) Special topics in Occupational Therapy Assistant; topics announced when scheduled.
Prerequisite: OTA 10003.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

OTA 21096 INDIVIDUAL INVESTIGATION IN OCCUPATIONAL THERAPIST ASSISTANT 1-4 Credit Hours
(Repeatable for credit) Individual study in Occupational Therapy Assistant and related fields; open to OTA majors.
Prerequisite: OTA 10003.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

OTA 21192 CLINICAL APPLICATIONS II (ELR) 4 Credit Hours
Under the supervision of personnel in selected healthcare agencies, the student will apply knowledge, skills and techniques acquired in prior OTA courses.
Prerequisite: OTA 10000 and OTA 10002 and OTA 10010 and OTA 20001 and OTA 20002 and OTA 20003 and OTA 20006.
Schedule Type: Practical Experience
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

Office Technology (OTEC)

OTEC 16620 WORD PROCESSING I 3 Credit Hours
Builds expertise in creating business documents applying the basic features of popular word processing software. Emphasis on hands on experience.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16621 WORD PROCESSING II 3 Credit Hours
Design and create documents by using advanced features of word processing software.
Prerequisite: OTEC 16620.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16625 BUSINESS PRESENTATIONS 3 Credit Hours
Development and production of professional computer-projected presentation materials using popular software. Includes use of graphic design techniques, color layout design principles and transparencies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16638 GOOGLE APPLICATIONS FOR ADMINISTRATIVE PROFESSIONALS 3 Credit Hours
Introduction to Google Applications. Students will learn to create, modify and manage the various Google Applications; utilize Google Drive; and learn to apply Google Application skills in the work environment and for personal use.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16639 DATABASE APPLICATIONS 3 Credit Hours
Concepts, terminology and use of current database software to manage and retrieve business information. Emphasis on hands-on experiences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16640 ADVANCED DATABASE APPLICATIONS 3 Credit Hours
Provides the student with the skills and knowledge on creating advanced queries, forms and reports. Students learn how to customize, automate and secure the database structure.
Prerequisite: OTEC 16639.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16680 COMPUTER KEYBOARDING 1 Credit Hour
Basic keyboarding course using computers for students having no previous keyboarding instruction or a speed of less than 30 words a minute. To pass the course students, must keyboard above 30 words a minute for three minutes with no more than three errors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

OTEC 26611 SPREADSHEET APPLICATIONS 3 Credit Hours
Use of electronic spreadsheets from beginning to advanced applications that may prepare for software certification.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26622 DESKTOP PUBLISHING I 3 Credit Hours
Study and application of the principles of proper document design using high-end desktop publishing software for newsletters, brochures, reports, forms and other computer-based business documents.
Prerequisite: OTEC 16620.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26623 DESKTOP PUBLISHING II 3 Credit Hours
High-end layout design and illustration software. Includes advanced documents, Web publishing, makeovers, computer graphic concepts and formatting, image editing techniques and the use of color.
Prerequisite: OTEC 26622.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26635 ADMINISTRATIVE RESOURCE MANAGEMENT 3 Credit Hours
Explores how office professionals can apply resource management skills to the areas of space/workflow, forms, budgetary control, staff and materials supplies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26636 PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS 1 Credit Hour
Provides the basic tools needed to effectively manage projects and to automate and streamline such functions as resource allocation, work scheduling and communication. Project management software is used in the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

OTEC 26638 BUSINESS COMMUNICATIONS 3 Credit Hours
Theory and application of oral and written business communication with emphasis on business letters, reports, employment process, visual presentations, and digital communications. Students will learn how to develop proper communication skills including- proper grammar/spelling, punctuation and word usage. Basic word processing skills are suggested.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26640 CURRENT TECHNOLOGIES 3 Credit Hours
Current trends and technology for the marketplace from an end user perspective.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26650 MEDICAL BILLING PROCEDURES (ELR) 3 Credit Hours
Introductory course in the preparation of various medical documents and forms in the health care industry. Use of computers and various word processing software is included. This course requires a 40 clock hour internship.
Prerequisite: OTEC 26655 and OTEC 26656.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

OTEC 26655 ICD CODING 3 Credit Hours
Basic medical coding using the current version of the ICD classification system and nomenclature.
Prerequisite: HED 14020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26656 CURRENT PROCEDURAL TERMINOLOGY (CPT) CODING 3 Credit Hours
Introduction to coding rules for the CPT and Level II coding systems, incorporating and applying ICD rules to code patient services.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26691 SEMINAR FOR OFFICE TECHNOLOGY 3 Credit Hours
(Repeatable for Credit) Refines job search strategies, integrates coursework with realistic office settings, presents interpersonal and ethical issues, provides outreach activities and emphases career management.
Prerequisite: Sophomore standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

OTEC 26692 INTERNSHIP FOR OFFICE TECHNOLOGY (ELR) 2-3 Credit Hours
(Repeatable for Credit) Supervised field experience of ten hours per week paid or seven hours per week unpaid in a business environment functioning as an administrative professional.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

OTEC 26695 SPECIAL TOPICS IN OFFICE TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Special topics in office technology.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

OTEC 26696 INDIVIDUAL INVESTIGATION: OFFICE TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Independent, in-depth research of an office technology topic supervised and coordinated by a program faculty member.
Prerequisite: 12 credit hours of OTEC courses; and special approval from a full-time office technology faculty member.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Peace Officer Training Academy (POTA)

POTA 11001 PEACE OFFICERS ACADEMY I 6 Credit Hours
This course studies the role of the peace officer, principles of the American criminal justice system, ethics and professionalism. This course also studies the Ohio criminal code, constitutional law, the tenets of civil liability to law enforcement. It also covers case investigation, forensic procedures, interviews, execution of search warrants and physical conditioning. The student will comply with all the student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.
Prerequisite: Admission into the peace officers academy training certificate program.
Schedule Type: Combined Lecture and Lab
Contact Hours: 18.5 lecture, 3.6 lab
Grade Mode: Standard Letter

POTA 11002 PEACE OFFICERS ACADEMY II 5 Credit Hours
This course is designed to address the skills necessary for a first responder to administer aid and assistance in an emergency situation. Crowd control, HazMat, weapons of mass destruction, incident command systems and terrorism awareness is taught. Safe handling techniques and usage of firearms and they safety are covered. Students must demonstrate a measured skill level firing handguns and comply with all student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.
Prerequisite: Admission into the peace officers academy training certificate program.
Schedule Type: Combined Lecture and Lab
Contact Hours: 10.3 lecture, 8.4 lab
Grade Mode: Standard Letter

POTA 11003 PEACE OFFICERS ACADEMY III 6 Credit Hours
This course studies the means of dealing with interpersonal communications and intervention with groups and individuals who require law enforcement involvement. Emphasis is placed on patrol techniques, the principles and application of defense and pursuit driving. Students are trained in the reasonable responses to resistance or aggression and are taught self-defense techniques. The student will comply with all the student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.
Prerequisite: Admission into the peace officers academy training certificate program.
Schedule Type: Combined Lecture and Lab
Contact Hours: 12 lecture, 9.6 lab
Grade Mode: Standard Letter

POTA 11004 PEACE OFFICERS ACADEMY IV 5 Credit Hours
This course covers traffic enforcement, crash investigation, OVI enforcement, traffic technologies. Physical conditioning for law enforcement is mandatory. The student will comply with all the student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.
Prerequisite: Admission into the peace officers academy training certificate program.
Schedule Type: Combined Lecture and Lab
Contact Hours: 14.4 lecture, 3.6 lab
Grade Mode: Standard Letter

Physical Therapist Assistant Technology (PTST)

PTST 10000 INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT 1 Credit Hour
Introduces the physical therapy profession; current and historical physical therapist practice; and the role, responsibilities and expectations of a physical therapist assistant.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PTST 10001 PRINCIPLES OF PATIENT CARE IN PHYSICAL THERAPY 4 Credit Hours
Students develop an understanding of the underlying principles of basic physical therapy procedures and the applications of these concepts in the physical therapy setting.
Prerequisite: Admission to technical study; and physical therapist assistant technology major.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

PTST 10003 CLINICAL CONDITIONS I 2 Credit Hours
Introduction to the pathology, treatment and clinical implications for medical conditions commonly encountered in physical therapy practice: Integumentary, cardiovascular, pulmonary, endocrine and digestive systems.
Prerequisite: Admission to technical study; and physical therapist assistant technology major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 10004 PHYSICAL THERAPY PROCEDURES I 4 Credit Hours
Theory and techniques of treatment procedures with emphasis on modalities. Maintenance of equipment and supplies.
Prerequisite: Admission to technical study; and physical therapist assistant technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

PTST 10010 TRANSITIONS IN PHYSICAL THERAPY 8 Credit Hours
Validates prior learning in the course content of PTST 10004, PTST 20003, PTST 20004; builds knowledge necessary for the physical therapist assistant technology (PTST) degree; and prepares students who have previously completed an approved allied health program for advanced placement in PTST. Students successfully competing this course with a grade of C (2.000) or better will receive six (6) transfer credit hours.
Prerequisite: Physical therapist assistant technology transition concentration; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 7 lecture, 3 lab
Grade Mode: Standard Letter

PTST 10011 INTRODUCTION TO THERAPEUTIC EXERCISE 1 Credit Hour
Course is for the student to develop an understanding of the basic concepts associated with therapeutic exercise principles and applications. Includes application of basic exercise programs for frequently encountered physical therapy diagnoses.
Prerequisite: Physical Therapist Assisting Technology major and admission to technical study; and department approval.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

PTST 11001 PERSONAL TRAINING, WELLNESS AND EXERCISE 3 Credit Hours
(Repeatable for credit) Theoretical and practical competencies required of a qualified personal trainer, including exercise, nutrition and wellness concepts that are immediately applicable to improve personal lifestyle decisions. Receive hands-on experience in training, instruction and professional skill development. Upon completion, students are qualified to sit for the personal trainer certification exam administered by the National Council on Strength and Fitness (NCSF). Pre/corequisites: None Corequisites: None
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

PTST 11005 PHYSICAL THERAPY PRACTICE I 2 Credit Hours
Learn the essentials of safe, ethical, legal, and value-based behaviors in patient care. Acquire documentation skills and prepare for clinical education.
Prerequisite: Admission to technical study; and physical therapist assistant technology major.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 11092 CLINICAL EDUCATION I (ELR) 1 Credit Hour
Observes and participate in providing selected physical therapy services under the direct supervision of a licensed PT or PTA.
Prerequisite: Admission to technical study; and PTST 11005; and physical therapist assistant technology major.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PTST 20000 CLINICAL COMPETENCIES FOR THE FOREIGN TRAINED PHYSICAL THERAPIST 3 Credit Hours
This is an elective PTST course specifically designed to meet the competency needs related to prescriptive content from the Foreign Credentialing Commission on Physical Therapy. The course utilizes varied instructional activities and outcomes assessments to meet specific student outcomes. Topics include, selected interventions & patient related data collection skills and the role and relationship of the physical therapist assistant (PTA) and the physical therapist (PT). The course uses varied instructional activities and outcomes assessments, as well as skill acquisition in a hands-on laboratory format in the provision of physical therapist services for the entry-level physical therapist assistant (PTA) and physical therapist competency content for the foreign trained PT. The course content and student outcomes are specifically designed to meet the credentialing standards of the Foreign Credentialing Commission on Physical Therapy (FCCPT).
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab, 0 other
Grade Mode: Standard Letter

PTST 20001 THERAPEUTIC COMMUNICATIONS IN PHYSICAL THERAPY 1 Credit Hour
Focus on understanding human behavior. Emotional needs of individuals. Therapeutic use of self. Development of communication skills and interpersonal relationships.
Prerequisite: Admission to technical study; and physical therapist assistant technology major.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

PTST 20003 CLINICAL CONDITIONS II 2 Credit Hours
Study of medical conditions commonly encountered in PTST 11005. The focus is on orthopedic, psychiatric, and geriatric illnesses, disorders and diseases. Pharmacology interventions are also covered.
Prerequisite: Admission to technical study; and physical therapist assistant technology.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 20004 PHYSICAL THERAPY PROCEDURES II 4 Credit Hours
Basic principles, therapeutic effects and techniques of therapeutic exercises used in Physical Therapy practice.
Prerequisite: AHS 22002 and AHS 22003; and admission to technical study; and admission to the physical therapist assistant technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

PTST 20006 PHYSICAL REHABILITATION PROCEDURES 4 Credit Hours
Course is designed to introduce the student to the neurologically based interventions seen in the practice of physical therapy. The Physical Therapy Assistant student will develop an understanding of treatments in the neurologically involved patient, the patient with spinal cord injury, the amputation patient, the pediatric patient, traumatic brain injured patient, as well as the complex geriatric patient.
Prerequisite: PTST 20004 and BSCI 11020; and admission to technical study; and physical therapist assistant technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

PTST 20008 CLINICAL CONDITIONS III 2 Credit Hours
Discussion of neurological pathologies across the lifespan, treatment of the medically complex patient and functional testing for the geriatric patient.
Prerequisite: Admission to technical study; and physical therapist assistant technology major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 20011 PHYSICAL THERAPIST ASSISTANT MANAGEMENT OF THE MEDICALLY COMPLEX PATIENT 2 Credit Hours
Course serves to review and synthesize primary diagnoses and co-morbidities and the effects they have on the medically complex patient. The course will also present the pharmacology associated with various body systems and the side effects/adverse effects that might impact patient outcomes. The course is designed to review body system pathologies and incorporate that information into Physical Therapy Assistant clinical decision making when treating a complex patient. Course culminates with PEAT exam (practice NPTE-PTA board exam).
Prerequisite: Physical Therapist Assisting Technology major and admission to technical study; and department approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 20020 CLINICAL COMPETENCIES FOR THE FOREIGN TRAINED PHYSICAL THERAPIST 3 Credit Hours
Course is with prescriptive content from the Foreign Credentialing Commission on Physical Therapy. The course utilizes varied instructional activities and outcomes assessments to meet specific student outcomes. Topics include, selected interventions & patient related data collection skills and the role and relationship of the physical therapist assistant and the physical therapist. The course uses varied instructional activities and outcomes assessments, as well as skill acquisition in a hands-on laboratory format in the provision of physical therapist services for the entry-level physical therapist assistant and physical therapist competency content for the foreign trained Physical Therapist. The course content and student outcomes are specifically designed to meet the credentialing standards of the Foreign Credentialing Commission on Physical Therapy.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

PTST 21095 SPECIAL TOPICS IN PHYSICAL THERAPIST ASSISTANT TECHNOLOGY 1-4 Credit Hours
(Repeatable maximum 6 times for credit) Special topics in Physical Therapist Assistant Technology; topics announced when scheduled.
Prerequisite: Physical therapist assistant technology major.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

PTST 21096 INDIVIDUAL INVESTIGATION IN PHYSICAL THERAPIST ASSISTANT TECHNOLOGY 1-3 Credit Hours
(Repeatable maximum 6 times for credit) Individual study in physical therapist assistant technology and related fields; open to PTST majors.
Prerequisite: Physical therapist assistant technology major.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PTST 22005 PHYSICAL THERAPY PRACTICE II 2 Credit Hours
Understand the current professional, legal and regulatory implications in the provision of Physical Therapy services.
Prerequisite: PTST 11005; and admission to technical study; and physical therapist assistant technology major.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 22007 PHYSICAL THERAPY PRACTICE III 2 Credit Hours
Preparation for licensure, employment and career development as a physical therapist assistant.
Prerequisite: Admission to technical study; and physical therapist assistant technology major.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 22010 TRANSITIONS TO PHYSICAL THERAPY PRACTICE 2 Credit Hours
Athletic Trainers transitioning to physical therapy practice prepare for employment and licensure. Explores reimbursement regulations, evidence based practice, and various topics related to health care systems, and discuss current topics in the practice of physical therapy.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 22092 CLINICAL EDUCATION PRACTICUM II (ELR) 2 Credit Hours
Provide physical therapy services under the direct supervision of a licensed Physical Therapist or Physical Therapist Assistant.
Prerequisite: Admission to technical study; and PTST 11005 with a minimum C grade; and PTST 11092 with a grade of satisfactory.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PTST 22392 ATHLETIC TRAINING PLUS PHYSICAL THERAPIST ASSISTANT CLINICAL EDUCATION PRACTICUM (ELR) 4 Credit Hours
Provide physical therapy services of an entry-level physical therapist assistant, under the supervision of a licensed PT or PTA.
Prerequisite: PTST 11005 with a minimum C grade; and PTST 11092; and special approval.
Corequisite: PTST 22010.
Schedule Type: Practical Experience
Contact Hours: 480 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PTST 23092 CLINICAL EDUCATION PRACTICUM III (ELR) 2 Credit Hours
Provide physical therapy services of an entry-level physical therapist assistant, under the supervision of a licensed Physical Therapist or Physical Therapist Assitant.
Prerequisite: PTST 11005 and PTST 22092; and admission to technical study; and physical therapist assistant technology major.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

Radiologic and Imaging Science (RIS)

RIS 34001 INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY 1 Credit Hour
Provides an introduction to diagnostic medical sonography. The course orients new students to the profession. Topics covered include basic sonographic principles, scanning technique, and introduction patient management techniques.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RIS 34003 RADIATION THERAPY PRINCIPLES AND PRACTICE I 3 Credit Hours
An overview of cancer, radiation therapy and its physical and technical aspects. Includes the roles/responsibilities of the therapist, treatment parameters, documentation and delivery of patient care, education and procedures.
Prerequisite: Radiologic and imaging sciences major.
Corequisite: RIS 34030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

RIS 34004 RADIATION THERAPY PATIENT MANAGEMENT 3 Credit Hours
Provides the basic concepts in patient assessment and evaluation. Includes communication skills, infection control, nutrition, medications, exams, emergencies, patient transfer techniques, medical ethics and law as applied to radiation therapy.
Prerequisite: Radiologic and imaging sciences major.
Corequisite: RIS 34030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

RIS 34008 RADIATION THERAPY PHYSICS I 3 Credit Hours
Introduction to radiation therapy physics, including the fundamentals of atomic structure, radiation properties, radiation production, radiation quality, interactions of radiation with matter and principles of radiation detectors.
Prerequisite: Radiologic and imaging sciences major.
Corequisite: RIS 34030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34030 RADIATION THERAPY CLINICAL EDUCATION I 1 Credit Hour
Observation and supervised clinical education with emphasis on administering radiation therapy treatments and patient care.
Prerequisite: Radiologic and imaging sciences major; and special approval.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 2.5 lab, 5 other
Grade Mode: Standard Letter-IP

RIS 34040 PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY 3 Credit Hours
Methods of patient management in diagnostic medical sonography are examined with emphasis on patient communication, clinical assessment, medical legal aspects, medical records, emergencies, pharmacology, safety issues, ethics and critical thinking.
Prerequisite: Radiologic and imaging sciences major.
Corequisite: RIS 34045.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34042 ABDOMINAL SONOGRAPHY I 3 Credit Hours
Anatomy, physiology and pathology of the abdomen; instrumentation and scanning techniques; normal and abnormal sonographic appearances of abdominal structures will be presented.
Prerequisite: Radiologic and imaging sciences major.
Corequisite: RIS 34045.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34044 ULTRASOUND PHYSICS AND INSTRUMENTATION 3 Credit Hours
Ultrasound principles to include interaction of sound with matter, propagation of sound in tissue, physical units, transducer parameters, image storage and display, quality assurance, bioeffects, image artifacts and physical principles of doppler.
Prerequisite: Radiologic and imaging sciences major.
Corequisite: RIS 34045.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34045 ULTRASOUND CLINICAL EDUCATION I 2 Credit Hours
Provides clinical education and experience at a lab and clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols on patients and to identify image quality problems. Content includes sonography of the liver, gallbladder, pancreas and spleen.
Prerequisite: Radiologic and imaging sciences major; and special approval.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 3 lab, 1 other
Grade Mode: Standard Letter-IP

RIS 34052 ABDOMINAL SONOGRAPHY II 3 Credit Hours
Continuation of RIS 34042; anatomy, physiology and pathology of the abdomen; instrumentation and sonographic scanning techniques; normal and abnormal sonographic appearance of abdominal structures will be presented.
Prerequisite: RIS 34042; and radiologic and imaging sciences major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34060 ULTRASOUND CLINICAL EDUCATION II 4 Credit Hours
Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. Content includes sonography of the abdominal vessels, kidneys, adrenal glands, lymphatics and gynecologic pelvis.
Prerequisite: RIS 34045.
Corequisite: RIS 34052.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 3 lab, 5 other
Grade Mode: Standard Letter-IP

RIS 34062 OBSTETRICS AND GYNECOLOGY SONOGRAPHY I 3 Credit Hours
Anatomy and pathophysiology of the non-pregnant female pelvis; instrumentation and scanning techniques; normal and abnormal sonographic appearances; and findings of the female reproductive tract are covered.
Prerequisite: RIS 34045; and radiologic and imaging sciences major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34072 SUPERFICIAL STRUCTURES SONOGRAPHY 2 Credit Hours
Anatomy and pathophysiology of superficial structures; instrumentation and scanning techniques; normal and abnormal sonographic appearances of superficial structures; correlation with laboratory findings and other imaging modalities are presented. Introductory pediatric sonographic techniques and pathology are presented.
Prerequisite: RIS 34083.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 34075 ULTRASOUND CLINICAL EDUCATION III 2 Credit Hours
Provides clinical education and experience at clinical sites to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to evaluate image quality. Content includes first, second and third trimester obstetric sonography and superficial structures sonography.
Prerequisite: RIS 34062.
Corequisite: RIS 44072.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 2 lab, 12 other
Grade Mode: Standard Letter-IP

RIS 34083 SECTIONAL ANATOMY IN MEDICAL IMAGING 3 Credit Hours
Presentation of sectional anatomy of the body in the transverse (axial), sagittal and coronal planes as seen in medical images in CT, MRI and diagnostic medical sonography.
Prerequisite: BSCI 11010 and BSCI 11020; or BSCI 21010 and BSCI 21020; and radiologic and imaging sciences major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34084 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I 2 Credit Hours
Presentation of sectional anatomy of the human body in computed tomography and magnetic resonance imaging. Includes orientation of organs and structures and pathological processes present in images.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 34086 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II 2 Credit Hours
Presentation of sectional anatomy of the human body in computed tomography and magnetic resonance imaging. Includes orientation of organs and structures and pathological processes present in images as seen in the extremities.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 41095 SPECIAL TOPICS IN RADIOLOGIC AND IMAGING SCIENCES 1-3 Credit Hours
(Repeatable for credit) Courses will consist of various topics in medical imaging designed to enhance learning outcomes.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

RIS 44000 INTRODUCTION TO RADIATION THERAPY 2 Credit Hours
An introduction to patient care techniques and clinical procedures for freshman entry students admitted to the RIS major in radiation therapy.
Prerequisite: Radiologic and imaging sciences major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44003 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION I 2 Credit Hours
Students observe and become acquainted with Magnetic Resonance Imaging equipment and procedures at the clinical education setting and apply knowledge of physics, Magnetic Resonance Imaging safety and patient care. Students begin to perform some procedures under direct supervision of Magnetic Resonance Imaging technologists.
Prerequisite: Special approval.
Schedule Type: Clinical Laboratory
Contact Hours: 18 other
Grade Mode: Standard Letter-IP

RIS 44004 COMPUTED TOMOGRAPHY CLINICAL EDUCATION I 2 Credit Hours
Provides clinical education and experience at a clinical setting to allow the student the opportunity to become proficient in skills necessary to obtain quality images, to alter protocols based on patient pathology or physical condition and to identify image quality problems and to make appropriate corrections under direct supervision of a Computed Tomography Technologist.
Prerequisite: Special approval.
Schedule Type: Clinical Laboratory
Contact Hours: 18 other
Grade Mode: Standard Letter-IP

RIS 44009 RADIATION THERAPY PRINCIPLES AND PRACTICE II 2 Credit Hours
Examines the multidisciplinary treatment approaches. Consists of advanced topics in therapy, chemotherapy, immunotherapy, and surgery for combined modalities, for benign conditions, for emergencies and for managing side effects.
Prerequisite: RIS 34003.
Corequisite: RIS 44053.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44018 RADIATION THERAPY PHYSICS II 3 Credit Hours
Continuation of the principles of radiation therapy physics and the study of photon beam dosimetry, electron beam dosimetry and treatment planning.
Prerequisite: RIS 34008.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

RIS 44021 PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY 2 Credit Hours
Provides knowledge about care-giving skills for patients undergoing Computed Tomography exams. Information includes effective communication, problem-solving techniques, patient safety/comfort, patient preparation, monitoring, contrast agents and venipuncture.
Prerequisite: Special approval.
Pre/corequisite: RIS 44004.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44028 RADIATION THERAPY RADIOBIOLOGY 3 Credit Hours
Establishes a foundation in radiation biology for radiation therapy. Cell biology and its response to radiation are reviewed as well as the effect of radiation on pathology and body systems.
Prerequisite: RIS 44018.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

RIS 44029 RADIATION THERAPY PATHOLOGY I 3 Credit Hours
General overview of various disease processes with emphasis on cancer types. Includes epidemiology, etiology, symptoms, metastases, histology, tumor grading, staging, detection, screening and diagnosis, treatment, side effects and prognosis of malignancies of the head and neck, central nervous, respiratory, digestive, and female reproductive systems.
Prerequisite: RIS 34003 and RIS 34083.
Corequisite: RIS 44053.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44030 COMPUTED TOMOGRAPHY IMAGE PRODUCTION I 2 Credit Hours
Computer fundamentals, operations and applications of Computed Tomography equipment. Principles of Computed Tomography system operation and components, image processing and display and image quality.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44031 PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING 2 Credit Hours
Provides information on the role of the MRI technologist in maintaining patient safety and comfort as well as personal and co-worker safety. MR contrast agents and venipuncture will be studied. Includes problem solving with diverse patient types.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44038 RADIATION THERAPY PHYSICS III 3 Credit Hours
Covers concepts of radioactivity and brachytherapy. Describes specialized treatment units Discussion of human resource, therapy department budgets and billing, accreditation, certification, professional societies.
Prerequisite: RIS 44018.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44041 RADIATION THERAPY QUALITY MANAGEMENT 2 Credit Hours
Provides overview of quality management programs and continuing quality improvement in radiation therapy. Topics include validity of quality assurance checks, chart checks, image checks, testing on simulators, linear accelerators and brachytheraphy sources.
Prerequisite: RIS 44018.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

RIS 44042 RADIATION THERAPY PATHOLOGY II 3 Credit Hours
Continuation of Radiation Therapy Pathology I to include epidemiology, etiology, symptoms, metastases, histology, tumor grading, staging, detection, screening and diagnosis, treatment, side effects and prognosis of malignancies of the male reproductive, urinary, endocrine, circulatory, lymphatic, integumentary and musculoskeletal systems as well as pediatric solid malignancies.
Prerequisite: RIS 34083 and RIS 44029.
Corequisite: RIS 44056.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44043 RADIATION THERAPY PRINCIPLES/PRACTICE III 3 Credit Hours
Review and testing of major subject areas from all radiation therapy courses to prepare students to successfully pass the national certification exam based on the content specifications from the American Registry of Radiologic Technologists (ARRT).
Prerequisite: RIS 44009 and RIS 44018 and RIS 44028 and RIS 44042.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44044 MAGNETIC RESONANCE IMAGING PROCEDURES I 2 Credit Hours
Provides the imaging techniques related to the body, special clinical applications, coil selection, scan sequences, protocols, positioning criteria, normal and abnormal anatomical and pathologic structures and signal characteristics for all areas of the body except extremities and vascular areas.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44045 MAGNETIC RESONANCE IMAGING PROCEDURES II 2 Credit Hours
Provides the imaging techniques related to the body, special clinical applications, coil selection, scan sequences, protocols, positioning criteria, normal and abnormal anatomical and pathologic structures and signal characteristics for the extremities and vascular areas.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44047 COMPUTED TOMOGRAPHY PROCEDURES I 2 Credit Hours
Introduction to Computed Tomography procedures with scanning protocols, positioning and non-contrast anatomy.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44048 COMPUTED TOMOGRAPHY PROCEDURES II 2 Credit Hours
Overview of the procedures presented in RIS 44047. Anatomy as seen on scans both with and without contrast media, advanced processing and advanced imaging procedures.
Prerequisite: RIS 44047.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44051 MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I 2 Credit Hours
Develops and understanding of the physics of Magnetic Resonance Image acquisition and the hardware used. Provides information in the use and manipulation of the instrumentation and technical parameters used in the generation of images. Establishes safety procedures.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44052 MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II 2 Credit Hours
Develops an understanding of Magnetic Resonance Image acquisition and the hardware used. Provides information in the use and manipulation of the hardware and technical parameters used in the generation of images. Reviews safety special applications such as advanced imaging techniques. Enables the student to maximize Magnetic Resonance Image quality.
Prerequisite: RIS 44051.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44053 RADIATION THERAPY CLINICAL EDUCATION II 3 Credit Hours
Continuation of Clinical Education I with emphasis on clinical practice of treatment techniques and planning.
Prerequisite: RIS 34030.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 7.5 lab, 15 other
Grade Mode: Standard Letter-IP

RIS 44054 COMPUTED TOMOGRAPHY CLINICAL EDUCATION II 2 Credit Hours
Provides continued clinical education and experience at a clinical setting to allow the student the opportunity to become proficient in skills necessary to obtain quality images, to alter protocols based on patient pathology or physical condition, and to identify image quality problems and to make appropriate corrections under direct supervision of a Computed Tomography Technologist. Prerequisite: Special Approval
Schedule Type: Clinical Laboratory
Contact Hours: 18 other
Grade Mode: Standard Letter-IP

RIS 44058 RADIATION THERAPY CLINICAL EDUCATION III 2 Credit Hours
Continuation of Clinical Education II with added emphasis on critical thinking, problem solving and clinical competency.
Prerequisite: RIS 44053.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 5 lab, 10 other
Grade Mode: Standard Letter-IP

RIS 44062 COMPUTED TOMOGRAPHY IMAGE PRODUCTION II 2 Credit Hours
A continuation of RIS 44030, the course reviews basic computed tomography components, operations and applications, with advanced studies in post-processing techniques and image quality, while understanding the importance of radiation dose and quality control in computed tomography.
Prerequisite: RIS 44030.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44063 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION II 2 Credit Hours
Continuation of RIS 44003. Students apply knowledge of patient care, anatomy and pathology, equipment and image acquisition when observing and performing Magnetic Resonance Imaging procedures clinically.
Prerequisite: Special approval.
Schedule Type: Clinical Laboratory
Contact Hours: 18 other
Grade Mode: Standard Letter-IP

RIS 44066 MAGNETIC RESONANCE IMAGING TECHNIQUES 2 Credit Hours
Integrates concepts of Magnetic Resonance Imaging including patient care, imaging procedures, data acquisition and processing as well as principles of image formation for review for the national certification exam in Magnetic Resonance Imaging.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44067 RADIATION THERAPY CLINICAL EDUCATION IV 3 Credit Hours
Continuation of Clinical Education III with added emphasis on critical thinking, problem solving and clinical competency.
Prerequisite: RIS 44058.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 2 lecture, 7.5 lab, 15 other
Grade Mode: Standard Letter-IP

RIS 44068 COMPUTED TOMOGRAPHY TECHNIQUES 2 Credit Hours
Students will review knowledge in each content area of the national certification exam in Computed Tomography including patient management, imaging procedures and physics and instrumentation.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44069 COMPUTED TOMOGRAPHY CLINICAL EDUCATION III 1 Credit Hour
Allows students to advance clinical education skills and experiences at a clinical setting in order to obtain quality images, objectively alter protocols based on patient pathology or physical condition, and to identify image quality problems and to make appropriate corrections under the direct supervision of a Computed Tomography Technologist.
Prerequisite: RIS 44054.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 6 other
Grade Mode: Standard Letter-IP

RIS 44072 OBSTETRICS AND GYNECOLOGY SONOGRAPHY II 3 Credit Hours
Embryonic and fetal development throughout gestation; fetal measurements, normal fetal anatomy and physiology; and abnormal sonographic appearances of the fetus will be covered as well as invasive obstetric procedures and antepartum testing.
Prerequisite: RIS 34062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44073 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION III 1 Credit Hour
Continuation of RIS 44063 with student advancing skills and proficiency in performing Magnetic Resonance Imaging procedures in the clinical setting and are able to solve problems in a more independent manner.
Prerequisite: RIS 44063.
Schedule Type: Clinical Laboratory
Contact Hours: 6 other
Grade Mode: Standard Letter-IP

RIS 44074 VASCULAR SONOGRAPHY 2 Credit Hours
Anatomy, physiology and hemodynamics of the cerebrovascular, abdominal and peripheral vascular systems; normal and abnormal sonographic vascular appearances; Doppler instrumentation and scanning techniques are covered.
Prerequisite: Radiologic and imaging science major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44076 ULTRASOUND CLINICAL EDUCATION IV 4 Credit Hours
Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. Content includes abdominal, pelvic, obstetrical, superficial structure and vascular sonography.
Prerequisite: RIS 34075.
Corequisite: RIS 44074.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 4 lab, 24 other
Grade Mode: Standard Letter-IP

RIS 44078 SONOGRAPHIC TECHNIQUES 3 Credit Hours
Course integrates diagnostic medical sonography concepts in preparation for certification exams.
Prerequisite: RIS 34044 and 34052 and 44072.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44083 PATHOPHYSIOLOGY FOR MEDICAL IMAGING 3 Credit Hours
Provides students with basic information on the causes of disease and the body's response to disease, as well as the medical imaging modalities that will demonstrate them.
Prerequisite: RIS 34045 or RIS 44003 or RIS 44004; and radiologic and imaging science major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44084 ULTRASOUND IMAGE EVALUATION 1 Credit Hour
Presentation of sonographic findings in specific disease processes, with evaluation of image quality and emphasis on diagnostic features of pathologic entities.
Prerequisite: Radiologic and imaging science major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RIS 44088 LEADERSHIP IN MEDICAL IMAGING 1 Credit Hour
An introduction to the key strategies needed for success in health care leadership positions for both new and seasoned professionals. Includes supervision skills, competent communication, employment law, performance coaching, quality standards, accreditation and regulations, budgeting and finance, project management, leadership skills and health economics.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RIS 44092 COMPUTED TOMOGRAPHY/MAGNETIC RESONANCE INTERNSHIP (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience in a job related to the student's training. Student works with an organization for a minimum of 45 hours for each hour of credit.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

RIS 44096 INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS 3 Credit Hours
(Repeatable for credit) Students are assigned prescribed number of medical imaging journal articles, completes post test and submits a summary paper and online discussions.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

RIS 44098 RESEARCH IN MEDICAL IMAGING (ELR) (WIC) 3 Credit Hours
Fundamental concepts and procedures for systematic collection, analysis critique and application of qualitative and quantitative data in medical imaging.
Prerequisite: RIS 34030 or RIS 34045 or RIS 44003 or RIS 44004; and radiologic and imaging science major.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

Radiologic Technology (RADT)

RADT 14003 INTRODUCTION TO RADIOLOGIC TECHNOLOGY 2 Credit Hours
Introduction to radiologic technology program, general anatomy, radiographic procedures, imaging equipment and techniques, radiation protection, professional organizations and clinical education.
Prerequisite: Admission to technical study; and radiologic technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, .5 lab
Grade Mode: Standard Letter

RADT 14005 CLINICAL EDUCATION I 1 Credit Hour
Supervised observation and experience at the clinical education site with an emphasis on clinical practice of basic skills of radiologic technology and the exams covered in RADT 14006.
Prerequisite: None.
Schedule Type: Clinical Laboratory
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

RADT 14006 RADIOGRAPHIC PROCEDURES I 1 Credit Hour
Introduction to radiographic procedures and positioning of the chest, abdomen, fingers, hand and wrist.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.2 lecture, 1.2 lab
Grade Mode: Standard Letter

RADT 14015 CLINICAL EDUCATION II 3 Credit Hours
Continuation of RADT 14005 with emphasis on skeletal radiography, including upper and lower extremities, shoulder and pelvic girdles, vertebral spine and bony thorax.
Prerequisite: RADT 14005 and RADT 14006 with a minimum C grade.
Schedule Type: Clinical Laboratory
Contact Hours: 27 other
Grade Mode: Standard Letter-IP

RADT 14016 PATIENT CARE MANAGEMENT 2 Credit Hours
Interpersonal communication, history taking, medical/legal issues in radiology, physical assistance, patient monitoring, vital signs, patient tubes/catheters, infection control, aseptic and non-aseptic techniques, sterile procedures, tube and line insertions, medical emergencies and pharmacology.
Prerequisite: RADT 14003 with a minimum C grade.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

RADT 14018 IMAGING EQUIPMENT 2 Credit Hours
A study of the equipment used in radiographic imaging including x-ray tubes, x-ray filters, beam restrictors, grids, image receptors, fluoroscopic and mobile equipment and methods of quality control.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.8 lecture, .2 lab
Grade Mode: Standard Letter

RADT 14021 RADIOGRAPHIC PROCEDURES II 4 Credit Hours
Radiographic anatomy, positioning and image evaluation of the upper extremities, shoulder girdle, lower extremities, pelvic girdle, vertebral spine and bony thorax.
Prerequisite: RADT 14006 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3.6 lecture, 2.4 lab
Grade Mode: Standard Letter

RADT 14024 RADIOGRAPHIC PROCEDURES III 4 Credit Hours
Radiographic anatomy, positioning, procedures and image evaluation of the gastrointestinal, biliary and urinary systems and skull and facial bones positioning.
Prerequisite: RADT 14021 with a minimum C grade.
Corequisite: RADT 14025.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3.6 lecture, 2.4 lab
Grade Mode: Standard Letter

RADT 14025 CLINICAL EDUCATION III 3 Credit Hours
Continuation of RADT 14015 with emphasis on the clinical practice of previous course content plus digestive, biliary and urinary procedures as well as skull and facial bones positioning.
Prerequisite: RADT 14015 with a minimum C grade.
Corequisite: RADT 14024.
Schedule Type: Clinical Laboratory
Contact Hours: 27 other
Grade Mode: Standard Letter-IP

RADT 14034 IMAGE ACQUISITION AND PROCESSING 2 Credit Hours
Study of the technical factors and process of image acquisition, factors affecting image quality, processing of digital images and data management.
Prerequisite: RADT 14018.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

RADT 14085 CLINICAL EDUCATION IV 2 Credit Hours
Continuation of RADT 14025 with emphasis on clinical practice of content in previous clinical courses. More emphasis on independent clinical practice of procedures previously mastered.
Prerequisite: RADT 14025 with a minimum C grade.
Schedule Type: Clinical Laboratory, Laboratory
Contact Hours: 4.47 lab, 17.92 other
Grade Mode: Standard Letter-IP

RADT 14096 INDIVIDUAL INVESTIGATION IN DIRECTED READINGS IN RADIOLOGIC TECHNOLOGY 3 Credit Hours
(Repeatable for Credit) Student selects prescribed number of medical journals, completes questions, paper and presentation.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

RADT 21095 SPECIAL TOPICS IN RADIOLOGIC TECHNOLOGY 2-4 Credit Hours
(Repeatable for credit) Student participation course on topics pertinent to radiologic technology. Topics are chosen by the instructor. Student may enroll in course more than once.
Prerequisite: Special approval from instructor.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter

RADT 24008 RADIOBIOLOGY AND RADIATION PROTECTION 3 Credit Hours
Biological aspects of radiation, radiation interaction with matter, minimizing patient radiation exposure and personnel protection are topics covered.
Prerequisite: BSCI 11010 and BSCI 11020; or BSCI 21010 and BSCI 21020; or ATTR 25057 and ATTR 25058; or EXSC 25057 and EXSC 25058; and RADT 14003 with a minimum C grade.
Corequisite: RADT 24015.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24014 ADVANCED IMAGING 2 Credit Hours
Procedures and equipment used in advanced medical imaging including fluoroscopy, mammography, CT, MRI, interventional imaging, nuclear medicine, PET imaging, diagnostic medical sonography, radiation therapy and fusion studies as well as quality assurance.
Prerequisite: RADT 14025.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RADT 24015 CLINICAL EDUCATION V 3 Credit Hours
Continuation of RADT 14085 with emphasis on clinical practice of content of previous clinical courses. More emphasis on independent clinical practice previously mastered.
Prerequisite: RADT 14085 with a minimum C grade.
Schedule Type: Clinical Laboratory
Contact Hours: 27 other
Grade Mode: Standard Letter

RADT 24016 IMAGING PHYSICS 3 Credit Hours
Introduction to general physics, units and measurement, atomic structure, electromagnetic energy, x-ray production, electrodynamics, magnetism and electromagnetic devices, x-ray tube and x-ray circuitry.
Prerequisite: RADT 14018.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24025 CLINICAL EDUCATION VI 3 Credit Hours
Continuation of RADT 24015 with emphasis on mastery of clinical procedures.
Prerequisite: RADT 24015 with a minimum C grade.
Schedule Type: Clinical Laboratory
Contact Hours: 27 other
Grade Mode: Standard Letter-IP

RADT 24028 RADIOLOGIC PATHOLOGY 3 Credit Hours
Disease process and the pathologies associated with each anatomical system are described and their application to all modalities in the radiologic and imaging sciences.
Prerequisite: RADT 24015.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24048 RADIOGRAPHIC TECHNIQUES 3 Credit Hours
Review of radiologic technology to include review of patient care, safety, image production and procedures in preparation for the radiography certification exam.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24058 DIVERSIFIED EMPLOYMENT SKILLS 3 Credit Hours
Course features multiple topics in medical imaging to prepare graduates for employment in healthcare.
Prerequisite: RADT 24015.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24068 RADIOLOGY AND IMAGING EXPLORATION 2 Credit Hours
The course is designed for both the non-major or pre-radiology major learner. The course will provide an overview of the major medical imaging sciences. It will include the historical development of the area, indications/contraindications, strengths and weaknesses and basic image identification. It includes but is not limited to: Radiography, Fluoroscopy, Mammography, Interventional Radiology, Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Diagnostic Medical Sonography, Nuclear Medicine and Radiation Therapy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RADT 24096 INDIVIDUAL INVESTIGATION IN RADIOLOGIC TECHNOLOGY 1 Credit Hour
Directed research of special interest or need in the student's program. A research paper will be written on an assigned topic in radiologic technology.
Prerequisite: Admission to technical study; and RADT 14003 with a minimum C grade; and radiologic technology major.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

RADT 24196 INDIVIDUAL INVESTIGATION IN ADVANCED READINGS IN RADIOLOGIC TECHNOLOGY 3 Credit Hours
(Repeatable for credit) Course permits scholarly activities for research, study and summary of medical journal articles. Information aids in understanding recent advancements in medical imaging.
Prerequisite: Admission to technical study; and radiologic technology major.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

RADT 25010 MAMMOGRAPHIC EQUIPMENT, QUALITY ASSURANCE AND PROCEDURES 3 Credit Hours
Course provides students with foundational concepts of mammographic quality assurance testing and the factors that govern and influence quality control equipment. Students learn how to construct a quality assurance program for a mammography program following the American College of Radiology and Mammography Quality Standards Act guidelines. Students also gain an understanding of various radiographic imaging procedures, including routine localization, specimen radiography, ultrasound of the breast, cyst aspiration, fine needle aspiration cytology and breast magnetic resonance imaging. Course also covers minimally invasive mammographic needle breast biopsy procedures, core biopsy, stereotactic procedures and interventional procedures used in breast cancer diagnosis.
Prerequisite: RADT 14085.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 25011 MAMMOGRAPHIC POSITIONING AND PATIENT CARE 3 Credit Hours
Course provides the fundamentals of mammography positioning. Students study breast anatomy and physiology and pathologic changes and the relevance of these to mammographic appearance and positioning, including correlation to the radiographic appearance of normal anatomy and benign and malignant mammographic findings. Course also provides the basic concepts in patient assessment and evaluation in mammography. It includes effective communication, patient safety/comfort, patient preparation, professionalism, ethics and critical thinking. Course content emphasizes the importance of establishing a positive relationship with the patient, addressing their psychological needs and providing patient information related to the procedure.
Prerequisite: RADT 14085.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 25092 MAMMOGRAPHY CLINICAL (ELR) 2 Credit Hours
(Repeatable for credit) Course provides students with the clinical experience required to become competent in performing mammographic procedures, mammographic image critique and time to perform required quality control testing. Students learn to complete the entire examination, from request and chart review to patient screening; explaining the procedure to the patient; positioning the patient; using required accessories; setting the equipment; making a correct exposure; processing the image; completing the paperwork; using the computer to store patient data; and maintaining quality control. At successful conclusion, students obtain documentation of clinical competence as required by the ARRT for eligibility to take the advanced level examination in mammography. Students must perform 25 supervised examinations required by the initial MQSA mammography requirements and 75 mammographic examinations (screening and/or diagnostic). Examinations must be performed on patients (not phantoms or simulations).
Prerequisite: RADT 14085.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Reading (READ)

READ 00003 CORE READING STRATEGIES FOR COLLEGE SUCCESS 3 Credit Hours
Development of reading strategies necessary for successful completion of college coursework. Emphasis on improving reading comprehension. The credit hours completed for this course do not count toward graduation. Students who have a high school GPA of 1.59 or lower are placed into RC 00003 with an option to challenge the placement.
Prerequisite: ACT Reading score of 0-13; or SAT Evidence Based Reading and Writing score of 200-380; Accuplacer Next Generation Reading Comprehension score of 200-221 (required if student does not have ACT or SAT score).
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

READ 00006 CRITICAL READING STRATEGIES FOR COLLEGE SUCCESS 3 Credit Hours
Development and application of content area reading and study strategies for successful completion of college coursework. Emphasis on application of critical reading strategies. Credit hours for this course do not count toward graduation. Students who have a high school GPA of 1.6 through 2.79 are placed into RC00006 with the option to challenge the placement.
Prerequisite: ACT reading 14-19 score; or SAT Evidenced-Based Reading and Writing score of 390-470; or Accuplacer Next Generation Reading Comprehension 222-249; or a minimum C grade or higher in READ 00003.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

READ 00009 SWIFT KICK STUDY SKILLS 1 Credit Hour
Development of study strategies necessary for successful completion of college coursework. The credit hour completed for this course does not count toward graduation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

Respiratory Care (RSPC)

RSPC 30000 PROFESSIONAL PRACTICE IN RESPIRATORY CARE 3 Credit Hours
Course guides students in responsible professional practice and encourages personal development of the skills and key traits of the professional. The importance of continuing professional development, being reflective, ethical, accountable and culturally competent are also explored.
Prerequisite: Respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 30002 LEADERSHIP AND MANAGEMENT IN RESPIRATORY CARE 3 Credit Hours
Course allows students to utilize their knowledge and experience in understanding leadership as a team leader or team member in the practice of respiratory care. Management in respiratory care is explored, including hospital organization; department structure; outcomes; staffing, billing, budgeting and staff development; decision-making; and effective communication.
Prerequisite: Respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 30004 EDUCATIONAL INSTRUCTION IN RESPIRATORY CARE 3 Credit Hours
Course guides students in perspectives on teaching and learning, characteristics of the learner and techniques and strategies for teaching and learning. Delivery of respiratory therapy education in various settings.
Prerequisite: Respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 30006 SLEEP MEDICINE AND POLYSOMNOGRAPHY 3 Credit Hours
A fundamental overview of a variety of sleep and breathing disorders that affect sleep. Topics include the identification of normal sleep and sleep disorders, methods of diagnosing sleep disorders, and treatment options. Practice in comparing and evaluating the indications and contraindications for sleep studies and evaluating sleep study results in relation to types of respiratory sleep disorders.
Prerequisite: Respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 31095 SPECIAL TOPICS IN RESPIRATORY CARE 1-3 Credit Hours
(Repeatable for credit) Scheduled topics of interest to students and faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

RSPC 40000 DISEASE MANAGEMENT IN RESPIRATORY CARE 3 Credit Hours
Provides an advanced understanding of the pathophysiology and management of cardiopulmonary disease and comorbidities. Provides training in critical thinking in the management of chronic disease and utilization of patient-therapist participation principles; patient communication, evaluation, development of care plans and action plans utilizing evidence-based medicine; and protocols and clinical practice guidelines.
Prerequisite: Respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 40002 RESEARCH DEVELOPMENT IN RESPIRATORY CARE (WIC) 3 Credit Hours
Introduces the respiratory care practitioner to research methodology and design, their application to health science research and the application of research to everyday health care.
Prerequisite: MATH 10040 or MATH 10041 or BA 24056 or BMRT 21004 or PH 30002 or PSYC 21621 or SOC 32220 and SOC 32221; and ENG 21011 or HONR 10297; and respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

RSPC 40004 ADVANCED PRACTICE IN RESPIRATORY CARE 3 Credit Hours
Explores the traditional practice roles filled by respiratory therapists; the advanced practice roles that exist, as well as those that are emerging within the profession; and the career opportunities they represent for practitioners.
Prerequisite: Admission to professional study; and respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 40006 CONTEMPORARY ISSUES AND TRENDS IN RESPIRATORY CARE 3 Credit Hours
Analysis of contemporary issues and trends in respiratory care and their impact and influence on the profession.
Prerequisite: Respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 40008 CHRONIC DISEASE MANAGEMENT PRINCIPLES 3 Credit Hours
This course focuses on the application of critical thinking in the area of managing chronic disease and the impact healthcare professionals have on affecting positive patient population outcomes. Current practices, utilization of evidence-based medicine, protocols and current principles and trends in managing the impact of acute to chronic disease are discussed.
Prerequisite: Respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 40075 INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS 3 Credit Hours
(Cross-listed with NURS 40075) Focuses on the use of information management and information systems, technology and the human technology interface utilized in professional practice.
Prerequisite: Admission to professional study; and respiratory care major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 41092 PRACTICUM FOR RESPIRATORY CARE (ELR) 3 Credit Hours
An individually planned practicum that provides students the opportunity to explore real world application of program principles and practice options, or to conduct research within the realm of respiratory care under the guidance of a registered respiratory therapy practitioner. Focus is on options for practice or enhancing practice through application of program principles. Student's practicum experience requires prior faculty approval before registration.
Pre/corequisite: Admission to professional study; and RSPC 30000; RSPC 30002; RSPC 30004; RSPC 30006; RSPC 40006; RSPC 40075 or NURS 40075; NURS 46000; RSPC 40002; RSPC 40004; RSPC 40000 or RSPC 40008; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Respiratory Therapy (RESP)

RESP 10000 INTRODUCTION TO RESPIRATORY THERAPY 4 Credit Hours
Establishes a foundation in the profession of respiratory care. Topics include: patient assessment and monitoring, medical gas and humidity therapy, infection control, communication and diversity, clinical environment, patient education, disaster management, ethics and law, quality assurance and evidence based medicine, industry standards, healthcare reimbursement.
Prerequisite: Admission to technical study.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2.5 lab
Grade Mode: Standard Letter

RESP 11001 RESPIRATORY CARE PHARMACOLOGY 2 Credit Hours
Basic principles in pharmacology, specific to respiratory care, covering the pharmacokinetic action of drugs, administration, calculations, and effects on the body systems.
Prerequisite: RESP 11003 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RESP 11002 CARDIOPULMONARY DISEASES 3 Credit Hours
A study of diseases and disorders affecting the cardiopulmonary system; etiology, pathophysiology, clinical manifestations, analyzing and interpreting data, constructing respiratory care plans and the role of the respiratory therapist in treatment.
Prerequisite: RESP 10000 and RESP 11003 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RESP 11003 APPLICATION AND MECHANISMS OF CARDIOPULMONARY ANATOMY AND PHYSIOLOGY 3 Credit Hours
Provides a solid foundation in cardiopulmonary anatomy and physiology with relevant applied physiology as it relates to the profession of respiratory care.
Prerequisite: Admission to technical study; and respiratory therapy technology major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RESP 11004 THERAPEUTICS 6 Credit Hours
Introduction to inhaled medication administration, hyperinflation therapy, bronchopulmonary hygiene, and airway management. There is a laboratory and clinical component.
Prerequisite: RESP 10000 and RESP 11003 with a minimum C grade.
Pre/corequisite: BSCI 20021; and ENG 11011 or ENG 21011.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 4 lecture, 3 lab, 7.4 other
Grade Mode: Standard Letter

RESP 11008 BLOOD GAS ANALYSIS 2 Credit Hours
A study of methods, equipment, and procedures for obtaining arterial blood; additionally, the principles and standards of analysis and applications of physiological data is stressed.
Prerequisite: RESP 10000 and RESP 11003 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.67 lecture, 1.33 lab
Grade Mode: Standard Letter

RESP 21000 CRITICAL CARE 4 Credit Hours
An advanced-level course that provides a foundation for managing patients in critical care utilizing mechanical ventilation, pharmacology, and hemodynamic monitoring systems. Students perform, interpret and apply data, and learn advanced life support. There is a clinical component.
Prerequisite: RESP 21001 and RESP 21003 with a minimum C grade.
Schedule Type: Clinical Laboratory, Lecture
Contact Hours: 3 lecture, 12.8 other
Grade Mode: Standard Letter

RESP 21001 MECHANICAL VENTILATION 5 Credit Hours
Establishes a foundation of mechanical ventilation and associated equipment; assessment, monitoring and modifying parameters. There is a laboratory and clinical component.
Prerequisite: Minimum C grade in RESP 11001 or AHS 12000; and minimum C grade in RESP 11002,RESP 11004 and RESP 11008; and minimum C grade BSCI 11010 and BSCI 11020 or BSCI 21010 and BSCI 21020; and minimum C grade in CHEM 10050 or CHEM 10055 or CHEM 10060; and minimum C grade in ENG 11011 or ENG 21011 or HONR 10197 or HONR 10297.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 3 lecture, 3 lab, 14.93 other
Grade Mode: Standard Letter

RESP 21003 PERINATAL AND PEDIATRIC RESPIRATORY THERAPY 2 Credit Hours
An intense study of assessing, providing, and evaluating neonatal and pediatric respiratory care. Topics include: assessment of growth and development from conception to delivery, resuscitation, persistent illness, therapeutic interventions, and managing mechanical ventilation.
Prerequisite: RESP 11001 or AHS 12000 with a minimum grade of C; and minimum C grade in RESP 11002 and RESP 11004 and RESP 11008.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 1 lab
Grade Mode: Standard Letter

RESP 21004 ADVANCED DIAGNOSTICS 3 Credit Hours
Provides knowledge and skills necessary to work effectively in a pulmonary function laboratory. Topics include: spirometry, testing standards and techniques, equipment set up and utilization, analyzing test results and applying them in the clinical setting.
Prerequisite: RESP 11003 and RESP 11008 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

RESP 21006 PULMONARY REHABILITATION AND CONTINUING CARE 1 Credit Hour
Roles and functions of respiratory therapists in cardiopulmonary rehabilitation and home care.
Prerequisite: RESP 21001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RESP 21013 RESPIRATORY THERAPY CAPSTONE 2 Credit Hours
Contemporary issues and trends in respiratory care, preparation for the Respiratory Therapy entry level credentialing examinations and transitioning into the role of Respiratory Care Practitioner.
Prerequisite: RESP 21000 with minimum C grade.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 1 lecture, 1 lab, 16 other
Grade Mode: Standard Letter

RESP 21095 SPECIAL TOPICS IN RESPIRATORY THERAPY 1-3 Credit Hours
(Repeatable for credit) Select topics of interest to students and faculty.
Prerequisite: Special Approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

RESP 21096 INDIVIDUAL INVESTIGATION IN RESPIRATORY THERAPY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Readings and/or investigation of respiratory therapy topics supervised by respiratory therapy faculty.
Prerequisite: Respiratory therapy majors.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

Social Work (SWK)

SWK 24140 INTRODUCTION TO SOCIAL WORK 3 Credit Hours
Course provides an overview of the field of social work, including the historical development of social welfare, social work processes and programs and the emergence of social work as a profession. The impact of diverse leaders in social work is explored. Students are exposed to various career opportunities related to social work micro, mezzo and macro practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

SWK 24146 PERSPECTIVES ON BEHAVIOR AND ENVIRONMENT I 3 Credit Hours
An overview of human development throughout the life span. Students examine developmental stages, tasks and situational environmental influence upon individuals throughout their lives. The organization of the course includes instruction regarding the impact of psychological, biological, spiritual and social systems on individual lifespan development. Assess social work theories and knowledge base. Explore protective and risk factors throughout the life course.
Pre/corequisite: SWK 24140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 24147 PERSPECTIVES ON BEHAVIOR AND ENVIRONMENT II 3 Credit Hours
Course increases students' potential for effective generalist social work assessment and interventions with individuals, families, groups, organizations, social systems and communities. The influence of "person-in-environment" perspective is taken regarding influences that affect individuals' lives. Students explore microsystems, mesosystems and macrosystems, in addition to risk and protective factors for systems of various sizes.
Prerequisite: SWK 24140 and SWK 24146.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SWK 25100 SOCIAL WORK IN RURAL SETTINGS 3 Credit Hours
Course explore the challenges, special needs and cultural beliefs of those individuals and families living in rural communities. In the course, students (1) discuss and build upon strengths of rural individuals and communities; (2) examine needs and issues of special populations and vulnerable groups in rural areas; and (3) develop and apply innovative social work interventions and programs.
Prerequisite: SWK 24140.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SWK 25195 SPECIAL TOPICS IN SOCIAL WORK 1-4 Credit Hours
(Repeatable for credit) In-depth examination of particular topics of current interest to students. Specialized areas of social work theory or practice may be covered. Specific topics vary per offering and will be listed by title in the Schedule of Classes.
Prerequisite: SWK 24140.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

SWK 25248 SOCIAL WELFARE POLICY 3 Credit Hours
Analysis of social welfare systems, policies, programs, services and practice. Critical exploration of social welfare policy in relation to government policy development. In the course, students (1) examine philosophical, historical and present day perspectives; (2) assess social welfare policies at the local, state and federal levels; and (3) review the impact of leaders and legislation in the field of social work.
Pre/corequisite: SWK 24140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

SWK 34140 PRACTICE CONTENT FOR SOCIAL WORK I 3 Credit Hours
Students engage in coursework related to micro-level social work practice. Course focuses on practice with diverse individuals and families and utilizes evidence-based models. Included are introductions to the DSM-5, treatment planning and medical terminology. Also covered are family systems, dynamics, culturally competent practice and diversity within families. Students examine risk factors and protective factors, in addition to the impact of environmental factors on individuals and families such as poverty, unemployment, discrimination, community violence and rural and urban settings. Additional factors such as substance use, intimate partner violence and child abuse are discussed.
Prerequisite: SWK 24140.
Pre/corequisite: SWK 24146.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 34141 PRACTICE CONTENT FOR SOCIAL WORK II 3 Credit Hours
Course considers the importance of group dynamics, processes, content and roles at the micro levels, as well as the use of groups in various agency, organizational and community settings. Experiential and traditional teaching methods are used. Group intervention and treatment skills are addressed in relation to social work values, ethics and diversity within the group setting. Students explore power dynamics and group composition.
Prerequisite: SWK 24140 and SWK 24146 and SWK 34140.
Pre/corequisite: SWK 24147.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 34149 APPLIED RESEARCH IN SOCIAL WORK 3 Credit Hours
As an orientation to research procedures for the prospective social work practitioner. Students examine the methods of scientific inquiry as applied in social work research. Concept formation, research design, procedures, sources, collection and the presentation of data are all explored. The course prepares future social work practitioner to aid in practice evaluation when they begin work in the field. Research design and statistical analysis are focused on, and students complete a research project.
Prerequisite: SWK 24140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 35120 SOCIAL WORK IN MENTAL HEALTH SETTINGS 3 Credit Hours
In the course, students discuss diagnosis and treatment of mental health disorders; learn how the DSM-5 and ICD-10 are used in diagnosis of mental health conditions; develop client treatment plans and discharge summaries; and examine various means of treatment of those with mental health conditions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 35121 SOCIAL WORK IN SUBSTANCE USE DISORDER SETTINGS 3 Credit Hours
In the course, students examine social work with individuals and communities with substance use disorders and dysfunction; assess signs, symptoms and treatment of substance use disorders; explore prevention, theory and concepts of substance use in individuals, families and communities; and discuss implications for families, organizations and communities using the person-in-environment perspective.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 35122 SOCIAL WORK IN CHILD WELFARE SETTINGS 3 Credit Hours
In the course, students learn identification of symptoms of child abuse and neglect; examine theories of prevention and treatment for victims of child abuse and neglect, incorporating aspects of trauma-informed care; and explore effective case management techniques and social work practices for child welfare.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 35123 SOCIAL WORK AND TRAUMA-INFORMED CARE 3 Credit Hours
Course provides students with the tools to acknowledge and learn about the impact of trauma on human behavior and mental health. Students examine risk and protective factors involved in fostering resilience in difficult circumstances, in addition to exploring prevention and the impact of adverse childhood experiences on children, adolescents and adults.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 35124 SOCIAL WORK PERSPECTIVES ON AGING 3 Credit Hours
Course is a survey of the special needs of older adults. Within a varied theoretical framework, students examine sociological, psychological and biological age-related concepts, needs, problems and issues. In addition, students use historical and current demographic data to understand societal patterns, trends and policies toward the elderly.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 35125 INTERPROFESSIONAL APPROACHES TO SUICIDE PREVENTION 3 Credit Hours
Using readings and interactive case studies from health sciences, public health, law and psychology, students address multi-level influences on suicide and its prevention. Topics covered include suicide prevention-related ethical issues, terminology, attitudes and social norms, vulnerable populations, risk/protective factors, and mental health services and public health approaches to suicide prevention.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SWK 35195 SPECIAL TOPICS IN SOCIAL WORK 1-4 Credit Hours
(Repeatable for credit) In-depth examination of particular topics of current interest to students. Specialized areas of social work theory or practice may be covered. Specific topics vary per offering and will be listed by title in the Schedule of Classes.
Prerequisite: SWK 24140.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

SWK 35196 INDIVIDUAL INVESTIGATION IN SOCIAL WORK 1-4 Credit Hours
(Repeatable for credit) Provides students an opportunity to examine an individual topic of specialization within the field of social work while working closely with a faculty member. Involves a final project or research opportunity.
Prerequisite: SWK 24140.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

SWK 44192 FIELD EXPERIENCE I (ELR) 3 Credit Hours
Field work experiences are conducted in social service agencies, mental health settings, hospitals and non-profit organizations. This experiential learning builds upon students' foundation-level coursework and allows them to implement and use problem solving-skills, active listening, therapeutic techniques and a variety of interventions.
Prerequisite: Special approval.
Corequisite: SWK 44210.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

SWK 44210 INTEGRATIVE SEMINAR 3 Credit Hours
Promotes practice-theory integration emphasizing development of strong, ethical, and culturally competent social work practice skills. Supports students in their field experience in the seminar format with discussion and processing of practice issues, challenges and ethical dilemmas. Uses traditional and experiential learning to enhance students' learning environment.
Prerequisite: SWK 24140 and SWK 34140.
Pre/corequisite: SWK 34141.
Corequisite: SWK 44192.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SWK 44292 FIELD EXPERIENCE II (ELR) 3 Credit Hours
Students continue field work experiences in social service agencies, mental health settings, hospitals and non-profit organizations. This experiential learning builds upon students' foundation level coursework and allows them to implement and use problem solving-skills, active listening, therapeutic techniques and a variety of interventions.
Prerequisite: Special approval.
Corequisite: SWK 44299.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

SWK 44299 SOCIAL WORK CAPSTONE (ELR) (WIC) 3 Credit Hours
Course integrates comprehensive student learning involving theory, practice, methods and research. Students discuss and process the exhaustive knowledge and skills learned throughout the program. Culminates in a social work portfolio of completed papers, projects and/or videos.
Prerequisite: SWK 24140, SWK 34140, SWK 34141, SWK 44192 and SWK 44210.
Corequisite: SWK 44292.
Schedule Type: Project or Capstone, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

Technical and Applied Studies (TAS)

TAS 20092 PRACTICUM FOR TECHNICAL AND APPLIED STUDIES (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience in a job related to the student's program and career objectives.
Prerequisite: Sophomore standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

TAS 22095 SPECIAL TOPICS IN TECHNICAL AND APPLIED STUDIES 1-4 Credit Hours
(Repeatable for credit) Various special topics will be announced in the schedule of classes under this course number with different section numbers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

TAS 30095 SPECIAL TOPICS IN TECHNICAL AND APPLIED STUDIES 1-4 Credit Hours
(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

TAS 37900 TECHNICAL AND APPLIED STUDIES CORNERSTONE 3 Credit Hours
Cornerstone course instructs students about how the work role in industrial and information societies has evolved to its current organization. Students personalize the information by reflecting on the role of work in their own lives by reviewing theory and application of their own career management, examine the stages of career development, job stress, entrepreneurial careers and organization.
Prerequisite: Major in Technical and Applied Studies, Information Technology, Insurance Studies or Engineering Technology.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TAS 40092 INTERNSHIP FOR TECHNICAL AND APPLIED STUDIES (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience in a job related to the student's life and career objectives. Student works with a business or organization for a minimum of 45 hours for each hour of credit.
Prerequisite: Junior standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

TAS 47999 TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC) 3 Credit Hours
Acts as the culminating experience of degree program. Designed to help students articulate and integrate the competencies that are part of their bachelor's degree program. Students will engage in research, writing and application of program specific ethical issues, knowledge and skills specific to their chosen field. Students will explore career opportunities and trends in their field of study. In part, an electronic portfolio is used to help describe familiarity with the competencies gained throughout their degree program.
Prerequisite: Technical and Applied Studies major, Information Technology major, Insurance Studies major, Cybercriminology major or Animation and Game Design major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

Veterinary Technology (VTEC)

VTEC 10001 INTRODUCTION TO VETERINARY TECHNOLOGY 2 Credit Hours
Introduction to veterinary technician's career: medical terminology, career choices, occupational safety, human-animal bond, pet loss, euthanasia, animal husbandry and basic nutrition and basic animal behavior.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VTEC 10002 VETERINARY NURSING I 3 Credit Hours
Introduction to animal nursing: record keeping, kennel sanitation, animal restraint, syringe and needle identification/handling, injection techniques, physical exams, grooming and administration of medications and breed identification.
Prerequisite: Admission to technical study; and veterinary technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

VTEC 10003 VETERINARY PHARMACOLOGY I 2 Credit Hours
This is the first of two courses in the Veterinary Technology program that presents an introduction to the principles of pharmacology for the Veterinary Technician. The course will provide an overview of veterinary pharmacology and therapeutics, including a basic understanding of pharmacokinetics, terminology, prescription writing, methods of administration, controlled substance use and regulations and dosage calculations.
Prerequisite: CHEM 10050 or CHEM 10055; and VTEC 10001 and VTEC 10002 and VTEC 10204.
Pre/corequisite: VTEC 10205.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VTEC 10204 CLINICAL LABORATORY I 3 Credit Hours
Introduction to clinical laboratory: equipment and equipment maintenance; internal and external parasites; urinalysis. Lecture 2 hours, laboratory 3 hours weekly.
Prerequisite: Veterinary technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

VTEC 10205 VETERINARY NURSING II 3 Credit Hours
Clinical application off-site. Emphasis on skills from VTEC 10002; physical exam, medications, blood vessels catheterization, venipuncture; fluid therapy, wound care, patient rehabilitation and physical therapy, first aid, bandaging and CPR.
Prerequisite: Minimum C grade in all the following courses: BSCI 10005 and CHEM 10050; or CHEM 10055; and VTEC 10002 and VTEC 10204.
Pre/corequisite: VTEC 10001.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.7 lecture, 5 lab
Grade Mode: Standard Letter

VTEC 20001 NUTRITION OF DOMESTIC ANIMALS FOR VETERINARY TECHNICIANS 2 Credit Hours
Students will gain a basic understanding of clinical nutrition for domestic animals, both small and large, for various life stages and illnesses. Concepts will include nutrient composition, reading pet food labels, evaluation pet foods, understanding specialty, prescription, and alternative diets, use of various feeding tubes and their application to domestic animals and understanding illnesses that can occur due to improper nutrition.
Prerequisite: VTEC 10001 and VTEC 10002 and VTEC 10204.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VTEC 20002 DISEASES OF DOMESTIC ANIMALS FOR VETERINARY TECHNICIANS 2 Credit Hours
Students will gain knowledge of disease and pathology in domesticated large and small animal species. Discussion of the immune system and it's role in disease, classifications of disease, basic vaccination protocols, preventative medicine, as well as the etiology, clinical signs, treatment and control of diseases of domestic animals will take place.
Prerequisite: VTEC 10001 and VTEC 10205 and VTEC 20008 and VTEC 20215.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VTEC 20003 VETERINARY PHARMACOLOGY II 2 Credit Hours
Course includes continuation of dosage calculations, classification of medication including indications, side effects and contraindications of commonly used veterinary drugs.
Prerequisite: CHEM 10050 or CHEM 10055; and VTEC 10003 and VTEC 10205.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VTEC 20008 CLINICAL LABORATORY II 3 Credit Hours
Continuation and application of laboratory skills from Clinical Laboratory I; hematology, serology, cytology and other laboratory skills. Lecture 2 hours, laboratory 3 hours weekly.
Prerequisite: Minimum C grade in the following courses: BSCI 10005 and CHEM 10050; or CHEM 10055; and VTEC 10002 and VTEC 10204.
Pre/corequisite: VTEC 10001 and VTEC 10205.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.7 lecture, 5 lab
Grade Mode: Standard Letter

VTEC 20009 LARGE ANIMAL NURSING 3 Credit Hours
Continuing nursing skills/techniques emphasizing large animal species: restraint, venipuncture, behavior, breeds, feedstuffs, food safety, meds, preventive care, surgical procedures, lameness.
Prerequisite: BSCI 10110 and CHEM 10050 (or CHEM 10055) and VTEC 10001 and VTEC 10002 and VTEC 10204 and VTEC 10205 and VTEC 20008 and VTEC 20010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.7 lecture, 5 lab
Grade Mode: Standard Letter

VTEC 20010 IMAGING TECHNIQUES 3 Credit Hours
Principles and application of the production of X-rays, processing, radiation safety, storage, patient positioning and other imaging techniques.
Prerequisite: BSCI 10005 and CHEM 10050 (or CHEM 10055) and VTEC 10001 and VTEC 10002 and VTEC 10003 and VTEC 10204 and VTEC 10205 and VTEC 20008.
Pre/corequisite: VTEC 20003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.7 lecture, 5 lab
Grade Mode: Standard Letter

VTEC 20212 SURGERY AND ANESTHESIA 3 Credit Hours
Principles and application of the use of anesthetics, patient monitoring, dental prophylaxis, pre-surgery preparation, post-surgical patient care, sterilization, surgical preparation and assisting and equipment maintenance.
Prerequisite: Minimum C grade in the following courses: BSCI 10005 and CHEM 10050 (or CHEM 10055) and VTEC 10001 and VTEC 10002 and VTEC 10003 and VTEC 10204 and VTEC 10205 and VTEC 20008.
Pre/corequisite: VTEC 20003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.7 lecture, 5 lab
Grade Mode: Standard Letter

VTEC 20215 VETERINARY OFFICE APPLICATIONS 1 Credit Hour
Overview of veterinary practice management including veterinary medical record keeping, marketing, staff responsibilities, interoffice communications and public relation techniques. Automated veterinary office processing and record-keeping. Computer hardware and software commonly found in small to mid-sized veterinary practices described along with office procedures and work flow.
Prerequisite: BSCI 10005 and VTEC 10001 and VTEC 10002 and VTEC 10204.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

VTEC 20216 LABORATORY AND EXOTIC ANIMAL MEDICINE 2 Credit Hours
Introduction to laboratory medicine and management, including basic husbandry, common diseases, and treatment protocols for various laboratory animal species, pocket pets, avian and exotic species. The student will learn scientific names and primary use of common laboratory animals and will practice restraint, sexing, appropriate methods of venipuncture, administration of medications and anesthetic techniques.
Prerequisite: VTEC 10001 and VTEC 10205 and VTEC 20003 and VTEC 20008 and VTEC 20010 and VTEC 20212.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

VTEC 20392 PRACTICUM IN VETERINARY HOSPITAL (ELR) 5 Credit Hours
(Repeatable for credit)Students gain practical experience in veterinary clinic or approved clinical site to focus on mastery of all clinical skills needed for this career.
Prerequisite: BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.
Corequisite: VTEC 20213 and VTEC 20214.
Schedule Type: Practical Experience
Contact Hours: 5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Viticulture and Enology (VIN)

VIN 10510 MOLECULAR PRINCIPLES IN WINE AND BEER 4 Credit Hours
Covers the basic chemistry involved in the wine and winemaking process and the beer and brewing process. Includes basic understanding of the chemistry involved in the fermentation process, flavor, aroma and color of wine and beer.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter-IP

VIN 11100 INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT 3 Credit Hours
Introduces students to current practices for establishing a commercial vineyard and maintaining its health and productivity once established. Topics covered include varietal selection, site preparation, equipment, site selection, first season establishment, vine growth development and training, trellis systems, vine propagation, weed control and vine disease control. Field work sessions consisting of 16 hours of hands-on experience is scheduled in area vineyards.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

VIN 11200 BOTANICAL VITICULTURE 4 Credit Hours
Provides students with an overview of the plant kingdom and an examination of grapevine form and function from a botanical perspective.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter-IP

VIN 11392 WINTER VITICULTURE FIELDWORK (ELR) 2 Credit Hours
(Repeatable for credit) Provides students initiated in the field of viticulture practical experience in winter vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork portion of the course, which serves as experience for those seeking employment in commercial viticulture.
Prerequisite: VIN 11100.
Schedule Type: Field Experience, Lecture
Contact Hours: 1.5 lecture, 2.5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

VIN 11492 SPRING VITICULTURE FIELDWORK (ELR) 2 Credit Hours
(Repeatable for credit) Designed to provide students initiated in the field of viticulture practical experience in spring vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork experience portion of the course, which serves as experience for those seeking employment in commercial viticulture.
Prerequisite: VIN 11100.
Schedule Type: Field Experience, Lecture
Contact Hours: 1.5 lecture, 2.5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

VIN 11592 SUMMER/FALL VITICULTURE FIELDWORK (ELR) 2 Credit Hours
(Repeatable for credit) Provides viticulture students practical experience in summer and fall vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork portion of the course, which serves as experience for those seeking employment in commercial viticulture.
Prerequisite: VIN 11100.
Schedule Type: Field Experience, Lecture
Contact Hours: 1.5 lecture, 2.5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

VIN 11800 INTRODUCTION TO BREWING 3 Credit Hours
This course is designed to introduce students to the basic principles of brewing on the home scale with an overview of brewing on the commercial scale. Students will learn about brewing, malt extracts, beer kits, brewing sugars, water, hops, yeast, boiling and cooling, fermentation, lagering beer, and priming and bottling. At the conclusion of this class, students will have the knowledge to brew small batches of beer successfully on the home scale.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

VIN 14000 INTERMEDIATE BREWING 3 Credit Hours
Intermediate Brewing is designed to give students a depth of knowledge in all grain brewing on the home scale, developing skills and knowledge of brewing on the commercial scale. Students will delve into brewing, water, hops, yeast, boiling and cooling, fermentation, lagering beer, filtering, and priming and bottling.
Prerequisite: VIN 11800.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

VIN 20095 SPECIAL TOPICS IN VITICULTURE AND ENOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Various special topics to be announced in the Schedule of Classes, offering current topics in viticulture and enology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

VIN 21100 INTEGRATED PEST MANAGEMENT 2 Credit Hours
Effective grape production depends on the grower developing a system of grape management that is appropriate for each vineyard. Decisions need to be made for how to manage all of the normal cultural practices such as planting, fertility, harvesting and pruning, as well as managing the insect, disease and weed problems that occur either regularly or sporadically. Course addresses management issues related to common, expected pest problems, as well as the occasional appearance of minor pest problems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

VIN 21300 REGIONAL VINEYARD MANAGEMENT 2 Credit Hours
A general study of vineyard management in the general wine growing regions in the Continental United States. Covers management of the mature vineyard from region to region and builds on the topics covered in prerequisite course.
Prerequisite: VIN 11100.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

VIN 24000 SENSORY EVALUATION OF BEER 3 Credit Hours
Intended for those individuals who need to develop an understanding of the principles of sensory evaluation used in commercial beer making. It also benefits beer enthusiasts interested in reaching advanced levels of appreciation, as well beer producers, beer merchants and beer chemists, who by the nature of their profession need to discern flavors and establish tasting benchmarks. Students practice sensory analysis at home and in workshops to further their sensory evaluation skills and techniques.
Prerequisite: VIN 11800.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

VIN 28992 BREWERY PRODUCTION FIELD EXPERIENCE (ELR) 2 Credit Hours
Provide students initiated in the field of brewing with actual and practical exposure to the technology of brewing. Students are expected to improve their understanding of the methods and science involved by on-site participation in each of the various activities associated with finished beer production. Course serves as actual practical exposure and may qualify as experience for those seeking employment in commercial brewing.
Prerequisite: VIN 11800 and VIN 14000.
Schedule Type: Lecture, Practical Experience
Contact Hours: .6 lecture, 4.25 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

VIN 29300 SOILS FOR VITICULTURE 3 Credit Hours
Explores soil properties and behavior and their influence on wines. Focuses not only on growth and production, but on the long-term effects of viticulture on soil quality and the wider environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

Accounting Technology - A.A.B.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Associate of Applied Business degree in Accounting Technology provides students with a broad range of practical accounting and communication skills and teamwork experience. These combined skills prepare students for immediate entry into the accounting technology field in numerous environments, including manufacturing, retail, service and governmental organizations.

The degree program articulates with select bachelor's degrees at Kent State.

Contact Information

- **Daryl Upole** | dupole1@kent.edu | 440-964-4269
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Online (any campus above)
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Trumbull Campus
  - Tuscarawas Campus

Examples of Possible Careers and Salaries*

Bookkeeping, accounting, and auditing clerks

- -5.7% decline
- 1,673,600 number of jobs
- $42,410 potential earnings

Brokerage clerks

- 3.8% about as fast as the average
- 48,600 number of jobs
- $55,270 potential earnings

Payroll and timekeeping clerks

- -4.5% decline
- 149,800 number of jobs
- $47,020 potential earnings

Tax preparers

- -0.6% little or no change
- 88,400 number of jobs
- $44,300 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ACTT 11000	ACCOUNTING I: FINANCIAL (min C grade)	4
ACTT 11001	ACCOUNTING II: MANAGERIAL (min C grade)	4
ACTT 20012	ACCOUNTING SOFTWARE APPLICATIONS (min C grade)	3
ACTT 21000	ACCOUNTING III: FINANCIAL (min C grade)	3
ACTT 21003	FUNDAMENTALS OF TAX PREPARATION (min C grade)	3
ACTT 31063	INTRODUCTION TO COST ACCOUNTING (min C grade)	3
BMRT 11000	INTRODUCTION TO BUSINESS	3
Technical Electives, choose from the following: [1]		9
Accounting Technology (ACTT) Courses		
Business Management Technology (BMRT) Courses		
Information Technology (IT) Courses		
Office Technology (OTEC) Courses		
Additional Requirements (courses do not count in major GPA)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
ENG 20002 or OTEC 26638	INTRODUCTION TO TECHNICAL WRITING BUSINESS COMMUNICATIONS	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Kent Core Composition [2]		6
Kent Core Humanities and Fine Arts		3
Kent Core Basic Sciences		3
General Electives (total credit hours depends on earning 60 credits hour)		3
Minimum Total Credit Hours:		**63**

[1] Courses should be selected in consultation with an advisor. Students preparing to pursue an B.B.A. degree may apply MATH 10041 and MATH 11012 toward technical electives.

[2] 3 credit hours are required for Kent Core (University Requirements). This program requires a total of 6 credit hours to earn the degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	ACTT 11000	ACCOUNTING I: FINANCIAL	4
!	BMRT 11000	INTRODUCTION TO BUSINESS	3
	UC 10001	FLASHES 101	1
	Kent Core Composition		3
	Kent Core Humanities or Fine Arts		3
	Technical Elective		3
		Credit Hours	**17**
	Semester Two		
!	ACTT 11001	ACCOUNTING II: MANAGERIAL	4
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	Technical Elective		3
	General Elective		3
		Credit Hours	**16**
	Semester Three		
!	ACTT 21000	ACCOUNTING III: FINANCIAL	3
!	ACTT 21003	FUNDAMENTALS OF TAX PREPARATION	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	Kent Core Basic Sciences		3
	Kent Core Composition		3
		Credit Hours	**15**
	Semester Four		
!	ACTT 20012	ACCOUNTING SOFTWARE APPLICATIONS	3
!	ACTT 31063	INTRODUCTION TO COST ACCOUNTING	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
	ENG 20002 or OTEC 26638	INTRODUCTION TO TECHNICAL WRITING or BUSINESS COMMUNICATIONS	3
	Technical Elective		3
		Credit Hours	**15**
		Minimum Total Credit Hours:	**63**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
	Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Kent Core (see table below)		15
Total Credit Hour Requirement		60
	Some associate degrees require students to complete more than 60 credit hours.	

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply generally accepted accounting principles (GAAP) to analyze and record business transactions, prepare financial statements and complete all other procedural steps in the accounting cycle of a company.
2. Identify different manufacturing costs, record transactions to reflect the cost flow of a manufacturing company and prepare various management reports.
3. Prepare individual tax returns (manual and electronic).
4. Maintain accounting records of a company utilizing a general ledger software package.

Advanced Semiconductor Manufacturing Technician - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Dive into the forefront of technological innovation with our Advanced Semiconductor Manufacturing Technician certificate, where high-tech courses propel students into the world of semiconductor fabrication and beyond. From mastering clean room protocols to delving into the intricacies of digital and electronic systems, our program empowers graduates to lead the charge in chip production and circuit board development. As advanced semiconductor manufacturing technicians, they play a pivotal role in product evaluation and testing, utilizing cutting-edge diagnostic tools to fine-tune and repair equipment, shaping the landscape of tomorrow's technology. Read more...

Contact Information

- **Flavia Princess Nesamani Inbanathan, Ph.D.** | finbanat@kent.edu | 330-675-8962
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Mostly online
  - In person
- **Location:**
  - Trumbull Campus

Examples of Possible Careers and Salaries*

Calibration technologists and technicians and engineering technologists and technicians, except drafters, all other

- 2.1% slower than the average
- 91,600 number of jobs
- $64,190 potential earnings

Semiconductor processing technicians

- 0.7% little or no change
- 30,800 number of jobs
- $40,500 potential earnings

Additional Careers

- Field Service Technician - Semiconductor Equipment
- Industrial Maintenance Mechanic
- Packaging Technician
- Production Associate
- Production Packaging Associate
- Quality Technician
- Semiconductor Process Equipment Technician
- Semiconductor Manufacturing Technician
- Senior Equipment Maintenance Technician - Semiconductors

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Code	Title	Credit Hours
ATS 11001	INTRODUCTION TO VACUUM SYSTEMS	3
ATS 11002	OVERVIEW OF MANUFACTURING MAINTENANCE	3
EERT 11000	INTRODUCTION TO SEMICONDUCTOR AND CLEANROOM	4
EERT 12000	ELECTRIC CIRCUITS I	4
EERT 12001	ELECTRIC CIRCUITS II	3
EERT 12010	INTRODUCTION TO ELECTRONICS	4
EERT 22004	DIGITAL SYSTEMS	4
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	3-4
or MATH 10051	QUANTITATIVE REASONING (KMCR)	
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MERT 12000	ENGINEERING DRAWING	3
Minimum Total Credit Hours:		**34**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ATS 11001	INTRODUCTION TO VACUUM SYSTEMS	3
ATS 11002	OVERVIEW OF MANUFACTURING MAINTENANCE	3
EERT 11000	INTRODUCTION TO SEMICONDUCTOR AND CLEANROOM	4
EERT 12000	ELECTRIC CIRCUITS I	4
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
	Credit Hours	**17**
Semester Two		
EERT 12001	ELECTRIC CIRCUITS II	3
EERT 12010	INTRODUCTION TO ELECTRONICS	4
EERT 22004	DIGITAL SYSTEMS	4

MATH 10041 or MATH 10051 or MATH 11010	INTRODUCTORY STATISTICS (KMCR) or QUANTITATIVE REASONING (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
MERT 12000	ENGINEERING DRAWING	3
	Credit Hours	**17**
	Minimum Total Credit Hours:	**34**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the capability of working safely in a cleanroom and microelectronic manufacturing environment.
2. Articulate how a semiconductor wafer is manufactured and processed to become an integrated circuit.
3. Articulate chemistry and safety awareness in semiconductor manufacturing.
4. Read and follow standard operating procedures/checklists in paper or digital format.
5. Examine maintenance procedures.
6. Articulate basic principles and purpose of quality control and quality systems.
7. Examine the basic concepts of geometric dimensioning, tolerancing, visualization and graphics in engineering technology.
8. Explain the operational mechanisms and process use of vacuum pumps used in the semiconductor industry.
9. Demonstrate the ability to test and troubleshoot a vacuum pump system with a leak.
10. Construct, analyze and troubleshoot DC electric circuits.
11. Demonstrate working with computers in daily manufacturing process environment.
12. Demonstrate problem-solving, critical thinking and communication skills.

Full Description

The Advanced Semiconductor Manufacturing Technician undergraduate certificate provides students with a core of high-tech, manufacturing-related courses with a focus on semiconductor fabrication, clean room, vacuum technology, manufacturing and maintenance, digital and electronic systems and the design and development of electrical and electronic circuits.

Advanced semiconductor manufacturing technicians help engineers to manufacture semiconductor chips in the fabrication plant, operate and maintain the vacuum pumps and systems in manufacturing facility, design and develop circuit boards for computers, electrical and electronic equipment. They often work in product evaluation and testing, using measuring and diagnostic devices to adjust, test and repair equipment.

The certificate articulates with the Kent State's Associate of Applied Science in Electrical/Electronic Engineering Technology and Bachelor of Science in Engineering Technology.

Animation Game Design - B.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Ready to turn your passion for games and animation into a profession? Kent State University's Animation and Game Design bachelor's degree program is the perfect place to start. With a cutting-edge curriculum and access to state-of-the-art technology, you'll be equipped with the skills you need to make your mark in the industry. Read more...

Contact Information

- **Chris Totten** | ctotten@kent.edu
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus
  - Tuscarawas Campus

Examples of Possible Careers and Salaries*

Artists and related workers, all other

- -0.2% little or no change
- 13,100 number of jobs
- $65,800 potential earnings

Special effects artists and animators

- 4.1% about as fast as the average
- 67,500 number of jobs
- $77,700 potential earnings

Accreditation

National Association of Schools of Art and Design (NASAD)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college

preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
AGD 12000	TWO DIMENSION GRAPHICS	3
AGD 12001	MODELING AND TEXTURING I	3
AGD 21000	FUNDAMENTALS OF MIXED REALITY	3
AGD 22004	MODELING AND TEXTURING II	3
AGD 22010	DIGITAL SCULPTING	3
AGD 23020	GAMING AND CULTURE	3
AGD 34003	ANIMATION THEORY	3
AGD 43092	INTERNSHIP IN ANIMATION AND GAME DESIGN (ELR) (WIC) [1]	3
or AGD 43096	INDIVIDUAL INVESTIGATION IN ANIMATION AND GAME DESIGN	
AGD 49999	SENIOR CAPSTONE PROJECT (ELR) (WIC) [1]	3
or TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC)	
Major Electives, choose from the following: [2]		24
AGD 11003	SOLID MODELING	
AGD 21092	ANIMATION AND GAME DESIGN PRACTICUM (ELR)	
AGD 22000	TWO-DIMENSION COMMUNICATION	
AGD 22001	MODELING FOR ARCHITECTURE	
AGD 22005	MULTIMEDIA AND GAME DESIGN	
AGD 22095	SPECIAL TOPICS IN ANIMATION AND GAME DESIGN	
AGD 23030	GAME PROTOTYPING	
AGD 33010	COMPETITIVE GAMING	
AGD 33095	SPECIAL TOPICS ANIMATION AND GAME DESIGN	
AGD 34000	CHARACTER ANIMATION	
AGD 34001	ANIMATION PROJECT	
AGD 34005	ENVIRONMENTAL GAME DESIGN	
AGD 43001	ANIMATION PRODUCTION AND VISUAL EFFECTS	
AGD 43025	REAL-TIME RENDERING FOR ANIMATION	
AGD 43092	INTERNSHIP IN ANIMATION AND GAME DESIGN (ELR) (WIC) [1]	
AGD 43096	INDIVIDUAL INVESTIGATION IN ANIMATION AND GAME DESIGN	
AGD 43099	GAME PROJECT (ELR)	
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	
ART 10022	2D COMPOSITION	
ART 10023	3D COMPOSITION	
CCI 12001	PHOTOGRAPHY	
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING	
CS 13012	COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
DI 10010	SURVEY OF DESIGN INNOVATION NODES	
DI 20020	BE SMARTER THAN YOUR SMARTPHONE	
DI 20100	INTRODUCTION TO DESIGN INNOVATION	
EERT 32003	TECHNICAL COMPUTING	
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
ENG 20021	INTRODUCTION TO CREATIVE WRITING	
ENGT 33010	COMPUTER HARDWARE FOR ANIMATION	
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
FDM 10023	FASHION VISUALS	
FDM 10024	FASHION VISUALS LABORATORY	
FDM 20013	HISTORY OF FASHION	
MDJ 10009	ELEMENTS OF FILM, TV AND ANIMATION	
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
MDJ 20011	PRODUCTION FUNDAMENTALS	
MDJ 23004	STORY FOR PICTURE	
MERT 12000	ENGINEERING DRAWING	
MERT 12001	COMPUTER-AIDED DESIGN	
MERT 34002	ADVANCED SOLID MODELING	
MUS 21113	MUSIC PRODUCTION I	
MUS 21114	MUSIC PRODUCTION II	
MUS 21221	AUDIO RECORDING I	
THEA 11303	THE ART OF ACTING	
Additional Requirements (courses do not count in major GPA)		
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
or ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	
or VCD 13000	VISUAL DESIGN THINKING	
ARTS 14000	DRAWING I	3

ARTS 14001	DRAWING II	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		5
Concentrations		
Choose from the following:		18
Animation		
Game Design		
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Students should meet with an advisor when selecting electives.

Animation Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
AGD 11003	SOLID MODELING	3
AGD 34000	CHARACTER ANIMATION	3
AGD 34001	ANIMATION PROJECT	3
AGD 43001	ANIMATION PRODUCTION AND VISUAL EFFECTS	3
AGD 43025	REAL-TIME RENDERING FOR ANIMATION	3
Animation Game Design (AGD) Elective		3
Minimum Total Credit Hours:		**18**

Game Design Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
AGD 22001	MODELING FOR ARCHITECTURE	3
AGD 22005	MULTIMEDIA AND GAME DESIGN	3
AGD 33010	COMPETITIVE GAMING	3
AGD 33030	GAMES FOR IMPACT	3
AGD 34005	ENVIRONMENTAL GAME DESIGN	3
AGD 43099	GAME PROJECT (ELR)	3
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmaps

Animation Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
AGD 12000	TWO DIMENSION GRAPHICS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
AGD 11003	SOLID MODELING	3
ARTH 22006 or ARTH 22007 or VCD 13000	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA) or ART HISTORY: RENAISSANCE TO MODERN ART (KFA) or VISUAL DESIGN THINKING	3
ARTS 14000	DRAWING I	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
ARTS 14001	DRAWING II	3
AGD 12001	MODELING AND TEXTURING I	3
AGD 21000	FUNDAMENTALS OF MIXED REALITY	3
Major Electives		6
	Credit Hours	**15**
Semester Four		
AGD 22004	MODELING AND TEXTURING II	3
AGD 22010	DIGITAL SCULPTING	3
AGD 23020	GAMING AND CULTURE	3
Major Elective		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
AGD 34000	CHARACTER ANIMATION	3
AGD 34003	ANIMATION THEORY	3
Major Elective		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Six		
AGD 34001	ANIMATION PROJECT	3
MATH 11022	TRIGONOMETRY (KMCR)	3
Animation Game Design (AGD) Elective		3
Major Electives		6
	Credit Hours	**15**
Semester Seven		
AGD 43001	ANIMATION PRODUCTION AND VISUAL EFFECTS	3
AGD 43025	REAL-TIME RENDERING FOR ANIMATION	3
Major Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**

Semester Eight		
AGD 43092 or AGD 43096	INTERNSHIP IN ANIMATION AND GAME DESIGN (ELR) (WIC) or INDIVIDUAL INVESTIGATION IN ANIMATION AND GAME DESIGN	3
AGD 49999 or TAS 47999	SENIOR CAPSTONE PROJECT (ELR) (WIC) or TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC)	3
Major Elective		3
Kent Core Requirement		3
General Elective		2
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

Game Design Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
AGD 12000	TWO DIMENSION GRAPHICS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
ARTH 22006 or ARTH 22007 or VCD 13000	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA) or ART HISTORY: RENAISSANCE TO MODERN ART (KFA) or VISUAL DESIGN THINKING	3
ARTS 14000	DRAWING I	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Major Elective		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
AGD 12001	MODELING AND TEXTURING I	3
AGD 21000	FUNDAMENTALS OF MIXED REALITY	3
AGD 22001	MODELING FOR ARCHITECTURE	3
ARTS 14001	DRAWING II	3
Major Elective		3
	Credit Hours	**15**
Semester Four		
AGD 22004	MODELING AND TEXTURING II	3
AGD 22005	MULTIMEDIA AND GAME DESIGN	3
AGD 22010	DIGITAL SCULPTING	3
AGD 23020	GAMING AND CULTURE	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
AGD 33030	GAMES FOR IMPACT	3
AGD 34003	ANIMATION THEORY	3
Major Elective		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Six		
AGD 33010	COMPETITIVE GAMING	3
AGD 34005	ENVIRONMENTAL GAME DESIGN	3
MATH 11022	TRIGONOMETRY (KMCR)	3
Major Electives		6
	Credit Hours	**15**
Semester Seven		
AGD 43099	GAME PROJECT (ELR)	3
Major Electives		6
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Eight		
AGD 43092 or AGD 43096	INTERNSHIP IN ANIMATION AND GAME DESIGN (ELR) (WIC) or INDIVIDUAL INVESTIGATION IN ANIMATION AND GAME DESIGN	3
AGD 49999 or TAS 47999	SENIOR CAPSTONE PROJECT (ELR) (WIC) or TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC)	
Major Elective		3
Kent Core Requirements		6
General Elective		2
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate current skills in two- and three-dimension modeling, animation and game design.
2. Apply design thinking to technological problems, including demonstrating familiarity with design thinking applicable to their professional work.
3. Demonstrate an understanding of the ethics (and legal issues) closely associated with fields of modeling, animation and game design.
4. Demonstrate effective communication skills — both verbally and in written form — with technical, business and design professionals, including effective communication as individuals and as part of a project team.
5. Participate in and lead multidisciplinary project teams, demonstrating theoretical and practical understanding of team dynamics.
6. Demonstrate appreciation for diverse cultures and individual differences and reflect that appreciation in their work.
7. Engage in continuous learning, as well as research and assess new ideas and information to provide the capabilities for lifelong learning.

Full Description

The Bachelor of Science degree in Animation Game Design provides the key concepts, creative tools and principles of diverse skills in fundamental and advanced technical knowledge of modeling, animation and game design.

The degree program prepares students for careers by developing technical competency, creative/independent problem solving and conceptual understanding necessary for the challenges of a career in the creative industries. Upon graduation, students have created a professional-quality portfolio to enter the field of content creators and are prepared for jobs in technical illustration, two- and three-dimension modeling, game design, animation, artistic production and exhibition. Students are guided in selecting courses that support a given concentration. They can take courses in various aspects of art, design and film/video.

The Animation Game Design major comprises the following concentrations:

- The **Animation** concentration involves bringing motion to still objects or displaying a sequence of still images to create the illusion of motion or life. Animation involves more than just character motion; it includes motion graphics, video editing, special effects, cameras and video output. Students learn how to animate characters, elements of environments and graphics. Two- and three-dimension models are animated as necessary, via a combination of manual animation, procedural tools and physical simulation.
- The **Game Design** concentration provides the environment and content creation in two- and three-dimension models. The focus is on the design part of game environments to be used on platforms such as personal computers, smart phones and game consoles. Students learn the importance of two- and three-dimension model creation for specific games used for simulation, training, entertainment and measuring educational outcomes.

Associate of Arts

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Associate of Arts degree is a generalist program that provides students with the flexibility to explore a broad range of disciplines, including the arts, humanities and social sciences. This degree serves students who wish to experience a well-rounded education, plan to transfer into a bachelor's degree program, or seek to enhance their career qualifications. With its adaptable structure, the program allows students to sample various subject areas or focus on a specific field of interest to meet their unique educational goals. In addition, students who complete this degree satisfy the full Kent Core requirement.

Contact Information

- cats@kent.edu | 330-672-2864
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center
  - Curitiba, Paraná, Brazil

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
Electives Chosen in Students' Area of Interest		23
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		9
Kent Core Social Sciences		6
Kent Core Basic Sciences		6-7
Kent Core Additional		6
Minimum Total Credit Hours:		**60**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Elective		3
	Credit Hours	**16**
Semester Two		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Electives		6
	Credit Hours	**15**
Semester Three		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Electives		6
	Credit Hours	**15**
Semester Four		
Kent Core Requirement		3
Kent Core Requirement		3
Electives		8
	Credit Hours	**14**
	Minimum Total Credit Hours:	**60**

University Requirements

All students in the Associate of Arts or Associate of Science degree at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.		
Kent Core (see table below)		36-37
Total Credit Hour Requirement		60
Some associate degrees require students to complete more than 60 credit hours.		

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Communicate effectively through written, oral, and visual presentations.
2. Apply critical thinking and problem-solving skills across disciplines.

3. Recognize how varying societal and community perspectives shape knowledge across various disciplines.
4. To utilize concepts and findings of the specific social and behavioral discipline to make informed decisions and predictions.

Associate of Science

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Associate of Science degree is a generalist program with a versatile design to support a range of educational and career goals, with options to explore science, technology, engineering and mathematics (STEM) fields. This degree is ideal for students seeking a broad education that can prepare them for further study in a bachelor's program or enhance their qualifications for career advancement. With its flexible curriculum, students have the opportunity to sample various disciplines or focus on a specific area to meet their individual educational needs. In addition, students who complete this degree satisfy the full Kent Core requirement.

Contact Information

- cats@kent.edu | 330-672-2864
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center
  - Curitiba, Paraná, Brazil

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
Electives Chosen in Students' Area of Interest		23
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		9
Kent Core Social Sciences		6
Kent Core Basic Sciences		6-7
Kent Core Additional		6
Minimum Total Credit Hours:		**60**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Elective		3
	Credit Hours	**16**
Semester Two		
Kent Core Requirement		3

Kent Core Requirement	3
Kent Core Requirement	3
Electives	6
Credit Hours	**15**
Semester Three	
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Electives	6
Credit Hours	**15**
Semester Four	
Kent Core Requirement	3
Kent Core Requirement	3
Electives	8
Credit Hours	**14**
Minimum Total Credit Hours:	**60**

University Requirements

All students in the Associate of Arts or Associate of Science degree at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
	Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Kent Core (see table below)		36-37
Total Credit Hour Requirement		60
	Some associate degrees require students to complete more than 60 credit hours.	

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Communicate effectively through written, oral, and visual presentations.
2. Apply critical thinking and problem-solving skills across disciplines.
3. Explain diverse cultural worldviews and social distinctions.
4. Apply scientific methods and models to solve problems across multiple fields of study.

Brewing Technology - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Brewing Technology undergraduate certificate provides students with the practical experience and the technology skills of brewing. The certificate emphasizes the science of brewing and includes hands-on field experience and laboratory work at local breweries.

Contact Information

- cats@kent.edu | 330-672-2864
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**
  - Ashtabula

Examples of Possible Careers and Salaries*

Agricultural and food science technicians

- 4.1% about as fast as the average
- 24,200 number of jobs
- $41,970 potential earnings

Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders

- 3.5% about as fast as the average
- 53,100 number of jobs
- $43,100 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

NOTE: Certain courses in the certificate require students to be at least 21 years old.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
ENOL 12000	SCIENCE OF WINE AND BEER PRODUCTION I	3
ENOL 22000	SCIENCE OF WINE AND BEER PRODUCTION II	2
ENOL 22001	ADVANCED WINERY AND BREWERY MICROBIOLOGY AND SANITATION	4
VIN 11800	INTRODUCTION TO BREWING	3
VIN 14000	INTERMEDIATE BREWING	3
VIN 24000	SENSORY EVALUATION OF BEER	3
VIN 28992	BREWERY PRODUCTION FIELD EXPERIENCE (ELR)	2
Minimum Total Credit Hours:		**20**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ENOL 12000	SCIENCE OF WINE AND BEER PRODUCTION I	3
VIN 11800	INTRODUCTION TO BREWING	3
	Credit Hours	**6**
Semester Two		
ENOL 22000	SCIENCE OF WINE AND BEER PRODUCTION II	2
ENOL 22001	ADVANCED WINERY AND BREWERY MICROBIOLOGY AND SANITATION	4
	Credit Hours	**6**
Semester Three		
VIN 14000	INTERMEDIATE BREWING	3
VIN 24000	SENSORY EVALUATION OF BEER	3
	Credit Hours	**6**
Semester Four		
VIN 28992	BREWERY PRODUCTION FIELD EXPERIENCE (ELR)	2
	Credit Hours	**2**
	Minimum Total Credit Hours:	**20**

Program Learning Outcomes

Graduates of this program will be able to:

1. Produce beer according to commercial industry standards.
2. Perform chemical analysis of beer.
3. Perform lab tests to identify microbiological components of yeast and beer, troubleshooting potential quality and sanitation issues.
4. Analyze sensory characteristics of beer.
5. Use commercial brewing equipment.
6. Communicate effectively with professionals in the brewing industry.

Business Management Technology - A.A.B.

College of Applied and Technical Studies
www.kent.edu/cats/bmt

About This Program

With a focus on hands-on experience and practical skills, our associate degree program prepares you for a variety of roles in business and technology. Students can specialize in marketing/sales, management, entrepreneurship, logistics or supply chain management, or they can take a 2+2 articulation pathway toward the B.B.A. degree. Apply now and take the first step toward an exciting career. Read more...

Contact Information

- **Sean Ratican** | sratican@kent.edu | 330-847-0571
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Salem Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center
  - Online (any campus above)
- Chat with an Admissions Counselor

Program Delivery

- **Delivery**
  - Fully online
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus

- Salem Campus
- Trumbull Campus
- Tuscarawas Campus
- Twinsburg Academic Center
- Leavittsburg, Ohio (*Management and Entrepreneurship concentration and Marketing/Sales concentration only*)
- Lisbon, Ohio (*Management and Entrepreneurship concentration only*)

Examples of Possible Careers and Salaries*

Administrative services and facilities managers

- 6.5% faster than the average
- 325,900 number of jobs
- $98,890 potential earnings

General and operations managers

- 5.8% faster than the average
- 2,486,400 number of jobs
- $103,650 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Project management specialists and business operations specialists, all other

- 5.9% faster than the average
- 1,361,800 number of jobs
- $77,420 potential earnings

Sales managers

- 3.5% about as fast as the average
- 433,800 number of jobs
- $132,290 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ACTT 11000	ACCOUNTING I: FINANCIAL	4
BMRT 11000	INTRODUCTION TO BUSINESS	3
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
BMRT 21011	FUNDAMENTALS OF FINANCIAL MANAGEMENT	3
BMRT 21050	FUNDAMENTALS OF MARKETING TECHNOLOGY	3
BMRT 21052	PROFESSIONAL SELLING TECHNIQUES	3
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
Additional Requirements (courses do not count in major GPA)		
BMRT 21000	BUSINESS LAW AND ETHICS I	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning [1]		3
Kent Core Basic Sciences		3
Kent Core Humanities and Fine Arts		3
General Electives (total credit hours depends on earning 60 credits hour)		1
Concentrations		
Choose from the following:		15
Business Administration		
Logistics and Supply Chain Management		
Management and Entrepreneurship		
Marketing/Sales		
Minimum Total Credit Hours:		**60**

[1] Students planning to pursue the B.B.A. degree are recommended to take MATH 11010 or MATH 11012 or MATH 12002.

Business Administration Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ACTT 11001	ACCOUNTING II: MANAGERIAL	4
BMRT 21004	BUSINESS ANALYTICS I	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
Additional Requirements (courses do not count in major GPA)		
General Electives		5
Minimum Total Credit Hours:		**15**

Logistics and Supply Chain Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BMRT 22000	GLOBAL LOGISTICS	3
BMRT 22099	CAPSTONE IN LOGISTICS AND SUPPLY CHAIN MANAGEMENT (ELR)	3
BMRT 31005	PURCHASING AND SUPPLY MANAGEMENT	3
BMRT 32020	LEAN SUSTAINABILITY	1
Concentration Elective, choose from the following:		3
Accounting Technology (ACTT) Course		
Business Management Technology (BMRT) Course		
Information Technology (IT) Course		
Insurance Studies (INS) Course		
Office Technology (OTEC) Course		
Additional Requirements (courses do not count in major GPA)		
General Elective		2
Minimum Total Credit Hours:		**15**

Management and Entrepreneurship Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BMRT 21008	CASE STUDIES IN MANAGEMENT AND ENTREPRENEURSHIP	3
BMRT 21020	INTRODUCTION TO ENTREPRENEURSHIP	3
BMRT 31009	SEMINAR IN MANAGEMENT AND ENTREPRENEURSHIP	3
Concentration Elective, choose from the following:		3
Accounting Technology (ACTT) Course		
Business Management Technology (BMRT) Course		
Information Technology (IT) Course		
Insurance Studies (INS) Course		
Office Technology (OTEC) Course		
Additional Requirements (courses do not count in major GPA)		
General Elective		3
Minimum Total Credit Hours:		**15**

Marketing/Sales Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BMRT 21008	CASE STUDIES IN MANAGEMENT AND ENTREPRENEURSHIP	3
BMRT 21053	ADVERTISING IN BUSINESS	3
BMRT 31009	SEMINAR IN MANAGEMENT AND ENTREPRENEURSHIP	3
BMRT 36415	CUSTOMER SERVICE	3
Concentration Elective, choose from the following:		3
Accounting Technology (ACTT) Course		
Business Management Technology (BMRT) Course		
Information Technology (IT) Course		
Insurance Studies (INS) Course		
Office Technology (OTEC) Course		
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	ACTT 11000	ACCOUNTING I: FINANCIAL	4
!	BMRT 11000	INTRODUCTION TO BUSINESS	3
	IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
!	BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	Kent Core Requirement		3
	Concentration Requirement or General Elective		3
		Credit Hours	**15**
	Semester Three		
!	BMRT 21000	BUSINESS LAW AND ETHICS I	3
!	BMRT 21011	FUNDAMENTALS OF FINANCIAL MANAGEMENT	3
!	BMRT 21050	FUNDAMENTALS OF MARKETING TECHNOLOGY	3
	Kent Core Requirement		3
	Concentration Requirement or General Elective		3
		Credit Hours	**15**
	Semester Four		
!	BMRT 21052	PROFESSIONAL SELLING TECHNIQUES	3
	Concentration Requirements and/or General Electives		10
		Credit Hours	**13**
		Minimum Total Credit Hours:	**60**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.		
Kent Core (see table below)		15
Total Credit Hour Requirement		60
Some associate degrees require students to complete more than 60 credit hours.		

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

- Explain the differences between business disciplines.
- Recognize and define common business terms and concepts.
- Recognize and define financial concepts and terms related to business.
- Identify key marketing terms and strategies.
- Explain the basics of business law and why ethics are needed in business.
- Describe and practice effective teamwork and communication.

Full Description

The Associate of Applied Business degree in Business Management Technology provides students with a core consisting of communication, management, accounting, marketing, e-commerce, economics and liberal arts courses. Students may have the opportunity to participate in internships to link theory with hands-on practice.

The Business Management Technology major comprises the following concentrations:

- The **Business Administration** concentration articulates with the Bachelor of Business Administration degree at Kent State.
- The **Logistics and Supply Chain Management** concentration allows students to become knowledgeable in the process and supervision of the movement of products from the point origin to the point of consumption for consumers, business and other organizations.
- The **Management and Entrepreneurship** concentration comprises coursework in management, entrepreneurship and and productivity applications.
- The **Marketing/Sales** concentration comprises coursework in management, advertising, customer service and productivity applications.

CAD for Manufacturing - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The CAD for Manufacturing undergraduate certificate prepares students with hands-on training and instruction on a number of the most popular software tools used by industry in computer-aided drafting and design and in solid modeling. Students equipped with these certificate skills are the most sought after for employment in drafting/designing. Specific industry-used software students will learn include: AutoCAD, SolidWorks, Inventor and Creo.

Contact Information

- **Paul Dykshoorn** | pdykshoo@kent.edu | 330-308-7475
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
  - Online
- **Location:**
  - Tuscarawas Campus

Examples of Possible Careers and Salaries*

Mechanical drafters

- -8.3% decline
- 57,500 number of jobs
- $58,270 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have

open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
AGD 11003	SOLID MODELING	3
AGD 22000	TWO-DIMENSION COMMUNICATION	3
MERT 12000	ENGINEERING DRAWING	3
MERT 12001	COMPUTER-AIDED DESIGN	3
MERT 34002	ADVANCED SOLID MODELING	3
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Program Learning Outcomes

Graduates of the CAD for Manufacturing certificate will be able to:

1. Read and interpret working drawings for engineering components and systems.
2. Create formal 2D drawings with accurate dimensions and tolerances.
3. Design and draft mechanical components and assemblies using 3D modeling techniques.
4. Apply advanced parametric solid modeling and simulation features to create and analyze solid models.
5. Apply critical thinking skills in design and manufacturing problems.

Computed Tomography - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Gain the skills to excel in Computed Tomography with Kent State's undergraduate certificate program. With a blend of theoretical knowledge and practical experience, this program equips you with the skills needed to operate computed tomography equipment and perform diagnostic scans. Enroll now and take the first step towards a rewarding career in healthcare. Read more...

Contact Information

- **Sherry DeWitt** | sdewitt@kent.edu | 330-337-4227
- **Kelly Dragomir, M.A. R.T. (R)(CT)** (Radiologic Technology, CT and MRI) | kadragom@kent.edu | 330-337-4129
- Chat with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Salem Campus

Admission Terms

- Fall

Admission Requirements

Admission to this program is selective. Applicants must have graduated from a program in radiologic technology, diagnostic medical sonography, nuclear medicine or radiation therapy and be a registered or registry-eligible radiologic technologist, diagnostic medical sonographer, nuclear medicine technologist or a radiation therapist. Applicants must have a minimum 2.50 overall GPA prior to program entry.

The program begins in fall with an application deadline of July 1 each year.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements [1]		
RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I (min C grade)	2
RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II (min C grade)	2
RIS 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY (min C grade)	2
RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I (min C grade)	2
RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I (min C grade)	2
RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES II (min C grade)	2
RIS 44062	COMPUTED TOMOGRAPHY IMAGE PRODUCTION II (min C grade)	2
Clinical Electives, choose from the following:		4
RIS 44004	COMPUTED TOMOGRAPHY CLINICAL EDUCATION I	

RIS 44054	COMPUTED TOMOGRAPHY CLINICAL EDUCATION II	
RIS 44092	COMPUTED TOMOGRAPHY/MAGNETIC RESONANCE INTERNSHIP (ELR)	
Minimum Total Credit Hours:		**18**

[1] Students are encouraged to register for the following courses during the summer term: RIS 44068 is a review course for the national certification exam. RIS 44069 allows students to gain added experience in MRI and to complete required clinical competencies for the ARRT exam. These courses not required to graduate with the certificate.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

- All clinical education courses must be completed and with successful passage of all required clinical competencies.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Fall Semester		Credits
RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
RIS 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY	2
RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I	2
RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I	2
Clinical Elective		2
	Credit Hours	**10**
Spring Semester		
RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES II	2
RIS 44062	COMPUTED TOMOGRAPHY IMAGE PRODUCTION II	2
Clinical Elective		2
	Credit Hours	**8**
Summer Term		
Optional courses		
RIS 44068	COMPUTED TOMOGRAPHY TECHNIQUES	
RIS 44069 or RIS 44092	COMPUTED TOMOGRAPHY CLINICAL EDUCATION III or COMPUTED TOMOGRAPHY/MAGNETIC RESONANCE INTERNSHIP (ELR)	
	Credit Hours	**0**
	Minimum Total Credit Hours:	**18**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge to the practice of computed tomography.
2. Effectively utilize critical thinking, problem-solving and decision-making skills in the practice of computed tomography.
3. Effectively communicate in oral and written form with patients, customers and all members of the health care team.
4. Successfully perform computed tomography procedures and attain results of high diagnostic value, while providing patient care.
5. Exhibit personal and professional attributes and values relevant to the practice of computed tomography.

Full Description

The Computed Tomography undergraduate certificate provides coursework in anatomy, patient management, procedures and image production. Students observe computed tomography procedures, perform procedures under direct supervision of registered technologists and complete required clinical competencies toward the national certification exam for computed tomography or to be applied toward continuing education requirements as deemed by the American Registry of Radiologic Technologists (ARRT)

Computed tomography (CT) scans are ordered on trauma, cancer and non-trauma patients and is often the first diagnostic imaging exam ordered on patients. A computed tomography technologist works in hospitals or outpatient healthcare facilities using a CT scanner with an x-ray unit that rotates to image anatomy in the body as slices. The images are assembled and reconstructed digitally to create a series of diagnostic images that physicians use to interpret for a patient diagnosis.

The Computed Tomography certificate offers a seamless transfer pathway into the Bachelor of Radiologic Imaging Sciences Technology (B.R.I.T.) degree. Students are able to complete the certificate, sit for the national certification exam, begin working in the profession and then enroll in the B.R.I.T. degree and complete the remaining requirements to earn the bachelor's degree.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Computer Forensics and Information Security - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Computer Forensics and Information Security undergraduate certificate provides an introduction to information security and incident response, forensic preparation and data recovery and analysis.

Contact Information

- **Shelley Marshall** | skmarsha@kent.edu | 440-964-4348
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Computer and information systems managers

- 10.4% much faster than the average
- 461,000 number of jobs
- $151,150 potential earnings

Computer network architects

- 5.0% faster than the average
- 160,100 number of jobs
- $116,780 potential earnings

Computer network support specialists

- 6.4% faster than the average
- 195,100 number of jobs
- $65,450 potential earnings

Information security analysts

- 31.2% much faster than the average
- 131,000 number of jobs
- $103,590 potential earnings

Network and computer systems administrators

- 4.3% about as fast as the average
- 373,900 number of jobs
- $84,810 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	3
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	3
IT 21002	NETWORK SETUP AND CONFIGURATION	3
IT 36320	COMPUTER FORENSICS	3
IT 36330	NETWORK SECURITY FUNDAMENTALS	3
IT 46331	NETWORK SECURITY AND FIREWALLS	3
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.500	2.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Articulate core competency in computer security-related topics.
2. Describe the scope of the information security field and its impact on information technology.
3. Identify and analyze security risks to determine potential impacts.
4. Work with a team to develop plans to mitigate security risks.
5. Identify and complete work using professional, legal and ethical behavior.
6. Define steps of forensic investigations and proper chain of command techniques.
7. List common tools used to perform forensic investigations.

Computer Forensics and Security - Minor

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Computer Forensics and Security minor is designed to complement a wide range of majors. Curriculum focuses on vulnerabilities, forensics and network security. Electives provide flexibility to tailor the minor to each student's interests and career goals. For example, a student might choose a more in-depth course in hardware, mobile applications, command line tools, networking or firewalls.

Contact Information

- **Shelley Marshall** | skmarsha@kent.edu | 440-964-4348
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - Fully online

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	3
IT 21002	NETWORK SETUP AND CONFIGURATION	3
IT 21200	ETHICAL HACKING	3
IT 36320	COMPUTER FORENSICS	3
IT 36321	NETWORK FORENSICS	3
IT 36330	NETWORK SECURITY FUNDAMENTALS	3
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Computer-Aided Drafting/Design Technician - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Computer-Aided Drafting/Design Technician undergraduate certificate allows students to quickly develop skills and hands-on experiences in drafting and Computer-Aided Drafting (CAD) operation and the ability to pursue objectives in the face of limited resources. Graduates are prepared for positions as a drafter or CAD operator. This certificate articulates well into an associate or bachelor's degree program in such technical areas as mechanical engineering technology, computer engineering technology and electrical engineering technology.

Contact Information

- **Paul Dykshoorn** | pdykshoo@kent.edu | 330-308-7475
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - Trumbull Campus
  - Tuscarawas Campus

Examples of Possible Careers and Salaries*

Architectural and civil drafters

- -2.5% decline
- 102,900 number of jobs
- $57,500 potential earnings

Drafters, all other

- 0.6% little or no change
- 15,200 number of jobs
- $54,500 potential earnings

Mechanical drafters

- -8.3% decline
- 57,500 number of jobs
- $58,270 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
EERT 12005	ELECTRICAL/ELECTRONIC DRAWING	2
ENGT 32006	ECONOMIC DECISION ANALYSIS FOR ENGINEERING TECHNOLOGY	3
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
MERT 12000	ENGINEERING DRAWING	3
MERT 12001	COMPUTER-AIDED DESIGN	3
MERT 22003	COMPUTER-AIDED TOOL DESIGN	3
Minimum Total Credit Hours:		**17**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Program Learning Outcomes

Graduates of this certificate will be able to:

1. Read and interpret engineering drawings across different disciplines.
2. Create formal 2D drawings using industry-oriented CAD software.
3. Apply 3D modeling techniques to design engineering tools and devices.
4. Apply basic principles of economics to make design decisions.

Criminology and Justice Studies - A.A.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Associate of Applied Science in Criminology and Justice Studies program provides a strong foundation for a career in criminal justice. With a focus on practical skills and real-world experience, this program prepares you for a wide range of entry-level positions in law enforcement, corrections and related fields. Read more...

Contact Information

- **Lori Singer-Bare** | lsingerb@kent.edu | 330-675-8898
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center
  - Online (any campus above)
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online (Peace Officers Training Academy concentration not offered)
  - Mostly online
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus (Peace Officers Training Academy concentration)
  - Tuscarawas Campus
  - Twinsburg Academic Center

Examples of Possible Careers and Salaries*

First-line supervisors of correctional officers

- -7.8% decline
- 48,700 number of jobs
- $60,910 potential earnings

Miscellaneous first-line supervisors, protective service workers

- 1.6% slower than the average
- 85,700 number of jobs
- $52,650 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at

which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Peace Officers Training Academy Concentration: Admission to this program is selective. Applicants must meet all admission criteria for acceptance into the Kent State Basic Police Academy. Criteria includes a valid driver's license, high school diploma or GED, good physical condition and no felony or drug convictions or arrests for domestic violence.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	3
CRIM 27311	VICTIMOLOGY	3
CRIM 33200	CRIMINAL LAW	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Basic Sciences		3
General Electives (total credit hours depends on earning 60 credits hour)		7
Concentration Requirements		
Choose from the following:		25
Additional Requirements for Students Not Declaring a Concentration		
Peace Officers Training Academy Concentration		
Minimum Total Credit Hours:		**60**

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CRIM 22300	POLICE ROLE	3
CRIM 26701	CORRECTIONS	3
CRIM 36702	CRIMINOLOGY	3
CRIM 37311	MINORITIES IN CRIME AND JUSTICE (DIVD)	3
or CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)	
Criminology and Justice Studies (CRIM) Electives		9
Additional Requirements (courses do not count in major GPA)		
General Electives		4
Minimum Total Credit Hours:		**25**

Peace Officers Training Academy Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CRIM 22200	INTERPERSONAL AND PROFESSIONAL SKILLS FOR PUBLIC SAFETY PROFESSIONALS	3
POTA 11001	PEACE OFFICERS ACADEMY I	6
POTA 11002	PEACE OFFICERS ACADEMY II	5
POTA 11003	PEACE OFFICERS ACADEMY III	6
POTA 11004	PEACE OFFICERS ACADEMY IV	5
Minimum Total Credit Hours:		**25**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Additional Requirements for Students Not Declaring a Concentration

Semester One		Credits
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**16**
Semester Two		
CRIM 22300	POLICE ROLE	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**

Semester Three		
CRIM 33200	CRIMINAL LAW	3
Additional or Concentration Requirements		11-12
	Credit Hours	**14**
Semester Four		
CRIM 27311	VICTIMOLOGY	3
Additional or Concentration Requirements		9
General Elective		3-4
	Credit Hours	**15**
	Minimum Total Credit Hours:	**60**

Peace Officers Training Academy Concentration Requirements

Semester One		**Credits**
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**13**
Semester Two		
CRIM 22200	INTERPERSONAL AND PROFESSIONAL SKILLS FOR PUBLIC SAFETY PROFESSIONALS	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**12**
Semester Three		
CRIM 27311	VICTIMOLOGY	3
CRIM 33200	CRIMINAL LAW	3
General Electives		7
	Credit Hours	**13**
Semester Four		
POTA 11001	PEACE OFFICERS ACADEMY I	6
POTA 11002	PEACE OFFICERS ACADEMY II	5
POTA 11003	PEACE OFFICERS ACADEMY III	6
POTA 11004	PEACE OFFICERS ACADEMY IV	5
	Credit Hours	**22**
	Minimum Total Credit Hours:	**60**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.		
Kent Core (see table below)		15
Total Credit Hour Requirement		60
Some associate degrees require students to complete more than 60 credit hours.		

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain the structure and function of the criminal justice system, namely police, courts and corrections.
2. Explain criminal law and how it intersects with and impacts society.
3. Explain and compare the theories on crime, criminality and criminal justice practices.
4. Communicate the experiences of marginalized populations within the criminal justice system.

In addition, graduates of the Peace Officers Training Academy concentration will be able to:

1. Identify the components and legal processes of the criminal justice system, and apply basic criminal laws to various situations.
2. Explain the different types of police procedures and their effective uses in law enforcement.
3. Use ethical, analytical and critical-thinking skills toward situations typical to criminal justice settings.
4. Safely and properly conduct a traffic stop and respond to a domestic disturbance, dispatched call or crime in progress.
5. Properly carry out comprehensive criminal investigations and write various reports.
6. Proficiently provide first aid at the level of a first responder.

Full Description

The Associate of Applied Science degree in Criminology and Justice Studies prepares graduates for para-professional positions in the field of criminal justice studies. The program can serve as a foundation for advanced study in several areas, including retail security, industrial security, forensics, law and corrections. Graduates typically seek employment in probation offices, social service agencies, courts, local law enforcement offices and crime labs.

The Criminology and Justice Studies major includes the following optional concentration:

- The **Peace Officers Training Academy** concentration is open only to students admitted to the Kent State Basic Police Academy. The coursework covers the basics of defensive tactics, firearms, driving, traffic, patrol, civil disorders and first aid. In addition, students learn investigative methods and the fundamentals of policing, the criminal justice system, constitutional law and homeland security.

Students may declare the Criminology and Justice Studies major without a concentration. That course of study is ideal for students interested in the structure, functions and issues within the criminal justice system, as

well as those who want a pathway to complete Kent State's B.A. degree in Criminology and Justice Studies.

Cybersecurity - A.A.B.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Launch your career in cybersecurity with Kent State's program. Gain the skills needed to protect against cyber threats and secure networks in today's digital world. Read more...

Contact Information

- **Shawn Golden** | dgolden@kent.edu
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers*

Information security analysts

- 31.2% much faster than the average
- 131,000 number of jobs
- $103,590 potential earnings

Additional Careers

- Cybersecurity Technician
- Incident Response Specialist
- Network Security Administrator
- Security Operations Center (SOC) Analyst

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
IT 11004	SURVEY OF INFORMATION TECHNOLOGY	3
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	3
IT 13000	APPLIED SECURITY ESSENTIALS	3
IT 15000	FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY	3
IT 21002	NETWORK SETUP AND CONFIGURATION	3
IT 21003	SYSTEM ADMINISTRATION FOR INFORMATION TECHNOLOGY PROFESSIONALS	3
IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	3
IT 21009	SEMINAR IN INFORMATION TECHNOLOGY	3
IT 21110	NETWORK ROUTING AND SWITCHING	3
IT 21200	ETHICAL HACKING	3
IT 21300	INTRODUCTION TO SECURITY INCIDENT MANAGEMENT	3
IT 23000	INTRODUCTION TO OPERATING SYSTEM SECURITY	3
IT 24000	DEVELOPING AND IMPLEMENTING SECURITY POLICIES	3
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
Kent Core Basic Sciences		3
General Electives (total credit hours depends on earning 60 credits hour)		3
Minimum Total Credit Hours:		**61**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
IT 11004	SURVEY OF INFORMATION TECHNOLOGY	3
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	3
IT 13000	APPLIED SECURITY ESSENTIALS	3
IT 15000	FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY	3
IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
IT 21002	NETWORK SETUP AND CONFIGURATION	3
IT 21003	SYSTEM ADMINISTRATION FOR INFORMATION TECHNOLOGY PROFESSIONALS	3
IT 21110	NETWORK ROUTING AND SWITCHING	3
IT 21200	ETHICAL HACKING	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
IT 21009	SEMINAR IN INFORMATION TECHNOLOGY	3
IT 21300	INTRODUCTION TO SECURITY INCIDENT MANAGEMENT	3
IT 23000	INTRODUCTION TO OPERATING SYSTEM SECURITY	3
IT 24000	DEVELOPING AND IMPLEMENTING SECURITY POLICIES	3
General Elective		3
	Credit Hours	**15**
	Minimum Total Credit Hours:	**61**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
	Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Kent Core (see table below)		15
Total Credit Hour Requirement		60
	Some associate degrees require students to complete more than 60 credit hours.	

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate core competency in cybersecurity-related topics.
2. Describe the scope of the information security field and its impact on information technology.
3. Identify and analyze security risks to determine potential impacts.
4. Demonstrate ability to develop plans to mitigate security risks.
5. Identify professional, legal and ethical behavior.

Full Description

The Associate of Applied Business degree in Cybersecurity provides students with an applied approach to information security concepts. With an ever-growing threat to sensitive and critical data in the field of information technology, understanding the impact of security issues on businesses and individuals is critical. The degree program gives students the tools they need to address current security issues including risk identification, security testing and monitoring, and enterprise risk management. Because the degree is built upon a solid knowledgebase, additional topics include networking, hardware and operating systems, Cisco networking technologies, cyber defense methods, cyber ethics, incident management and security policies.

Early Years Education and Care - A.A.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Associate of Applied Science in Early Years Education and Care prepares you to work in a variety of early childhood settings with a focus on using technology to enhance learning experiences. With hands-on experience and expert faculty, you'll gain the skills needed to succeed in this dynamic field. Read more...

Contact Information

- **Tsunghui Tu** | ttu@kent.edu | 330-332-0361
- Speak with an Advisor
  - Salem Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**

- Salem Campus
- Tuscarawas Campus

Example of Possible Careers and Salaries*

Preschool teachers, except special education

- 2.5% slower than the average
- 540,400 number of jobs
- $31,930 potential earnings

Teaching assistants, except postsecondary

- 3.6% about as fast as the average
- 1,395,900 number of jobs
- $28,900 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
ECED 10120	INTRODUCTION TO EARLY CHILDHOOD SERVICES (min C grade)	1
ECED 20101	UNDERSTANDING YOUNG CHILDREN'S DEVELOPMENT (min C grade)	3
ECED 30202	MATHEMATICS AND SCIENCE IN THE EARLY YEARS (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
EYEC 10121	EARLY YEARS FIELD PREPARATION AND TRAININGS	1
EYEC 10192	PRESCHOOL CLINICAL EXPERIENCE I (ELR)	1
EYEC 20192	PRESCHOOL CLINICAL EXPERIENCE II (ELR)	1
EYEC 21005	COLLABORATIVE PARTNERSHIPS IN THE EDUCATION AND GUIDANCE OF THE YOUNG CHILD (min C grade)	3
EYEC 21010	INFANT AND TODDLER CURRICULUM AND SERVICES (min C grade)	3
EYEC 22000	PRESCHOOL CURRICULUM (min C grade)	3
EYEC 22130	EMERGING LITERACIES (min C grade)	3
EYEC 22140	PRESCHOOL SEMINAR: SUPPORTING A CULTURALLY SUSTAINING PEDAGOGY (ELR) (min C grade)	2
EYEC 22192	PRESCHOOL STUDENT TEACHING (ELR) (min C grade) [1]	2
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
Additional Requirements (courses do not count in major GPA)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR) [2]	4
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR) [2]	4
UC 10001	FLASHES 101	1
Kent Core Composition [2, 3]		6
Kent Core Humanities and Fine Arts [4]		3
Kent Core Social Sciences [4]		3
Kent Core Basic Sciences [2,4]		3
Minimum Total Credit Hours:		**62**

1. Students must complete training in ALICE training, child safety training and CPR/AED before student teaching.
2. A minimum C grade in these courses is not required for the A.A.S. degree in Early Years Education and Care; however, a minimum C grade is required in these courses to earn the B.S.E. degree in Early Childhood Education.
3. 3 credit hours are required for the Kent Core. This program requires a total of 6 credit hours to earn the associate degree.
4. Students continuing on to the B.S.E. in Early Childhood Education have specific Kent Core courses that are required under additional coursework. Students should meet with an advisor every semester.

Progression Requirements

Students must successfully pass ECED 10120, ECED 20101, EYEC 10121, and the preschool block of coursework (EYEC 21005, EYEC 21010, EYEC 22000 and EYEC 22130) and related field experiences (EYEC 10192 and EYEC 20192) in order to register for preschool student teaching and related seminar (EYEC 22140 and EYEC 22192).

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- A minimum grade of C grade is required in most courses; view the program requirements to see specific courses.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
!	ECED 10120	INTRODUCTION TO EARLY CHILDHOOD SERVICES	1
	EYEC 10121	EARLY YEARS FIELD PREPARATION AND TRAININGS	1
	MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	ECED 20101	UNDERSTANDING YOUNG CHILDREN'S DEVELOPMENT	3
	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	EYEC 10192	PRESCHOOL CLINICAL EXPERIENCE I (ELR)	1
	EYEC 21010	INFANT AND TODDLER CURRICULUM AND SERVICES	3
	MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
		Credit Hours	**17**
	Semester Three		
	EYEC 20192	PRESCHOOL CLINICAL EXPERIENCE II (ELR)	1
	EYEC 21005	COLLABORATIVE PARTNERSHIPS IN THE EDUCATION AND GUIDANCE OF THE YOUNG CHILD	3
	EYEC 22000	PRESCHOOL CURRICULUM	3
	EYEC 22130	EMERGING LITERACIES	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
	ECED 30202	MATHEMATICS AND SCIENCE IN THE EARLY YEARS	3
	EYEC 22140	PRESCHOOL SEMINAR: SUPPORTING A CULTURALLY SUSTAINING PEDAGOGY (ELR)	2
	EYEC 22192	PRESCHOOL STUDENT TEACHING (ELR)	2
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**13**
		Minimum Total Credit Hours:	**62**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.		
Kent Core (see table below)		15
Total Credit Hour Requirement		60
Some associate degrees require students to complete more than 60 credit hours.		

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate skills in self-assessment, reflection and self-advocacy; mastery and application of foundational concepts from general education; and written and verbal communication skills.
2. Apply prior knowledge/experience to new learning environments.
3. Identify and use professional resources.
4. Integrate reflective and critical self-assessment with one's own practice in early education.
5. Engage in informed advocacy for children and families.
6. Describe strategies to build positive, respectful and supportive relationships with families.
7. Support self-advocacy of the families in their communities through respectful and reciprocal relationships.
8. Identify young children's typical and atypical developmental characteristics and needs.
9. Describe the multiple influences on child development and learning.
10. Create a healthy, respectful and challenging learning environment to meet the educational needs of all students in an equitable manner so all students may achieve their full potential.
11. Develop plans that build positive relationships and supportive interactions with children and their families.
12. Practice positive interpersonal communication with all constituencies involved in the education, development and care of young children.
13. Identify the goals, benefits and appropriate uses of various informal and formal assessment tools and approaches.
14. Identify and practice responsible assessment of learning and development.
15. Discuss the importance of core knowledge in the academic disciplines and how this relates to the education, development and care of young children.
16. Identify ways to engage in self-reflection in continuous and purposeful professional development.
17. Identify and uphold confidentiality, ethical standards and other professional and regulatory guidelines.

18. Engage in ongoing and collaborative relationships to enhance one's own learning and practice.

Full Description

The Associate of Applied Science degree in Early Years Education and Care prepares students with the knowledge and skills needed to plan and implement developmentally appropriate practices as they engage with young children. Coursework focuses on the unique needs and development of infants, toddlers and preschool children. Students who wish to pursue this degree program must possess a commitment to valuing all children, regardless of ability or background. In addition, they must have the ability to work collaboratively with the child's home and community.

Graduates of the degree program are eligible to apply for pre-kindergarten licensure through the State of Ohio. Graduates will be qualified for job positions as teacher assistants, child caregivers and family child-care providers in a variety of settings; including child-care centers, early intervention programs, hospitals, Head Start programs, home-based early childhood programs, private schools and public preschool and special needs programs.

The degree program articulates to the B.S.E. degree in Early Childhood Education, from which graduates are eligible to apply for Ohio licensure to teach children in preschool to grade five. Completion of the associate degree does not guarantee admission to the bachelor's degree. Admission to the B.S.E. degree is selective.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Electrical/Electronic Engineering Technology - A.A.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Associate of Applied Science in Electrical/Electronic Engineering Technology program provides you with the practical skills and knowledge needed to succeed in the fast-paced field of electrical engineering. With experienced faculty, state-of-the-art labs and real-world opportunities, you'll gain the confidence needed to launch your career. Enroll now and take the first step toward a fulfilling career in electrical engineering. Read more...

Contact Information

- **Chitra Rajagopal** | crajagop@kent.edu
  Paul Dykshoorn | pdykshoo@kent.edu | 330-308-7475
- Speak with an Advisor
  - Trumbull Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor

Program Delivery

Leavittsburg, Ohio location pending ODHE approval.

- **Delivery:**
  - In person
- **Location:**
  - Trumbull Campus
  - Tuscarawas Campus
  - Leavittsburg, Ohio

Examples of Possible Careers and Salaries*

Calibration technologists and technicians and engineering technologists and technicians, except drafters, all other

- 2.1% slower than the average
- 91,600 number of jobs
- $64,190 potential earnings

Electrical and electronic engineering technologists and technicians

- 1.5% slower than the average
- 125,800 number of jobs
- $67,550 potential earnings

Electrical, electronic, and electromechanical assemblers, except coil winders, tapers, and finishers

- 1.4% slower than the average
- 291,700 number of jobs
- $36,390 potential earnings

Electrical and electronics drafters

- 0.5% little or no change
- 25,300 number of jobs
- $62,100 potential earnings

Accreditation

The A.A.S. degree in Electrical/Electronic Engineering Technology (Tuscarawas Campus only) is accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special

talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
EERT 11000	INTRODUCTION TO SEMICONDUCTOR AND CLEANROOM	2-4
or EERT 12005	ELECTRICAL/ELECTRONIC DRAWING	
EERT 12000	ELECTRIC CIRCUITS I	4
EERT 12001	ELECTRIC CIRCUITS II	3
EERT 12010	INTRODUCTION TO ELECTRONICS	4
EERT 22004	DIGITAL SYSTEMS	4
EERT 22008	FUNDAMENTALS OF ELECTRICAL MACHINES AND DRIVES	3
or ENGR 43220	ELECTRICAL MACHINERY	
EERT 22011	ELECTRONIC SYSTEMS	2
EERT 22014	MICROPROCESSORS AND ROBOTICS	3
ENGT 23099	ENGINEERING TECHNOLOGY DESIGN PROJECT (ELR)	3
MERT 12000	ENGINEERING DRAWING	3
Additional Requirements (courses do not count in major GPA)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
or OTEC 26638	BUSINESS COMMUNICATIONS	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
OTEC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	1
UC 10001	FLASHES 101	1
Physics Elective A, choose from the following:		3-5
PHY 12201	TECHNICAL PHYSICS I (KBS) (KLAB)	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
Physics Elective B, choose from the following:		3-5
PHY 12202	TECHNICAL PHYSICS II (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 13012 & PHY 13022	COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
Kent Core Composition		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
Minimum Total Credit Hours:		**64**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	EERT 12000	ELECTRIC CIRCUITS I	4
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
!	MERT 12000	ENGINEERING DRAWING	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
!	EERT 12001	ELECTRIC CIRCUITS II	3
!	EERT 12010	INTRODUCTION TO ELECTRONICS	4
	EERT 22004	DIGITAL SYSTEMS	4
	ENG 20002 or OTEC 26638	INTRODUCTION TO TECHNICAL WRITING or BUSINESS COMMUNICATIONS	3
	MATH 11022	TRIGONOMETRY (KMCR)	3
		Credit Hours	**17**
	Semester Three		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	EERT 11000 or EERT 12005	INTRODUCTION TO SEMICONDUCTOR AND CLEANROOM or ELECTRICAL/ELECTRONIC DRAWING	2-4
!	EERT 22011	ELECTRONIC SYSTEMS	2
!	EERT 22014	MICROPROCESSORS AND ROBOTICS	3
	MATH 11012	INTUITIVE CALCULUS (KMCR)	3
	Physics Elective A		3-5
		Credit Hours	**16**
	Semester Four		
	EERT 22008 or ENGR 43220	FUNDAMENTALS OF ELECTRICAL MACHINES AND DRIVES or ELECTRICAL MACHINERY	3
	ENGT 23099	ENGINEERING TECHNOLOGY DESIGN PROJECT (ELR)	3
	OTEC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	1

	Physic Elective B	3-5
	Kent Core Requirement	3
	Credit Hours	**14**
	Minimum Total Credit Hours:	**64**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
	Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Kent Core (see table below)		15
Total Credit Hour Requirement		60
	Some associate degrees require students to complete more than 60 credit hours.	

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge, techniques and skills of mathematics, science and modern engineering tools to solve electrical and electronic engineering technology problems that require limited application of principles but extensive practical knowledge.
2. Use modern engineering tools and techniques to design solutions for well-defined electrical electronic engineering technology problems and assist with the design of systems, components or processes.
3. Demonstrate effective oral, graphic and written communication in both technical and non-technical environments; proficiently use technical reference material.
4. Conduct standard tests and measurements, and critically analyze and interpret data particularly in the electrical and electronic engineering technology field.
5. Function effectively as a member of a technical team.
6. Understand and commit to address professional engineering and ethical responsibilities.

Full Description

The Associate of Applied Science degree in Electrical/Electronic Engineering Technology provides students with a core of engineering-related courses and a focus on digital and electronic systems, robotics, microsystems and the design/development of electrical and electronic circuits.

Electrical and electronics engineering technicians help engineers design and develop computers, communications equipment, medical monitoring devices, navigational equipment and other electrical and electronic equipment. They often work in product evaluation and testing, using measuring and diagnostic devices to adjust, test and repair equipment.

The degree program articulates with Kent State's Bachelor of Science degree in Engineering Technology.

Engineering Technology - B.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Bachelor of Science in Engineering Technology program prepares you for a career in the dynamic field of engineering. With a curriculum focused on the latest trends and technologies in engineering, you'll gain the skills and knowledge needed to succeed in a variety of roles. Enroll now and take the first step toward a fulfilling career in engineering. Read more...

Contact Information

- **Paul Dykshoorn** | pdykshoo@kent.edu | 330-308-7475
- Speak with an Advisor
- Chat with Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Tuscarawas Campus

Examples of Possible Careers

- Applications Engineer
- Controls Engineer
- Design Engineer
- Electrical Engineer
- Engineering Project Coordinator
- Electrical/Systems Engineer
- Manufacturing Engineer
- Product Engineer
- Quality Engineer

Accreditation

The Bachelor of Science degree in Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	3-4
or EERT 32003	TECHNICAL COMPUTING	
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
or OTEC 26638	BUSINESS COMMUNICATIONS	
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC) [1]	3
or ENGT 33092	ENGINEERING TECHNOLOGY INTERNSHIP AND PROFESSIONAL DEVELOPMENT (ELR) (WIC)	
ENGR 33700	QUALITY TECHNIQUES	3
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING	3
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
ENGT 31010	ENGINEERING AND PROFESSIONAL ETHICS	3
ENGT 43099	ENGINEERING TECHNOLOGY CAPSTONE (ELR)	3
ENGT 43363	MATERIALS SCIENCE AND TECHNOLOGY	3
Additional Requirements (courses do not count in major GPA)		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
OTEC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	1
UC 10001	FLASHES 101	1
Physics Elective, choose from the following:		3-5
PHY 12201	TECHNICAL PHYSICS I (KBS) (KLAB)	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [2]		13
Concentrations		
Choose from the following:		45
Electrical/Electronics		
Green and Alternative Energy		
Integrated Engineering Technology		
Mechanical/Systems		
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] A maximum of 3 credit hours of the following course ENGT 43092 may be used to fulfill the general electives.

Electrical/Electronics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ENGT 30000	ADVANCED MANUFACTURING	3
or ENGT 43700	COMPUTER-INTEGRATED MANUFACTURING	
ENGT 33000	INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS	3
or ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	
Concentration Electives, choose from the following:		9
EERT 32005	INSTRUMENTATION	
ENGT 32006	ECONOMIC DECISION ANALYSIS FOR ENGINEERING TECHNOLOGY	
ENGT 33016	PC/NETWORK ENGINEERING AND TROUBLESHOOTING	
ENGT 33095	SPECIAL TOPICS IN ENGINEERING TECHNOLOGY	
ENGR 33223	ELECTRONIC COMMUNICATION	
ENGT 33225	INDUSTRIAL CONTROL SYSTEMS	
ENGT 42003	LEAN AND SIX SIGMA FOR COMPETITIVE MANUFACTURING	
ENGR 43220	ELECTRICAL MACHINERY	
GAE 31032	ENERGY AND POWER GENERATION	

GAE 32000	FUEL CELL TECHNOLOGY	
GAE 42002	ENERGY MANAGEMENT SYSTEMS	
GAE 42004	ADVANCED FUEL CELL TECHNOLOGY	
Applied Electives, choose from the following: [1]		27
MERT 12000	ENGINEERING DRAWING	
Electrical/Electronic and Related Technologies (EERT) Electives		
Other courses as approved by program director		
Additional Requirements (courses do not count in major GPA)		
Physics Elective, choose from the following:		3-5
PHY 12202	TECHNICAL PHYSICS II (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 13012 & PHY 13022	COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
Minimum Total Credit Hours:		**45**

[1] Students who have earned an associate degree in the Electrical and Electronic Engineering Technology program will have 27 credits of technical coursework articulate to the bachelor's degree program and will not have to take the electives for a minor or individualized specialization.

Green and Alternative Energy Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
GAE 32000	FUEL CELL TECHNOLOGY	3
GAE 42004	ADVANCED FUEL CELL TECHNOLOGY	3
Concentration Electives, choose from the following:		9
EERT 32005	INSTRUMENTATION	
ENGT 30000	ADVANCED MANUFACTURING	
ENGT 32006	ECONOMIC DECISION ANALYSIS FOR ENGINEERING TECHNOLOGY	
ENGT 33095	SPECIAL TOPICS IN ENGINEERING TECHNOLOGY	
ENGT 42003	LEAN AND SIX SIGMA FOR COMPETITIVE MANUFACTURING	
ENGT 42195	TRAINING TOPICS IN TECHNOLOGY	
or GAE 42002	ENERGY MANAGEMENT SYSTEMS	
GAE 31032	ENERGY AND POWER GENERATION	
MERT 42000	THERMODYNAMICS FOR ENGINEERING TECHNOLOGY	
Applied Electives, choose from the following: [1]		27
Electrical/Electronic and Related Technologies (EERT) Electives		
Green and Alternate Energy (GAE) Electives		
Mechanical Engineering and Related Technologies (MERT) Electives		
Other courses as approved by program director		
Additional Requirements (courses do not count in major GPA)		
Physics Elective, choose from the following:		3-5
PHY 12202	TECHNICAL PHYSICS II (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 13012 & PHY 13022	COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
Minimum Total Credit Hours:		**45**

[1] Students who have earned an associate degree in the Electrical and Electronic Engineering Technology or Mechanical Engineering Technology program will have 27 credits of technical coursework articulate to the bachelor's degree program and will not have to take the electives for a minor or individualized specialization.

Integrated Engineering Technology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ENGT 32006	ECONOMIC DECISION ANALYSIS FOR ENGINEERING TECHNOLOGY	3
ENGT 42003	LEAN AND SIX SIGMA FOR COMPETITIVE MANUFACTURING	3
Concentration Electives, choose from the following:		9
Construction Management Technology (CMGT) Upper-Division Electives (30000 or 40000 level)		
Electrical/Electronic Engineering Technology (EERT) Upper-Division Electives (30000 or 40000 level)		
Engineering (ENGR) Upper-Division Electives (30000 or 40000 level)		
Engineering Technology (ENGT) Upper-Division Electives (30000 or 40000 level)		
Green and Alternative Energy (GAE) Upper-Division Electives (30000 or 40000 level)		
Mechanical Engineering Technology (MERT) Upper-Division Electives (30000 or 40000 level)		
Applied Electives, choose from the following: [1]		27
Electrical/Electronic Engineering Technology (EERT) Electives		
Engineering Technology (ENGT) Electives		
Green and Alternate Energy (GAE) Electives		
Mechanical Engineering Technology (MERT) Electives		
Other courses as approved by program director		
Additional Requirements (courses do not count in major GPA)		
Kent Core Basic Sciences		3
Minimum Total Credit Hours:		**45**

[1] Students who have earned an associate degree in the Engineering Technology program will have 27 credits of technical coursework articulate to the bachelor's degree program and will not have to take the electives for a minor or individualized specialization.

Mechanical/Systems Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ENGT 30000	ADVANCED MANUFACTURING	3
or ENGT 43700	COMPUTER-INTEGRATED MANUFACTURING	
MERT 32004	MACHINE DESIGN	3
or MERT 42000	THERMODYNAMICS FOR ENGINEERING TECHNOLOGY	
Mechanical/Systems Concentration Electives, choose from the following:		9
EERT 32005	INSTRUMENTATION	

ENGR 43220	ELECTRICAL MACHINERY	
ENGT 32101	POLYMERS I	
ENGT 33016	PC/NETWORK ENGINEERING AND TROUBLESHOOTING	
ENGT 33225	INDUSTRIAL CONTROL SYSTEMS	
ENGT 32006	ECONOMIC DECISION ANALYSIS FOR ENGINEERING TECHNOLOGY	
ENGT 33000	INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS	
ENGT 33095	SPECIAL TOPICS IN ENGINEERING TECHNOLOGY	
ENGT 42003	LEAN AND SIX SIGMA FOR COMPETITIVE MANUFACTURING	
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	
GAE 31032	ENERGY AND POWER GENERATION	
GAE 32000	FUEL CELL TECHNOLOGY	
GAE 42002	ENERGY MANAGEMENT SYSTEMS	
GAE 42004	ADVANCED FUEL CELL TECHNOLOGY	
MERT 34002	ADVANCED SOLID MODELING	
MERT 42000	THERMODYNAMICS FOR ENGINEERING TECHNOLOGY	
Applied Electives, choose from the following: [1]		27
EERT 22014	MICROPROCESSORS AND ROBOTICS	
Any Mechanical Engineering and Related Technologies (MERT) Course		
Other courses as approved by program director		
Additional Requirements (courses do not count in major GPA)		
Physics Elective, choose from the following:		3-5
PHY 12202	TECHNICAL PHYSICS II (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 13012 & PHY 13022	COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
Minimum Total Credit Hours:		**45**

[1] Students who have earned an associate degree in the Mechanical Engineering Technology program will have 27 credits of technical coursework articulate to the bachelor's degree program and will not have to take the electives for a minor or individualized specialization.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students may declare more than one concentration in the Engineering Technology major, provided that there are minimum 18 credit hours of upper-division coursework in the subsequent concentration. These credit hours must be in one of the Engineering Technology disciplines of EERT, ENGR, MERT, GAE. Students must also complete all of the other concentration requirements specific to each concentration, in addition to differentiating their major elective courses across the two concentrations. Students who declare the Integrated Engineering Technology concentration may not elect any other concentration. Likewise, students who select any of the other Engineering Technology concentrations may not elect the Integrated Engineering Technology concentration.
- Students electing a dual concentration must meet with an advisor to plan an individualized plan of study that meets these requirements before the dual concentration option will be approved for that student. Any changes made to the program of study also must be approved by an advisor, or the student may not be allowed to graduate with this option.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Electrical/Electronics Engineering Technology Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Applied Electives		7
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
ENG 20002 or OTEC 26638	INTRODUCTION TO TECHNICAL WRITING or BUSINESS COMMUNICATIONS	3
MATH 11022	TRIGONOMETRY (KMCR)	3
Applied Electives		7
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
Physics Elective		3-5
Applied Electives		7
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
OTEC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	1
Physics Elective		3-5
Applied Electives		6
General Elective		3
	Credit Hours	**14**
Semester Five		
CS 10051 or EERT 32003	COMPUTER SCIENCE PRINCIPLES (KMCR) or TECHNICAL COMPUTING	3-4
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENGR 33700	QUALITY TECHNIQUES	3
ENGT 30000 or ENGT 43700	ADVANCED MANUFACTURING or COMPUTER-INTEGRATED MANUFACTURING	3

ENGT 31010	ENGINEERING AND PROFESSIONAL ETHICS	3
	Credit Hours	**15**
Semester Six		
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING	3
Concentration Elective		3
Kent Core Requirement		3
General Elective		6
	Credit Hours	**15**
Semester Seven		
ENGT 33000 or ENGR 33031	INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS or PROGRAMMABLE LOGIC CONTROLLERS	3
ENGT 43363	MATERIALS SCIENCE AND TECHNOLOGY	3
Concentration Elective		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Eight		
ENGR 31000 or ENGT 33092	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC) or ENGINEERING TECHNOLOGY INTERNSHIP AND PROFESSIONAL DEVELOPMENT (ELR) (WIC)	3
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
ENGT 43099	ENGINEERING TECHNOLOGY CAPSTONE (ELR)	3
Concentration Elective		3
Kent Core Requirement		3
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

Green and Alternative Energy Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Applied Electives		7
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
	MATH 11022	TRIGONOMETRY (KMCR)	3
	Applied Electives		6
	Kent Core Requirement		6
		Credit Hours	**15**
	Semester Three		
	MATH 11012	INTUITIVE CALCULUS (KMCR)	3
	Physics Elective		3-5
	Applied Electives		6
	General Elective		3
		Credit Hours	**15**
	Semester Four		
	ENG 20002 or OTEC 26638	INTRODUCTION TO TECHNICAL WRITING or BUSINESS COMMUNICATIONS	3
	Physics Elective		3-5
	Applied Electives		8
		Credit Hours	**15**
	Semester Five		
	CS 10051 or EERT 32003	COMPUTER SCIENCE PRINCIPLES (KMCR) or TECHNICAL COMPUTING	3-4
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	ENGR 33700	QUALITY TECHNIQUES	3
!	GAE 32000	FUEL CELL TECHNOLOGY	3
	OTEC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	1
	Concentration Elective		3
		Credit Hours	**16**
	Semester Six		
	ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING	3
	ENGT 31010	ENGINEERING AND PROFESSIONAL ETHICS	3
	Kent Core Requirement		3
	General Elective		6
		Credit Hours	**15**
	Semester Seven		
!	GAE 42004	ADVANCED FUEL CELL TECHNOLOGY	3
	ENGT 43363	MATERIALS SCIENCE AND TECHNOLOGY	3
	Concentration Elective		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
	ENGR 31000 or ENGT 33092	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC) or ENGINEERING TECHNOLOGY INTERNSHIP AND PROFESSIONAL DEVELOPMENT (ELR) (WIC)	3
	ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
	ENGT 43099	ENGINEERING TECHNOLOGY CAPSTONE (ELR)	3
	Concentration Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

Integrated Engineering Technology Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			**Credits**
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)		3
UC 10001	FLASHES 101		1
Applied Electives			6
Kent Core Requirement			3
General Elective			3
		Credit Hours	**16**
Semester Two			
MATH 11022	TRIGONOMETRY (KMCR)		3
Applied Electives			9
Kent Core Requirement			3
		Credit Hours	**15**
Semester Three			
MATH 11012	INTUITIVE CALCULUS (KMCR)		3
Applied Electives			6
Physics Elective			3-5
Kent Core Requirement			3
		Credit Hours	**15**
Semester Four			
ENG 20002 or OTEC 26638	INTRODUCTION TO TECHNICAL WRITING or BUSINESS COMMUNICATIONS		3
Applied Electives			6
Kent Core Requirement			3
General Elective			3
		Credit Hours	**15**
Semester Five			
CS 10051 or EERT 32003	COMPUTER SCIENCE PRINCIPLES (KMCR) or TECHNICAL COMPUTING		3-4
ENGR 33700	QUALITY TECHNIQUES		3
OTEC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS		1
Concentration Elective			3
Kent Core Requirement			3
		Credit Hours	**13**
Semester Six			
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)		3
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING		3
ENGT 31010	ENGINEERING AND PROFESSIONAL ETHICS		3

ENGT 32006	ECONOMIC DECISION ANALYSIS FOR ENGINEERING TECHNOLOGY	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Seven		
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
ENGT 42003	LEAN AND SIX SIGMA FOR COMPETITIVE MANUFACTURING	3
ENGT 43363	MATERIALS SCIENCE AND TECHNOLOGY	3
General Elective		4
Kent Core Requirement		3
	Credit Hours	**16**
Semester Eight		
ENGR 31000 or ENGT 33092	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC) or ENGINEERING TECHNOLOGY INTERNSHIP AND PROFESSIONAL DEVELOPMENT (ELR) (WIC)	3
ENGT 43099	ENGINEERING TECHNOLOGY CAPSTONE (ELR)	3
Concentration Electives		6
General Elective		3
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

Mechanical/Systems Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Applied Electives		6
Kent Core Requirement		3
General Elective		3
	Credit Hours	**16**
Semester Two		
MATH 11022	TRIGONOMETRY (KMCR)	3
Applied Electives		9
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
ENG 20002 or OTEC 26638	INTRODUCTION TO TECHNICAL WRITING or BUSINESS COMMUNICATIONS	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
Physics Elective		3-5
Applied Electives		6
	Credit Hours	**15**
Semester Four		
OTEC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	1
Physics Elective		3-5
Applied Electives		6
Kent Core Requirement		3
General Elective		3
	Credit Hours	**17**
Semester Five		
CS 10051 or EERT 32003	COMPUTER SCIENCE PRINCIPLES (KMCR) or TECHNICAL COMPUTING	3-4
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENGT 30000 or ENGT 43700	ADVANCED MANUFACTURING or COMPUTER-INTEGRATED MANUFACTURING	3
Concentration Elective		3
	Credit Hours	**12**
Semester Six		
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING	3
MERT 32004 or MERT 42000	MACHINE DESIGN or THERMODYNAMICS FOR ENGINEERING TECHNOLOGY	3
Concentration Electives		6
Kent Core Requirement		3
	Credit Hours	**15**
Semester Seven		
ENGR 33700	QUALITY TECHNIQUES	3
ENGT 31010	ENGINEERING AND PROFESSIONAL ETHICS	3
ENGT 43363	MATERIALS SCIENCE AND TECHNOLOGY	3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Eight		
ENGR 31000 or ENGT 33092	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC) or ENGINEERING TECHNOLOGY INTERNSHIP AND PROFESSIONAL DEVELOPMENT (ELR) (WIC)	3
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
ENGT 43099	ENGINEERING TECHNOLOGY CAPSTONE (ELR)	3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge, techniques, skills and modern tools of mathematics, science, engineering and technology to solve broadly-defined engineering problems appropriate to the disciplines in engineering technology.
2. Design systems, components or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline.
3. Apply written, oral and graphical communication in broadly-defined technical and non-technical environments; identify and use appropriate technical literature.
4. Conduct standard tests, measurements and experiments; analyze and interpret the results to improve processes.
5. Function effectively as a member as well as a leader on technical teams.
6. Understand professional engineering and ethical responsibilities.

Full Description

The Bachelor of Science degree in Engineering Technology focuses primarily on the applied aspects of science and engineering and prepares graduates for practice in that portion of the technological spectrum closest to product improvement, manufacturing, construction and engineering operational functions.

The Engineering Technology major comprises the following concentrations:

- The **Electrical/Electronics** concentration allows seamless articulation with technical associate degrees for students who wish to advance their careers in the electrical/electronic engineering field. Electrical engineers and technologists design, develop, test and supervise the manufacturing of electrical equipment, such as electric motors, radar and navigation systems, communications systems, and power generation equipment. Electronics engineers design and develop electronic equipment, such as broadcast and communications systems-from portable music players to global positioning systems (GPS).
- The **Green and Alternative Energy** concentration refers to energy sources that have no undesired consequences, for example, fossil fuels or nuclear energy. Alternative energy sources are renewable and are thought to be "free" energy sources. They all have lower carbon emissions, compared to conventional energy sources. These include biomass energy, wind energy, solar energy, geothermal energy, and hydroelectric energy sources. Combined with the use of recycling, the use of clean alternative energies such as the home use of solar power systems will help ensure man's survival into the 21st century and beyond. By 2050, one-third of the world's energy will need to come from solar, wind, and other renewable resources, according to British Petroleum and Royal Dutch Shell, two of the world's largest oil companies.
- The **Integrated Engineering Technology** concentration permits graduates from a variety of associate degree backgrounds to formulate a program of advanced study in upper-division technical courses, chosen with a faculty advisor, to gain additional technical depth or breadth.
- The **Mechanical/Systems** concentration allows seamless articulation with technical associate degrees for students who wish to advance their careers in the mechanical or manufacturing field. Mechanical engineering technology is one of the broadest engineering disciplines. Mechanical engineers and technologists design, develop, build and test mechanical and thermal devices, including tools, engines and machines. Graduates of this program can expect to work mostly in engineering services, research and development, manufacturing industries and the federal government.

Enology - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Enology undergraduate certificate provides students with the practical experience and the technology skills of winemaking. The program emphasizes hands-on field experiences and laboratory practicum at local vineyards and wineries.

Contact Information

- **Lori Lee** | llee5@kent.edu | 440-964-4217
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**
  - Ashtabula Campus

Examples of Possible Careers and Salaries*

Farmworkers and laborers, crop, nursery, and greenhouse

- 3.8% about as fast as the average
- 566,500 number of jobs
- $28,660 potential earnings

Agricultural and food science technicians

- 4.1% about as fast as the average
- 24,200 number of jobs
- $41,970 potential earnings

Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders

- 3.5% about as fast as the average
- 53,100 number of jobs
- $43,100 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certicate Requirements		
ENOL 12000	SCIENCE OF WINE AND BEER PRODUCTION I	3
ENOL 14600	INTRODUCTION TO ENOLOGY	3
ENOL 16000	WINERY EQUIPMENT OPERATION	2
ENOL 22000	SCIENCE OF WINE AND BEER PRODUCTION II	2
ENOL 22001	ADVANCED WINERY AND BREWERY MICROBIOLOGY AND SANITATION	4
ENOL 22092	INTERMEDIATE ENOLOGY: HARVEST AND CRUSH WITH FIELDWORK (ELR)	4
ENOL 23092	INTERMEDIATE ENOLOGY: POSTHARVEST WITH FIELDWORK (ELR)	4
ENOL 26600	SENSORY EVALUATION	3
VIN 11100	INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT	3
Minimum Total Credit Hours:		**28**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ENOL 12000	SCIENCE OF WINE AND BEER PRODUCTION I	3
ENOL 14600	INTRODUCTION TO ENOLOGY	3
	Credit Hours	**6**
Semester Two		
ENOL 16000	WINERY EQUIPMENT OPERATION	2
ENOL 22000	SCIENCE OF WINE AND BEER PRODUCTION II	2
ENOL 22001	ADVANCED WINERY AND BREWERY MICROBIOLOGY AND SANITATION	4
	Credit Hours	**8**
Semester Three		
ENOL 22092	INTERMEDIATE ENOLOGY: HARVEST AND CRUSH WITH FIELDWORK (ELR)	4
VIN 11100	INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT	3
	Credit Hours	**7**
Semester Four		
ENOL 23092	INTERMEDIATE ENOLOGY: POSTHARVEST WITH FIELDWORK (ELR)	4
ENOL 26600	SENSORY EVALUATION	3
	Credit Hours	**7**
	Minimum Total Credit Hours:	**28**

Program Learning Outcomes

Gradates of this program will be able to:

1. Explain and apply winemaking principles and practices, including calculations necessary for accurate, precise and safe additions to the wine.
2. Identify and safely use crush, storage, fermentation, transfer, sanitation, refrigeration and bottling equipment found in a winery.
3. Perform introductory microbiology methods for winery sanitation and bottle sterilization.
4. Properly handle and eliminate waste products from the winery with regard to environmental and safety regulations.
5. Identify the role of both good and bad microorganisms frequently encountered in winemaking process, including how to deal with each.
6. Describe the principles of sensory evaluation used in commercial winemaking, including a beginning mastery of discerning flavors to establish testing benchmarks.

Entrepreneurship - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Entrepreneurship undergraduate certificate addresses the needs of individuals who manage small businesses, as well as individuals who believe they would like to start a business in the future. In addition, the program addresses the intrapreneurship (innovative risk taking) needs of individuals who are currently working for larger organizations in which management is sharing decision-making and product development with all employees.

Contact Information

- **Sean Ratican** | sratican@kent.edu | 330-847-0571
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - Leavittsburg, Ohio

Examples of Possible Careers

- Business owner
- Business founder
- Sole-proprietor
- Entrepreneur

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
ACTT 11000	ACCOUNTING I: FINANCIAL	4
BMRT 11000	INTRODUCTION TO BUSINESS	3
BMRT 21000	BUSINESS LAW AND ETHICS I	3
BMRT 21020	INTRODUCTION TO ENTREPRENEURSHIP	3
BMRT 21023	FINANCING THE BUSINESS VENTURE	3
BMRT 21052	PROFESSIONAL SELLING TECHNIQUES	3
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
Minimum Total Credit Hours:		**22**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Program Learning Outcomes

1. Demonstrate introductory business skills.
2. Demonstrate introductory accounting and financial skills.
3. Understand the practical and strategic requirements of entrepreneurship.
4. Understand business law and its practical application.

Essentials for Business Decision Making - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Essentials for Business Decision Making undergraduate certificate provides a background for both experienced and aspiring business managers. For the business manager who may already have a degree in a field other than business, the program offers professional certification. For the person who aspires to be a management position, the certificate articulates well into the Associate of Applied Business degree or the Bachelor of Business Administration degree.

Contact Information

- **Sean Ratican** | sratican@kent.edu | 330-847-0571
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Salem Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center
  - Online (any campus above)
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus

- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus
- Twinsburg Academic Center

Examples of Possible Careers and Salaries*

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Project management specialists and business operations specialists, all other

- 5.9% faster than the average
- 1,361,800 number of jobs
- $77,420 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Code	Title	Credit Hours
Certificate Requirements		
ACCT 23020 & UC 10162	INTRODUCTION TO FINANCIAL ACCOUNTING and INTRODUCTION TO PROFESSIONAL DEVELOPMENT	4
or ACTT 11000	ACCOUNTING I: FINANCIAL	
BMRT 11000	INTRODUCTION TO BUSINESS	3
or BUS 10123	EXPLORING BUSINESS	
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
or MGMT 24163	PRINCIPLES OF MANAGEMENT	
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
or IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
Minimum Total Credit Hours:		**16**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ACTT 11000 or ACCT 23020 ***and*** UC 10162	ACCOUNTING I: FINANCIAL or INTRODUCTION TO FINANCIAL ACCOUNTING ***and*** INTRODUCTION TO PROFESSIONAL DEVELOPMENT	4
BMRT 11000 or BUS 10123	INTRODUCTION TO BUSINESS or EXPLORING BUSINESS	3
	Credit Hours	**7**
Semester Two		
BMRT 11009 or MGMT 24163	INTRODUCTION TO MANAGEMENT TECHNOLOGY or PRINCIPLES OF MANAGEMENT	3
CIS 24053 or IT 11000	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3

ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	Credit Hours	**9**
	Minimum Total Credit Hours:	**16**

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify and define contemporary approaches to applied business and management practice.
2. Develop and apply critical thinking, research and analysis skills necessary for professional success.
3. Discuss various aspects of teams in business: team dynamics, different types of teams, meeting rules and management.
4. Analyze and assess basic financial reports for evaluation and performance of a business.
5. Apply principles of organizational leadership and management to ethical business practices.

Floriculture - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Floriculture undergraduate certificate provides entry-level skills for those interested in employment or a career in the field. The curriculum provides basic principles of design used in commercial and natural settings, commercial production, marketing and post-harvest care.

The certificate articulates well into Kent State's A.A.S. degree in Horticulture Technology and Bachelor of Applied Horticulture degree.

Contact Information

- **Sheren Farag** | sfaragmo@kent.edu | 330-337-4270
- Speak with an Advisor
  - Geauga Campus
  - Salem Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Geauga Campus
  - Salem Campus

Examples of Possible Careers and Salaries*

First-line supervisors of retail sales workers

- -5.5% decline
- 1,476,400 number of jobs
- $41,580 potential earnings

Floral designers

- -20.1% decline
- 51,800 number of jobs
- $29,140 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
BMRT 11000	INTRODUCTION TO BUSINESS	3
HORT 16003	INTRODUCTION TO HORTICULTURE TECHNOLOGIES AND SENSORS	1
HORT 16010	FLORAL DESIGN I	3
HORT 16011	FLORAL DESIGN II	3
HORT 16020	PLANT MATERIALS I	3
HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2

HORT 36092	INTERNSHIP IN HORTICULTURE (ELR)	1
Minimum Total Credit Hours:		**16**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BMRT 11000	INTRODUCTION TO BUSINESS	3
HORT 16003	INTRODUCTION TO HORTICULTURE TECHNOLOGIES AND SENSORS	1
HORT 16010	FLORAL DESIGN I	3
HORT 16011	FLORAL DESIGN II	3
	Credit Hours	**10**
Semester Two		
HORT 16020	PLANT MATERIALS I	3
HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2
HORT 36092	INTERNSHIP IN HORTICULTURE (ELR)	1
	Credit Hours	**6**
	Minimum Total Credit Hours:	**16**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge of the advanced skills in floral design, including the ability to create innovative and aesthetically pleasing arrangements for various occasions and settings.
2. Utilize practical knowledge of horticulture, plant materials and wholesale floriculture to effectively work with and care for plants, flowers and related materials.

Game Design - Minor

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Game Design minor is for students who want to learn and enhance their ability to create 2D and 3D games and who want to focus on the modeling and game environment design perspective. Students will create 2D and 3D games by learning the essentials of modeling, texturing, lighting, sculpting environments and communicating ideas with other designers.

Contact Information

- **Lori Bears** | lbears@kent.edu | 330-308-7438
  Chris Totten | ctotten@kent.edu | 330-308-7567
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
  - Tuscarawas Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus
  - Tuscarawas Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
AGD 12000	TWO DIMENSION GRAPHICS	3
AGD 12001	MODELING AND TEXTURING I	3
AGD 22004	MODELING AND TEXTURING II	3
AGD 22005	MULTIMEDIA AND GAME DESIGN	3
AGD 22010	DIGITAL SCULPTING	3
AGD 33010	COMPETITIVE GAMING	3
or AGD 33030	GAMES FOR IMPACT	
AGD 34005	ENVIRONMENTAL GAME DESIGN	3
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Greenhouse Production - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Greenhouse Production undergraduate certificate provides entry-level sills for those interested in employment or a career in the field. The curriculum provides basic principles of plant propagation in the greenhouse and nursery.

The certificate articulates well into Kent State's A.A.S. degree in Horticulture Technology and the Bachelor of Applied Horticulture degree.

Contact Information

- **Sheren Farag** | sfaragmo@kent.edu | 330-337-4270
- Speak with an Advisor
  - Geauga Campus
  - Salem Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Geauga campus
  - Salem campus

Examples of Possible Careers and Salaries*

Farmers, ranchers, and other agricultural managers

- -6.5% decline
- 952,300 number of jobs
- $68,090 potential earnings

Farmworkers and laborers, crop, nursery, and greenhouse

- 3.8% about as fast as the average
- 566,500 number of jobs
- $28,660 potential earnings

First-line supervisors of farming, fishing, and forestry workers

- -1.1% decline
- 53,200 number of jobs
- $50,080 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
BMRT 21020	INTRODUCTION TO ENTREPRENEURSHIP	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
HORT 16003	INTRODUCTION TO HORTICULTURE TECHNOLOGIES AND SENSORS	1
HORT 16022	GREENHOUSE STRATA	3
HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2
HORT 36014	PLANT PROPAGATION AND GREENHOUSE PRODUCTION	3
HORT 36092	INTERNSHIP IN HORTICULTURE (ELR)	1
Minimum Total Credit Hours:		**19**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BMRT 21020	INTRODUCTION TO ENTREPRENEURSHIP	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
HORT 16003	INTRODUCTION TO HORTICULTURE TECHNOLOGIES AND SENSORS	1
	Credit Hours	**10**
Semester Two		
HORT 16022	GREENHOUSE STRATA	3
HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2

HORT 36014	PLANT PROPAGATION AND GREENHOUSE PRODUCTION	3
HORT 36092	INTERNSHIP IN HORTICULTURE (ELR)	1
	Credit Hours	**9**
	Minimum Total Credit Hours:	**19**

Program Learning Outcomes

Graduates of this program will be able to:

1. Utilize the knowledge and skills needed to successfully manage greenhouse and nursery, including understanding business principles, plant selection and greenhouse production techniques.
2. Apply practical experience in plant identification, selection, propagation and greenhouse production to effectively cultivate and manage horticultural plants and products.

Help Desk Support - Minor

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Help Desk Support minor is designed to complement a wide range of majors. The curriculum includes coursework focused on computer hardware, usability design, application software, local area network troubleshooting and help desk methods and technologies. The program is flexible to tailor to each student's interests and career goals.

Contact Information

- **Shelley Marshall** | skmarsha@kent.edu | 440-964-4348
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - Fully online

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	3
IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	3
IT 21002	NETWORK SETUP AND CONFIGURATION	3
IT 36308	ERGONOMICS AND USABILITY IN INFORMATION TECHNOLOGY	3
or IT 36314	SEMINAR IN EMERGING COMPUTER AND INFORMATION TECHNOLOGIES	
IT 36330	NETWORK SECURITY FUNDAMENTALS	3
IT 36340	HELP DESK SUPPORT	3
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Horticulture - B.A.H.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Cultivate your green thumb with Kent State's horticulture program. Our Bachelor of Applied Horticulture degree provides hands-on training in plant cultivation, landscape design, and sustainable practices. With experienced faculty, cutting-edge facilities, and real-world experience, you'll gain the skills needed to succeed in the horticulture industry. Enroll now and bring your love of plants to life. Read more...

Contact Information

- **Sheren Farag** | sfaragmo@kent.edu | 330-337-4270
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Salem Campus

Example of Possible Careers and Salaries*

Farmers, ranchers, and other agricultural managers

- -6.5% decline
- 952,300 number of jobs
- $68,090 potential earnings

First-line supervisors of construction trades and extraction workers

- 4.8% about as fast as the average
- 685,000 number of jobs
- $67,840 potential earnings

Landscaping and groundskeeping workers

- 10.1% much faster than the average
- 1,188,000 number of jobs
- $31,730 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
or BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	
GEOG 16001	SOIL AND HORTICULTURAL MANAGEMENT	3
HORT 16002	INTRODUCTION TO AGROECOLOGY	3
HORT 16003	INTRODUCTION TO HORTICULTURE TECHNOLOGIES AND SENSORS	1
HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2
HORT 26016	IRRIGATION DESIGN AND MAINTENANCE	3
HORT 26046	LANDSCAPE DESIGN I	3
or HORT 36046	LANDSCAPE DESIGN II	
HORT 35092	HORTICULTURE PRACTICUM (ELR)	6
HORT 36014	PLANT PROPAGATION AND GREENHOUSE PRODUCTION	3
HORT 36025	PROFESSIONAL PRACTICE IN HORTICULTURE (WIC) (min C grade)	3
HORT 36092	INTERNSHIP IN HORTICULTURE (ELR)	4
HORT 46014	GARDEN CENTER AND NURSERY PRODUCTION MANAGEMENT	3
Technical Electives, choose from the following:		6
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	
HORT 16004	DRONE TECHNOLOGY FOR HORTICULTURE	
HORT 26002	EMERGING TECHNOLOGIES IN HORTICULTURE AND PLANT SYSTEMS	
HORT 26003	ARBORICULTURE AND URBAN FORESTRY MANAGEMENT	
HORT 26006	SUSTAINABLE HORTICULTURAL SYSTEMS	
HORT 26020	LANDSCAPE MANAGEMENT	
HORT 26030	TURF GRASS MANAGEMENT	
HORT 26032	GOLF COURSE MANAGEMENT	
HORT 36004	MARKET GARDEN PRODUCTION	
HORT 36005	ORCHARD PRODUCTION - DECIDUOUS AND EVERGREEN	
HORT 36195	SPECIAL TOPICS IN HORTICULTURE	
HORT 46008	FLORICULTURE AND ORNAMENTAL PLANTS	
HORT 46009	ADVANCES IN VITICULTURE PRODUCTION	
HORT 46013	INTERNET OF THINGS AND ARTIFICIAL INTELLIGENCE IN PRECISION FARMING: TECHNOLOGIES AND APPLICATIONS	
Major Electives, choose from the following:		6
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 31080	GEOGRAPHY OF WINE	
HORT 36034	SPORTS TURF MANAGEMENT	
HORT 41096	INDIVIDUAL INVESTIGATION IN HORTICULTURE	
Additional Requirements (courses do not count in major GPA)		
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
BMRT 11000	INTRODUCTION TO BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3

BSCI 10110 or CHEM 10030 & CHEM 10031	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB) or CHEMISTRY IN OUR WORLD (KBS) and CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB)	4
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
ESCI 41073	GEOLOGY OF OHIO	3
GEOG 17064	GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	3
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
UC 10001	FLASHES 101	1
Foreign Language [1]		4
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		3
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		17
Minimum Total Credit Hours:		**120**

[1] Courses in one foreign language or American Sign Language in proficiency required. This requirement may be fulfilled by one of the following two conditions: (1) passing the first two semesters of any foreign language or American Sign Language, or (2) passing a foreign language course at the Elementary II level or above.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	BSCI 10110 or CHEM 10030 ***and*** CHEM 10031	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB) or CHEMISTRY IN OUR WORLD (KBS) ***and*** CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB)	4
!	BSCI 16001	HORTICULTURAL BOTANY	3
!	HORT 16003	INTRODUCTION TO HORTICULTURE TECHNOLOGIES AND SENSORS	1
	UC 10001	FLASHES 101	1
	Kent Core Requirements		6
		Credit Hours	**15**
	Semester Two		
	BMRT 11000	INTRODUCTION TO BUSINESS	3
!	BSCI 26003 or BSCI 26004	PLANT IDENTIFICATION AND SELECTION I or PLANT IDENTIFICATION AND SELECTION II	3
!	HORT 16002	INTRODUCTION TO AGROECOLOGY	3
	Technical Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	First Summer Term		
	HORT 35092	HORTICULTURE PRACTICUM (ELR)	3
		Credit Hours	**3**
	Semester Three		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	GEOG 16001	SOIL AND HORTICULTURAL MANAGEMENT	3
!	HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2
	HORT 26016	IRRIGATION DESIGN AND MAINTENANCE	3
	Technical Elective		3
		Credit Hours	**14**
	Semester Four		
!	BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
	ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
!	Major Elective		3
	Kent Core Requirement		3
		Credit Hours	**12**
	Second Summer Term		
	HORT 35092	HORTICULTURE PRACTICUM (ELR)	3
		Credit Hours	**3**
	Semester Five		
	ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
	ESCI 41073	GEOLOGY OF OHIO	3
	GEOG 17064	GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	3
	HORT 26046 or HORT 36046	LANDSCAPE DESIGN I or LANDSCAPE DESIGN II	3
!	HORT 36025	PROFESSIONAL PRACTICE IN HORTICULTURE (WIC)	3
		Credit Hours	**15**
	Semester Six		
	PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
	Kent Core Requirements		6
	General Electives		4
		Credit Hours	**13**
	Third Summer Term		
	HORT 36092	INTERNSHIP IN HORTICULTURE (ELR)	4
		Credit Hours	**4**
	Semester Seven		
!	HORT 36014	PLANT PROPAGATION AND GREENHOUSE PRODUCTION	3
!	Major Elective		3
	Foreign Language		4
	General Elective		3
		Credit Hours	**13**
	Semester Eight		
!	HORT 46014	GARDEN CENTER AND NURSERY PRODUCTION MANAGEMENT	3
	General Electives		10
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Define plant characteristics, use, identification, and taxonomy and differentiate between a wide range of horticulturally important plant species, including both woody and herbaceous species.
2. Apply proper safety procedures and their application in the workplace.
3. Apply principles of agroecology and sustainable horticultural practices that reduce the environmental footprint of horticultural production and contribute to long-term sustainability.
4. Articulate pest identification, taxonomy, integrated pest management (IPM), and control strategies that use ecologically sustainable approaches.
5. Discuss the integration and utilization of advanced technologies, such as sensors, drones, and artificial intelligence applications, to enhance precision farming practices in horticulture, for optimizing crop yields, resource efficiency and environmental sustainability.
6. Apply practical expertise in orchard production and management by using industry best practices to maximize fruit quality and yield.
7. Design and maintain landscapes using a range of plant materials, hardscape features and sustainable practices.
8. Apply principles and practices of growing and marketing crops on a small scale for local markets.
9. Apply principles of plant propagation, greenhouse management, and garden center/nursery operations for successful plant cultivation and sales.
10. Discuss soil science's role in horticultural production, and interpret soil test results, analyze soil conditions, and implement corrective measures for optimal plant growth.
11. Explain concepts of tree biology, identification, planting, and maintenance practices, including pruning, tree risk assessment and disease management.

Full Description

The Bachelor of Applied Horticulture degree provides students with the academic background and learning environment to further their education beyond an associate degree. This program aids students in the development of managerial expertise in various horticultural domains, including a deep understanding of plant characteristics, safety procedures in the horticultural workplace, principles of agroecology and sustainable horticultural practices, pest management and the integration of advanced technologies to enhance precision farming. Additionally, students gain advanced knowledge in orchard production and management, landscape design and maintenance, local crop cultivation, plant propagation, greenhouse operations, soil science and tree care. This diverse skill set prepares students for a wide range of career opportunities such as landscape designers, arborists, greenhouse managers, parks or botanical garden managers, garden center managers, horticultural therapists, pest control specialists, educators/extension agents, botanist, florists and more.

Horticulture Technology - A.A.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Associate of Applied Science degree in Horticulture Technology focuses on the practical skills needed to succeed in the horticulture industry. With flexible scheduling, state-of-the-art facilities and experienced faculty, you'll be prepared for a variety of career opportunities. Enroll now and cultivate your future. Read more...

Contact Information

- Program Director: **Sheren Farag** | sfaragmo@kent.edu | 330-337-4270
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person

- **Location:**
  - Salem Campus

Examples of Possible Careers and Salaries*

Farmers, ranchers, and other agricultural managers

- -6.5% decline
- 952,300 number of jobs
- $68,090 potential earnings

First-line supervisors of landscaping, lawn service, and groundskeeping workers

- 11.4% much faster than the average
- 170,700 number of jobs
- $51,010 potential earnings

Landscaping and groundskeeping workers

- 10.1% much faster than the average
- 1,188,000 number of jobs
- $31,730 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
or BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	
GEOG 16001	SOIL AND HORTICULTURAL MANAGEMENT	3
HORT 16002	INTRODUCTION TO AGROECOLOGY	3
HORT 16003	INTRODUCTION TO HORTICULTURE TECHNOLOGIES AND SENSORS	1
HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2
HORT 35092	HORTICULTURE PRACTICUM (ELR)	3
Technical Electives, choose from the following:		15
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	
or BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	
HORT 16004	DRONE TECHNOLOGY FOR HORTICULTURE	
HORT 26002	EMERGING TECHNOLOGIES IN HORTICULTURE AND PLANT SYSTEMS	
HORT 26003	ARBORICULTURE AND URBAN FORESTRY MANAGEMENT	
HORT 26006	SUSTAINABLE HORTICULTURAL SYSTEMS	
HORT 26016	IRRIGATION DESIGN AND MAINTENANCE	
HORT 26020	LANDSCAPE MANAGEMENT	
HORT 26030	TURF GRASS MANAGEMENT	
HORT 26032	GOLF COURSE MANAGEMENT	
HORT 26046	LANDSCAPE DESIGN I	
Additional Requirements (courses do not count in major GPA)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
or CHEM 10030 & CHEM 10031	CHEMISTRY IN OUR WORLD (KBS) and CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB)	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
General Electives (total credit hours depends on earning 60 credits hour)		1
Minimum Total Credit Hours:		**60**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as

critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	BSCI 16001	HORTICULTURAL BOTANY	3
!	HORT 16002	INTRODUCTION TO AGROECOLOGY	3
!	HORT 16003	INTRODUCTION TO HORTICULTURE TECHNOLOGIES AND SENSORS	1
!	HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**13**
	Semester Two		
	BSCI 10110 or CHEM 10030 ***and*** CHEM 10031	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB) or CHEMISTRY IN OUR WORLD (KBS) ***and*** CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB)	4
!	BSCI 26003 or BSCI 26004	PLANT IDENTIFICATION AND SELECTION I or PLANT IDENTIFICATION AND SELECTION II	3
	Technical Electives		6
	Kent Core Requirement		3
		Credit Hours	**16**
	First Summer Term		
	HORT 35092	HORTICULTURE PRACTICUM (ELR)	3
		Credit Hours	**3**
	Semester Three		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	GEOG 16001	SOIL AND HORTICULTURAL MANAGEMENT	3
	Technical Electives		6
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
	ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
	Technical Elective		3
	Kent Core Requirement		3
	General Elective		1
		Credit Hours	**13**
		Minimum Total Credit Hours:	**60**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.		
Kent Core (see table below)		15
Total Credit Hour Requirement		60

Some associate degrees require students to complete more than 60 credit hours.

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. List and define plant characteristics, use, identification and taxonomy and differentiate between a wide range of horticulturally important plant species, including both woody and herbaceous species.
2. Apply proper safety procedures and their application in the workplace.
3. Apply principles of agroecology and sustainable horticultural practices that reduce the environmental footprint of horticultural production and contribute to long-term sustainability.
4. Articulate pest identification, taxonomy, integrated pest management (IPM) and control strategies that use ecologically sustainable approaches.
5. Discuss the integration and utilization of advanced technologies (e.g., sensors, drones and artificial intelligence applications) to enhance precision farming practices in horticulture, for optimizing crop yields, resource efficiency and environmental sustainability.
6. Design and maintain landscapes using a range of plant materials, hardscape features and sustainable practices.
7. Discuss soil science's role in horticultural production; and interpret soil test results, analyze soil conditions and implement corrective measures for optimal plant growth.
8. Explain concepts of tree biology, identification, planting and maintenance practices, including pruning, tree risk assessment and disease management.

Full Description

The Associate of Applied Science degree in Horticulture Technology prepares students for diverse careers in horticulture-related professions. This program focuses on providing a strong educational foundation that enables graduates to excel in landscape management, turf management, urban forestry, nursery and greenhouse operations. Students develop a knowledge of plant characteristics, safety procedures in the workplace, agroecology, sustainable horticultural practices, pest management, advanced technology integration for precision farming, landscape design and maintenance, soil science and tree care.

The Horticulture Technology major emphasizes practical experience through hands-on training in outdoor labs. Students are required to complete an internship.

The degree program articulates with Kent State's Bachelor of Applied Horticulture degree.

Human Services - A.A.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Are you passionate about making a tangible difference in people's lives? The Human Services major provides comprehensive coursework and hands-on internships for you to gain expertise in case management, client advocacy and community resource coordination. This program meets the curricular requirements for various certifications, including Social Work Assistant and Chemical Dependency Counselor credentials. This associate degree serves as a solid foundation for immediate employment in diverse human services roles or as a stepping stone toward a bachelor's degree in related fields. Read more...

Contact Information

- **Kimberly Steele** | ksteele6@kent.edu | 330-337-4283
- Speak with an Advisor
  - Ashtabula Campus
  - Salem Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**
  - Ashtabula Campus
  - Salem Campus

Example of Possible Careers and Salaries*

Community and social service specialists, all other

- 11.7% much faster than the average
- 105,200 number of jobs
- $46,770 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Social and human service assistants

- 16.8% much faster than the average
- 425,600 number of jobs
- $35,960 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
HDF 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
HSRV 11000	FOUNDATIONS OF HUMAN SERVICES	3
or SWK 24140	INTRODUCTION TO SOCIAL WORK	
HSRV 11001	GROUP METHODS IN HUMAN SERVICES	3
HSRV 11002	SURVEY OF COMMUNITY RESOURCES	3
HSRV 21000	DYNAMICS OF HELPING RELATIONSHIPS	3
HSRV 21001	ASSESSMENT METHODS IN HUMAN SERVICES	3
HSRV 21002	COMMUNITY SUPPORTIVE CASE MANAGEMENT AND ADVOCACY IN HUMAN SERVICES	3
HSRV 21003	SOCIAL WELFARE IN HUMAN SERVICES	3
or SWK 25248	SOCIAL WELFARE POLICY	
HSRV 21092	INTERNSHIP IN HUMAN SERVICES I (ELR) [1]	3
HSRV 21192	INTERNSHIP IN HUMAN SERVICES II (ELR) [1]	3
Additional Requirements (courses do not count in major GPA)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING [2]	3
or ENG 21011	RESEARCH WRITING (KCMP)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Basic Sciences		3
Technical Electives, choose from the following: [3]		9

IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS
SWK 24146	PERSPECTIVES ON BEHAVIOR AND ENVIRONMENT I
SWK 25100	SOCIAL WORK IN RURAL SETTINGS
SWK 34140	PRACTICE CONTENT FOR SOCIAL WORK I
SWK 35120	SOCIAL WORK IN MENTAL HEALTH SETTINGS
SWK 35121	SOCIAL WORK IN SUBSTANCE USE DISORDER SETTINGS
SWK 35122	SOCIAL WORK IN CHILD WELFARE SETTINGS
SWK 35123	SOCIAL WORK AND TRAUMA-INFORMED CARE
SWK 35124	SOCIAL WORK PERSPECTIVES ON AGING
SWK 35125	INTERPROFESSIONAL APPROACHES TO SUICIDE PREVENTION
SWK 24147	PERSPECTIVES ON BEHAVIOR AND ENVIRONMENT II
SWK 25195	SPECIAL TOPICS IN SOCIAL WORK
SWK 34141	PRACTICE CONTENT FOR SOCIAL WORK II
Allied Health Sciences (AHS) courses	
Counselor Education and Supervision (CES) courses	
Criminology and Justice Studies (CRIM) courses	
Early Childhood Education (ECED) courses	
Early Childhood Education Technology (ECET) courses	
Educational Psychology (EPSY) courses	
Gerontology (GERO) courses	
Health Education (HED) courses	
Human Development and Family Science (HDF) courses	
Human Services (HSRV) courses	
Nursing (NURS) courses	
Office Technology (OTEC) courses	
Peace and Conflict Studies (PACS) courses	
Psychology (PSYC) courses	
Public Health (PH) courses	
Sociology (SOC) courses	
Foreign Language courses	
Minimum Total Credit Hours:	**64**

[1] Students will be required to complete the equivalent of 315 internship hours each semester.

[2] It is recommended that students planning to enroll in a bachelor's degree take ENG 21011.

[3] The following are recommendations for completing technical electives:

1. HED 32530 or PSYC 41364 if preparing for licensure in chemical dependency counseling;
2. HDF 24012, HDF 25512 and HDF 34031 if planning to enroll in the B.S. degree in Human Development and Family Studies;
3. PSYC, SOC or SWK or foreign language courses if planning to enroll in the bachelor's degree in psychology, sociology or social work.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
HSRV 11000 or SWK 24140	FOUNDATIONS OF HUMAN SERVICES or INTRODUCTION TO SOCIAL WORK	3
HSRV 11001	GROUP METHODS IN HUMAN SERVICES	3
HSRV 11002	SURVEY OF COMMUNITY RESOURCES	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 20002 or ENG 21011	INTRODUCTION TO TECHNICAL WRITING or RESEARCH WRITING (KCMP)	3
HDF 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
HSRV 21003 or SWK 25248	SOCIAL WELFARE IN HUMAN SERVICES or SOCIAL WELFARE POLICY	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Technical Elective		3
	Credit Hours	**18**
Semester Three		
HSRV 21000	DYNAMICS OF HELPING RELATIONSHIPS	3
HSRV 21001	ASSESSMENT METHODS IN HUMAN SERVICES	3
HSRV 21092	INTERNSHIP IN HUMAN SERVICES I (ELR)	3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
HSRV 21002	COMMUNITY SUPPORTIVE CASE MANAGEMENT AND ADVOCACY IN HUMAN SERVICES	3
HSRV 21192	INTERNSHIP IN HUMAN SERVICES II (ELR)	3
Kent Core Requirement		3
Technical Electives		6
	Credit Hours	**15**
	Minimum Total Credit Hours:	**64**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
	Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Kent Core (see table below)		15
Total Credit Hour Requirement		60

Some associate degrees require students to complete more than 60 credit hours.

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Full Description

The Associate of Applied Science degree in Human Services is designed to prepare graduates for entry-level positions in a variety of human services agencies and includes applied courses in human services and joint university-agency supervised internships. The core courses provide a solid foundation in case management and client advocacy. This program is endorsed by the Ohio Coalition of Associate Degree Human Service Educators as authorized by the Ohio Chemical Dependency Professionals Board and the Ohio Counselor, Social Worker and Marriage and Family Therapist Board as meeting the curricular requirements for the Social Work Assistant, Chemical Dependency Counselor Assistant Preliminary and Renewable and Licensed Chemical Dependency Counselor.

The program is designed to articulate fully to Kent State's Bachelor of Social Work Degree. However, its coursework is also applicable to related behavioral science bachelor programs such as human development and family science, psychology and sociology.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Individualized Program - A.T.S

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Associate of Technical Study degree, Individualized Program, is open to students who need a specially designed course of study in a technical field. The program consists of courses that suit students' career goals. Course requirements are planned with the help of a faculty advisor and must be approved by the dean of the College of Applied and Technical Studies.

Contact Information

- **Martha Daniels, Ed.D.** | mdaniel1@kent.edu
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

This degree program may not be earned as a double major or dual degree with another major and cannot be earned as an additional degree after another degree at the same or higher level has been earned previously.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
Course Requirements Approved by Faculty Advisor and College Dean		30
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
Kent Core Basic Sciences		3
General Electives (total credit hours depends on earning 60 credits hour)		14
Minimum Total Credit Hours:		**60**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students must successfully complete 15 credit hours of graded Kent State coursework required for the A.T.S. degree before receiving any college credit for industry recognized licensures, certifications, or diplomas.

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.		
Kent Core (see table below)		15
Total Credit Hour Requirement		60
Some associate degrees require students to complete more than 60 credit hours.		

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Interpret and communicate discipline specific information via written, verbal and/or visual or digital representations.
2. Participate in effective written, oral and digital communication skills in multiple contexts, for a variety of audiences.
3. Integrate applied skills and theoretical knowledge in a specific technical field or focus area to solve problems or perform tasks.
4. Develop self-awareness about identity and culture, diversity, sensitivity and respect for differences.

Information Technology - A.A.B.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Advance your career in IT with Kent State's A.A.B. in Information Technology. With a blend of technical and business skills, this program prepares you for a range of IT roles. From cybersecurity to software development, the Information Technology program has you covered. Enroll now and take the first step towards a rewarding career. Read more...

Contact Information

- **Carolyn Carvalho | ccarvalh@kent.edu |** 440-964-4222
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers*

Computer user support specialists

- 8.0% much faster than the average
- 687,200 number of jobs
- $52,690 potential earnings

Computer network support specialists

- 6.4% faster than the average
- 195,100 number of jobs
- $65,450 potential earnings

Web developers and digital interface designers

- 8.0% much faster than the average
- 174,300 number of jobs
- $77,200 potential earnings

Additional careers

- Database support technician
- IT support specialist

Concentration-specific careers

- **Application Development Technology**
  - Application support analyst
  - Junior software developer
- **Network Technology**
  - Network support specialist
  - Systems administrator
- **Web Development**
  - Front-end developer
  - Web content manager

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
IT 11004	SURVEY OF INFORMATION TECHNOLOGY	3
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
IT 11006	INTRODUCTION TO WEB SITE TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	3
IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	3
IT 13000	APPLIED SECURITY ESSENTIALS	3
IT 15000	FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY	3
IT 21002	NETWORK SETUP AND CONFIGURATION	3
IT 21003	SYSTEM ADMINISTRATION FOR INFORMATION TECHNOLOGY PROFESSIONALS	3
IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	3
IT 21009	SEMINAR IN INFORMATION TECHNOLOGY	3
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
Kent Core Basic Sciences		3
Concentrations		
Choose from the following:		9
Application Development Technology		
General Technology		
Network Technology		
Web Development		
Minimum Total Credit Hours:		**61**

Application Development Technology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
IT 20030	VISUAL AND OBJECT-ORIENTED PROGRAMMING IN INFORMATION TECHNOLOGY	3
IT 21006	DATABASE PROGRAMMING	3
IT 21036	WEB SCRIPTING I	3
Minimum Total Credit Hours:		**9**

General Technology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Information Technology (IT) Electives		9
Minimum Total Credit Hours:		**9**

Network Technology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Information Technology (IT) Elective		3
Concentration Electives, choose from the following:		6
IT 21100	LOCAL AREA NETWORK TROUBLESHOOTING	
IT 21110	NETWORK ROUTING AND SWITCHING	
IT 21200	ETHICAL HACKING	
Minimum Total Credit Hours:		**9**

Web Development Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
IT 21006	DATABASE PROGRAMMING	3
IT 21011	TECHNIQUES OF MULTIMEDIA WEB DESIGN	3

IT 21037	WEB SCRIPTING	3
Minimum Total Credit Hours:		**9**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	IT 11004	SURVEY OF INFORMATION TECHNOLOGY	3
!	IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
	IT 11006	INTRODUCTION TO WEB SITE TECHNOLOGY	3
	IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	3
	IT 13000	APPLIED SECURITY ESSENTIALS	3
	IT 15000	FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY	3
	IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	IT 21002	NETWORK SETUP AND CONFIGURATION	3
	IT 21003	SYSTEM ADMINISTRATION FOR INFORMATION TECHNOLOGY PROFESSIONALS	3
!	IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
	Concentration Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	IT 21009	SEMINAR IN INFORMATION TECHNOLOGY	3
	Concentration Requirements		6
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
		Minimum Total Credit Hours:	**61**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.		
Kent Core (see table below)		15
Total Credit Hour Requirement		60
Some associate degrees require students to complete more than 60 credit hours.		

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate core IT competency in networking and convergence; servers, storage and virtualization; client computing and user support; digital media and immersive technology; database and information management; and programming and application development.
2. Function effectively as a member of a diverse team to accomplish common goals.
3. Read and interpret technical information, as well as listen effectively to, communicate orally with, and write clearly for a wide range of audiences.
4. Engage in continuous learning as well as research and assess new ideas and information to provide the capabilities for lifelong learning.
5. Exhibit professional, legal and ethical behavior.
6. Demonstrate business awareness and workplace effectiveness.

Full Description

The Associate of Applied Business degree in Information Technology provides students with a core curriculum of programming, operating systems and networks, website development, hardware, security fundamentals, and workgroup productivity technologies.

The degree program articulates to the Bachelor of Science in Information Technology degree and the certificate in Computer Forensics and Information Security.

The Information Technology major comprises the following concentrations:

- The **Application Development Technology** concentration prepares students for various professional certifications and positions such as computer programmer/application developer using industry-standard languages and technologies.
- The **General Technology** concentration prepares students for various professional certifications and entry-level positions in which the computer staff are expected to perform a wide variety of technical duties.

- The **Network Technology** concentration prepares students for various professional certifications and positions in tech support and networking including the design, installation, and improvement of computer networks and related hardware/software.
- The **Web Development** concentration prepares students for various professional certifications and positions in web development, social media and digital media.

Information Technology - B.S.I.T.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Join the fast-growing field of IT with Kent State's B.S.I.T. program. This program equips you with the skills needed to succeed in a range of IT roles, from software engineering to data analytics. With hands-on experience and expert faculty, you'll be well-prepared for a successful career. Read more...

Contact Information

- **Shelley Marshall** | skmarsha@kent.edu | 440-964-4348
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Database administrators and architects

- 9.7% much faster than the average
- 132,500 number of jobs
- $98,860 potential earnings

Network and computer systems administrators

- 4.3% about as fast as the average
- 373,900 number of jobs
- $84,810 potential earnings

Software developers and software quality assurance analysts and testers

- 21.5% much faster than the average
- 1,469,200 number of jobs
- $110,140 potential earnings

Additional Careers

- Cloud solutions architect
- Information security analyst

Concentration-specific careers

- **Application Development**
  - Full-stack developer
  - Mobile application developer
- **Cloud Visualization Technologies**
  - Cloud engineer
  - Virtualization administrator
- **Cybersecurity and Forensics**
  - Digital forensics analyst
  - Security consultant
- **Database Design and Administration**
  - Data analyst
  - Business intelligence developer
- **Health Information Technology**
  - Electronic health records (EHR) manager
  - Health IT specialist
- **Integrated Information Technology**
  - IT project manager
  - Systems analyst
- **Networking**
  - Infrastructure manager
  - Network engineer
- **Web Development**
  - Front-end engineer
  - UI/UX designer

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
IT 11004	SURVEY OF INFORMATION TECHNOLOGY	3
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
IT 11006	INTRODUCTION TO WEB SITE TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	3
IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	3
IT 13000	APPLIED SECURITY ESSENTIALS	3
IT 15000	FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY	3
IT 21002	NETWORK SETUP AND CONFIGURATION	3
IT 21003	SYSTEM ADMINISTRATION FOR INFORMATION TECHNOLOGY PROFESSIONALS	3
IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	3
IT 21009	SEMINAR IN INFORMATION TECHNOLOGY	3
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
IT 36308	ERGONOMICS AND USABILITY IN INFORMATION TECHNOLOGY	3
IT 36314	SEMINAR IN EMERGING COMPUTER AND INFORMATION TECHNOLOGIES	3
IT 36318	SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC) [1]	3
IT 36339	CLOUD AND VIRTUALIZATION TECHNOLOGIES IN INFORMATION TECHNOLOGY	3
IT 36340	HELP DESK SUPPORT	3
IT 42000	SOCIAL MEDIA SECURITY	3
TAS 37900	TECHNICAL AND APPLIED STUDIES CORNERSTONE	3
TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC) [1]	3
Additional Program Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		5
Concentrations		
Choose from the following:		18
Application Development		
Cloud and Virtualization Technologies		
Cybersecurity and Forensics		
Database Design and Administration		
Health Information Technology		
Integrated Information Technology		
Networking		
Web Development		
Minimum Total Credit Hours:		**120**

[1] Minimum C grade required to satisfy the writing-intensive requirement.

Application Development Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
IT 20030	VISUAL AND OBJECT-ORIENTED PROGRAMMING IN INFORMATION TECHNOLOGY	3
IT 30000	PYTHON PROGRAMMING IN INFORMATION TECHNOLOGY	3
IT 36304	C++ PROGRAMMING	3
IT 36305	C# PROGRAMMING	3
IT 36306	JAVA PROGRAMMING	3
IT 36309	PROGRAMMING MOBILE APPLICATIONS	3
or IT 46315	SQL WITH ORACLE	
Minimum Total Credit Hours:		**18**

Cloud and Virtualization Technologies Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
IT 36330	NETWORK SECURITY FUNDAMENTALS	3
IT 36355	COMMAND LINE UTILITIES	3
IT 41002	CLOUD TECHNOLOGY	3
IT 46311	TECHNOLOGY OF NETWORKING	3
IT 46313	VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION	3
IT 46331	NETWORK SECURITY AND FIREWALLS	3
Minimum Total Credit Hours:		**18**

Cybersecurity and Forensics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
IT 21200	ETHICAL HACKING	3
or IT 46313	VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION	

IT 36320	COMPUTER FORENSICS	3
IT 36321	NETWORK FORENSICS	3
IT 36330	NETWORK SECURITY FUNDAMENTALS	3
IT 46331	NETWORK SECURITY AND FIREWALLS	3
Concentration Elective, choose from the following:		3
IT 40000	CYBERSECURITY	
IT 46300	ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION	
IT 46313	VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION	
IT 46320	CLOUD FORENSICS	
Minimum Total Credit Hours:		**18**

Database Design and Administration Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
IT 21006	DATABASE PROGRAMMING	3
IT 36350	PROGRAMMING OFFICE PRODUCTIVITY APPLICATIONS	3
IT 46315	SQL WITH ORACLE	3
IT 46340	DATA DESIGN AND IMPLEMENTATION	3
IT 46350	DATABASE ADMINISTRATION AND REPORTING TOOLS	3
Concentration Elective, choose from the following:		3
IT 36330	NETWORK SECURITY FUNDAMENTALS	
IT 41010	MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY	
IT 41002	CLOUD TECHNOLOGY	
IT 43000	HEALTHCARE INFORMATION SYSTEMS	
Minimum Total Credit Hours:		**18**

Health Information Technology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
IT 31002	HEALTH INFORMATION TECHNOLOGY SUPPORT	3
IT 36330	NETWORK SECURITY FUNDAMENTALS	3
IT 41010	MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY	3
IT 43000	HEALTHCARE INFORMATION SYSTEMS	3
IT 46331	NETWORK SECURITY AND FIREWALLS	3
Concentration Elective, choose from the following:		3
IT 36396	CERTIFICATION PREPARATION IN INFORMATION TECHNOLOGY [1]	
IT 40000	CYBERSECURITY	
IT 41002	CLOUD TECHNOLOGY	
IT 46311	TECHNOLOGY OF NETWORKING	
IT 46313	VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION	
IT 46340	DATA DESIGN AND IMPLEMENTATION	
Minimum Total Credit Hours:		**18**

[1] Students may repeat IT 36396 for a maximum of 6 credit hours toward the concentration.

Integrated Information Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
IT 41010	MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY	3
Information Technology (IT) Electives		15
Minimum Total Credit Hours:		**18**

Networking Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
IT 21110	NETWORK ROUTING AND SWITCHING	3
IT 36330	NETWORK SECURITY FUNDAMENTALS	3
IT 46311	TECHNOLOGY OF NETWORKING	3
IT 46314	ADVANCED SERVER CONFIGURATION	3
IT 46331	NETWORK SECURITY AND FIREWALLS	3
Concentration Elective, choose from the following:		3
IT 36355	COMMAND LINE UTILITIES	
IT 36396	CERTIFICATION PREPARATION IN INFORMATION TECHNOLOGY [1]	
IT 46300	ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION	
IT 46313	VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION	
Minimum Total Credit Hours:		**18**

[1] Students may repeat IT 36396 for a maximum of 6 credit hours toward the concentration.

Web Development Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
IT 21006	DATABASE PROGRAMMING	3
IT 21011	TECHNIQUES OF MULTIMEDIA WEB DESIGN	3
IT 36303	DIGITAL IMAGE EDITING	3
IT 36309	PROGRAMMING MOBILE APPLICATIONS	3
IT 46303	DIGITAL VIDEO EDITING	3
IT 46315	SQL WITH ORACLE	3
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students may declare more than one concentration in the Information Technology major, provided that they complete minimum 12 credit hours of coursework unique to each concentration.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
IT 11004	SURVEY OF INFORMATION TECHNOLOGY	3
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
IT 11006	INTRODUCTION TO WEB SITE TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	3
IT 13000	APPLIED SECURITY ESSENTIALS	3
IT 15000	FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
IT 21002	NETWORK SETUP AND CONFIGURATION	3
IT 21003	SYSTEM ADMINISTRATION FOR INFORMATION TECHNOLOGY PROFESSIONALS	3
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
Concentration Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	3
IT 21009	SEMINAR IN INFORMATION TECHNOLOGY	3
Concentration Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
IT 36308	ERGONOMICS AND USABILITY IN INFORMATION TECHNOLOGY	3
IT 36318	SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC)	3
TAS 37900	TECHNICAL AND APPLIED STUDIES CORNERSTONE	3
Concentration Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Six		
IT 36339	CLOUD AND VIRTUALIZATION TECHNOLOGIES IN INFORMATION TECHNOLOGY	3
Concentration Requirements		6
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Seven		
IT 36340	HELP DESK SUPPORT	3
IT 42000	SOCIAL MEDIA SECURITY	3
Concentration Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Eight		
IT 36314	SEMINAR IN EMERGING COMPUTER AND INFORMATION TECHNOLOGIES	3
TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC)	3
Kent Core Requirement		3
General Elective		5
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify and evaluate current technologies and assess their applicability to address individual and organizational needs.
2. Develop a product, process or solution by applying knowledge of programming, scripting, web, digital media, database, human computer interaction, networking, cloud, virtualization and security tools.
3. Perform end-user support, including identifying and implementing solutions to user requests.
4. Explain implementation, integration and maintenance for IT applications to a wide range of audiences.
5. Work in diverse project teams to develop and/or implement IT-based solutions.
6. Apply professional ethics in IT solutions.
7. Engage in continuous learning, as well as research and assess new ideas and information to provide the capabilities for lifelong learning.

Full Description

The Bachelor of Science in Information Technology degree in Information Technology provides students with an applied approach that focuses on supporting end-users in a variety of workplace settings by utilizing a range of computing technologies. The degree program gives students the tools to support computing and network infrastructures and the needs of individuals and organizations; write programs necessary to help them render their tasks more efficiently on their desktop or mobile devices; utilize databases and write the web-based interfaces to pull the data; and code and deploy applications across the cloud.

Graduates are qualified to work in a wide range of computer and network infrastructures in small- to large-sized enterprises in such positions as web or software developer; hardware, network, cloud, virtualization technician or engineer; IT support specialist or consultant; help desk, network or IT project manager; security or forensic analyst; and systems, network or database administrator in all sectors of business, education, manufacturing, healthcare, non-profit and government.

The Information Technology major comprises the following concentrations:

- The **Application Development** concentration provides students with the ability to program in languages typically utilized in contemporary business environments. Students code in applications such as Visual Basic, C++, Java, C# and other industry-standard applications to develop programs employing event-driven and object-oriented techniques.
- The **Cloud and Virtualization Technologies** concentration gives students hands-on practice and competency in virtualization and cloud computing. In addition to gaining core IT skills, students focus on cloud technologies, virtual computer hardware platforms, networking, storage devices, security, scripting, emerging technologies, server administration and storage and infrastructure services.This concentration is for students who want to pursue a professional career in virtualization and cloud computing and prepare for industry-recognized certificates in the IT field.
- The **Cybersecurity and Forensics** concentration places an emphasis on security of computer and network systems, including forensic work to prevent and/or determine and correct security issues utilizing cybersecurity devices, procedures, tools and solutions.
- The **Database Design and Administration** concentration focuses on skills needed to become a database manager. Topics include relational database design; working with database servers, users and permissions; SQL statements used for queries and reports; and incorporating databases into programming used in web-based and desktop forms.
- The **Health Information Technology** concentration provides students with the tools to install, manage, troubleshoot and secure hardware and software systems in healthcare environments. The course of study includes health IT privacy, security, EHR Implementation and support, mobile device management, technology and application life-cycle management, organizational behavior, medical business operations and regulatory requirements.
- The **Integrated Information Technology** concentration is ideal for students who want a flexible course of study for positions that require IT staff to perform a wide range of technical duties.
- The **Networking** concentration focuses on configuring and maintaining network information systems and components in various network operating system and cloud computing environments that are prevalent in today's businesses. The emphasis is on network administration (i.e. managing Active Directory and network services), servers, workstations, virtualization, security, troubleshooting, installation and maintenance.
- The **Web Development** concentration focuses on scripting; server-side form handling; web database integration; and interactive and dynamic multimedia Internet development.

Insurance Studies - B.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Gain a competitive edge with Kent State's B.S. in Insurance Studies. Prepare for a career in the dynamic field of insurance with hands-on training and expert guidance. From risk management to underwriting, this program prepares you for a range of roles. Enroll now and take the first step toward a rewarding career. Read more...

Contact Information

- **Linda Ruse** | lruse@kent.edu | 330-332-0361
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Claims adjusters, examiners, and investigators

- -6.4% decline
- 332,900 number of jobs
- $68,270 potential earnings

Insurance appraisers, auto damage

- -4.0% decline
- 15,900 number of jobs
- $65,550 potential earnings

Insurance sales agents

- 5.5% faster than the average
- 501,300 number of jobs
- $52,180 potential earnings

Insurance underwriters

- -6.2% decline
- 114,700 number of jobs
- $71,790 potential earnings

Market research analysts and marketing specialists

- 17.7% much faster than the average
- 738,100 number of jobs
- $65,810 potential earnings

Operations research analysts

- 24.8% much faster than the average
- 105,100 number of jobs
- $86,200 potential earnings

Actuaries

- 17.6% much faster than the average
- 27,700 number of jobs
- $111,030 potential earnings

Marketing managers

- 6.7% faster than the average
- 286,300 number of jobs
- $142,170 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ENG 30063	PROFESSIONAL WRITING	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
INS 29000	INTRODUCTION TO INSURANCE AND RISK	3
INS 39000	INSURANCE LAW, FINANCE AND RISK MANAGEMENT	3
INS 39001	INSURANCE OPERATIONS (WIC) [1]	3
INS 49000	LIFE AND HEALTH INSURANCE	3
INS 49001	PERSONAL LINES INSURANCE	3
INS 49002	COMMERCIAL INSURANCE	3
INS 49092	INSURANCE PRACTICUM GENERAL (ELR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Upper-Division Electives, choose from the following: [2]		12
COMM 35864	ORGANIZATIONAL COMMUNICATION	
COMM 45807	HIGH IMPACT PROFESSIONAL SPEAKING	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
PSYC 30821	PSYCHOLOGY OF MOTIVATION	
PSYC 31773	INDUSTRIAL PSYCHOLOGY	
PSYC 41581	HEALTH PSYCHOLOGY	
SOC 42558	WEALTH, POVERTY AND POWER	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SOC 42879	AGING IN SOCIETY (DIVD)	

TAS 37900	TECHNICAL AND APPLIED STUDIES CORNERSTONE	
Major Electives, choose from the following: [2]		6
COMM 20001	INTERPERSONAL COMMUNICATION	
COMM 35864	ORGANIZATIONAL COMMUNICATION	
COMM 45807	HIGH IMPACT PROFESSIONAL SPEAKING	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
OTEC 16620	WORD PROCESSING I	
OTEC 16625	BUSINESS PRESENTATIONS	
OTEC 16639	DATABASE APPLICATIONS	
OTEC 26611	SPREADSHEET APPLICATIONS	
OTEC 26622	DESKTOP PUBLISHING I	
PSYC 30821	PSYCHOLOGY OF MOTIVATION	
PSYC 31773	INDUSTRIAL PSYCHOLOGY	
PSYC 41581	HEALTH PSYCHOLOGY	
SOC 42558	WEALTH, POVERTY AND POWER	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SOC 42879	AGING IN SOCIETY (DIVD)	
TAS 37900	TECHNICAL AND APPLIED STUDIES CORNERSTONE	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
Non-Business and Non-Applied Business Electives (total credit hours depends on earning 90 credit hours, including 39 upper-division credit hours) [2]		11
Minimum Total Credit Hours:		**90**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Students should work with an academic advisor when choosing major or general electives to ensure they reach the minimum requirement of 39 upper division credit hours. Courses with the subject ACCT, ACTT, BA, BMRT, BUS, CIS, ECON, ENTR, FIN, HRM, IT and MKTG **cannot** count as major electives or non-business/non-applied business electives.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	UC 10001	FLASHES 101	1
	Major Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	INS 29000	INTRODUCTION TO INSURANCE AND RISK	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	INS 39000	INSURANCE LAW, FINANCE AND RISK MANAGEMENT	3
	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Major Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	ENG 30063	PROFESSIONAL WRITING	3
!	INS 39001	INSURANCE OPERATIONS (WIC)	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Upper-Division Electives		6
		Credit Hours	**15**
	Semester Five		
	INS 49001	PERSONAL LINES INSURANCE	3
	INS 49002	COMMERCIAL INSURANCE	3
	INS 49092	INSURANCE PRACTICUM GENERAL (ELR)	3
	Upper-Division Elective		3
	Non-Business/Non-Applied Business Elective		3
		Credit Hours	**15**
	Semester Six		
	INS 49000	LIFE AND HEALTH INSURANCE	3
	Upper-Division Elective		3
	Non-Business/Non-Applied Business Electives		8
		Credit Hours	**14**
		Minimum Total Credit Hours:	**90**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	

Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate in-depth knowledge of the insurance industry.
2. Analyze and critically assess problems facing the insurance industry.
3. Identify and assess legal and ethical issues surrounding insurance industry decisions.
4. Demonstrate the ability to lead and productively participate in group situations.

Full Description

The Bachelor of Applied Studies degree in Insurance Studies provides students with the academic background for career entry in the insurance industry. The program offers a well-rounded core that includes courses in social sciences, professional writing and human communications.

Building on this core curriculum are courses that provide the opportunity for students to explore all lines of insurance, including personal lines, commercial lines, life and health insurance. Students reinforce their insurance industry knowledge and gain real-world experience through an internship or project experience.

The knowledge gained in the insurance program permits students to join any organization within the insurance industry with a solid understanding of applicable products, regulations, operations and policy contracts. Students graduate with knowledge of several specific insurance industry facets, such as property and casualty insurance, life and health insurance, insurance company and agency operations, insurance regulation, insurance finance and risk management.

Insurance Studies - Minor

College of Applied and Technical Studies

www.kent.edu/cats

About This Program

The Insurance Studies minor has been designed so students from many disciplines can complement their major and develop the skills necessary to enter this industry. The insurance industry offers career opportunities for graduates from a wide variety of majors and provides great employment opportunities. Some of the positions include accountants, adjustors, actuaries, agents, IT specialists, investigators, underwriters, nurses, sales and operations managers.

Contact Information

- **Linda Ruse** | lruse@kent.edu | 330-332-0361
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - Fully online

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
INS 29000	INTRODUCTION TO INSURANCE AND RISK	3
INS 39000	INSURANCE LAW, FINANCE AND RISK MANAGEMENT	3
INS 39001	INSURANCE OPERATIONS (WIC)	3
or INS 49000	LIFE AND HEALTH INSURANCE	
or INS 49001	PERSONAL LINES INSURANCE	
or INS 49002	COMMERCIAL INSURANCE	
Minor Electives, choose from the following:		9
BMRT 11000	INTRODUCTION TO BUSINESS [1]	
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY [2]	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
MKTG 35046	PROFESSIONAL SELLING	
Minimum Total Credit Hours:		**18**

[1] Students may substitute BUS 10123 for BMRT 11000.
[2] Students may substitute MGMT 24163 for BMRT 11009.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Magnetic Resonance Imaging - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

This program offers specialized training in magnetic resonance imaging, equipping you with the knowledge and hands-on experience needed to excel in the field. With a flexible, online format and experienced faculty, you can complete the program on your schedule and take the next step towards advancing your medical imaging career. Read more...

Contact Information

- **Sherry DeWitt** | sdewitt@kent.edu | 440-337-4227
- **Kelly Dragomir, M.A. R.T. (R)(CT)** (Radiologic Technology, CT and MRI) | kadragom@kent.edu | 330-337-4129
- Chat with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Salem Campus

Admission Terms

- Fall

Examples of Possible Careers and Salaries*

Magnetic resonance imaging technologists

- 7.0% faster than the average
- 38,700 number of jobs
- $74,690 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Admission to this program is selective. Applicants must have graduated from a program in radiologic technology, diagnostic medical sonography, nuclear medicine or radiation therapy and be a registered or registry-eligible radiologic technologist, diagnostic medical sonographer, nuclear medicine technologist or a radiation therapist. Applicants must have a minimum 2.50 overall GPA prior to program entry.

The program begins in fall with an application deadline of July 1 each year.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements [1]		
RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I (min C grade)	2
RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II (min C grade)	2
RIS 44031	PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING (min C grade)	2
RIS 44044	MAGNETIC RESONANCE IMAGING PROCEDURES I (min C grade)	2
RIS 44045	MAGNETIC RESONANCE IMAGING PROCEDURES II (min C grade)	2
RIS 44051	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I (min C grade)	2
RIS 44052	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II (min C grade)	2
Clinical Electives, choose from the following:		4
RIS 44003	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION I	
RIS 44063	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION II	
RIS 44092	COMPUTED TOMOGRAPHY/MAGNETIC RESONANCE INTERNSHIP (ELR)	
Minimum Total Credit Hours:		**18**

[1] Students are encouraged to register for the following courses during summer term: RIS 44066 is a review course for the national certification exam. RIS 44073 allows students to gain added experience in MRI and to complete required clinical competencies for the ARRT exam. The courses are not required to graduate with the certificate.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

- All clinical education courses must be completed and with successful passage of all required clinical competencies.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as

critical (!) must be completed in the semester listed to ensure a timely graduation.

Fall Semester		**Credits**
RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
RIS 44031	PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING	2
RIS 44044	MAGNETIC RESONANCE IMAGING PROCEDURES I	2
RIS 44051	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I	2
Clinical Elective		2
	Credit Hours	**10**
Spring Semester		
RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
RIS 44045	MAGNETIC RESONANCE IMAGING PROCEDURES II	2
RIS 44052	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II	2
Clinical Elective		2
	Credit Hours	**8**
Summer Term		
Optional courses		
RIS 44066	MAGNETIC RESONANCE IMAGING TECHNIQUES	
RIS 44073 or RIS 44092	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION III or COMPUTED TOMOGRAPHY/MAGNETIC RESONANCE INTERNSHIP (ELR)	
	Credit Hours	**0**
	Minimum Total Credit Hours:	**18**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge to the practice of magnetic resonance imaging.
2. Effectively utilize critical thinking, problem-solving and decision-making skills in the practice of magnetic resonance imaging.
3. Effectively communicate in oral and written form with patients, customers and all members of the health care team.
4. Successfully perform magnetic resonance imaging procedures and attain results of high diagnostic value while providing patient care.
5. Exhibit personal and professional attributes and values relevant to the practice of magnetic resonance imaging.

Full Description

The Magnetic Resonance Imaging undergraduate certificate program provides coursework in anatomy, patient management, procedures and image production. Students observe magnetic resonance imaging procedures, perform procedures under direct supervision by registered technologists and complete required clinical competencies toward the national certification exam for magnetic resonance imaging or to be applied toward continuing education requirements as deemed by the American Registry of Radiologic Technologists (ARRT).

Magnetic resonance imaging (MRI) scans are ordered on orthopedic, neurological, cardiovascular, cancer and non-trauma patients and is extremely beneficial for examining soft tissue structures. An MRI technologist works in hospitals or outpatient healthcare facilities using an MRI scanner that uses a magnetic field and computer-generated radio waves to create detailed images of the organs and tissues in the body. The images are assembled and reconstructed digitally to create a series of diagnostic images that physicians use to interpret for a patient diagnosis.

The Magnetic Resonance Imaging certificate offers a seamless transfer pathway into the Bachelor of Radiologic Imaging Sciences Technology degree. Students are able to complete the certificate, sit for the national certification exam, begin working in the profession and then enroll in the B.R.I.T. degree and complete the remaining requirements to earn the bachelor's degree.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Mammography - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Start your career in Mammography with Kent State's undergraduate certificate program. Gain the knowledge and skills needed to excel in the field with our rigorous coursework, hands-on training, and experienced faculty. With a focus on patient care and advanced technology, our program prepares you to make a difference in the lives of others. Enroll now and take the first step towards a fulfilling career in mammography. Read more...

Contact Information

- **Tammy McClish, M.Ed., R.T. (R)(M)(QM)(BD)(ARRT)** | tmcclis1@kent.edu | 440-964-4321
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery**
  - Fully Online

Examples of Possible Careers and Salaries*

Radiologic technologists and technicians

- 6.7% faster than the average
- 212,000 number of jobs
- $61,900 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment

over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Mammography certificate is selective. Applicants must be a registered radiologic technologist (ARRT) or in their second year of an accredited radiologic technology degree program.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
RADT 25010	MAMMOGRAPHIC EQUIPMENT, QUALITY ASSURANCE AND PROCEDURES (min C grade)	3
RADT 25011	MAMMOGRAPHIC POSITIONING AND PATIENT CARE (min C grade)	3
RADT 25092	MAMMOGRAPHY CLINICAL (ELR) (min C grade) [1]	2
Minimum Total Credit Hours:		**8**

[1] Required clinical experiences will be in-person at an assigned health care facility.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
RADT 25010	MAMMOGRAPHIC EQUIPMENT, QUALITY ASSURANCE AND PROCEDURES	3
	Credit Hours	**3**
Semester Two		
RADT 25011	MAMMOGRAPHIC POSITIONING AND PATIENT CARE	3
	Credit Hours	**3**
Semester Three		
RADT 25092	MAMMOGRAPHY CLINICAL (ELR)	2
	Credit Hours	**2**
	Minimum Total Credit Hours:	**8**

Program Learning Requirements

Graduates of this program will be able to:

1. Effectively utilize critical thinking and problem-solving skills when performing mammographic procedures.
2. Communicate effectively in oral and written form with patients, families and members of the health care team.
3. Perform mammographic procedures successfully and consistently with entry-level requirements of a registered mammographer.
4. Determine the value of professional growth and development and conduct themselves in a professional manner.

Full Description

The Mammography undergraduate certificate program provides education and training in digital mammography. Mammography is specialized medical imaging that is critical to early detection and diagnosis of breast diseases in women. Technologists, also known as mammographers, are members of breast-imaging teams within health care organizations. Using low-dose x-rays, mammographers image breasts to help physicians look for or track the progress of cancer or benign growths and determine treatment. Mammographers work in hospitals, physician's offices and other healthcare facilities.

The Mammography certificate meets requirements set by the Mammography Quality Standards Act (MQSA) for minimum didactic and clinical standards for mammographers. Graduates of the certificate are eligible to earn certification in mammography from the American Registry of Radiologic Technologists (ARRT).

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Mechanical Engineering Technology - A.A.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Looking to jump-start your career in engineering? The Associate of Applied Science in Mechanical Engineering Technology provides you with the technical skills and knowledge needed to succeed in a wide range of mechanical engineering roles. With hands-on training, experienced faculty, and industry-standard tools, you'll gain practical experience and be ready to hit the ground running in the industry. Read more...

Contact Information

- **Paul Dykshoorn** | pdykshoo@kent.edu | 330-308-7475
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location**
  - Trumbull Campus
  - Tuscarawas Campus

Examples of Possible Careers*

Calibration technologists and technicians and engineering technologists and technicians, except drafters, all other

- 2.1% slower than the average
- 91,600 number of jobs
- $64,190 potential earnings

Electro-mechanical and mechatronics technologists and technicians

- 3.0% about as fast as the average
- 14,600 number of jobs
- $59,800 potential earnings

Mechanical drafters

- -8.3% decline
- 57,500 number of jobs
- $58,270 potential earnings

Mechanical engineering technologists and technicians

- 3.1% about as fast as the average
- 43,500 number of jobs
- $58,230 potential earnings

Additional Careers

- Engineering technician
- Design specialist
- Mechanical Designer
- Project Engineer

Accreditation

The A.A.S. degree in Mechanical Engineering Technology (Tuscarawas Campus only) is accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
EERT 22014	MICROPROCESSORS AND ROBOTICS	3
ENGT 23099	ENGINEERING TECHNOLOGY DESIGN PROJECT (ELR)	3
MERT 12000	ENGINEERING DRAWING	3
MERT 12001	COMPUTER-AIDED DESIGN	3
MERT 12004	MANUFACTURING PROCESSES	3
MERT 12005	PROPERTIES OF MATERIALS	3
MERT 22003	COMPUTER-AIDED TOOL DESIGN	3
MERT 22005	STATICS	3
MERT 22007	STRENGTH OF MATERIALS	3
MERT 22012	FLUID POWER	3
Additional Requirements (courses do not count in major GPA)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
or OTEC 26638	BUSINESS COMMUNICATIONS	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
OTEC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	1
UC 10001	FLASHES 101	1
Physics Elective A, choose from the following:		3-5
PHY 12201	TECHNICAL PHYSICS I (KBS) (KLAB)	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
Physics Elective B, choose from the following:		3-5
PHY 12202	TECHNICAL PHYSICS II (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 13012 & PHY 13022	COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	

Kent Core Composition	3
Kent Core Humanities and Fine Arts	3
Kent Core Social Sciences	3
Minimum Total Credit Hours:	**62**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
!	MERT 12000	ENGINEERING DRAWING	3
!	MERT 12004	MANUFACTURING PROCESSES	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	MATH 11022	TRIGONOMETRY (KMCR)	3
!	MERT 12001	COMPUTER-AIDED DESIGN	3
!	MERT 12005	PROPERTIES OF MATERIALS	3
	MERT 22012	FLUID POWER	3
		Credit Hours	**15**
	Semester Three		
!	EERT 22014	MICROPROCESSORS AND ROBOTICS	3
	MATH 11012	INTUITIVE CALCULUS (KMCR)	3
!	MERT 22003	COMPUTER-AIDED TOOL DESIGN	3
!	MERT 22005	STATICS	3
	Physics Elective A		3-5
		Credit Hours	**15**
	Semester Four		
	ENG 20002 or OTEC 26638	INTRODUCTION TO TECHNICAL WRITING or BUSINESS COMMUNICATIONS	3
	ENGT 23099	ENGINEERING TECHNOLOGY DESIGN PROJECT (ELR)	3
!	MERT 22007	STRENGTH OF MATERIALS	3
	OTEC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	1
	Physics Elective B		3-5
	Kent Core Requirement		3
		Credit Hours	**16**
		Minimum Total Credit Hours:	**62**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply the knowledge, techniques, skills and modem tools of mathematics, science, engineering and technology to solve mechanical engineering technology problems that require limited application of principles but extensive practical knowledge.
2. Design solutions for well-defined mechanical engineering technology problems and assist with the design of systems, components or processes for solving broad mechanical engineering technology problems.
3. Apply written, oral and graphical communication in both technical and non-technical environments, and proficiently use technical reference material.
4. Conduct standard tests, measurements and experiments and analyze and interpret the results.
5. Function effectively as a member of a technical team.
6. Understand and commit to address professional and ethical responsibilities, including a respect for diversity.

Full Description

The Associate of Applied Science degree in Mechanical Engineering Technology provides students with knowledge and skills in the manufacturing areas related to computer-controlled equipment and integrated manufacturing. Students learn drafting, materials testing, robotics applications and computer-aided design (CAD) and computer-aided manufacturing (CAM) software for design and design documentation.

The degree program articulates into Kent State's Bachelor of Science degree in Engineering Technology.

Medical Assisting - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Medical Assisting undergraduate certificate provides you with the knowledge and skills needed to succeed in this fast-growing field. With experienced faculty, hands-on training, and a focus on real-world applications, you'll be prepared for a rewarding career as a medical assistant. Enroll now and take the first step towards a brighter future in healthcare. Read more...

Contact Information

- **Katie Sanguedolce** | kblaha@kent.edu | 440-834-4187
- Speak with an Advisor
  - Ashtabula Campus
  - Geauga Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**

- Ashtabula Campus
- Geauga Campus

Examples of Possible Careers and Salaries*

Healthcare support workers, all other

- 6.9% faster than the average
- 96,900 number of jobs
- $39,530 potential earnings

Additional Careers

- Front desk coordinator/receptionist

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Transfer students or current Kent State students declaring the program must have a minimum 2.000 GPA for admission.

Prior to acceptance into the program, each applicant must meet with the program director to review program prerequisites and requirements.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements (min C grade in all courses)		
AHS 24010	MEDICAL TERMINOLOGY	1
or HED 14020	MEDICAL TERMINOLOGY	
BSCI 10001	HUMAN BIOLOGY (KBS)	3
or BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
MA 10001	FUNDAMENTALS OF MEDICAL ASSISTING	1
MA 10002	MEDICATION ADMINISTRATION FOR MEDICAL ASSISTANTS	1
MA 10003	PHLEBOTOMY FOR MEDICAL ASSISTANTS	1
MA 10004	ELECTROCARDIOGRAM FUNDAMENTALS FOR MEDICAL ASSISTANTS	1
MA 10005	BASIC CLINICAL MEDICAL ASSISTING PROCEDURES	3
MA 10006	REIMBURSEMENT FOR PHYSICIAN SERVICES	3
MA 10007	ADVANCED CLINICAL MEDICAL ASSISTING	4
MA 10092	MEDICAL ASSISTING PRACTICUM (ELR) [1]	3
OTEC 26635	ADMINISTRATIVE RESOURCE MANAGEMENT	3
Minimum Total Credit Hours:		**24**

[1] Students must be 18 years old or older prior to enrolling in the clinical practicum experience course.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum C grade required in all courses.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1
BSCI 10001 or BSCI 11010	HUMAN BIOLOGY (KBS) or FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
	Credit Hours	**4**
Semester Two		
MA 10001	FUNDAMENTALS OF MEDICAL ASSISTING	1
MA 10002	MEDICATION ADMINISTRATION FOR MEDICAL ASSISTANTS	1
MA 10003	PHLEBOTOMY FOR MEDICAL ASSISTANTS	1
MA 10004	ELECTROCARDIOGRAM FUNDAMENTALS FOR MEDICAL ASSISTANTS	1
MA 10005	BASIC CLINICAL MEDICAL ASSISTING PROCEDURES	3
OTEC 26635	ADMINISTRATIVE RESOURCE MANAGEMENT	3
	Credit Hours	**10**
Semester Three		
MA 10006	REIMBURSEMENT FOR PHYSICIAN SERVICES	3
MA 10007	ADVANCED CLINICAL MEDICAL ASSISTING	4
MA 10092	MEDICAL ASSISTING PRACTICUM (ELR)	3
	Credit Hours	**10**
	Minimum Total Credit Hours:	**24**

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify, administer and document medications safely utilizing the six rights.
2. Collect and process and diagnostic specimens with appropriate documentation and follow up.
3. Apply current up-to-date quality control and safety principles in the workplace.
4. Skillfully perform and document routine clinical procedures.
5. Perform and document routine administrative procedures.
6. Effectively utilize verbal, nonverbal and written communication principles and skills in the workplace.
7. Maintain ethical and legal standards and maintain confidentiality and patient privacy.
8. Communicate with professionalism in the medical assistant role and function as a valued member of the health care team.
9. Effectively utilize the electronic health record for documentation and insurance purposes.
10. Identify medical law and regulatory guidelines as it pertains to the ambulatory setting.

Full Description

The Medical Assisting undergraduate certificate prepares graduates to gain knowledge needed for the national certification examinations. Medical assistants work alongside physicians, mainly in outpatient or ambulatory care facilities, such as medical offices and clinics. They perform administrative and clinical duties in addition to serving as a patient liaison and a member of the Patient-Centered Medical Home team.

The certificate's curriculum is guided by national standards and covers 12 content areas: anatomy and physiology, applied mathematics, infection control, nutrition, communication, administrative functions, basic practices finances, third-party reimbursement, procedural and diagnostic coding, legal implications, ethical considerations and protective practices.

Medical Billing - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Medical Billing undergraduate certificate provides a basic understanding of software, medical terminology, coding and procedures used in medical settings such as hospitals, clinics, doctors' offices and outsourcing facilities involved with providing billing operations. The certificate prepares students for the Certified Coding Associate exam from the American Health Information Management Association (AHIMA).

Contact Information

- **John Baker** | jbaker96@kent.edu | 330-308-7570
- Speak with an Advisor
  - Salem Campus
  - Tuscarawas Campus
  - Online (any campus above)
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Medical secretaries and administrative assistants

- 9.5% much faster than the average
- 623,400 number of jobs
- $37,350 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
BSCI 10001	HUMAN BIOLOGY (KBS) [1]	3
HED 14020	MEDICAL TERMINOLOGY	3
OTEC 16639	DATABASE APPLICATIONS	3
OTEC 26638	BUSINESS COMMUNICATIONS	3
OTEC 26650	MEDICAL BILLING PROCEDURES (ELR)	3
OTEC 26655	ICD CODING	3
OTEC 26656	CURRENT PROCEDURAL TERMINOLOGY (CPT) CODING	3
Minimum Total Credit Hours:		**21**

[1] BSCI 11010 or BSCI 21010 may be used to fulfill the requirement.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

- Students must complete a minimum of 15 credit hours of the certificate curriculum at Kent State University.
- Transfer credits may be used as long as letter grade appear on original transcript.

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply current procedural (CPT) and diagnostic (ICD) codes based on medical documentation.
2. Identify and define specific medical terminology in relation to a specific disease or diagnostic procedure.
3. Know and understand laws, regulations and guidelines, including compliance with HIPAA related to medical billing.
4. Create a hypothetical health insurance claim form for medical reimbursement.
5. Apply a variety of computer skills necessary to prepare documents related to coding and billing in healthcare settings.
6. Apply oral and written communications skills — including letters, email, memos, telephone and video — with interactions related to insurance companies, physicians and other health care professionals.
7. Demonstrate the ability to be successful as a team member as part of a diverse environment.

Modeling and Animation - Minor

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Modeling and Animation minor provides students with an understanding of and skills to create: parametric models, 2D graphics, UV texturing, character and environment modeling, lighting and rendering, as well as animation.

Contact Information

- **Lori Bears** | lbears@kent.edu | 330-308-7438
  Chris Totten | ctotten@kent.edu
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
  - Tuscarawas Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus
  - Tuscarawas Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
AGD 11003	SOLID MODELING	3
AGD 12000	TWO DIMENSION GRAPHICS	3
AGD 12001	MODELING AND TEXTURING I	3
AGD 22004	MODELING AND TEXTURING II	3
AGD 22010	DIGITAL SCULPTING	3
AGD 34000	CHARACTER ANIMATION	3
AGD 34001	ANIMATION PROJECT	3
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Nursing ADN - A.A.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Our Associate of Applied Science in Nursing equips you with the skills and knowledge needed to make a difference in the healthcare industry. With experienced faculty, state-of-the-art facilities and clinical opportunities, you'll gain hands-on experience and prepare for a fulfilling career as a registered nurse. Enroll now and take the first step toward becoming a healthcare professional. Read more...

Contact Information

- **Julie Senita, Ph.D., M.S.N., RN, CNE** | jsenita@kent.edu
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center

Examples of Possible Careers and Salaries*

Registered nurses

- 7.2% faster than the average
- 3,096,700 number of jobs
- $75,330 potential earnings

Accreditation

The associate degree in nursing at Kent State University is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3390 Peachtree Road NE, Suite 1400 Atlanta, GA 30326, (404) 975-5000. The most recent accreditation decision made by the ACEN Board of Commissioners is "continuing accreditation." View the public information disclosed by the ACEN regarding this program at https://www.acenursing.org/acen-programs-05202024/kent-state-university. Information on Student Achievement Data, including NCLEX-RN pass rates and program completion rates, are available.

The A.A.S. degree in Nursing ADN has full approval by the Ohio Board of Nursing.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA; min C grade required in all courses)		
NRST 10014	PHARMACOLOGY FOR NURSING I	1
NRST 20015	MENTAL HEALTH NURSING	3
NRST 20022	NURSING II	6
NRST 20023	NURSING III	6
NRST 20214	PHARMACOLOGY FOR NURSING II	2
NRST 20217	MATERNAL CHILD AND FAMILY NURSING	4
NRST 20219	TRANSITION TO NURSING PRACTICE	2
Additional Requirements (courses do not count in major GPA; min C/S grade required in all courses)		
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) [1]	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) [1]	3
BSCI 20021	BASIC MICROBIOLOGY	3-4
or BSCI 30171	GENERAL MICROBIOLOGY	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS) [1]	3
or NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Additional Requirements or Concentrations		
Choose from the following:		15
Additional Requirements for Students Not Declaring a Concentration		
LPN to ADN Concentration		

Paramedic to ADN Concentration	
Minimum Total Credit Hours:	**64**

[1] Students who have successfully completed BSCI 21010 and BSCI 21020 or (ATTR 25057 and ATTR 25058) or (EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA; min C grade required in all courses)		
NRST 10011	FUNDAMENTALS OF NURSING	5
NRST 10012	PROFESSIONAL COMMUNICATION FOR NURSING	1
NRST 10013	NURSING I	6
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS [1]	3
Minimum Total Credit Hours:		**15**

[1] NURS 20950 must be completed within the past five years prior to admission to the program and a minimum C grade must be earned.

LPN to ADN Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
NRST 10016	LPN TO ADN TRANSITION (min C grade)	3
Upon successful completion of NRST 10016, students are awarded credit (no grade) for NRST 10011, NRST 10012 and NRST 10013. NURS 20950 will be waived.		12
Minimum Total Credit Hours:		**15**

Paramedic to ADN Concentrations Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
NRST 10018	PARAMEDIC TO ADN TRANSITION (min C grade)	5
Upon successful completion of NRST 10018, students are awarded credit (no grade) for NRST 10012, NRST 10013 and NURS 20950. NRST 10011 will be waived.		10
Minimum Total Credit Hours:		**15**

Progression Requirements

To be able to register for Nursing Technology (NRST) courses, students must be accepted to technical study. Acceptance is a selective process. Criteria for acceptance are the following:

- Minimum 2.700 overall GPA
- Minimum C grade in high school or college-level courses in algebra, biology and chemistry
- Completion of developmental coursework prescribed by placement testing
- Completion of the Associate Degree in Nursing Program Application

A NSRT course may be repeated one time for a total of two attempts, but the student may only apply for reentry one time to the A.A.S. degree in Nursing.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Minimum C grade in theory and a designation of "passing" for performance in the clinical area (if applicable) must be achieved for each nursing course.
- Minimum C grade in all required courses, including developmental courses.

Roadmaps

Nursing Major (No Concentration)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
NRST 10011	FUNDAMENTALS OF NURSING	5
NRST 10012	PROFESSIONAL COMMUNICATION FOR NURSING	1
NRST 10014	PHARMACOLOGY FOR NURSING I	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
	Credit Hours	**17**
Semester Two		
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
NRST 10013	NURSING I	6
NRST 20015	MENTAL HEALTH NURSING	3
NRST 20214	PHARMACOLOGY FOR NURSING II	2
NUTR 23511 or NUTR 33512	SCIENCE OF HUMAN NUTRITION (KBS) or INTERMEDIATE NUTRITION SCIENCE	3
	Credit Hours	**17**
Semester Three		
BSCI 20021	BASIC MICROBIOLOGY	3
NRST 20022	NURSING II	6
NRST 20217	MATERNAL CHILD AND FAMILY NURSING	4
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	3
	Credit Hours	**16**
Semester Four		
NRST 20023	NURSING III	6
NRST 20219	TRANSITION TO NURSING PRACTICE	2
Kent Core Requirement		6
	Credit Hours	**14**
	Minimum Total Credit Hours:	**64**

LPN to ADN Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
	Credit Hours	**10**
Semester Two		
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
NRST 10014	PHARMACOLOGY FOR NURSING I	1
NRST 10016	LPN TO ADN TRANSITION	3
NUTR 23511 or NUTR 33512	SCIENCE OF HUMAN NUTRITION (KBS) or INTERMEDIATE NUTRITION SCIENCE	3
Kent Core Requirement		3
Upon successful completion of NRST 10016, students are awarded credit (no grade) for NRST 10011, NRST 10012 and NRST 10013. NURS 20950 will be waived.		12
	Credit Hours	**25**
Semester Three		
NRST 20015	MENTAL HEALTH NURSING	3
NRST 20214	PHARMACOLOGY FOR NURSING II	2
	Credit Hours	**5**
Semester Four		
BSCI 20021	BASIC MICROBIOLOGY	3
NRST 20022	NURSING II	6
NRST 20217	MATERNAL CHILD AND FAMILY NURSING	4
	Credit Hours	**13**
Semester Five		
NRST 20023	NURSING III	6
NRST 20219	TRANSITION TO NURSING PRACTICE	2
Kent Core Requirement		3
	Credit Hours	**11**
	Minimum Total Credit Hours:	**64**

Paramedic to ADN Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
	Credit Hours	**7**
Semester Two		
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
NRST 10014	PHARMACOLOGY FOR NURSING I	1
NRST 10018	PARAMEDIC TO ADN TRANSITION	5
NUTR 23511 or NUTR 33512	SCIENCE OF HUMAN NUTRITION (KBS) or INTERMEDIATE NUTRITION SCIENCE	3
Upon successful completion of NRST 10018, students are awarded credit (no grade) for NRST 10012, NRST 10013 and NURS 20950. NRST 10011 will be waived.		10
Kent Core Requirement		3
	Credit Hours	**25**
Semester Three		
NRST 20015	MENTAL HEALTH NURSING	3
NRST 20214	PHARMACOLOGY FOR NURSING II	2
Kent Core Requirement		3
	Credit Hours	**8**
Semester Four		
BSCI 20021	BASIC MICROBIOLOGY	3
NRST 20022	NURSING II	6
NRST 20217	MATERNAL CHILD AND FAMILY NURSING	4
	Credit Hours	**13**
Semester Five		
NRST 20023	NURSING III	6
NRST 20219	TRANSITION TO NURSING PRACTICE	2
Kent Core Requirement		3
	Credit Hours	**11**
	Minimum Total Credit Hours:	**64**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
	Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Kent Core (see table below)		15
Total Credit Hour Requirement		60
	Some associate degrees require students to complete more than 60 credit hours.	

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Provide safe and effective nursing care which respects patient values, cultures and beliefs.
2. Demonstrate effective communication and collaboration with patients, families, caregivers and health care team members.
3. Demonstrate leadership and the ability to manage nursing care in a professional manner following legal and ethical guidelines.
4. Use quality improvement data and current evidence for delivery of optimal nursing care.
5. Use technology to communicate, manage knowledge and support decision-making.

Program Policies

Program and Course Withdrawal

Students withdrawing from the Nursing ADN major are expected to notify the program director. Students who do not register for any required course or drop any required course after registration should notify the program director immediately.

Program Time Limits

Student must complete the nursing course requirements within a maximum of four years after admission to the nursing program. Students are strongly advised to avoid a full-time work schedule.

For students previously in the Nursing ADN major who re-enter as a licensed practical nurse (LPN) or certified paramedic, their four-year limit begins the the term they start the NRST course sequence.

Readmission

Readmission to the Nursing ADN major is based on the decision of the Readmission Committee and seat availability. Readmission is not guaranteed to any student.

Students who left the major before earning the degree and are now a licensed practical nurse (LPN) or a certified paramedic may request readmission through the Advanced Placement Policies for LPNs and Paramedics.

Eligibility for Readmission

To be eligible for readmission, students must satisfy the following requirements:

- Meet with the Nursing ADN program director as soon as possible — after the end of the semester in which the student withdrew or failed and prior to the start of the next semester — to discuss the readmission process and policies.
- Hold a minimum 2.000 overall GPA from Kent State University.
- Submit a formal request in writing to the Nursing ADN program director. The submission deadlines are:
  - June 1 for returning in the fall semester
  - November 1 for returning in the spring semester at the East Liverpool and Tuscarawas campuses and the Twinsburg Academic Center
  - December 31 for returning in the spring semester at the Ashtabula Campus
  - March 1 for returning in the summer term
- Submit a detailed plan for academic success. The plan must address, in detail, why the student was not successful during the previous attempt, and how the student intends to be successful if readmitted. The student must sign the plan; it will become a contract that the student must follow throughout the remainder of the nursing program.
- For readmitted students who have been out of the program more than one semester: Follow the Nursing Clinical Requirements Policy for Readmitted Students.
- For readmitted students who have been out of the program more than one semester: Demonstrate satisfactory performance of previously learned skills. Students will have three attempts to demonstrate competency. The deadline for completing these skills as required are:
  - July 1 for returning in the fall semester
  - December 1 for returning in the spring semester
  - April 1 for returning in the summer term

After Readmission

- Readmitted students who fail an NRST course may reapply for readmission to the nursing program one time only.
- Any readmitted student who fails to meet the program's progression requirements a second time will not be permitted to continue in the program and will not be eligible to begin another NRST course or be eligible to reapply for readmission.
- Readmitted students are responsible for following the Kent State University Associate Degree Nursing Student Handbook in effect at the time of readmission and changing to the current catalog year.

Full Description

The Associate of Applied Science degree in Nursing prepares students for the registered nurse profession. The curriculum is designed to meet today's health care needs by focusing on the registered nurse's role in communities, hospitals, clinics and home health care.

Graduates are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

The Nursing major includes the following optional concentrations:

- The **LPN to ADN** concentration is a completer program for students who are licensed practical nurses.
- The **Paramedic to ADN** concentration is a completer program for students who are certified paramedics.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Occupational Therapy Assistant - A.A.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Occupational Therapy Assistant A.A.S. program provides you with the skills and experience needed to become a licensed occupational therapy assistant, working with individuals of all ages to help them live meaningful and fulfilling lives. Read more...

Contact Information

- **Kathy Swoboda**| kswobod1@kent.edu | 330-382-7456
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Mostly online
  - In person
- **Location:**
  - Ashtabula Campus (mostly online)
  - East Liverpool Campus (in person)

Examples of Possible Careers and Salaries*

Occupational therapy assistants

- 34.6% much faster than the average
- 47,100 number of jobs
- $62,940 potential earnings

Accreditation

The A.A.S. degree in Occupational Therapy Assistant is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) located at 7501 Wisconsin Avenue, Suite 510E, Bethesda, MD 20814. ACOTE's telephone number, C/O AOTA, is (301) 652-AOTA(2682) and the website is www.acoteonline.org.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA; min C/S grade required in all courses)		
OTA 10000	FOUNDATIONS IN OCCUPATIONAL THERAPY	2
OTA 10002	OCCUPATIONAL PERFORMANCE IN PSYCHOSOCIAL HEALTH	4
OTA 10003	OCCUPATIONAL THERAPY INTERVENTIONS FOR PRACTICE I	1
OTA 10010	OCCUPATIONAL THERAPY INTERVENTIONS FOR PRACTICE II	3
OTA 10192	FIELDWORK 1A (ELR)	1
OTA 20001	OCCUPATIONAL THERAPY MANAGEMENT AND LEADERSHIP SKILLS	2
OTA 20002	OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH	3
OTA 20003	OCCUPATIONAL THERAPY INTERVENTIONS FOR PRACTICE III	3
OTA 20004	OCCUPATIONAL PERFORMANCE IN PEDIATRIC POPULATIONS	3
OTA 20006	OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH II	3
OTA 20392	FIELDWORK 1B (ELR)	1
OTA 20492	FIELDWORK 1C (ELR)	1
OTA 21092	CLINICAL APPLICATIONS I (ELR)	4
OTA 21192	CLINICAL APPLICATIONS II (ELR)	4
Additional Requirements (courses do not count in major GPA; min C grade required in all courses)		
AHS 12005	CONCEPTS IN LIFESPAN DEVELOPMENT	3
or NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	
AHS 12010	PROFESSIONALISM IN HEALTHCARE	1
AHS 22002	CLINICAL KINESIOLOGY	3
AHS 22003	CLINICAL KINESIOLOGY LABORATORY	1
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) [1]	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) [1]	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	3
or PSYC 40111	PSYCHOPATHOLOGY	
UC 10001	FLASHES 101	1
Kent Core Composition		3

Kent Core Mathematics and Critical Reasoning	3
Kent Core Humanities and Fine Arts	3
Minimum Total Credit Hours:	**65**

[1] Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058 or BSCI 21010 and BSCI 21020) may use those courses in place of BSCI 11010 and BSCI 11020.

Progression Requirements

To be able to register for Occupational Therapy Assistant (OTA) courses, students must be accepted to technical study. Acceptance to technical study is a selective process. Criteria for acceptance are the following:

- Completion of prescribed developmental coursework
- Minimum 2.700 overall GPA

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Clinical education must be successfully completed within 18 months of the didactic coursework.
- Portions of the program's courses incorporate the use of technology and/or may be offered in a distance learning format. Under certain circumstances, students are required to attend clinicals on days outside of the academic calendar. These circumstances may occur on scheduled or unscheduled campus closures or on days when classes are cancelled, but the campus remains open. Examples include certain holidays, spring recess and/or prior to the start of semesters. Students are notified in advance of these dates.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
	Credit Hours	**3**
Semester Two		
AHS 12010	PROFESSIONALISM IN HEALTHCARE	1
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
OTA 10000	FOUNDATIONS IN OCCUPATIONAL THERAPY	2
OTA 10003	OCCUPATIONAL THERAPY INTERVENTIONS FOR PRACTICE I	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
	Credit Hours	**14**
Semester Three		
AHS 12005 or NURS 20950	CONCEPTS IN LIFESPAN DEVELOPMENT or HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	3
AHS 22002	CLINICAL KINESIOLOGY	3
AHS 22003	CLINICAL KINESIOLOGY LABORATORY	1
OTA 10002	OCCUPATIONAL PERFORMANCE IN PSYCHOSOCIAL HEALTH	4
OTA 10010	OCCUPATIONAL THERAPY INTERVENTIONS FOR PRACTICE II	3
OTA 10192	FIELDWORK 1A (ELR)	1
PSYC 21211 or PSYC 40111	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS) or PSYCHOPATHOLOGY	3
	Credit Hours	**18**
Semester Four		
OTA 20002	OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH	3
OTA 20003	OCCUPATIONAL THERAPY INTERVENTIONS FOR PRACTICE III	3
OTA 20392	FIELDWORK 1B (ELR)	1
	Credit Hours	**7**
Semester Five		
OTA 20001	OCCUPATIONAL THERAPY MANAGEMENT AND LEADERSHIP SKILLS	2
OTA 20004	OCCUPATIONAL PERFORMANCE IN PEDIATRIC POPULATIONS	3
OTA 20006	OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH II	3
OTA 20492	FIELDWORK 1C (ELR)	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Six		
OTA 21092	CLINICAL APPLICATIONS I (ELR)	4
OTA 21192	CLINICAL APPLICATIONS II (ELR)	4
	Credit Hours	**8**
	Minimum Total Credit Hours:	**65**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
	Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Kent Core (see table below)		15
Total Credit Hour Requirement		60
	Some associate degrees require students to complete more than 60 credit hours.	

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Engage in ongoing professional growth and development as an occupational therapy assistant practitioner.
2. Apply clinical reasoning by integrating clinical experiences with evidence-based practice and personal experience to provide best-practice occupational therapy services.
3. Implement occupation-based, client-centered practice to support clients' desired occupational roles and participation.
4. Promote community engagement through connecting resources to identified groups and populations to facilitate healthy, productive and satisfying lives.

Full Description

The Associate of Applied Science degree in Occupational Therapy Assistant prepares students for a career as an occupational therapy assistant. Occupational therapy services are provided for habilitation, rehabilitation and promotion of health and wellness, while emphasizing participation in meaningful occupations for clients and groups in a variety of settings. Occupational therapy assistants work under the direction of and in partnership with occupational therapists.

The degree program prepares students with a sequential curriculum, including lectures, labs and a variety of fieldwork experiences. Graduates are eligible to take the national certification exam and obtain state licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Office Software Applications - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Office Software Application undergraduate certificate provides a solid background in Microsoft Office software applications to assist individuals in becoming productive office workers. The program enables students to establish or update skills using the latest version of software that is commonly used in offices today.

Contact Information

- **John Baker** | jbaker96@kent.edu | 330-308-7570
- Speak with an Advisor
  - Ashtabula Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Receptionists and information clerks

- 3.6% about as fast as the average
- 1,105,300 number of jobs
- $31,110 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
OTEC 16620	WORD PROCESSING I	3
OTEC 16621	WORD PROCESSING II	3
OTEC 16625	BUSINESS PRESENTATIONS	3
OTEC 16639	DATABASE APPLICATIONS	3
OTEC 26611	SPREADSHEET APPLICATIONS	3
OTEC 26640	CURRENT TECHNOLOGIES	3
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

- Students must complete a minimum of 15 credit hours of the certificate curriculum at Kent State University.
- Maximum 6 credit hours of transfer credits may be used as long as letter grades appear on original transcripts.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	OTEC 16620	WORD PROCESSING I	3
	OTEC 16621	WORD PROCESSING II	3
!	OTEC 26611	SPREADSHEET APPLICATIONS	3
		Credit Hours	**9**
	Semester Two		
!	OTEC 16639	DATABASE APPLICATIONS	3
	OTEC 26640	CURRENT TECHNOLOGIES	3
		Credit Hours	**6**
	Semester Three		
	IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
	OTEC 16625	BUSINESS PRESENTATIONS	3
		Credit Hours	**6**
		Minimum Total Credit Hours:	**21**

Program Learning Outcomes

Graduates of this program will be able to:

1. Create state of-the-art documents, using guidelines, terminology and basic publication concepts of business standards.
2. Select the most appropriate software to use in creating specific business documents that meet industry standards.
3. Assemble critical business data using spreadsheet and database software.
4. Combine data from their original software to another for upgraded usage.
5. Design projects with the use of current office software applications.

Office Technology - A.A.B.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Gain hands-on experience and skills in the latest office technologies to prepare you for a rewarding career in administrative support. Enroll now and take the first step toward your future. Read more...

Contact Information

- **John Baker** | jbaker96@kent.edu | 330-308-7570
- Speak with an Advisor
  - Ashtabula Campus
  - Salem Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Online (any campus above)
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Court, municipal, and license clerks

- 4.8% about as fast as the average
- 163,700 number of jobs
- $40,930 potential earnings

Executive secretaries and executive administrative assistants

- -20.4% decline
- 593,400 number of jobs
- $63,110 potential earnings

First-line supervisors of office and administrative support workers

- -3.0% decline
- 1,552,400 number of jobs
- $58,450 potential earnings

Human resources assistants, except payroll and timekeeping

- -5.0% decline
- 123,900 number of jobs
- $43,250 potential earnings

Secretaries and administrative assistants, except legal, medical, and executive

- -10.1% decline
- 2,250,200 number of jobs
- $38,850 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10001	HUMAN BIOLOGY (KBS) [1]	3
OTEC 16620	WORD PROCESSING I	3
OTEC 16639	DATABASE APPLICATIONS	3
OTEC 26611	SPREADSHEET APPLICATIONS	3
OTEC 26635	ADMINISTRATIVE RESOURCE MANAGEMENT	3
OTEC 26640	CURRENT TECHNOLOGIES	3
OTEC 26691	SEMINAR FOR OFFICE TECHNOLOGY [3]	2-3
or OTEC 26692	INTERNSHIP FOR OFFICE TECHNOLOGY (ELR)	
Additional Requirements (courses do not count in major GPA)		
ACTT 11000	ACCOUNTING I: FINANCIAL	4
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
Applied Electives, choose from the following:		9
BMRT 11000	INTRODUCTION TO BUSINESS	
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	
BMRT 21000	BUSINESS LAW AND ETHICS I	
BMRT 31006	HUMAN RESOURCE MANAGEMENT	
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS [2]	
IT 11004	SURVEY OF INFORMATION TECHNOLOGY	
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	
IT 11006	INTRODUCTION TO WEB SITE TECHNOLOGY	
OTEC 16640	ADVANCED DATABASE APPLICATIONS	
OTEC 16680	COMPUTER KEYBOARDING	
OTEC 26623	DESKTOP PUBLISHING II	
OTEC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	
OTEC 26638	BUSINESS COMMUNICATIONS	
OTEC 26695	SPECIAL TOPICS IN OFFICE TECHNOLOGY	
Any Office Technology (OTEC) course (consult with program coordinator)		
Additional Requirements or Concentrations		
Choose from the following:		12-15
Additional Requirements for Students Not Declaring a Concentration		
Medical Billing/Coding Office		
Minimum Total Credit Hours:		**61-64**

1 Students may apply either BSCI 11010 or BSCI 21010 in place of BSCI 10001.

2 IT 11000 may count toward applied electives if taken before or with any other Information Technology (IT) or Office Technology (OTEC) course.

3 Students may apply a maximum 4 credit hours of OTEC 26692 to fulfill major requirements.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
OTEC 16621	WORD PROCESSING II	3
OTEC 16625	BUSINESS PRESENTATIONS	3
OTEC 16638	GOOGLE APPLICATIONS FOR ADMINISTRATIVE PROFESSIONALS	3
OTEC 26622	DESKTOP PUBLISHING I	3
Minimum Total Credit Hours:		**12**

Medical Billing/Coding Office Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
HED 14020	MEDICAL TERMINOLOGY	3
OTEC 26638	BUSINESS COMMUNICATIONS	3
OTEC 26650	MEDICAL BILLING PROCEDURES (ELR)	3
OTEC 26655	ICD CODING	3
OTEC 26656	CURRENT PROCEDURAL TERMINOLOGY (CPT) CODING	3
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Office Technology (no concentration)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10001	HUMAN BIOLOGY (KBS)	3
OTEC 16620	WORD PROCESSING I	3
OTEC 16621	WORD PROCESSING II	3
OTEC 26611	SPREADSHEET APPLICATIONS	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
OTEC 26635	ADMINISTRATIVE RESOURCE MANAGEMENT	3
OTEC 26640	CURRENT TECHNOLOGIES	3
Applied Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
OTEC 16638	GOOGLE APPLICATIONS FOR ADMINISTRATIVE PROFESSIONALS	3
OTEC 16639	DATABASE APPLICATIONS	3
OTEC 26622	DESKTOP PUBLISHING I	3
OTEC 26691 or OTEC 26692	SEMINAR FOR OFFICE TECHNOLOGY or INTERNSHIP FOR OFFICE TECHNOLOGY (ELR)	2-3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Four		
ACTT 11000	ACCOUNTING I: FINANCIAL	4
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
OTEC 16625	BUSINESS PRESENTATIONS	3
Applied Electives		6
	Credit Hours	**16**
	Minimum Total Credit Hours:	**61**

Medical Billing/Coding Office Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	BSCI 10001	HUMAN BIOLOGY (KBS)	3
	HED 14020	MEDICAL TERMINOLOGY	3
	OTEC 16620	WORD PROCESSING I	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	OTEC 26638	BUSINESS COMMUNICATIONS	3
	OTEC 26640	CURRENT TECHNOLOGIES	3
!	OTEC 26655	ICD CODING	3
!	OTEC 26656	CURRENT PROCEDURAL TERMINOLOGY (CPT) CODING	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	OTEC 16639	DATABASE APPLICATIONS	3
	OTEC 26611	SPREADSHEET APPLICATIONS	3
	OTEC 26650	MEDICAL BILLING PROCEDURES (ELR)	3
	OTEC 26691 or OTEC 26692	SEMINAR FOR OFFICE TECHNOLOGY or INTERNSHIP FOR OFFICE TECHNOLOGY (ELR)	2-3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Four		
	ACTT 11000	ACCOUNTING I: FINANCIAL	4
	IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
	OTEC 26635	ADMINISTRATIVE RESOURCE MANAGEMENT	3
	Applied Electives		9
		Credit Hours	**19**
		Minimum Total Credit Hours:	**64**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
	Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Kent Core (see table below)		15
Total Credit Hour Requirement		60
	Some associate degrees require students to complete more than 60 credit hours.	

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Organize, manage and analyze critical business data using spreadsheet and database software.
2. Create state-of-the-art documents, using design guidelines, terminology and basic publication concepts of industry standards.
3. Import and integrate data from their original software to another for upgraded usage.
4. Determine the most appropriate software to use in creating specific business documents that meet industry standards for mailing.
5. Contrast, compare and adapt to forces that influence emerging management practices.
6. Manage the people, productivity, technology and environment within the administrative function of an organization.
7. Integrate coursework with realistic office settings, emphasizing the total quality management environment.
8. Use multiple channels used in business to communicate with others
9. Participate in the activities of various businesses to determine the variety of job responsibilities assigned to employees in their profession; develop job search strategies for use in their outreach activities.
10. Track and provide administrative support in managing projects, using software designed for this specific purpose.
11. Examine, describe and exercise various leadership, decision-making and motivational skills.

Full Description

The Associate of Applied Business degree in Office Technology focuses primarily on front-end office functions, where employees use technology for daily job responsibilities that may include producing business documents, designing presentations, generating data reports and creating financial spreadsheets. Students use the most current versions of business software applications and learn the fundamentals of accounting, automated records management, business communications and resource management.

Graduates gain a wide variety of computer application skills needed for gainful employment in office administrative support positions, including office assistant, accounting clerk, office manager, administrative coordinator, executive administrative and administrative assistant–technology.

The Office Technology major includes the following optional concentration:

- The **Medical Billing/ Coding Office** concentration provides a basic understanding of software, medical terminology, billing/coding and procedures used in medical settings such as hospitals, clinics, doctors' offices and outsourcing facilities involved with providing billing operations.

Peace Officers Training Academy - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Join the ranks of law enforcement with Kent State's Peace Officer Training Academy certificate. Our comprehensive program provides the skills and knowledge needed to become a certified peace officer and serve your community with honor and integrity. Enroll now and start your journey towards a fulfilling career in law enforcement. Read more...

Contact Information

- **Lori Singer-Bare** | lsingerb@kent.edu | 330-675-8898
- Speak with an Advisor
  - Kent Campus
  - Trumbull Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Trumbull Campus
  - Twinsburg, Ohio

Examples of Possible Careers and Salaries*

Police and sheriff's patrol officers

- 5.7% faster than the average
- 688,400 number of jobs
- $65,540 potential earnings

Accreditation

The curriculum for the Peace Officers Training Academy undergraduate certificate is approved by the Ohio Attorney General - Ohio Peace Officer Training Commission (OPOTC).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Admission to the certificate is selective. Applicants to the certificate must meet all admission criteria for acceptance into Kent State's Basic Peace Officer Academy. Criteria includes the following:

- Valid driver's license
- High school diploma or GED
- Good physical condition
- No felony or drug convictions or arrests for domestic violence

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
POTA 11001	PEACE OFFICERS ACADEMY I	6
POTA 11002	PEACE OFFICERS ACADEMY II	5
POTA 11003	PEACE OFFICERS ACADEMY III	6
POTA 11004	PEACE OFFICERS ACADEMY IV	5
Minimum Total Credit Hours:		**22**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

- Completion of the Kent State University Basic Peace Officer Academy

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify the components and legal processes of the criminal justice system, and apply basic criminal laws to various situations.
2. Explain the different types of police procedures and their effective uses in law enforcement.
3. Use ethical, analytical and critical-thinking skills toward situations typical to criminal justice settings.
4. Safely and properly conduct a traffic stop and respond to a domestic disturbance, dispatched call or crime in progress.
5. Properly carry out comprehensive criminal investigations and write various reports.
6. Proficiently provide first aid at the level of a first responder.

Full Description

The Peace Officers Training Academy undergraduate certificate prepares students to become law enforcement officers in the state of Ohio. Students pursuing the certificate must be accepted to Kent State's Basic Peace Officer Academy. The certificate's curriculum covers the basics of defensive tactics, firearms, driving, traffic, patrol, civil disorders and first aid. Students learn investigative methods and the fundamentals of policing, the criminal justice system, constitutional law and homeland security.

After successful completion of the certificate and the academy, students are eligible to take the state certification examination for law enforcement. Graduates of the certificate are able to matriculate into the A.A.S. degree in Criminology and Justice at Kent State.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Physical Therapist Assistant Technology - A.A.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Join one of the fastest-growing healthcare fields with Kent State's Physical Therapist Assistant Technology A.A.S. program. With a blend of classroom instruction and hands-on experience, you'll learn the skills needed to provide high-quality patient care and support. Read more...

Contact Information

- **Ashley Vlasov, PTA, MPH** | avlasov@kent.edu | 440-964-4275
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Online (any campus above)
  - Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Mostly online (Athletic Trainers Transition concentration only)
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus (Athletic Trainers Transition concentration not offered)

Examples of Possible Careers and Salaries*

Physical therapist assistants

- 32.6% much faster than the average
- 98,700 number of jobs
- $59,770 potential earnings

Accreditation

The Physical Therapist Assistant program at Kent State University at Ashtabula and East Liverpool, and the PTA program for NATA-BOC Certified Athletic Trainer's are accredited by the Commission

on Accreditation in Physical Therapy Education (CAPTE), 3030 Potomac Ave., Suite 100, Alexandria, Virginia 22305-3085; telephone: 703-706-3245; email: accreditation@apta.org; website: http://www.capteonline.org.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Admission to the Athletic Trainers Transition concentration: Applicants must be board-certified athletic trainers.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
PTST 10000	INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT (min C grade)	1
PTST 10001	PRINCIPLES OF PATIENT CARE IN PHYSICAL THERAPY (min C grade) [1]	4
PTST 10003	CLINICAL CONDITIONS I (min C grade)	2
PTST 10011	INTRODUCTION TO THERAPEUTIC EXERCISE (min C grade) [2]	1
PTST 11005	PHYSICAL THERAPY PRACTICE I (min C grade)	2
PTST 11092	CLINICAL EDUCATION I (ELR)	1
PTST 20003	CLINICAL CONDITIONS II (min C grade) [2]	2
PTST 20004	PHYSICAL THERAPY PROCEDURES II (min C grade) [2]	4
PTST 20006	PHYSICAL REHABILITATION PROCEDURES (min C grade) [1]	4
PTST 20008	CLINICAL CONDITIONS III (min C grade)	2
PTST 20011	PHYSICAL THERAPIST ASSISTANT MANAGEMENT OF THE MEDICALLY COMPLEX PATIENT (min C grade)	2
PTST 22005	PHYSICAL THERAPY PRACTICE II (min C grade)	2
PTST 22007	PHYSICAL THERAPY PRACTICE III (min C grade)	2
PTST 22092	CLINICAL EDUCATION PRACTICUM II (ELR)	2
PTST 23092	CLINICAL EDUCATION PRACTICUM III (ELR)	2
Additional Requirements (courses do not count in major GPA)		
AHS 12005	CONCEPTS IN LIFESPAN DEVELOPMENT (min C grade) [3]	3
AHS 12010	PROFESSIONALISM IN HEALTHCARE (min C grade)	1
AHS 24010	MEDICAL TERMINOLOGY (min C grade)	1-3
or HED 14020	MEDICAL TERMINOLOGY	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Additional Requirements or Concentration		
Choose from the following:		14
Additional Requirements for Students Not Declaring a Concentration		
Athletic Trainers Transition Concentration		
Minimum Total Credit Hours:		**65**

1 For PTST 10001 and PTST 20006, students in the Athletic Trainers Transition concentration will be required to complete two three-day laboratory weekends on the Ashtabula Campus

2 Students in the Athletic Training Transition concentration will earn transfer credit (no grade) for PTST 10011 and PTST 20003 and PTST 20004 after completing PTST 10010 with minimum C grade.

3 Students who have successfully completed NURS 20950 may use it in place of AHS 12005.

4 UC 10001 is waived for students declared in the Athletic Trainers Transition concentration who hold a bachelor's degree.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
PTST 10004	PHYSICAL THERAPY PROCEDURES I (min C grade)	4
Additional Requirements (courses do no count in major GPA; min C grade required in all courses)		
AHS 22002	CLINICAL KINESIOLOGY	3
AHS 22003	CLINICAL KINESIOLOGY LABORATORY	1
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) [1]	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) [1]	3
Minimum Total Credit Hours:		**14**

1 Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058 or BSCI 21010 and

BSCI 21020) may use those courses in place of BSCI 11010 and BSCI 11020.

Athletic Trainers Transition Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses do not count in major GPA)		
PTST 10010	TRANSITIONS IN PHYSICAL THERAPY (min C grade) [1,2]	8
Additional Requirements (course do not count in the major GPA)		
Kent Core Basic Sciences		3
General Elective (possible transfer coursework)		3
Minimum Total Credit Hours:		**14**

1 For PTST 10010, students will be required to complete two three-day laboratory weekends on the Ashtabula Campus.

2 Students in the Athletic Training Transition concentration will earn transfer credit (no grade) for PTST 10011 and PTST 20003 and PTST 20004 after completing PTST 10010 with minimum C grade.

Progression Requirements

To be able to register for Physical Therapist Assistant Technology (PTST) courses, students must be accepted to technical study. Acceptance to technical study is a selective process. Criteria for acceptance are the following:

- Completion of observation hours in a physical therapy clinic
- Minimum 2.700 overall GPA from the most recent academic experience of 12 credit hours or more
- Completion or placement out of all Kent State University prescribed developmental education coursework (ENG 01001 and READ 00006)
- Submission of application to technical study, separate from the university application
- Program Applicant Assessments as noted in the program application information packet for each cohort

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Minimum C (or S) grade may be required in some courses.
- Three practicum courses require students to complete a minimum of 640 off-campus clinical education hours under the supervision of a licensed physical therapist or physical therapist assistant. Under certain circumstances, students in practicum courses are required to attend clinicals on days outside of the academic calendar. These circumstances may occur on scheduled or unscheduled campus closures or on days when classes are cancelled. Examples include: certain holidays, spring recess, snow days and/or prior to the start of semesters. Students are notified in advance of the clinical education schedule.
- Contracted clinical education sites normally require students to demonstrate both medical and background clearances, as well as the ability to perform the core tasks and essential job functions of a physical therapist assistant. Students who are unable to perform the core tasks and essential job functions, or who cannot demonstrate medical and background clearance may not be able to complete the requirements for the degree program.

Roadmaps

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
	BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**10**
	Semester One		
	AHS 12010	PROFESSIONALISM IN HEALTHCARE	1
	AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1
	BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
	PTST 10000	INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT	1
!	PTST 10001	PRINCIPLES OF PATIENT CARE IN PHYSICAL THERAPY	4
!	PTST 10003	CLINICAL CONDITIONS I	2
	PTST 10011	INTRODUCTION TO THERAPEUTIC EXERCISE	1
		Credit Hours	**13**
	Semester Two		
	AHS 12005	CONCEPTS IN LIFESPAN DEVELOPMENT	3
!	AHS 22002	CLINICAL KINESIOLOGY	3
!	AHS 22003	CLINICAL KINESIOLOGY LABORATORY	1
!	PTST 10004	PHYSICAL THERAPY PROCEDURES I	4
!	PTST 11005	PHYSICAL THERAPY PRACTICE I	2
	Kent Core Requirement		3
		Credit Hours	**16**
	First Summer Term		
	PTST 11092	CLINICAL EDUCATION I (ELR) (East Liverpool campus only)	0-1
		Credit Hours	**0**
	Semester Three		
!	PTST 11092	CLINICAL EDUCATION I (ELR) (Ashtabula Campus only)	0-1
!	PTST 20003	CLINICAL CONDITIONS II	2
!	PTST 20004	PHYSICAL THERAPY PROCEDURES II	4
!	PTST 22005	PHYSICAL THERAPY PRACTICE II	2
!	PTST 22092	CLINICAL EDUCATION PRACTICUM II (ELR) (East Liverpool Campus only)	0-2
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Four		
!	PTST 20006	PHYSICAL REHABILITATION PROCEDURES	4
!	PTST 22007	PHYSICAL THERAPY PRACTICE III	2
!	PTST 20008	CLINICAL CONDITIONS III	2

!	PTST 20011	PHYSICAL THERAPIST ASSISTANT MANAGEMENT OF THE MEDICALLY COMPLEX PATIENT	2
!	PTST 23092	CLINICAL EDUCATION PRACTICUM III (ELR)	2
		Credit Hours	**12**
	Second Summer Term		
	PTST 22092	CLINICAL EDUCATION PRACTICUM II (ELR) (Ashtabulua Campus only)	0-2
		Credit Hours	**0**
	Third Summer Term		
	PTST 22092	CLINICAL EDUCATION PRACTICUM II (ELR)	0-2
		Credit Hours	**0**
		Minimum Total Credit Hours:	**65**

Athletic Trainers Transition Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		**Credits**
	UC 10001	FLASHES 101	1
	Kent Core Requirements (possible transfer coursework)		12
	General Electives (possible transfer coursework)		3
		Credit Hours	**16**
	Semester One		
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	PTST 10000	INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT	1
!	PTST 10010	TRANSITIONS IN PHYSICAL THERAPY	8
	Transfer credit (no grade) for PTST 20003, PTST 20004 and PTST 10011 after completing PTST 10010 (min C grade)		7
		Credit Hours	**19**
	Semester Two		
	AHS 12005	CONCEPTS IN LIFESPAN DEVELOPMENT	3
	AHS 12010	PROFESSIONALISM IN HEALTHCARE	1
	AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1
!	PTST 10001	PRINCIPLES OF PATIENT CARE IN PHYSICAL THERAPY	4
!	PTST 10003	CLINICAL CONDITIONS I	2
!	PTST 11005	PHYSICAL THERAPY PRACTICE I	2
		Credit Hours	**13**
	Semester Three		
!	PTST 11092	CLINICAL EDUCATION I (ELR)	1
!	PTST 20006	PHYSICAL REHABILITATION PROCEDURES	4
!	PTST 20008	CLINICAL CONDITIONS III	2
!	PTST 22005	PHYSICAL THERAPY PRACTICE II	2
		Credit Hours	**9**
	Semester Four		
!	PTST 22007	PHYSICAL THERAPY PRACTICE III	2
!	PTST 22092	CLINICAL EDUCATION PRACTICUM II (ELR)	2
!	PTST 23092	CLINICAL EDUCATION PRACTICUM III (ELR)	2
!	PTST 20011	PHYSICAL THERAPIST ASSISTANT MANAGEMENT OF THE MEDICALLY COMPLEX PATIENT	2
		Credit Hours	**8**
		Minimum Total Credit Hours:	**65**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	**Title**	**Credit Hours**
Flashes 101 (UC 10001)		1
	Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Kent Core (see table below)		15
Total Credit Hour Requirement		60
	Some associate degrees require students to complete more than 60 credit hours.	

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Provide appropriate and effective physical therapy interventions within the plan of care established by a physical therapist.
2. Effectively communicate with others, teaching or instructing when appropriate.
3. Produce legal and ethical documentation to meet professional expectations and the needs of third party payers.
4. Ethically manage fiscal and human resources to provide high-quality, efficient and cost-effective physical therapy services.
5. Consistently demonstrate the core values of the physical therapist assistant; accountability, altruism, collaboration, compassion and caring, duty, excellence, inclusion, integrity and social responsibility.

Full Description

The Associate of Applied Science degree in Physical Therapist Assistant Technology provides students with the knowledge, skills and behaviors necessary to become licensed or certified as a physical therapist assistant, working under the direction and supervision of a physical therapist. Licensure or certification in most states requires graduation from an accredited program, background clearances and passing the National Physical Therapy Examination.

The integrated curriculum includes lecture, laboratory, seminar and practicum courses. Major course content is cumulative and taught in four

sequential semesters in a two year cycle. The technical study curriculum requires student to be on campus or in the clinic three to five days per week each term.

The Physical Therapist Assistant Technology major includes the following optional concentration:

- The **Athletic Trainers Transition** concentration is for board-certified athletic trainers and may be completed, at minimum, in 15 months. The concentration adds the skills and knowledge of a physical therapist assistant to the certified athletic trainers knowledge and skill competency. The concentration is offered primarily online, but requires six three-day in person on the Ashtabula Campus to conduct laboratory assignments. In addition, students must complete a minimum 640 hours of clinical education, which, typically, can be arranged anywhere in the country.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Radiologic Imaging Sciences - B.R.I.T.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Kent State's Radiologic Imaging Sciences bachelor's degree is the perfect choice for students interested in launching a rewarding career in medical imaging. Gain hands-on experience with industry-standard equipment and work alongside experienced faculty to develop the skills and knowledge needed to excel in this growing field. Read more...

Contact Information

- **Sherry DeWitt** | sdewitt@kent.edu | 330-337-4227
- **Kelly Dragomir, M.A. R.T. (R)(CT)** (Radiologic Technology, CT and MRI) | kadragom@kent.edu | 330-337-4129
- **Cyndi Peterson, M.P.H., R.T., RDMS, RVT** (Diagnostic Medical Sonography) | clpeters@kent.edu
- **Shellie Warino, M.Ed., R.T. (R) (T)**(Radiation Therapy) | swarino1@kent.edu
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online (Computed Tomography completer program and Magnetic Resonance Imaging completer programs - for those with a degree in radiologic technology)
  - In person (Diagnostic Medical Sonography and Radiation Therapy concentrations)
- **Location:**
  - Salem Campus (all concentrations)

Examples of Possible Careers and Salaries*

Diagnostic medical sonographers

- 16.8% much faster than the average
- 74,300 number of jobs
- $75,920 potential earnings

Magnetic resonance imaging technologists

- 7.0% faster than the average
- 38,700 number of jobs
- $74,690 potential earnings

Radiation therapists

- 7.1% faster than the average
- 18,500 number of jobs
- $86,850 potential earnings

Radiologic technologists and technicians

- 6.7% faster than the average
- 212,000 number of jobs
- $61,900 potential earnings

Accreditation

The B.R.I.T. degree in Radiologic Imaging Sciences (Radiation Therapy concentration only) is accredited by the Joint Review Committee on Education in Radiologic Technology.

20 N. Wacker Dr. Suite 2850, Chicago, IL 60606-3182
mail@jrcert.org
www.jrcert.org

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Computed Tomography Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all RIS courses)		
RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
RIS 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY	2
RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I	2
RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I	2
RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES II	2
RIS 44062	COMPUTED TOMOGRAPHY IMAGE PRODUCTION II	2
RIS 44068	COMPUTED TOMOGRAPHY TECHNIQUES	2
RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Clinical Electives, choose from the following:		5
RIS 44004	COMPUTED TOMOGRAPHY CLINICAL EDUCATION I	
RIS 44054	COMPUTED TOMOGRAPHY CLINICAL EDUCATION II	
RIS 44069	COMPUTED TOMOGRAPHY CLINICAL EDUCATION III	
RIS 44092	COMPUTED TOMOGRAPHY/MAGNETIC RESONANCE INTERNSHIP (ELR)	
Additional Requirements (courses do not count in major GPA)		
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	3-4
or MATH 11009	MODELING ALGEBRA (KMCR)	
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [1]		51
Additional Concentration Requirements (courses do not count in major GPA), choose from the following:		**7-11**
Concentration for A.A.S. Radiologic Technology graduates [CTRT]		
AHS 24010	MEDICAL TERMINOLOGY	1-3
or HED 14020	MEDICAL TERMINOLOGY	
Biology (BSCI) Electives, choose from the following: [2]		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
Concentration for for A.T.S. Radiologic Technology graduates (with certification) [CTHA]		
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
or CS 10001	COMPUTER LITERACY	
or IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
BSCI 10001	HUMAN BIOLOGY (KBS)	3
Kent Core Basic Sciences (must include one laboratory)		1
Minimum Total Credit Hours:		**120**

1 Most general elective credit hours will be fulfilled with courses earned for radiologic technology associate degree or hospital-based certificate **(32-40 credit hours awarded for certificate).**

2 Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 (or BSCI 21010 and BSCI 21020).

Diagnostic Medical Sonography Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all RIS courses)		
RIS 34040	PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY	3
RIS 34042	ABDOMINAL SONOGRAPHY I	3
RIS 34044	ULTRASOUND PHYSICS AND INSTRUMENTATION	3
RIS 34045	ULTRASOUND CLINICAL EDUCATION I	2
RIS 34052	ABDOMINAL SONOGRAPHY II	3
RIS 34060	ULTRASOUND CLINICAL EDUCATION II	4

RIS 34062	OBSTETRICS AND GYNECOLOGY SONOGRAPHY I	3
RIS 34072	SUPERFICIAL STRUCTURES SONOGRAPHY	2
RIS 34075	ULTRASOUND CLINICAL EDUCATION III	2
RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
RIS 44072	OBSTETRICS AND GYNECOLOGY SONOGRAPHY II	3
RIS 44074	VASCULAR SONOGRAPHY	2
RIS 44076	ULTRASOUND CLINICAL EDUCATION IV	4
RIS 44078	SONOGRAPHIC TECHNIQUES	3
RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
RIS 44084	ULTRASOUND IMAGE EVALUATION	1
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Additional Requirements (courses do not count in major GPA)		
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [1]		16-32
Additional Concentration Requirements (courses do not count in major GPA), choose from the following:		**7-23**
Concentration for A.S. Degree graduates or Freshman [FRAS]		
HED 14020	MEDICAL TERMINOLOGY	3
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	3-5
or PHY 12111	PHYSICS FOR HEALTH TECHNOLOGIES	
RIS 34001	INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY (min C grade)	1
Biology (BSCI) Electives, choose from the following:		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) [2]	
or BSCI 21020	ANATOMY AND PHYSIOLOGY II	
Kent Core Basic Sciences (must include one laboratory)		3
Concentration for A.A.S Radiologic Technology graduates [RTAS]		
AHS 24010	MEDICAL TERMINOLOGY	1-3
or HED 14020	MEDICAL TERMINOLOGY	
Biology (BSCI) Electives, choose from the following: [2]		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
Concentration for A.T.S. Radiologic Technology graduates (with certification) [HATS]		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or CHEM 10055	MOLECULES OF LIFE (KBS)	
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
or CS 10001	COMPUTER LITERACY	
or IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
Kent Core Basic Sciences (must include one laboratory)		1
Minimum Total Credit Hours:		**120**

[1] For students with an associate degree or hospital-based certificate, most general elective credit hours will be fulfilled with courses earned for that degree (32 credit hours awarded for certificate).

[2] Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 (or BSCI 21010 and BSCI 21020).

Magnetic Resonance Imaging Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in RIS all courses)		
RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
RIS 44031	PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING	2
RIS 44044	MAGNETIC RESONANCE IMAGING PROCEDURES I	2
RIS 44045	MAGNETIC RESONANCE IMAGING PROCEDURES II	2
RIS 44051	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I	2
RIS 44052	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II	2
RIS 44066	MAGNETIC RESONANCE IMAGING TECHNIQUES	2
RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Clincal Electives, choose from the following:		5
RIS 44003	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION I	
RIS 44063	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION II	
RIS 44073	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION III	
RIS 44092	COMPUTED TOMOGRAPHY/MAGNETIC RESONANCE INTERNSHIP (ELR)	
Additional Requirements (courses do not count in major GPA)		
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	3-4
or MATH 11009	MODELING ALGEBRA (KMCR)	
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9

Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [1]		51
Additional Concentration Requirements (courses do not count in major GPA), choose from the following:		**7-11**
Concentration for A.A.S. Radiologic Technology graduates [MRRT]		
AHS 24010	MEDICAL TERMINOLOGY	1-3
or HED 14020	MEDICAL TERMINOLOGY	
Biology (BSCI) Electives, choose from the following [2]		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
Concentration for A.T.S. Radiologic Technology graduates (with certification) [MRHA]		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
or CS 10001	COMPUTER LITERACY	
or IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
Kent Core Basic Sciences (must include one laboratory)		1
Minimum Total Credit Hours:		**120**

1 Most general elective credit hours will be fulfilled with courses earned for radiologic technology associate degree or hospital-based certificate (32 credit hours awarded for certificate).

2 Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 (or BSCI 21010 and BSCI 21020).

Radiation Therapy Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all RIS courses)		
RIS 34003	RADIATION THERAPY PRINCIPLES AND PRACTICE I	3
RIS 34004	RADIATION THERAPY PATIENT MANAGEMENT	3
RIS 34008	RADIATION THERAPY PHYSICS I	3
RIS 34030	RADIATION THERAPY CLINICAL EDUCATION I	1
RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
RIS 44009	RADIATION THERAPY PRINCIPLES AND PRACTICE II	2
RIS 44018	RADIATION THERAPY PHYSICS II	3
RIS 44028	RADIATION THERAPY RADIOBIOLOGY	3
RIS 44029	RADIATION THERAPY PATHOLOGY I	3
RIS 44038	RADIATION THERAPY PHYSICS III	3
RIS 44041	RADIATION THERAPY QUALITY MANAGEMENT	2
RIS 44042	RADIATION THERAPY PATHOLOGY II	3
RIS 44043	RADIATION THERAPY PRINCIPLES/PRACTICE III	3
RIS 44053	RADIATION THERAPY CLINICAL EDUCATION II	3
RIS 44058	RADIATION THERAPY CLINICAL EDUCATION III	2
RIS 44067	RADIATION THERAPY CLINICAL EDUCATION IV	3
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Additional Requirements (courses do not count in major GPA)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [1]		24-36
Additional Concentration Requirements (courses do not count in major GPA), choose from the following:		**10-22**
Concentration for A.S. Degree graduates or Freshman [RTFE]		
HED 14020	MEDICAL TERMINOLOGY	3
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	3-5
or PHY 12111	PHYSICS FOR HEALTH TECHNOLOGIES	
RIS 44000	INTRODUCTION TO RADIATION THERAPY	2
Biology (BSCI) Electives, choose from the following:		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II [2]	
Kent Core Basic Sciences (must include one laboratory)		3
Concentration for A.A.S. Radiologic Technology graduates [RTAA]		
AHS 24010	MEDICAL TERMINOLOGY	1-3
or HED 14020	MEDICAL TERMINOLOGY	
Biology (BSCI) Electives, choose from the following: [2]		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
Concentration for A.T.S. Radiologic Technology graduates (with certification) [RTHB]		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or CHEM 10055	MOLECULES OF LIFE (KBS)	
Kent Core Basic Sciences (must include one laboratory)		1
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
or CS 10001	COMPUTER LITERACY	
or IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
Minimum Total Credit Hours:		**120**

1 For students with an associate degree or hospital-based certificate, most general elective credit hours will be fulfilled with courses earned for that degree (32 credit hours awarded for certificate).

2 Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 (or BSCI 21010 and BSCI 21020).

Progression Requirements

To be able to register for Radiologic and Imaging Sciences (RIS) courses, students must be accepted to technical study. Acceptance to technical study is a selective process due to the limited number of students approved for each clinical education setting. Criteria for acceptance are the following:

- Completion of required non-radiologic and imaging sciences (RIS) courses, e.g., biology, chemistry, mathematics, psychology, Kent Core courses
- Minimum 2.750 overall GPA

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.750	2.000

- Students must complete all Radiologic and Imaging Sciences (RIS) courses with a minimum C grade.
- Students must complete all academic and clinical competencies in their core concentration.

Roadmaps

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Computed Tomography Concentration for A.A.S. Radiologic Technology graduates

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
!	Technical requirements in Radiologic Technology		43
	Biology (BSCI) Electives, choose from the following:		6-8
	BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
	BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
	AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1-3
	MATH 10041 or MATH 11009 or MATH 11010	INTRODUCTORY STATISTICS (KMCR) or MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**63**
	Semester One		
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**12**
	Semester Two		
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		5
		Credit Hours	**14**
	Semester Three		
!	RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
!	RIS 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY	2
!	RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I	2
	RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I	2
!	RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
!	RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
!	Clinical Elective		2
		Credit Hours	**14**
	Semester Four		
!	RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
!	RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES II	2
!	RIS 44062	COMPUTED TOMOGRAPHY IMAGE PRODUCTION II	2
!	RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
!	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
!	Clinical Elective		2
		Credit Hours	**14**
	Semester Five		
!	RIS 44068	COMPUTED TOMOGRAPHY TECHNIQUES	2
!	Clinical Elective		1
		Credit Hours	**3**
		Minimum Total Credit Hours:	**120**

Computed Tomography Concentration for A.T.S. Radiologic Technology graduates (with certification)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
!	Associate of Technical Studies in Radiologic Technology		32
	BSCI 10001	HUMAN BIOLOGY (KBS)	3
	CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3

	CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES or COMPUTER LITERACY or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
	MATH 10041 or MATH 11009 or MATH 11010	INTRODUCTORY STATISTICS (KMCR) or MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirements		3
	Kent Core Requirements		3
	Kent Core Requirements		3
	Kent Core Requirements		3
	Kent Core Requirements		3
	Kent Core Requirements		3
		Credit Hours	**66**
	Semester One		
	Kent Core Requirements		3
	General Electives		9
		Credit Hours	**12**
	Semester Two		
	Kent Core Requirement		3
	Kent Core Requirement		1
	General Electives		7
		Credit Hours	**11**
	Semester Three		
	RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
	RIS 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY	2
	RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I	2
	RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I	2
	RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
	RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
	Clinical Elective		2
		Credit Hours	**14**
	Semester Four		
	RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
	RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES II	2
	RIS 44062	COMPUTED TOMOGRAPHY IMAGE PRODUCTION II	2
	RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
	Clinical Elective		2
		Credit Hours	**14**
	Semester Five		
	RIS 44068	COMPUTED TOMOGRAPHY TECHNIQUES	2
	Clinical Elective		1
		Credit Hours	**3**
		Minimum Total Credit Hours:	**120**

Diagnostic Medical Sonography Concentration for A.S. Degree graduates or Freshman

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirements		6
		Credit Hours	**13**
	Semester Two		
	MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		3
		Credit Hours	**12**
	Semester Three		
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirements		6
		Credit Hours	**12**
	Semester Four		
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		4
		Credit Hours	**10**
	Semester Five		
	BSCI 11010 or BSCI 21010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3-4
	General Electives		8
		Credit Hours	**12**
	Semester Six		
	HED 14020	MEDICAL TERMINOLOGY	3
	PHY 13001 & PHY 13021 or PHY 12111	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) or PHYSICS FOR HEALTH TECHNOLOGIES	3-5
	BSCI 11020 or BSCI 21020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY II	3-4
	General Electives		3
		Credit Hours	**13**
	Third Summer Term		
!	RIS 34001	INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY	1
		Credit Hours	**1**
	Semester Seven		
!	RIS 34040	PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY	3
!	RIS 34042	ABDOMINAL SONOGRAPHY I	3

!	RIS 34044	ULTRASOUND PHYSICS AND INSTRUMENTATION	3
!	RIS 34045	ULTRASOUND CLINICAL EDUCATION I	2
!	RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
		Credit Hours	**14**
	Semester Eight		
!	RIS 34052	ABDOMINAL SONOGRAPHY II	3
!	RIS 34060	ULTRASOUND CLINICAL EDUCATION II	4
!	RIS 34062	OBSTETRICS AND GYNECOLOGY SONOGRAPHY I	3
!	RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
!	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
		Credit Hours	**16**
	Fourth Summer Term		
	RIS 34072	SUPERFICIAL STRUCTURES SONOGRAPHY	2
	RIS 34075	ULTRASOUND CLINICAL EDUCATION III	2
!	RIS 44072	OBSTETRICS AND GYNECOLOGY SONOGRAPHY II	3
!	RIS 44084	ULTRASOUND IMAGE EVALUATION	1
		Credit Hours	**8**
	Semester Nine		
!	RIS 44076	ULTRASOUND CLINICAL EDUCATION IV	4
!	RIS 44078	SONOGRAPHIC TECHNIQUES	3
!	RIS 44074	VASCULAR SONOGRAPHY	2
		Credit Hours	**9**
		Minimum Total Credit Hours:	**120**

Diagnostic Medical Sonography Concentration for A.A.S Radiologic Technology graduates

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		**Credits**
	Technical requirements in Radiologic Technology		35
	Biology (BSCI) Electives, choose from the following:		6-8
	BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
	BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
	AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1-3
	MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**55**
	Semester One		
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Two		
!	RIS 34040	PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY	3
!	RIS 34042	ABDOMINAL SONOGRAPHY I	3
!	RIS 34044	ULTRASOUND PHYSICS AND INSTRUMENTATION	3
!	RIS 34045	ULTRASOUND CLINICAL EDUCATION I	2
!	RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
		Credit Hours	**14**
	Semester Three		
!	RIS 34052	ABDOMINAL SONOGRAPHY II	3
!	RIS 34060	ULTRASOUND CLINICAL EDUCATION II	4
!	RIS 34062	OBSTETRICS AND GYNECOLOGY SONOGRAPHY I	3
!	RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
!	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
		Credit Hours	**16**
	Semester Four		
	RIS 34075	ULTRASOUND CLINICAL EDUCATION III	2
	RIS 34072	SUPERFICIAL STRUCTURES SONOGRAPHY	2
!	RIS 44072	OBSTETRICS AND GYNECOLOGY SONOGRAPHY II	3
!	RIS 44084	ULTRASOUND IMAGE EVALUATION	1
		Credit Hours	**8**
	Semester Five		
!	RIS 44074	VASCULAR SONOGRAPHY	2
!	RIS 44078	SONOGRAPHIC TECHNIQUES	3
!	RIS 44076	ULTRASOUND CLINICAL EDUCATION IV	4
		Credit Hours	**9**
		Minimum Total Credit Hours:	**120**

Diagnostic Medical Sonography Concentration for A.T.S. Radiologic Technology graduates (with certification)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		**Credits**
	Associate of Technical Studies in Radiologic Technology		32
	BSCI 10001	HUMAN BIOLOGY (KBS)	3
	CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3
	CIS 24053 or CS 10001	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES or COMPUTER LITERACY	3
	MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**66**
	Semester One		
	Kent Core Requirement		3
	Kent Core Requirement		1
	Kent Core Requirement		3
		Credit Hours	**7**
	Semester Two		
!	RIS 34040	PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY	3
!	RIS 34042	ABDOMINAL SONOGRAPHY I	3
!	RIS 34044	ULTRASOUND PHYSICS AND INSTRUMENTATION	3
!	RIS 34045	ULTRASOUND CLINICAL EDUCATION I	2
!	RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
		Credit Hours	**14**
	Semester Three		
!	RIS 34052	ABDOMINAL SONOGRAPHY II	3
!	RIS 34060	ULTRASOUND CLINICAL EDUCATION II	4
!	RIS 34062	OBSTETRICS AND GYNECOLOGY SONOGRAPHY I	3
!	RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
!	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
		Credit Hours	**16**
	Semester Four		
	RIS 34072	SUPERFICIAL STRUCTURES SONOGRAPHY	2

	RIS 34075	ULTRASOUND CLINICAL EDUCATION III	2
!	RIS 44072	OBSTETRICS AND GYNECOLOGY SONOGRAPHY II	3
!	RIS 44084	ULTRASOUND IMAGE EVALUATION	1
		Credit Hours	**8**
	Semester Five		
!	RIS 44074	VASCULAR SONOGRAPHY	2
!	RIS 44078	SONOGRAPHIC TECHNIQUES	3
!	RIS 44076	ULTRASOUND CLINICAL EDUCATION IV	4
		Credit Hours	**9**
		Minimum Total Credit Hours:	**120**

Magnetic Resonance Imaging Concentration for A.A.S. Radiologic Technology graduates

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
	Technical requirements in Radiologic Technology		43
	Biology (BSCI) Electives, choose from the following:		6-8
	BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
	BSCI 21010 or BSCI 2102	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY II	
	AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1-3
	MATH 10041 or MATH 11009 or MATH 11010	INTRODUCTORY STATISTICS (KMCR) or MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**63**
	Semester One		
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		3
		Credit Hours	**15**
	Semester Two		
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		5
		Credit Hours	**11**
	Semester Three		
!	RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
!	RIS 44031	PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING	2
!	RIS 44044	MAGNETIC RESONANCE IMAGING PROCEDURES I	2
!	RIS 44051	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I	2
!	RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
!	RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
!	Clinical Elective		2
		Credit Hours	**14**
	Semester Four		
!	RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
!	RIS 44045	MAGNETIC RESONANCE IMAGING PROCEDURES II	2
!	RIS 44052	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II	2
!	RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
!	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
!	Clinical Elective		2
		Credit Hours	**14**
	Second Summer Term		
!	RIS 44066	MAGNETIC RESONANCE IMAGING TECHNIQUES	2
!	Clinical Elective		1
		Credit Hours	**3**
		Minimum Total Credit Hours:	**120**

Magnetic Resonance Imaging Concentration for A.T.S. Radiologic Technology graduates (with certification)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
!	Associate of Technical Studies in Radiologic Technology		32
	BSCI 10001	HUMAN BIOLOGY (KBS)	3
	CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3
	CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES or COMPUTER LITERACY or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
	MATH 11009 or MATH 10041 or MATH 11010	MODELING ALGEBRA (KMCR) or INTRODUCTORY STATISTICS (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**66**
	Semester One		
	General Electives		9
		Credit Hours	**9**
	Semester Two		
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		1
		Credit Hours	**7**

	Semester Three		
!	RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
!	RIS 44031	PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING	2
!	RIS 44044	MAGNETIC RESONANCE IMAGING PROCEDURES I	2
!	RIS 44051	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I	2
!	RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
!	RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
!	Clinical Elective		2
	General Electives		2
		Credit Hours	**16**
	Semester Four		
!	RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
!	RIS 44045	MAGNETIC RESONANCE IMAGING PROCEDURES II	2
!	RIS 44052	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II	2
!	RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
!	Clinical Elective		2
		Credit Hours	**14**
	Second Summer Term		
	RIS 44066	MAGNETIC RESONANCE IMAGING TECHNIQUES	2
!	Clinical Elective		1
	General Electives		5
		Credit Hours	**8**
		Minimum Total Credit Hours:	**120**

Radiation Therapy Concentration for A.S. Degree graduates or Freshman

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		6
	General Electives		2
		Credit Hours	**12**
	Semester Two		
	MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		3
		Credit Hours	**12**
	Semester Three		
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		6
		Credit Hours	**12**
	Semester Four		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		7
		Credit Hours	**16**
	Semester Five		
	BSCI 11010 or BSCI 21010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3-4
	General Electives		6
		Credit Hours	**10**
	Semester Six		
	HED 14020	MEDICAL TERMINOLOGY	3
	PHY 13001 & PHY 13021 or PHY 12111	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) or PHYSICS FOR HEALTH TECHNOLOGIES	3-5
	BSCI 11020 or BSCI 21020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY II	3-4
		Credit Hours	**10**
	Semester Seven		
!	RIS 34003	RADIATION THERAPY PRINCIPLES AND PRACTICE I	3
!	RIS 34004	RADIATION THERAPY PATIENT MANAGEMENT	3
!	RIS 34008	RADIATION THERAPY PHYSICS I	3
!	RIS 34030	RADIATION THERAPY CLINICAL EDUCATION I	1
!	RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
	RIS 44000	INTRODUCTION TO RADIATION THERAPY	2
		Credit Hours	**15**
	Semester Eight		
!	RIS 44009	RADIATION THERAPY PRINCIPLES AND PRACTICE II	2
!	RIS 44018	RADIATION THERAPY PHYSICS II	3
!	RIS 44029	RADIATION THERAPY PATHOLOGY I	3
!	RIS 44053	RADIATION THERAPY CLINICAL EDUCATION II	3
!	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
		Credit Hours	**14**
	Fourth Summer Term		
!	RIS 44028	RADIATION THERAPY RADIOBIOLOGY	3
!	RIS 44042	RADIATION THERAPY PATHOLOGY II	3
!	RIS 44058	RADIATION THERAPY CLINICAL EDUCATION III	2
		Credit Hours	**8**
	Semester Nine		
!	RIS 44038	RADIATION THERAPY PHYSICS III	3
!	RIS 44041	RADIATION THERAPY QUALITY MANAGEMENT	2
!	RIS 44043	RADIATION THERAPY PRINCIPLES/PRACTICE III	3
!	RIS 44067	RADIATION THERAPY CLINICAL EDUCATION IV	3
		Credit Hours	**11**
		Minimum Total Credit Hours:	**120**

Radiation Therapy Concentration for A.A.S. Radiologic Technology graduates

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
	Technical requirements in Radiologic Technology		39
	Biology (BSCI) Electives, choose from the following		6-8
	BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
	BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
	AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1-3
	MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**59**
	Semester One		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Two		
!	RIS 34003	RADIATION THERAPY PRINCIPLES AND PRACTICE I	3
!	RIS 34004	RADIATION THERAPY PATIENT MANAGEMENT	3
!	RIS 34008	RADIATION THERAPY PHYSICS I	3
!	RIS 34030	RADIATION THERAPY CLINICAL EDUCATION I	1
!	RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
		Credit Hours	**13**
	Semester Three		
!	RIS 44009	RADIATION THERAPY PRINCIPLES AND PRACTICE II	2
!	RIS 44018	RADIATION THERAPY PHYSICS II	3
!	RIS 44029	RADIATION THERAPY PATHOLOGY I	3
!	RIS 44053	RADIATION THERAPY CLINICAL EDUCATION II	3
!	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
		Credit Hours	**14**
	Second Summer Term		
!	RIS 44028	RADIATION THERAPY RADIOBIOLOGY	3
!	RIS 44042	RADIATION THERAPY PATHOLOGY II	3
!	RIS 44058	RADIATION THERAPY CLINICAL EDUCATION III	2
		Credit Hours	**8**
	Semester Five		
!	RIS 44038	RADIATION THERAPY PHYSICS III	3
!	RIS 44041	RADIATION THERAPY QUALITY MANAGEMENT	2
!	RIS 44043	RADIATION THERAPY PRINCIPLES/PRACTICE III	3
!	RIS 44067	RADIATION THERAPY CLINICAL EDUCATION IV	3
		Credit Hours	**11**
		Minimum Total Credit Hours:	**120**

Radiation Therapy Concentration for A.T.S. Radiologic Technology graduates (with certification)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
!	Associate of Technical Studies in Radiologic Technology		32
	BSCI 10001	HUMAN BIOLOGY (KBS)	3
	CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	CIS 24053 or CS 10001	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES or COMPUTER LITERACY	3
	MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**66**
	Semester One		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	Kent Core Requirement		3
	Kent Core Requirement		1
	General Electives		1
		Credit Hours	**8**
	Semester Two		
!	RIS 34003	RADIATION THERAPY PRINCIPLES AND PRACTICE I	3
!	RIS 34004	RADIATION THERAPY PATIENT MANAGEMENT	3
!	RIS 34008	RADIATION THERAPY PHYSICS I	3
!	RIS 34030	RADIATION THERAPY CLINICAL EDUCATION I	1
!	RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
		Credit Hours	**13**
	Semester Three		
!	RIS 44009	RADIATION THERAPY PRINCIPLES AND PRACTICE II	2
!	RIS 44018	RADIATION THERAPY PHYSICS II	3
!	RIS 44029	RADIATION THERAPY PATHOLOGY I	3
!	RIS 44053	RADIATION THERAPY CLINICAL EDUCATION II	3
!	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
		Credit Hours	**14**

	Second Summer Term		
!	RIS 44028	RADIATION THERAPY RADIOBIOLOGY	3
!	RIS 44042	RADIATION THERAPY PATHOLOGY II	3
!	RIS 44058	RADIATION THERAPY CLINICAL EDUCATION III	2
		Credit Hours	**8**
	Semester Five		
!	RIS 44038	RADIATION THERAPY PHYSICS III	3
!	RIS 44041	RADIATION THERAPY QUALITY MANAGEMENT	2
!	RIS 44043	RADIATION THERAPY PRINCIPLES/PRACTICE III	3
!	RIS 44067	RADIATION THERAPY CLINICAL EDUCATION IV	3
		Credit Hours	**11**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of the Computed Tomography concentrations will be able to:

1. Effectively utilize critical thinking and problem-solving skills when performing computed tomography procedures.
2. Communicate effectively in oral and written form with patients, families and members of the health care team.
3. Perform Computed Tomography procedures successfully and consistent with entry-level requirements of a registered CT technologist. Successfully perform computed tomography procedures.
4. Determine the value of professional growth and development and to conduct themselves in a professional manner.

Graduates of the Diagnostic Medical Sonography concentrations will be able to:

1. Effectively utilize critical thinking and problem-solving skills in the practice of diagnostic medical sonography.
2. Use oral and written communication skills with members of the health care team.
3. Successfully perform sonographic procedures consistent with entry-level requirements.
4. Determine the value of professional growth and development and conduct themselves in a professional manner.

Graduates of the Magnetic Resonance Imaging concentrations will be able to:

1. Effectively utilize critical thinking and problem-solving skills when performing magnetic resonance imaging procedures.
2. Communicate effectively in oral and written form with patients, families and members of the health care team.
3. Perform Magnetic Resonance Imaging procedures successfully and consistent with entry-level requirements of a registered MRI technologist.
4. Determine the value of professional growth and development and to conduct themselves in a professional manner.

Graduates of the Radiation Therapy concentrations will be able to:

1. Use critical thinking and problem-solving skills in the practice of radiation therapy.
2. Effectively communicate in oral and written form with members of the health care team.
3. Successfully perform radiation therapy procedures consistent with entry-level requirements.
4. Determine the value of professional growth and development and to conduct themselves in a professional manner.

Full Description

The Bachelor of Radiologic and Imaging Sciences Technology degree is designed for students pursuing studies related to medical imaging. Job opportunities for CT and MRI technologists, sonographers and therapists exist in hospitals, surgical centers, clinics, physician offices and other healthcare facilities.

The Radiologic and Imaging Sciences major comprising the following concentrations:

- The **Computed Tomography** concentration uses specialized x-ray equipment to create sectional images of the human body. Each cross-sectional image reveals complex information about body structures that are used for a variety of reasons (i.e., diagnostic, treatment planning, interventional or screening).

- Computed Tomography concentration for students who completed an A.A.S. degree in Radiologic Technology, Nuclear Medicine or Radiation Therapy
- Computed Tomography concentration for students who completed a hospital-based certificate or A.T.S. degree in Radiologic Technology and American Registry of Radiologic Technologist certification examination

- The **Diagnostic Medical Sonography** concentration uses medical ultrasound (high frequency sound waves that produce images of internal structures) to diagnose a variety of conditions and diseases, as well as monitor fetal development.
  - Diagnostic Medical Sonography concentration for new students (freshmen) and students who completed an associate degree
  - Diagnostic Medical Sonography concentration for students who completed an A.A.S. degree in Radiologic Technology
  - Diagnostic Medical Sonography concentration for students who completed a hospital-based certificate program or A.T.S. degree in Radiologic Technology and American Registry of Radiologic Technologist certification examination
- The **Magnetic Resonance Imaging** concentration uses a powerful magnet, radio waves, and computers to create sectional images of the human body. The images reveal complex information about body structures and the chemical changes that occur as a result of the onset of disease.
  - Magnetic Resonance Imaging concentration for students who completed an A.A.S. degree in Radiologic Technology, Nuclear Medicine or Radiation Therapy
  - Magnetic Resonance Imaging concentration for students who completed a hospital-based certificate or A.T.S. degree in Radiologic Technology and American Registry of Radiologic Technologist certification examination
- The **Radiation Therapy** concentration uses specialized high energy treatment units to administer therapeutic doses of radiation to cancer patients.
  - Radiation Therapy concentration for new students (freshmen) and students who completed an associate degree
  - Radiation Therapy concentration for students who completed an A.A.S. degree in Radiologic Technology
  - Radiation Therapy concentration for students who completed a hospital-based certificate program or A.T.S. degree in Radiologic Technology and American Registry of Radiologic Technologist certification examination

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Radiologic Technology - A.A.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Radiologic Technology associate degree at Kent State provides students with the foundational knowledge and practical skills needed for a career in radiologic technology. With a combination of classroom instruction and clinical experience, students will be well-prepared to work in a variety of healthcare settings. Read more...

Contact Information

- Ashtabula Campus:
  - **Tammy McClish, M.Ed., R.T. (R)(M)(QM)(BD)(ARRT)** | tmcclis1@kent.edu | 330-964-4321
  - **Theresa Hootman** | thootma1@kent.edu | 330-964-4252
- Salem Campus:
  - **Sherry DeWitt** | sdewitt@kent.edu | 330-337-4227
  - **Kelly Dragomir, M.A. R.T. (R)(CT)** (Radiologic Technology, CT, and MRI) | kadragom@kent.edu | 330-337-4129
- Speak with an Advisor
  - Ashtabula Campus
  - Salem Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - Salem Campus

Examples of Possible Careers and Salaries*

Diagnostic medical sonographers

- 16.8% much faster than the average
- 74,300 number of jobs
- $75,920 potential earnings

Magnetic resonance imaging technologists

- 7.0% faster than the average
- 38,700 number of jobs
- $74,690 potential earnings

Medical dosimetrists, medical records specialists, and health technologists and technicians, all other

- 8.5% much faster than the average
- 341,600 number of jobs
- $44,090 potential earnings

Radiation therapists

- 7.1% faster than the average
- 18,500 number of jobs
- $86,850 potential earnings

Radiologic technologists and technicians

- 6.7% faster than the average
- 212,000 number of jobs
- $61,900 potential earnings

Accreditation

The A.A.S. degree in Radiologic Technology is nationally accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

20 N. Wacker Dr. Suite 2850, Chicago, IL 60606-3182
312-704-5300
mail@jrcert.org
www.jrcert.org/find-a-program/

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA; min C grade required in all courses)		
RADT 14003	INTRODUCTION TO RADIOLOGIC TECHNOLOGY	2
RADT 14005	CLINICAL EDUCATION I	1
RADT 14006	RADIOGRAPHIC PROCEDURES I	1
RADT 14015	CLINICAL EDUCATION II	3
RADT 14016	PATIENT CARE MANAGEMENT	2
RADT 14018	IMAGING EQUIPMENT	2
RADT 14021	RADIOGRAPHIC PROCEDURES II	4
RADT 14024	RADIOGRAPHIC PROCEDURES III	4
RADT 14025	CLINICAL EDUCATION III	3
RADT 14034	IMAGE ACQUISITION AND PROCESSING	2
RADT 14085	CLINICAL EDUCATION IV	2
RADT 24008	RADIOBIOLOGY AND RADIATION PROTECTION	3
RADT 24016	IMAGING PHYSICS	3
RADT 24015	CLINICAL EDUCATION V	3
RADT 24025	CLINICAL EDUCATION VI	3
RADT 24014	ADVANCED IMAGING	2
RADT 24028	RADIOLOGIC PATHOLOGY	3
RADT 24048	RADIOGRAPHIC TECHNIQUES	3
Additional Requirements (courses do not count in major GPA)		
AHS 24010	MEDICAL TERMINOLOGY	1-3
or HED 14020	MEDICAL TERMINOLOGY	
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) (min C grade) [1]	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) (min C grade) [1]	3
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Humanities and Fine Arts		3
Minimum Total Credit Hours:		**66**

[1] Students who have completed BSCI 21010 and BSCI 21020 (or ATTR 25057 and ATTR 25058, or EXSC 25057 and EXSC 25058) may use these courses in place of BSCI 11010 and BSCI 11020, but the courses must have been completed within the past five years prior to admission to the program.

Progression Requirements

To be able to register for Radiologic Technology (RADT) courses, students must be admitted to technical study. Admission is selective due to the limited number of students approved for each clinical education setting. Admission criteria are the following:

- Minimum 2.750 high school GPA (minimum 2.750 overall GPA for applicants previously or currently attending a college)
- Completion of high school or college-level algebra course (or MATH 00022) with minimum C grade
- Completion of high school or college-level biology course with minimum C grade
- Completion of high school or college-level chemistry course with minimum C grade
- Minimum four hours of job shadowing (eight hours preferred)
- Submission of a Radiologic Technology application
- Interview

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- A minimum C grade is required in most courses; view the program requirements to see specific courses.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

First Year

	Summer		Credits
	AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1-3
	RADT 14003	INTRODUCTION TO RADIOLOGIC TECHNOLOGY	2
	RADT 14005	CLINICAL EDUCATION I	1
	RADT 14006	RADIOGRAPHIC PROCEDURES I	1
		Credit Hours	**5**
	Fall Semester		
	BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
!	RADT 14015	CLINICAL EDUCATION II	3
	RADT 14016	PATIENT CARE MANAGEMENT	2
!	RADT 14018	IMAGING EQUIPMENT	2
!	RADT 14021	RADIOGRAPHIC PROCEDURES II	4
	UC 10001	FLASHES 101	1
		Credit Hours	**15**
	Spring Semester		
	BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
	MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
!	RADT 14024	RADIOGRAPHIC PROCEDURES III	4
!	RADT 14025	CLINICAL EDUCATION III	3
	RADT 14034	IMAGE ACQUISITION AND PROCESSING	2
		Credit Hours	**15**

Second Year

	Summer		
	RADT 14085	CLINICAL EDUCATION IV	2
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**8**
	Fall Semester		
!	RADT 24008	RADIOBIOLOGY AND RADIATION PROTECTION	3
	RADT 24014	ADVANCED IMAGING	2
!	RADT 24015	CLINICAL EDUCATION V	3
	RADT 24016	IMAGING PHYSICS	3
		Credit Hours	**11**
	Spring Semester		
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
!	RADT 24025	CLINICAL EDUCATION VI	3
	RADT 24028	RADIOLOGIC PATHOLOGY	3
	RADT 24048	RADIOGRAPHIC TECHNIQUES	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**66**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.		
Kent Core (see table below)		15
Total Credit Hour Requirement		60
Some associate degrees require students to complete more than 60 credit hours.		

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Utilize critical thinking and problem-solving skills effectively in the practice of radiologic technology.
2. Communicate effectively in oral and written form with patients' families and members of the health care team.
3. Perform radiographic procedures successfully and consistently with entry-level requirements of a registered radiologic technologist.
4. Determine the value of professional growth and development and to conduct themselves in a professional manner.

Full Description

The Associate of Applied Science degree in Radiologic Technology educates students on how to perform diagnostic imaging procedures. Medical imaging is a branch of health care delivery that utilizes x-rays and other energy forms to aid in the diagnosis and treatment of medical conditions. Through a blend of classroom education at the university and clinical education at a hospital or outpatient centers, students learn anatomy, patient positioning, examination techniques, radiation safety, basic patient care and imaging equipment operation.

Graduates are eligible to take the certification examination administered by the American Registry of Radiologic Technologists (ARRT) to become registered radiologic technologists.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for

state licensing boards at Kent State's website for professional licensure disclosure.

Radiologic Technology - A.T.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Designed for students who already have a certificate in a related field, Kent State's Radiologic Technology program offers a flexible and convenient way to gain the specialized knowledge and skills needed to succeed in radiologic technology. Read more...

Contact Information

- Ashtabula Campus:
  - **Tammy McClish, M.Ed., R.T. (R)(M)(QM)(BD)(ARRT)** | tmcclis1@kent.edu | 330-964-4321
  - **Theresa Hootman** | thootma1@kent.edu | 330-964-4252
- Salem Campus:
  - **Sherry DeWitt** | sdewitt@kent.edu | 330-337-4227
  - **Kelly Dragomir, M.A. R.T. (R)(CT)** (Radiologic Technology, CT and MRI) | kdragom@kent.edu | 330-337-4129

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Salem Campus

Examples of Possible Careers and Salaries*

Diagnostic medical sonographers

- 16.8% much faster than the average
- 74,300 number of jobs
- $75,920 potential earnings

Magnetic resonance imaging technologists

- 7.0% faster than the average
- 38,700 number of jobs
- $74,690 potential earnings

Radiologic technologists and technicians

- 6.7% faster than the average
- 212,000 number of jobs
- $61,900 potential earnings

Radiation therapists

- 7.1% faster than the average
- 18,500 number of jobs
- $86,850 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition [1]		6
Additional Major Requirements or Concentration		
Choose from the following:		59-60
Additional Requirements for Students Not Declaring a Concentration		
Radiology Department Management Technology		
Minimum Total Credit Hours:		**66-67**

[1] 3 credit hours are required for Kent Core (University Requirements). This program requires a total of 6 credit hours to earn the degree.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Prerequisite Requirements		
Credits awarded on the basis of certification by the American Registry of Radiologic Technologists [1]		32
Additional Requirements (courses do not count in major GPA)		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or CHEM 10055	MOLECULES OF LIFE (KBS)	

IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
or CS 10001	COMPUTER LITERACY	
or CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Additional [3]		3
Kent Core Humanities and Fine Arts [2]		6
Kent Core Social Sciences		3
Minimum Total Credit Hours:		**59**

1 On the basis of certification, maximum 32 credit hours are awarded only after the completion of program requirements

2 3 credit hours are required for Kent Core (University Requirements). This program requires a total of 6 credit hours to to earn the non-concentration option in the degree.

3 This program requires a total of 3 credit hours of Additional Kent Core to earn the non-concentration option in the degree.

Radiology Department Management Technology Concentration Requirements

Code	Title	Credit Hours
Prerequisite Requirements		
Credits awarded on the basis of certification by the American Registry of Radiologic Technologists [1]		30
Major Requirements (courses count in major GPA)		
BMRT 11000	INTRODUCTION TO BUSINESS	3
or BUS 10123	EXPLORING BUSINESS	
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
or MGMT 24163	PRINCIPLES OF MANAGEMENT	
BMRT 21000	BUSINESS LAW AND ETHICS I	3
or FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	
BMRT 31006	HUMAN RESOURCE MANAGEMENT	3
or HRM 34180	HUMAN RESOURCE MANAGEMENT	
BMRT 21050	FUNDAMENTALS OF MARKETING TECHNOLOGY	3
or MKTG 25010	PRINCIPLES OF MARKETING	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Kent Core Basic Sciences		3
Kent Core Humanities and Fine Arts		3
Minimum Total Credit Hours:		**60**

1 On the basis of certification, maximum 30 credit hours are awarded only after the completion of program requirements

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmaps

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Radiologic Technology (No Concentration)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite		Credits
Credits awarded on the basis of certification by the American Registry of Radiologic Technologists		32
	Credit Hours	**32**
Semester One		
IT 11000 or CS 10001 or CIS 24053	INTRODUCTION TO OFFICE PRODUCTIVITY APPS or COMPUTER LITERACY or INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
	Credit Hours	**13**
Semester Two		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**12**
Semester Three		
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**9**
	Minimum Total Credit Hours:	**66**

Radiology Department Management Technology Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite		Credits
Credits awarded on the basis of certification by the American Registry of Radiologic Technologists		30
	Credit Hours	**30**
Semester One		
BMRT 11000 or BUS 10123	INTRODUCTION TO BUSINESS or EXPLORING BUSINESS	3
BMRT 11009 or MGMT 24163	INTRODUCTION TO MANAGEMENT TECHNOLOGY or PRINCIPLES OF MANAGEMENT	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
	Credit Hours	**13**
Semester Two		
BMRT 31006 or HRM 34180	HUMAN RESOURCE MANAGEMENT or HUMAN RESOURCE MANAGEMENT	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**12**
Semester Three		
BMRT 21000 or FIN 26074	BUSINESS LAW AND ETHICS I or LEGAL ENVIRONMENT OF BUSINESS	3
BMRT 21050 or MKTG 25010	FUNDAMENTALS OF MARKETING TECHNOLOGY or PRINCIPLES OF MARKETING	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
Kent Core Requirement		3
	Credit Hours	**12**
	Minimum Total Credit Hours:	**67**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
	Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Kent Core (see table below)		15
Total Credit Hour Requirement		60

Some associate degrees require students to complete more than 60 credit hours.

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate oral and written communication skills.
2. Use mathematics, science and computer skills in radiology.
3. Improve patient care skills.

Full Description

The Associate of Technical Study degree in Radiologic Technology offers a completion program to graduates of certificate programs in radiologic technology. Kent State University awards college credit for the hospital-based program and American Registry of Radiologic Technologists certification.

The degree program articulates to Kent State's Bachelor of Radiologic and Imaging Sciences Technology degree.

The Radiologic Technology major includes the following optional concentration:

- Radiology Department Management Technology

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Respiratory Care - B.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Bachelor of Science degree in Respiratory Care is a completer program designed to prepare qualified respiratory therapists with the necessary knowledge and skills to develop professionalism and advance their careers in the areas of leadership, management, education, research, disease and sleep medicine utilizing best practices in order to advance the practice of respiratory care.

Contact Information

- **Amy Rodenhausen** | arodenha@kent.edu | 440-964-4362
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Respiratory therapists

- 19.4% much faster than the average
- 135,800 number of jobs
- $62,810 potential earnings

Accreditation

Commission on Accreditation for Respiratory Care (CoARC)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Admission to the Respiratory Care major is selective. Applicants must hold an active credential for certified respiratory therapist (CRT) or registered respiratory therapist (RRT) and an entry-level degree from an accredited respiratory therapy/care program with a minimum 2.000 overall GPA.

Applicants who are actively enrolled and in good standing in the second year of an accredited entry-level associate degree in respiratory therapy/care or are actively enrolled and in good standing in the third year of an accredited entry-level bachelor's degree in respiratory therapy/care may be conditionally enrolled in the program.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
NURS 46000	HEALTH CARE POLICY	3
RSPC 30000	PROFESSIONAL PRACTICE IN RESPIRATORY CARE	3
RSPC 30002	LEADERSHIP AND MANAGEMENT IN RESPIRATORY CARE	3
RSPC 30004	EDUCATIONAL INSTRUCTION IN RESPIRATORY CARE	3
RSPC 30006	SLEEP MEDICINE AND POLYSOMNOGRAPHY	3
RSPC 40002	RESEARCH DEVELOPMENT IN RESPIRATORY CARE (WIC) [1]	3
RSPC 40004	ADVANCED PRACTICE IN RESPIRATORY CARE	3
RSPC 40006	CONTEMPORARY ISSUES AND TRENDS IN RESPIRATORY CARE	3
RSPC 40008	CHRONIC DISEASE MANAGEMENT PRINCIPLES	3
RSPC 40075	INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS	3
RSPC 41092	PRACTICUM FOR RESPIRATORY CARE (ELR)	3
Additional Requirements (courses do not count in major GPA)		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	3
UC 10001	FLASHES 101	1
Statistics Electives, choose from the following:		3-4
BA 24056	BUSINESS ANALYTICS I	
MATH 10040	INTRODUCTORY STATISTICS PLUS (KMCR)	
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
MATH 12022	PROBABILITY AND STATISTICS FOR LIFE SCIENCES [3]	
MATH 30011	BASIC PROBABILITY AND STATISTICS [3]	
PH 30002	INTRODUCTORY BIOSTATISTICS	
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	
SOC 32220 & SOC 32221	DATA ANALYSIS and DATA ANALYSIS LABORATORY	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [4]		44
Minimum Total Credit Hours:		**120**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.
2 Not required of transfer students with 25 or more credit hours
3 MATH 12022 and MATH 30011 are not offered online presently.
4 The majority of general elective credit hours may be transfer courses from an associate degree in respiratory care/therapy.

Progression Requirements

To be able to register for Respiratory Care (RSPC) courses, students must be admitted to professional study. Admission is a selective process. Criteria for admission into professional study are the following:

- Evidence of an earned accredited entry-level associate degree in respiratory therapy/care or accredited entry- level bachelor's degree in respiratory therapy/care
- Evidence of earned RRT credential
- Evidence of current active license to practice respiratory therapy

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Transfer courses from associate degree in respiratory care/ therapy		41
	Kent Core Requirements		15
		Credit Hours	**59**
	Semester One		
	UC 10001	FLASHES 101	1
	Statistics Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	3
!	RSPC 30002	LEADERSHIP AND MANAGEMENT IN RESPIRATORY CARE	3
!	RSPC 30004	EDUCATIONAL INSTRUCTION IN RESPIRATORY CARE	3
!	RSPC 40002	RESEARCH DEVELOPMENT IN RESPIRATORY CARE (WIC)	3
!	RSPC 40004	ADVANCED PRACTICE IN RESPIRATORY CARE	3
		Credit Hours	**15**
	Semester Three		
!	RSPC 30000	PROFESSIONAL PRACTICE IN RESPIRATORY CARE	3
!	RSPC 30006	SLEEP MEDICINE AND POLYSOMNOGRAPHY	3
	Kent Core Requirement		6
	General Elective		3
		Credit Hours	**15**
	Semester Four		
!	NURS 46000	HEALTH CARE POLICY	3
!	RSPC 40006	CONTEMPORARY ISSUES AND TRENDS IN RESPIRATORY CARE	3
!	RSPC 40008	CHRONIC DISEASE MANAGEMENT PRINCIPLES	3
!	RSPC 40075	INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS	3
!	RSPC 41092	PRACTICUM FOR RESPIRATORY CARE (ELR)	3
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate effective written, oral and visual communication skills by presenting arguments, recommendations and research with relevant sources used for support with proper citation.
2. Use research methodology and critical inquiry to formulate research questions, search for relevant literature, critically evaluate literature to determine quality, synthesize available literature and write a research project proposal.
3. Utilize research and theories of teaching and learning to produce educational materials for patients, families and healthcare professionals.
4. Analyze contemporary issues and evidence-based practices in respiratory care, and demonstrate the ability to identify the impact on professional practice and the ability to advocate for patients through ethical and current best practices.
5. Explore the principles of inter-professional collaboration and leadership to identify how teams come together to improve the

knowledge of the team and create innovations for advancement of the field and improvements in patient outcomes.

Respiratory Therapy - A.A.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Prepare for a career as a registered respiratory therapist. Students will take online lectures with in-person labs, combining the flexibility of virtual learning with valuable, hands-on experience. Gain in-depth knowledge through our comprehensive curriculum and clinical training opportunities. Our experienced faculty and state-of-the-art facilities provide you with the tools and support needed to excel in the field. Enroll now and start your journey toward a fulfilling career in respiratory therapy.Read more...

Contact Information

- **Amy Rodenhausen** | arodenha@kent.edu | 440-964-4362
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**
  - Ashtabula Campus
  - Cleveland Clinic Main Campus

Examples of Possible Careers and Salaries*

Respiratory therapists

- 19.4% much faster than the average
- 135,800 number of jobs
- $62,810 potential earnings

Accreditation

The Kent State University Respiratory Therapy programs, CoARC program number 200574 and 300037 Associate of Applied Science degree at Ashtabula and Cleveland Clinic, are accredited by the Commission on Accreditation for Respiratory Care (www.coarc.com).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The Respiratory Therapy major is cohort-based, with students admitted in the spring semester only. Spring admission is limited to 20 students at the Ashtabula Campus and 10 students at the Cleveland Clinic location.

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA; min C grade required in all courses)		
RESP 10000	INTRODUCTION TO RESPIRATORY THERAPY	4
RESP 11003	APPLICATION AND MECHANISMS OF CARDIOPULMONARY ANATOMY AND PHYSIOLOGY	3
RESP 11004	THERAPEUTICS	6
RESP 11008	BLOOD GAS ANALYSIS	2
RESP 21000	CRITICAL CARE	4
RESP 21001	MECHANICAL VENTILATION	5
RESP 21003	PERINATAL AND PEDIATRIC RESPIRATORY THERAPY	2
RESP 21004	ADVANCED DIAGNOSTICS	3
RESP 21006	PULMONARY REHABILITATION AND CONTINUING CARE	1
RESP 21013	RESPIRATORY THERAPY CAPSTONE	2
Additional Requirements (courses do not count in major GPA)		
AHS 12000	BASIC PRINCIPLES OF PHARMACOLOGY (min C grade for both)	2
or RESP 11001	RESPIRATORY CARE PHARMACOLOGY	
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) (min C grade for both) [1]	3-4
or BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) (min C grade for both) [1]	3-4
or BSCI 21020	ANATOMY AND PHYSIOLOGY II	
BSCI 20021	BASIC MICROBIOLOGY (min C grade for both)	3-4
or BSCI 30171	GENERAL MICROBIOLOGY	
COMM 20001	INTERPERSONAL COMMUNICATION (min C grade)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
RESP 11002	CARDIOPULMONARY DISEASES (min C grade)	3
UC 10001	FLASHES 101	1

Chemistry Elective, choose from the following:		3-4
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	
CHEM 10055	MOLECULES OF LIFE (KBS)	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Minimum Total Credit Hours:		**65**

[1] Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 (or BSCI 21010 and BSCI 21020).

Progression Requirements

To be able to register for respiratory therapy (RESP) courses, students must be accepted to technical study. Acceptance is a selective process. Criteria for acceptance are the following;

- Minimum 2.700 overall GPA
- Completion, or placement out, of MATH 00022 (or equivalent)
- Completion of required first anatomy and physiology course with minimum C grade: BSCI 11010 or BSCI 21010 (or equivalent)
- Completion of required chemistry course with minimum C grade: CHEM 10050 or CHEM 10055 or CHEM 10060 or CHEM 10061 (or equivalent)
- Completion of four hours of job shadowing experience

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
	BSCI 11010 or BSCI 21010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3-4
		Credit Hours	**3**
First Year			
	Spring Semester		
!	RESP 10000	INTRODUCTION TO RESPIRATORY THERAPY	4
!	RESP 11003	APPLICATION AND MECHANISMS OF CARDIOPULMONARY ANATOMY AND PHYSIOLOGY	3
	UC 10001	FLASHES 101	1
	Chemistry Elective		3-4
		Credit Hours	**11**
	Summer Term		
	BSCI 11020 or BSCI 21020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY II	3-4
	BSCI 20021 or BSCI 30171	BASIC MICROBIOLOGY or GENERAL MICROBIOLOGY	3
	Kent Core Requirement		3
		Credit Hours	**9**
Second Year			
	Fall Semester		
	AHS 12000 or RESP 11001	BASIC PRINCIPLES OF PHARMACOLOGY or RESPIRATORY CARE PHARMACOLOGY	2
!	RESP 11002	CARDIOPULMONARY DISEASES	3
!	RESP 11004	THERAPEUTICS	6
!	RESP 11008	BLOOD GAS ANALYSIS	2
		Credit Hours	**13**
	Spring Semester		
!	RESP 21001	MECHANICAL VENTILATION	5
!	RESP 21003	PERINATAL AND PEDIATRIC RESPIRATORY THERAPY	2
!	RESP 21004	ADVANCED DIAGNOSTICS	3
	Kent Core Requirement		3
		Credit Hours	**13**
	Summer Term		
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
!	RESP 21000	CRITICAL CARE	4
		Credit Hours	**7**
Third Year			
	Fall Semester		
	COMM 20001 or COMM 36500	INTERPERSONAL COMMUNICATION or HEALTH COMMUNICATION	3
!	RESP 21006	PULMONARY REHABILITATION AND CONTINUING CARE	1
!	RESP 21013	RESPIRATORY THERAPY CAPSTONE	2
	Kent Core Requirement		3
		Credit Hours	**9**
		Minimum Total Credit Hours:	**65**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.		
Kent Core (see table below)		15
Total Credit Hour Requirement		60
Some associate degrees require students to complete more than 60 credit hours.		

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe, apply and analyze respiratory care principles, current theories and practices required of registered respiratory therapists as defined by the National Board for Respiratory Care (NBRC).
2. Exhibit competence in performing technical skills and procedures utilized in current practice by registered respiratory therapists.
3. Model personal professional ethics and behaviors expected of registered respiratory therapists in practice to obtain and maintain a positive impact in patient care and inter-staff relations.

Program Policies

Readmission

Students seeking readmission to the A.A.S. degree in Respiratory Therapy must submit a written request to the program director. A minimum 2.000 overall GPA from Kent State University is required for readmission. The decision of readmission is made by the Admission/Readmission Committee and may be based on seat availability.

Students seeking readmission to the program must complete the following:

1. Provide documentation of a current two-step Mantoux test and Basic Life Support (BLS) for Healthcare Providers card.
2. Repeat their BCI/FBI background check, drug testing and either retest or meet all other requirements as outlined in the Progression Requirements.
3. Re-demonstrate previously learned skills prior to entering clinical sites at the discretion of the instructor. Scheduling of re-demonstration of skills must be discussed with the program director prior to re-entering the program.

Students in the withdrawn or failed category will be removed from the status of “Admitted to Technical Study” until they meet all readmission requirements.

Any student who fails to meet the program's requirements a second time will be dismissed from the program and will not be able to register for future RESP courses or be eligible for readmission.

Students who are entering the program for the second time after withdrawing during their first or second semester for non-academic reasons may be excluded from the program completion time limit (three years) and re-start the program as a new student. For more information, see the Program Requirements Completion policy.

Remediation

Competencies in the Clinical Setting

Remediation begins after students who have passed a competency in the laboratory setting but failed the same competency after three attempts in the clinical setting with a clinical instructor. The director of clinical education will re-instruct students in the proper technique and complete remediation documentation with the students. Students are given two weeks to practice and prepare for re-demonstration of the competency. Students will then re-test with a program instructor in the laboratory setting.

- Students who fail the competency at this time will receive an F grade for the course.
- Students who pass the competency will return to the clinical site for demonstrate the competency with a clinical instructor or preceptor. Students will again have three attempts. Students who are unable to pass the competency in the clinical setting a second time will receive an F grade for the course.

Clinical instructors or preceptors will make every effort to complete required competencies with students and make referrals before the last two weeks of the semester.

Competencies in the Laboratory Setting

Students will be remediated in accordance with their course syllabus. Students who fail any competency in the laboratory setting for the third time must meet with the program director prior to attempting the competency for the fourth time.

Time Limits

All students enrolled in the program have a maximum of two years to complete all program requirements. This is inclusive of students in the withdrawn or failed category or status. Students who are entering the program for the second time after withdrawing during their first or second semester for non-academic reasons may be excluded from this and re-start the program as a new student. For more information on re-starting the program, see the Readmission Policy.

Full Description

The Associate of Applied Science degree in Respiratory Therapy provides students the skills to evaluate, treat and care for patients with breathing or other cardiopulmonary disorders. Practicing under the direction of a physician, respiratory therapists assume primary responsibility for all respiratory care therapeutic treatments and diagnostic procedures. Respiratory Therapists also provide complex therapy requiring considerable independent judgment, such as caring for patients on life support in intensive-care units of hospitals.

Graduates of the program are eligible to take national credentialing examinations administered by the National Board for Respiratory Care to become Certified and Registered Respiratory Therapists (CRT, RRT), Certified and Registered Pulmonary Function Technologists (CPFT, RPFT) and Neonatal Pediatric Specialist (NPS).

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for

state licensing boards at Kent State's website for professional licensure disclosure.

Semiconductor Manufacturing Technician - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Unlock the gateway to cutting-edge manufacturing with our Semiconductor Manufacturing Technician certificate, immersing students in a world of semiconductor fabrication, clean room expertise and advanced vacuum technology. From mastering DC circuits to troubleshooting with precision, our program equips graduates to seamlessly bridge the gap between engineering ingenuity and practical production. Join us in revolutionizing technology as semiconductor manufacturing technicians, driving innovation in chip production and circuit board design with every step. Read more...

Contact Information

- **Flavia Princess Nesamani Inbanathan, Ph.D.** | finbanat@kent.edu | 330-675-8962
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Mostly online
  - In person
- **Location:**
  - Trumbull Campus

Examples of Possible Careers*

Semiconductor processing technicians

- 0.7% little or no change
- 30,800 number of jobs
- $40,500 potential earnings

Additional Careers

- Field Service Technician - Semiconductor Equipment
- Industrial Maintenance Mechanic
- Packaging Technician
- Semiconductor Manufacturing Technician
- Senior Equipment Maintenance Technician - Semiconductors

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Code	Title	Credit Hours
Certificate Requirements		
ATS 11001	INTRODUCTION TO VACUUM SYSTEMS	3
ATS 11002	OVERVIEW OF MANUFACTURING MAINTENANCE	3
EERT 11000	INTRODUCTION TO SEMICONDUCTOR AND CLEANROOM	4
EERT 12000	ELECTRIC CIRCUITS I	4
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
Minimum Total Credit Hours:		**17**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.00	2.00

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the capability of working safely in a cleanroom and microelectronic manufacturing environment.
2. Articulate how a semiconductor wafer is manufactured and processed to become an integrated circuit.
3. Articulate chemistry and safety awareness in semiconductor manufacturing.
4. Read and follow standard operating procedures/checklists in paper or digital format.
5. Examine maintenance procedures.
6. Articulate basic principles and purpose of quality control and quality systems.

7. Examine the basic concepts of geometric dimensioning, tolerancing, visualization and graphics in engineering technology.
8. Explain the operational mechanisms and process use of vacuum pumps used in the semiconductor industry.
9. Demonstrate the ability to test and troubleshoot a vacuum pump system with a leak.
10. Construct, analyze and troubleshoot DC electric circuits.
11. Demonstrate working with computers in daily manufacturing process environment.
12. Demonstrate problem-solving, critical thinking and communication skills.

Full Description

The Semiconductor Manufacturing Technician undergraduate certificate provides students with a core of hi-tech manufacturing-related courses and a focus on semiconductor fabrication, clean room, vacuum technology, manufacturing and maintenance, DC circuits and trouble shooting and fundamental use of computers in their daily work. Semiconductor manufacturing technicians help engineers to manufacture semiconductor chips in the fabrication plant, operate and maintain the vacuum pumps and systems in manufacturing facility, design and work with circuit boards in the manufacturing environment.

The certificate allows graduates to work in product evaluation and testing, using measuring and diagnostic devices to adjust, test and repair equipment.

The certificate articulates with Kent State's undergraduate certificate in Advanced Semiconductor Manufacturing Technician and the Associate degree in Electrical/Electronics Engineering Technology program.

Social Work - B.S.W.

College of Applied and Technical Studies
www.kent.edu/cats/bsw

About This Program

The Bachelor of Social Work program equips you with the knowledge and skills needed to make a positive impact on the lives of individuals, families, and communities. With a focus on social justice and human rights, you'll learn how to advocate for marginalized populations and create meaningful change in society. Enroll now and start making a difference in the world. Read more...

Contact Information

- **Matt Butler, MSSA, LISW-S, LICDC-CS** | mabutle3@kent.edu | 440-964-4268
- Speak with an Advisor
  - Ashtabula Campus
  - Salem Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**
  - Ashtabula Campus
  - Salem Campus
  - Tuscarawas Campus

Examples of Possible Careers and Salaries*

Social workers, all other

- 5.1% faster than the average
- 62,500 number of jobs
- $64,210 potential earnings

Accreditation

The Kent State University Bachelor of Social Work Program has achieved candidacy for accreditation by the Council on Social Work Education's (CSWE) Board of Accreditation (BOA).

Candidacy for a baccalaureate or master's social work program by the BOA indicates that it has made progress toward meeting standards of program quality evaluated through a peer review accreditation process. A program that has attained candidacy status has demonstrated a commitment to meeting the standards set by the Educational Policy and Accreditation Standards (EPAS) but has not yet demonstrated full compliance. Students that are admitted to candidate programs in the fall (or later) of the academic year in which the program is granted candidacy status will be retroactively recognized as graduates from a CSWE-BOA accredited program as long as the program attains initial accreditation. Candidacy is typically a 3-year process and attaining candidacy does not guarantee that a program will eventually attain initial accreditation.

Candidacy applies to all program options, which includes locations and delivery methods.

Accreditation provides reasonable assurance about the quality of the program and the competence of students graduating from the program.

Review our program's candidacy status in CSWE's Directory of Accredited Programs (https://www.cswe.org/accreditation/about/directory/?). For more information about social work accreditation, contact CSWE's Department of Social Work Accreditation.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA; min C/S grade required in all courses)		
SWK 24140	INTRODUCTION TO SOCIAL WORK	3
SWK 24146	PERSPECTIVES ON BEHAVIOR AND ENVIRONMENT I	3
SWK 24147	PERSPECTIVES ON BEHAVIOR AND ENVIRONMENT II	3
SWK 25100	SOCIAL WORK IN RURAL SETTINGS	3
SWK 25248	SOCIAL WELFARE POLICY	3
SWK 34140	PRACTICE CONTENT FOR SOCIAL WORK I	3
SWK 34141	PRACTICE CONTENT FOR SOCIAL WORK II	3
SWK 34149	APPLIED RESEARCH IN SOCIAL WORK	3
SWK 44192	FIELD EXPERIENCE I (ELR)	3
SWK 44210	INTEGRATIVE SEMINAR	3
SWK 44292	FIELD EXPERIENCE II (ELR)	3
SWK 44299	SOCIAL WORK CAPSTONE (ELR) (WIC)	3
Major Electives, choose from the following:		12
SWK 25195	SPECIAL TOPICS IN SOCIAL WORK	
SWK 35120	SOCIAL WORK IN MENTAL HEALTH SETTINGS	
SWK 35121	SOCIAL WORK IN SUBSTANCE USE DISORDER SETTINGS	
SWK 35122	SOCIAL WORK IN CHILD WELFARE SETTINGS	
SWK 35123	SOCIAL WORK AND TRAUMA-INFORMED CARE	
SWK 35124	SOCIAL WORK PERSPECTIVES ON AGING	
SWK 35125	INTERPROFESSIONAL APPROACHES TO SUICIDE PREVENTION	
SWK 35195	SPECIAL TOPICS IN SOCIAL WORK	
SWK 35196	INDIVIDUAL INVESTIGATION IN SOCIAL WORK	
Additional Program Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		35
Minimum Total Credit Hours:		**120**

Progression Requirements

Prior to enrolling in SWK 44192, students must complete the following requirements:

1. Complete the required college courses as specified on the roadmap, with a minimum 2.000 GPA in all social work (SWK) courses.
2. Submit an application to be considered for a field placement.
3. Meet with the program's field director or program director to determine options for placement sites.
4. Complete the background check and other orientation or pre-placement requirements as dictated by placement site.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Minimum 400 hours of supervised field experience

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
SWK 24140	INTRODUCTION TO SOCIAL WORK	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
SWK 24146	PERSPECTIVES ON BEHAVIOR AND ENVIRONMENT I	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**

Semester Three		
SWK 24147	PERSPECTIVES ON BEHAVIOR AND ENVIRONMENT II	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
SWK 25100	SOCIAL WORK IN RURAL SETTINGS	3
SWK 25248	SOCIAL WELFARE POLICY	3
General Electives		8
	Credit Hours	**14**
Semester Five		
SWK 34140	PRACTICE CONTENT FOR SOCIAL WORK I	3
SWK 34149	APPLIED RESEARCH IN SOCIAL WORK	3
General Electives		9
	Credit Hours	**15**
Semester Six		
SWK 34141	PRACTICE CONTENT FOR SOCIAL WORK II	3
Social Work Electives		6
General Electives		6
	Credit Hours	**15**
Semester Seven		
SWK 44210	INTEGRATIVE SEMINAR	3
SWK 44192	FIELD EXPERIENCE I (ELR)	3
Social Work Elective		3
General Electives		6
	Credit Hours	**15**
Semester Eight		
SWK 44299	SOCIAL WORK CAPSTONE (ELR) (WIC)	3
SWK 44292	FIELD EXPERIENCE II (ELR)	3
Social Work Elective		3
General Electives		6
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Use social work skills to assess and treat micro-, mezzo- and macro-level challenges.
2. Apply ethical standards in interactions with social work clients.
3. Demonstrate cultural competence in social work practice.
4. Advocate for oppressed individuals and groups through social justice.
5. Apply social work skills using the person-in-environment focus to work with individuals, families, groups, organizations and communities.
6. Effectively communicate as a professional social worker using written and verbal language skills.

Full Description

The Bachelor of Social Work degree prepares students to work at a generalist level across many social work areas or to continue on to the Master of Social Work degree. Students in the program apply their academic knowledge to the practical realities of making a difference in the lives of individuals, families and communities. The curriculum includes a focus on rural social work, with options for students to specialize in mental health, substance use disorder, gerontology, child welfare settings, suicide prevention and trauma-informed care.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Software Development - Minor

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The Software Development minor is designed to complement a wide range of majors. The curriculum focuses on web scripting, Java, Python, C#, database and mobile device programming. The minor provides students with hands-on experience and a robust understanding of software development principles across various platforms and languages, preparing them for roles in information technology, programming and systems development.

Contact Information

- **Shelley Marshall** | skmarsha@kent.edu | 440-964-4348
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Online (any campus above)

Program Delivery

- **Delivery:**
  - Fully online

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
IT 15000	FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY	3
IT 21006	DATABASE PROGRAMMING	3
IT 21037	WEB SCRIPTING	3
IT 30000	PYTHON PROGRAMMING IN INFORMATION TECHNOLOGY	3
IT 36305	C# PROGRAMMING	3
IT 36306	JAVA PROGRAMMING	3
IT 36309	PROGRAMMING MOBILE APPLICATIONS	3
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate understanding of core programming principles, including data types, variables, control structures and problem-solving strategies.
2. Write and debug basic software applications across multiple programming languages.
3. Apply best practices for database optimization, normalization and secure data handling.
4. Create and maintain dynamic web applications through scripting technologies that combine client-side and server-side development.
5. Integrate web-based solutions with back-end databases and application programming interface (API) to enable user interactivity and data processing.
6. Utilize Python, Java and C# effectively to develop diverse applications, applying language-specific strengths to problem-solving.
7. Leverage object-oriented programming and reusable code structures for efficient and scalable solutions.
8. Design, implement, and deploy mobile applications tailored to user needs and compatible with multiple platforms (e.g., iOS, Android).
9. Integrate mobile applications with external API and services to extend functionality.
10. Apply secure coding principles to mitigate vulnerabilities across software development projects.
11. Optimize code for performance, scalability and maintainability.

Technical and Applied Studies - B.T.A.S.

College of Applied and Technical Studies
www.kent.edu/cats/btas

About This Program

Unlock your career potential with Kent State's Bachelor of Technical and Applied Studies program. Designed for students with an associate degree or equivalent credits, this program provides a flexible path to earn a bachelor's degree and advance your career. Enroll now and take the first step toward achieving your professional goals. Read more...

Contact Information

- **Carolyn Carvalho** | ccarvalh@kent.edu | 440-964-4222
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus

- Tuscarawas Campus
- Online (any campus above)

- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
  - In Person (Leavittsburg and Lisbon locations only)
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Leavittsburg, Ohio
  - Lisbon, Ohio

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Students who wish to declare the B.T.A.S. degree must meet with an academic advisor prior to admission or changing their major to discuss their future academic and career goals and to develop an approved program of study. Ideally, students should begin the process for evaluation and program review at or near the time they have a minimum of 12 earned credit hours of college-level coursework.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

This degree program may not be earned as a double major or dual degree with another major and cannot be earned as an additional degree after another degree at the same or higher level has been earned previously.

This degree program may not be earned as a double major or dual degree with another major and cannot be earned as an additional degree after another degree at the same or higher level has been earned previously.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Program Requirements (courses count in major GPA)		
TAS 37900	TECHNICAL AND APPLIED STUDIES CORNERSTONE (min C grade) [2]	3
TAS 40092	INTERNSHIP FOR TECHNICAL AND APPLIED STUDIES (ELR) [1]	3
TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC) (min C grade) [3]	3
Additional Program Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Specialization Areas [4]		36
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		38
Minimum Total Credit Hours:		**120**

1 The internship or practicum allows students to gain workplace skills and real-world experience in their chosen field. Students with prior work, internship, practicum, student teaching and/or field experience may be waived the internship/practicum requirement with approval by the program coordinator. Students may earn a maximum of 6 credit hours.

2 In TAS 37900, students construct a meaningful career management plan to explore and prepare for their preferred professional goals.

3 TAS 47999, taken near the end of the program, synthesizes learning and focuses on foundational competencies in the form of service or experiential learning, a discipline-specific research project and the development of an academic/career e-portfolio. A minimum C grade must be earned to fulfill the writing-intensive requirement.

4 In collaboration with an advisor, students develop a plan of study for two to three specializations that draw on transferred, completed and available Kent State coursework. Students select from a flexible and robust core of skills- and knowledge-based courses - bridging multiple disciplines - to develop a tailored option to best benefit and further professional goals. A faculty member approves the student's specializations to ensure they meet the student's needs. Two of the three specialization areas may be from the same discipline. One specialization must be distinct.

Progression Requirements

Students must meet with an advisor for a plan of study for each specialization. Any changes made to the program of study must also be approved by an advisor, or the student may not be allowed to graduate.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	

Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Interpret and communicate discipline specific information via written, verbal and/or visual or digital representations.
2. Demonstrate effective written, oral and digital communication skills in multiple contexts, for a variety of audiences.
3. Demonstrate application and evidence of skills and knowledge via presentation of artifacts in an electronic portfolio.
4. Analyze ethical issues in the context of the profession or discipline to produce reasoned evaluations and solutions.
5. Integrate applied skills and theoretical knowledge in a specific technical field with opportunities for experiential learning in a workplace environment.
6. Develop self-awareness about identity and culture, diversity, sensitivity and respect for differences.

Full Description

The Bachelor of Technical and Applied Studies degree is a completer program designed for students with an associate degree or some college-level coursework who wish to matriculate into a bachelor's degree. The program accommodates varied educational backgrounds, develops competencies needed for success in a variety of work settings and offers flexibility and scheduling attractive to working students and to time- and place-bound adults.

The B.T.A.S. degree integrates the practical application of technical skills and knowledge with the professional skills instilled in a bachelor's degree program. Students focus on career paths in technical and applied areas of specializations, leading to breadth and depth in a particular discipline.

The program provides a foundation for further graduate education and benefits students who need additional workplace and professional skills beyond their technical education with hands-on learning, experiential learning opportunities, internships and research projects. Employers are searching for professionals with a combination of technical expertise and business soft skills; this program provides the knowledge, skills and experiences necessary to transition from student to professional.

Many associate degree programs at Kent State University align well with the B.T.A.S. degree.

Technical Modeling Design - A.A.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Design your future with the Technical Modeling and Design Associate of Applied Science program. Develop the technical and creative skills needed to thrive in today's design industry. With a focus on hands-on experience and real-world projects, this program prepares you for success in a variety of design fields. Enroll now and take the first step toward a rewarding career in design. Read more...

Contact Information

- **Lori Bears** | lbears@kent.edu | 330-308-7438
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Tuscarawas Campus

Examples of Possible Careers and Salaries*

Architectural and civil drafters

- -2.5% decline
- 102,900 number of jobs
- $57,500 potential earnings

Calibration technologists and technicians and engineering technologists and technicians, except drafters, all other

- 2.1% slower than the average
- 91,600 number of jobs
- $64,190 potential earnings

Drafters, all other

- 0.6% little or no change
- 15,200 number of jobs
- $54,500 potential earnings

Electrical and electronics drafters

- 0.5% little or no change
- 25,300 number of jobs
- $62,100 potential earnings

Mechanical drafters

- -8.3% decline
- 57,500 number of jobs
- $58,270 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
AGD 11003	SOLID MODELING	3
AGD 12000	TWO DIMENSION GRAPHICS	3
AGD 12001	MODELING AND TEXTURING I	3
AGD 22000	TWO-DIMENSION COMMUNICATION	3
AGD 22001	MODELING FOR ARCHITECTURE	3
Major Electives, choose from the following:		15
AGD 21000	FUNDAMENTALS OF MIXED REALITY	
AGD 22004	MODELING AND TEXTURING II	
AGD 22010	DIGITAL SCULPTING	
AGD 22095	SPECIAL TOPICS IN ANIMATION AND GAME DESIGN	
AGD 23020	GAMING AND CULTURE	
ARTS 14000	DRAWING I	
EMAT 10310	MY STORY ON THE WEB	
MERT 12000	ENGINEERING DRAWING	
MERT 12001	COMPUTER-AIDED DESIGN	
Additional Requirements (courses do not count in major GPA)		
BMRT 11000	INTRODUCTION TO BUSINESS	3
or BUS 10123	EXPLORING BUSINESS	
or ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
EERT 32003	TECHNICAL COMPUTING	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
Kent Core Basic Sciences		3
General Electives (total credit hours depends on earning 60 credits hour)		2
Minimum Total Credit Hours:		**60**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
AGD 22000	TWO-DIMENSION COMMUNICATION	3
BMRT 11000 or BUS 10123 or ENTR 27056	INTRODUCTION TO BUSINESS or EXPLORING BUSINESS or INTRODUCTION TO ENTREPRENEURSHIP	3
UC 10001	FLASHES 101	1
Major Elective		6
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
AGD 11003	SOLID MODELING	3
AGD 12000	TWO DIMENSION GRAPHICS	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Major Elective		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
AGD 12001	MODELING AND TEXTURING I	3
AGD 22001	MODELING FOR ARCHITECTURE	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3

Major Elective		3
	Credit Hours	**15**
Semester Four		
EERT 32003	TECHNICAL COMPUTING	3
Major Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		2
	Credit Hours	**14**
	Minimum Total Credit Hours:	**60**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
	Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Kent Core (see table below)		15
Total Credit Hour Requirement		60
	Some associate degrees require students to complete more than 60 credit hours.	

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge, techniques and skills to create complex two- and three-dimensional drawings, modeling and animations.
2. Integrate effective communication skills, both verbally and in written form, with technical, business and design professionals as individuals and part of a project team.
3. Understand and commit to address professional and ethical responsibilities, including respect for diversity.
4. Recognize the need for and an ability to engage in lifelong learning.
5. Collaborate with people of diverse backgrounds and abilities.

Full Description

The Associate of Applied Science degree in Technical Modeling Design prepares students for entry-level positions as technical illustrators, drafter/designer technicians in business and computer animation and game design industries, as well as in the field of multimedia development. Computer-aided design (CAD) is used throughout the program for computer modeling and multimedia development.

The degree program articulates with the CAD for Manufacturing undergraduate certificate, the Bachelor of Science degree in Animation Game Design and other select bachelor's degrees at Kent State.

Veterinary Technology - A.A.S.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Join the caring community of veterinary professionals with the Veterinary Technology Associate Degree. Learn hands-on skills and gain experience in a variety of animal care settings. Enroll now and make a difference in the lives of animals. Read more...

Contact Information

- Trumbull Campus: **Melissa Best** | mbest4@kent.edu
- Tuscarawas Campus: **Kimberly Huston** | khuston4@kent.edu
- Speak with an Advisor (mbest4@kent.edu)
  - Trumbull Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Trumbull Campus
  - Tuscarawas Campus

Examples of Possible Careers and Salaries*

Veterinary technologists and technicians

- 16.2% much faster than the average
- 112,900 number of jobs
- $36,260 potential earnings

Accreditation

The A.A.S. degree in Veterinary Technology is accredited by the American Veterinary Medical Association.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special

talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA; min C grade required in all courses)		
VTEC 10001	INTRODUCTION TO VETERINARY TECHNOLOGY	2
VTEC 10002	VETERINARY NURSING I	3
VTEC 10003	VETERINARY PHARMACOLOGY I	2
VTEC 10204	CLINICAL LABORATORY I	3
VTEC 10205	VETERINARY NURSING II	3
VTEC 20001	NUTRITION OF DOMESTIC ANIMALS FOR VETERINARY TECHNICIANS	2
VTEC 20002	DISEASES OF DOMESTIC ANIMALS FOR VETERINARY TECHNICIANS	2
VTEC 20003	VETERINARY PHARMACOLOGY II	2
VTEC 20008	CLINICAL LABORATORY II	3
VTEC 20009	LARGE ANIMAL NURSING	3
VTEC 20010	IMAGING TECHNIQUES	3
VTEC 20212	SURGERY AND ANESTHESIA	3
VTEC 20215	VETERINARY OFFICE APPLICATIONS	1
VTEC 20216	LABORATORY AND EXOTIC ANIMAL MEDICINE	2
VTEC 20392	PRACTICUM IN VETERINARY HOSPITAL (ELR)	5
Additional Requirements (courses do not count in major GPA; min C grade required in all courses)		
BSCI 10005	SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) MOLECULES OF LIFE (KBS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
Minimum Total Credit Hours:		**63**

Progression Requirements

All students in the Veterinary Technology program must complete all coursework in sequence before continuing to the next level.

To be able to register for Veterinary Technology (VTEC) courses, students must be accepted to technical study. Acceptance into technical study is selective and requires a separate application process. Students interested in the program must attend an information session prior to application. Criteria for acceptance is the following:

- Minimum 2.500 college or high school overall GPA

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	BSCI 10005	SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS	4
	CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3
	UC 10001	FLASHES 101	1
!	VTEC 10001	INTRODUCTION TO VETERINARY TECHNOLOGY	2
!	VTEC 10002	VETERINARY NURSING I	3
!	VTEC 10204	CLINICAL LABORATORY I	3
		Credit Hours	**16**
	Semester Two		
	VTEC 10003	VETERINARY PHARMACOLOGY I	2
!	VTEC 10205	VETERINARY NURSING II	3
	VTEC 20001	NUTRITION OF DOMESTIC ANIMALS FOR VETERINARY TECHNICIANS	2
	VTEC 20008	CLINICAL LABORATORY II	3
	VTEC 20215	VETERINARY OFFICE APPLICATIONS	1
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Three		
	BSCI 20021	BASIC MICROBIOLOGY	3
	BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
	VTEC 20002	DISEASES OF DOMESTIC ANIMALS FOR VETERINARY TECHNICIANS	2
	VTEC 20003	VETERINARY PHARMACOLOGY II	2
!	VTEC 20010	IMAGING TECHNIQUES	3
!	VTEC 20212	SURGERY AND ANESTHESIA	3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Four		
!	VTEC 20009	LARGE ANIMAL NURSING	3

	VTEC 20216	LABORATORY AND EXOTIC ANIMAL MEDICINE	2
!	VTEC 20392	PRACTICUM IN VETERINARY HOSPITAL (ELR)	5
	Kent Core Requirement		6
		Credit Hours	**16**
		Minimum Total Credit Hours:	**63**

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.		
Kent Core (see table below)		15
Total Credit Hour Requirement		60
Some associate degrees require students to complete more than 60 credit hours.		

Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	**15**

Program Learning Outcomes

Graduates of this program will be able to:

1. Qualify to take the Veterinary Technician National Examination.
2. Carry out successful completion of all essential skills as mandated by American Veterinary Medical Association's Committee on Veterinary Technician Education and Activities (Appendix I of the Accreditation Policies and Procedures).
3. Use safe techniques when performing animal handling skills.
4. Use competent decision-making abilities for patient case management, from the initial presentation to the successful outcome of the patient's treatment and resolution of the patient's presenting problem(s).

Full Description

The Associate of Applied Science degree in Veterinary Technology prepares graduates to serve as veterinary technicians performing support functions, including routine laboratory and clinical procedures. Other growing employment opportunities are expected in biomedical research, diagnostic laboratories, wildlife facilities, humane societies and animal control facilities.

Upon completion, graduates are eligible to take the Veterinary Technician National Examination, which is a step in the process to pursue registration in the State of Ohio.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Viticulture - Undergraduate Certificate

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

The certificate in Viticulture provides students with the practical experiences and technological skills of the cultivation of grapes for making wine. This program emphasizes hands-on experiences and internships at local vineyards and wineries in Ohio.

Students who complete the certificate are qualified for positions in the commercial winemaking industry as a viticulturist, vineyard manager and assistant vineyard manager.

Contact Information

- **Lori Lee** | llee5@kent.edu | 440-964-4217
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**
  - Ashtabula Campus

Examples of Possible Careers and Salaries*

Farmworkers and laborers, crop, nursery, and greenhouse

- 3.8% about as fast as the average
- 566,500 number of jobs
- $28,660 potential earnings

First-line supervisors of farming, fishing, and forestry workers

- -1.1% decline
- 53,200 number of jobs
- $50,080 potential earnings

Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders

- 3.5% about as fast as the average
- 53,100 number of jobs
- $43,100 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
BSCI 16001 or VIN 11200	HORTICULTURAL BOTANY or BOTANICAL VITICULTURE	3-4
ENOL 14600	INTRODUCTION TO ENOLOGY	3
VIN 11100	INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT	3
VIN 11392	WINTER VITICULTURE FIELDWORK (ELR)	2
VIN 11492	SPRING VITICULTURE FIELDWORK (ELR)	2
VIN 11592	SUMMER/FALL VITICULTURE FIELDWORK (ELR)	2
VIN 21100	INTEGRATED PEST MANAGEMENT	2
VIN 21300	REGIONAL VINEYARD MANAGEMENT	2
VIN 29300	SOILS FOR VITICULTURE	3
Minimum Total Credit Hours:		**22**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ENOL 14600	INTRODUCTION TO ENOLOGY	3
VIN 11100	INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT	3
	Credit Hours	**6**
Semester Two		
VIN 11392	WINTER VITICULTURE FIELDWORK (ELR)	2
VIN 11492	SPRING VITICULTURE FIELDWORK (ELR)	2
VIN 11592	SUMMER/FALL VITICULTURE FIELDWORK (ELR)	2
	Credit Hours	**6**
Semester Three		
BSCI 16001 or VIN 11200	HORTICULTURAL BOTANY or BOTANICAL VITICULTURE	3-4
VIN 21100	INTEGRATED PEST MANAGEMENT	2
	Credit Hours	**5**
Semester Four		
VIN 21300	REGIONAL VINEYARD MANAGEMENT	2
VIN 29300	SOILS FOR VITICULTURE	3
	Credit Hours	**5**
	Minimum Total Credit Hours:	**22**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply foundational viticultural practices, including plant science, soil structure, pest management and vineyard design.
2. Implement technical skills in vineyard management — including planting, pruning, irrigation and canopy management — to promote vine health and optimize grape quality.
3. Evaluate soil properties, climate conditions and topographical features to recommend suitable grape varieties and sustainable vineyard practices.
4. Develop and implement pest and disease management strategies that balance economic productivity with environmental stewardship.
5. Understand and apply best practices in grape harvest timing, handling and initial processing to ensure quality for winemaking or other grape uses.
6. Integrate sustainable practices into vineyard operations, including resource conservation, biodiversity preservation and environmentally responsible pest and weed control.
7. Identify key economic and marketing factors influencing the wine industry and demonstrate the ability to evaluate vineyard costs, budgets and profitability.
8. Understand and adhere to legal and regulatory requirements related to viticulture, including agricultural safety, labor laws and environmental standards.

9. Work collaboratively in vineyard operations and communicate effectively with industry professionals, including winemakers, other growers and business stakeholders.

College of Architecture and Environmental Design

College of Architecture and Environmental Design
Center for Architecture and Environmental Design
Kent Campus
330-672-2917
CAED_info@kent.edu
www.kent.edu/caed

Undergraduate Programs

Majors

- Architectural Studies - B.A.
- Architecture - B.S.
- Construction Management - B.S.
- Interior Design - B.A.

Minors

- Architectural History
- Architectural Studies
- Construction Management
- Historic Preservation

Graduate Programs

Majors

- Architecture - M.Arch.
- Architecture and Environmental Design - M.S.
- Construction Management - M.S.
- Healthcare Design - M.H.D.
- Landscape Architecture - M.L.A. I
- Landscape Architecture - M.L.A. II
- Urban Design - M.U.D.

Certificates

- Health Systems and Facilities Design

College of Architecture and Environmental Design Faculty

- Adamtey, Simon (2016), Associate Professor, Ph.D., Indiana State University, 2016
- Bayramzadeh, Sara (2018), Associate Professor, Ph.D., University of Florida, 2015
- Bernal, Ivan A. (2018), Associate Professor, M.Arc., Southern California Institute of Architecture, 2011
- Bielak, Britta (2022), Assistant Professor, M.F.A., Virginia Commonwealth University, 2014
- Brandner, Sara K. (2010), Lecturer, M.Tech., Kent State University, 2018
- Coffman, Reid R. (2012), Professor
- Daniel, Ronn (2018), Associate Professor, M.Arch., University of Illinois at Chicago, 1994
- Davis-Sikora, Diane M. (1997), Professor, M.Arch., Harvard University Graduate & Professional School, 1995
- Fantoni, Marcello (2005), Professor
- Frederick, Charles M. (1996), Assistant Professor, M.L.A., University of Virginia-Main Campus, 1998
- Gunhan, Suat M. (2020), Professor, Ph.D., Illinois Institute of Technology, 2003
- Ho, Brendan T. (2019), Assistant Professor, M.Arc., Southern Calif Institute of Architecture, 2017
- Hughes, David (1985), Professor, M.U.P., New York City College of Technology, 1975
- Humphries, John (2022), Professor, M.F.A., Institute of Art and Design at New England College, 2022
- Jaminet, Jean J. (2017), Associate Professor, M.Arch., Princeton University, 2004
- Kim, Sung Ho H. (2023), Professor
- Lahrmer, Jill (2008), Associate Professor, B.A., Bowling Green University, 1999
- Liu, Rui (2013), Associate Professor, Ph.D., University of Colorado-Denver, 2010
- Lucak, Frederick W. (1986), Associate Professor, B.Arch., Kent State University, 1990
- Marshall, Cathy S. (2017), Associate Professor, M.L.A., Harvard University Graduate and Professional School, 2003
- Meshkani, Taraneh (2018), Assistant Professor, Harvard University Graduate & Professional School, 2016
- Mimms-Scavnicky, Kristen (2021), Assistant Professor, M.Arc., University of Cincinnati, 2014
- Mirando, Anthony M. (2013), Associate Professor, M.S., Colorado State University, 2014
- Mistur, Mark S. (2016), Professor
- Mosley, Paul L. (2022), Assistant Professor, M.A., University of Illinois at Chicago, 2017
- Nolte, Laure (2024), Visiting Assistant Professor
- Onsarigo, Lameck M. (2016), Associate Professor, Ph.D., Indiana State University, 2016
- Patel, Tina (2018), Associate Professor, M.F.A., Iowa State University , 2016
- Poustinchi, Mohammad Ebrahim (2017), Associate Professor, M.Arch., University of California-Los Angeles, 2014
- Robison, Elwin C. (1985), Professor, Ph.D., Cornell University, 1985
- Rugare, Steven N. (1993), Professor
- Safley, Robert N. (2018), Associate Professor, M.Arch., University of Michigan-Ann Arbor, 2013
- Sharag-Eldin, Adil M. (2002), Associate Professor, Ph.D., University of California-Berkeley, 1998
- Sosa Fontaine, Andrea-Louise (2020), Assistant Professor
- Stauffer, Thomas A. (1977), Professor, M.Arch., University of Pennsylvania, 1976
- Strand, Kathryn E. (2003), Associate Professor, M.Arch., University of Pennsylvania, 2003
- Stroh, Gregory S. (1998), Associate Professor, M.Arch., University of Pennsylvania, 1996

- Tippey, Brett D. (2012), Associate Professor, Ph.D., Universidad de Navarra, 2011
- Willoughby, William T. (2013), Associate Professor, M.A., Kent State University, 1991
- Wohl, Sharon (2023), Associate Professor
- Xiong, Ruoxin (2024), Assistant Professor, Ph.D., Carnegie Mellon University, 2024
- Yoder, Jon (2013), Associate Professor, Ph.D., University of California-Los Angeles, 2011

Architectural Studies (ARCS)

ARCS 10123 PRINCIPLES AND TECHNIQUES OF DESIGN 3 Credit Hours
A survey of the techniques of 2D and 3D architectural representation, both historical and contemporary. Uses analytical and synthetic exercises that introduce fundamental representation skills. These exercises are supplemented by reading and writing exercises and field trips to cities with significant design culture.
Prerequisite: Architectural Studies major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCS 20121 STUDIO FOR ARCHITECTURAL STUDIES 4 Credit Hours
Course exposes students to the distinct design processes, final products, and interconnectedness of various allied design disciplines including (but not limited to) graphic design, interior design, landscape architecture, urban design, industrial design, architecture and historic preservation.
Prerequisite: AED 10102; and Architectural Studies major.
Schedule Type: Studio
Contact Hours: 8 other
Grade Mode: Standard Letter

ARCS 20122 STUDIO FOR ARCHITECTURAL STUDIES II 4 Credit Hours
Studio allows students to further develop their design skills in relation to a theme or shared research topic that crosses the disciplinary boundaries of architecture and challenges conventional ideas of the role design can play in developing knowledge.
Prerequisite: ARCS 20121 or ARCH 20101.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

ARCS 20123 FIELD AND OBJECT STUDIO 3 Credit Hours
Through a series of related design exercises, this course explores the relationship between two-dimensional fields and three-dimensional objects. Engages students in reading, writing, research and reflection about fields and objects in architecture.
Prerequisite: ARCS 10123.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCS 20124 SCALE AND PERCEPTION STUDIO 3 Credit Hours
Through a series of related design exercises, this course explores human scale and the ways human beings perceive three-dimensional objects and spaces. Engages students in reading, writing, research and reflection about scale and perception in architecture.
Prerequisite: ARCS 10123.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCS 20125 SYSTEMS AND NETWORKS STUDIO 3 Credit Hours
Through a series of related design exercises, this course explores the ways data analysis, systems thinking and/or networks—both real and contrived—can influence architectural design. Engages students in reading, writing, research and reflection about systems and networks in architecture.
Prerequisite: ARCS 10123.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCS 20501 EXPLORING DESIGN DISCIPLINES 1 Credit Hour
Introduces students to innovative approaches to diverse design disciplines through various activities, including coordinated guest lectures and visits to leading graduate programs, forward-thinking design firms, cultural institutions and the Cleveland Urban Design Collaborative.
Prerequisite: ARCS 10123; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCS 30123 MATERIALS AND PROCESSES OF MAKING 3 Credit Hours
Seeks to introduce and foster an ease of mobility through analog and digital design environments utilizing drawing, modeling and fabrication. Students engage in modes of production that enable the testing of material, spatial and tectonic performance through scalar prototyping.
Prerequisite: AED 10102 or ARCH 10102 or ARCS 10123 or ART 10022 or ART 10023 or FDM 10023 or ID 10112 or VCD 13001; and junior standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

ARCS 30124 METHODS AND THEORIES OF REPRESENTATION 3 Credit Hours
Seeks to examine traditional and contemporary methods of architectural representation as generative tools that mediate between individual idea and constructed environment.
Prerequisite: AED 10102 or ARCH 10102 or ARCS 10123 or ART 10022 or ART 10023 or FDM 10023 or ID 10112 or VCD 13001; and junior standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

ARCS 30321 STRUCTURAL TYPOLOGY 3 Credit Hours
Course provides an intuitive introduction to architectural structures that focuses on the historical development of structural types, structure as organization, the structural properties of materials, the physical form-finding design process and the scientific method through lab exercises and design projects.
Prerequisite: ARCH 10001 or ARCH 10011 or ARCH 10012 or ID 20012; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCS 30421 ENVIRONMENTAL IMPERATIVES 3 Credit Hours
Course introduces students to various viewpoints on sustainable built environments with emphasis on the ethical, ecological, social, political, economic and technical implications. Engages students in debates on theoretical and practical positions on sustainability, and the organizations that support sustainable practices in the building industry.
Prerequisite: Architectural Studies major or Architectural Studies minor or Architecture major or Construction Management major or Environmental Studies major or Environmental Studies minor or Interior Design major or Sustainability minor; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCS 40022 URBAN DESIGN DISCOURSE (ELR) 3 Credit Hours
Course explores the interconnections among making space, image creation and inhabiting the city; and engages students in visual and textual documentation of urban life and phenomena. Course presents history, theory and practices of documentation. Students meet in Cleveland at the Cleveland Urban Design Collaborative and take frequent in-person visits to urban sites in and around Cleveland.
Prerequisite: ARCH 10011 or ARCH 10012 or ID 20012; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARCS 40114 THEORY AND CRITICISM IN ARCHITECTURAL MEDIA (WIC) 3 Credit Hours
Aims at investigating the increasingly intertwined issues that link contemporary architectural theory and criticism with the world of media.
Prerequisite: ARCH 10011 or ARCH 10012 or ID 20012; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

Architecture (ARCH)

ARCH 10001 UNDERSTANDING ARCHITECTURE (KFA) 3 Credit Hours
The nature of the built environment, its forms and functions are explored within the cultural contexts of ecology, technology, human behavior, symbolism, art and history.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts, Transfer Module Fine Arts

ARCH 10011 GLOBAL ARCHITECTURAL HISTORY I (KFA) 3 Credit Hours
Global history of architecture from Neolithic times through the 16th century.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts

ARCH 10012 GLOBAL ARCHITECTURAL HISTORY II (KFA) 3 Credit Hours
Global history of architecture from the 17th century to 2000.
Prerequisite: ARCH 10011 or ARTH 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts

ARCH 10093 WORKSHOP: VARIABLE TITLE 1-3 Credit Hours
(Repeatable for credit) Topics vary per workshop offering.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 10101 FIRST YEAR DESIGN STUDIO I 3 Credit Hours
Introduction to ways of understanding, designing, and representing architecture. Through design exercises, students learn the strategies, principles, theories, and tools that architects use to organize, shape, and interpret the built environment. Emphasis is placed on the analysis and construction of interrelated objects, images, and ideas.
Prerequisite: Architecture Major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCH 10102 FIRST-YEAR DESIGN STUDIO II 3 Credit Hours
A continued exploration into ways of understanding, designing, and representing architecture. Through design exercises, students learn the strategies, principles, theories, and tools that architects use to organize, shape, and interpret the built environment. Emphasis is placed on material, enclosure, and architectural scale.
Prerequisite: ARCH 10101 and Architecture Major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCH 20101 SECOND-YEAR DESIGN STUDIO I 3 Credit Hours
The introduction of a building design process that emphasizes the integration of program requirements with specific form topologies using line and plane as the primary elements to provide shape and space.
Prerequisite: ARCH 10102.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 20102 SECOND-YEAR DESIGN STUDIO II 5 Credit Hours
The development of design methodologies and architectural form through processes of analysis, synthesis, and translation. Conceptual frameworks are used to further develop program, assembly systems, surface articulation, site/context within cultural /social systems and their impact on architectural form.
Prerequisite: ARCH 20101.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ARCH 20301 INTRODUCTION TO BUILDING STRUCTURES 3 Credit Hours
An introduction to building structures, statics, strength of materials, analysis for shear-moment-displacement and loads. Includes dead-live-wind-earthquake and building code requirements for structural safety.
Prerequisite: MATH 12002 or (MATH 12011 and MATH 12012); and Architecture major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 20601 COMPUTER APPLICATIONS IN ARCHITECTURE I 1-3 Credit Hours
Course provides a basic understanding of two-dimensional CAD operations, parametric building design and building information modeling (BIM).
Prerequisite: Architecture major.
Schedule Type: Studio
Contact Hours: 2-6 other
Grade Mode: Standard Letter

ARCH 20602 COMPUTER APPLICATIONS IN ARCHITECTURE II 1-3 Credit Hours
Principles and practices of three-dimension digital modeling and rendering, including production of geometric surfaces and forms using polygon construction, texturing, lighting and rendering.
Prerequisite: ARCH 20601; and Architecture major.
Schedule Type: Studio
Contact Hours: 2-6 other
Grade Mode: Standard Letter

ARCH 20693 WORKSHOP. COMPUTER APPLICATIONS 1-3 Credit Hours
(Repeatable for credit) Course provides an exposure to various fundamental computer topics and their application to architectural studies. Topics include file management, network applications, spreadsheets, raster image manipulations, two- and three- dimensional CAD and computer-aided visualization.
Prerequisite: Architecture major or Interior Design majors.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 30001 SITE DESIGN (WIC) 1 Credit Hour
Research component addressing technical, cultural and contextual concerns, influences and directions in site design.
Prerequisite: Architecture major; and approved admission to advanced study (third year).
Corequisite: ARCH 30101.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ARCH 30002 URBAN DESIGN 1 Credit Hour
(Equivalent to ARCH 30012) Lecture component conducted concurrently with ARCH 30102. Course addresses design of form and space in cities through study of precedents, traditions and current directions in urban form-making.
Prerequisite: ARCH 30001 and ARCH 30101.
Corequisite: ARCH 30102.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCH 30012 URBAN DESIGN, FLORENCE, ITALY 1 Credit Hour
(Equivalent to ARCH 30002) Lecture component conducted concurrently with ARCH 30112. Course addresses design of form and space in cities through study of precedents, traditions and current directions in urban form making.
Prerequisite: ARCH 30101.
Corequisite: ARCH 30112.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCH 30031 ARCHITECTURAL DISCOURSES (WIC) 3 Credit Hours
A writing-intensive course introducing fundamental disciplinary discourses in architecture and developing a critical awareness of the range of architectural ideas. Writing, revising, and verbal skills are developed and exercised in a discipline-specific context focused on architectural systems of organization and their broader historical, technological, social, and cultural contexts. Class discussions and writing assignments are based on readings and lectures about relevant architectural positions and various interpretations of buildings that shape the built environment. Written, verbal, and visual skills are developed to frame design work and ideas within the spectrum of architectural discourses.
Prerequisite: ARCH 10012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ARCH 30101 THIRD-YEAR DESIGN STUDIO I 5 Credit Hours
Studio investigation of the simultaneous concerns of program, site, context and materials of construction. Specific emphasis on the understanding of the goals, objectives, intentions and parameters of site/context in design, including cultural influences.
Prerequisite: Architecture major; and approved admission to advanced study (third year).
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ARCH 30102 THIRD-YEAR DESIGN STUDIO II (ELR) 5 Credit Hours
(Equivalent to ARCH 30112) Studio investigation with specific emphasis on the understanding of the goals, objectives, intentions and parameters of urban design.
Prerequisite: ARCH 30101.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARCH 30112 THIRD-YEAR DESIGN STUDIO II, FLORENCE, ITALY (ELR) 5 Credit Hours
(Equivalent to ARCH 30102) Studio investigation with specific emphasis on understanding of the goals, objectives, intentions and parameters of urban design.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARCH 40001 SUSTAINABLE DESIGN (WIC) 1 Credit Hour
(Slashed with ARCH 50001) Research component addressing precedents, traditions, current directions in conservation of natural environment. Principles and methods of ecological design in architecture and urban design.
Prerequisite: ARCH 30102 or ARCH 30112.
Corequisite: ARCH 40101.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ARCH 40002 SYSTEMS DESIGN 1 Credit Hour
(Slashed with ARCH 50002) Lecture and research component addressing comprehensive integration of mechanical, electrical communications structural life safety systems and sustainable design concerns.
Prerequisite: ARCH 40101.
Corequisite: ARCH 40102.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCH 40101 FOURTH-YEAR DESIGN STUDIO I 5 Credit Hours
(Slashed with ARCH 50101) Studio investigation of complex formal and spatial constructs addressing the comprehensive concerns of architecture. Special emphasis on understanding the conservation of the natural environment. Knowledge of CAD is required.
Prerequisite: ARCH 30102 or ARCH 30112.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ARCH 40102 INTEGRATED DESIGN STUDIO 5 Credit Hours
(Slashed with ARCH 50102) Studio investigation of the comprehensive concerns and understanding of building systems integration. Knowledge of CAD is required.
Prerequisite: ARCH 40101 and ARCH 40301 and ARCH 40402 and ARCH 40502.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ARCH 40301 STRUCTURAL SYSTEMS I 3 Credit Hours
(Slashed with ARCH 50301) A continuation of building structures, statics strength of materials and systems analysis. Emphasis is on elastic materials, allowable stresses and design for wood and steel structural members and systems.
Prerequisite: ARCH 20301; and Architecture major; and approved admission to advanced study (third year).
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCH 40302 STRUCTURAL SYSTEMS II 3 Credit Hours
(Slashed with ARCH 50302) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on inelastic materials, allowable stress and design for masonry and concrete structural members and systems.
Prerequisite: ARCH 40301.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 40401 METHODS AND MATERIALS I 3 Credit Hours
(Slashed with ARCH 50401) Introduction to the origins, extraction, properties and processing of the basic materials of construction. Primary focus on wood and masonry-appropriate use and scale including code requirements, methods of construction and design consequences.
Prerequisite: Architecture major; and approved admission to advanced study (third year).
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCH 40402 METHODS AND MATERIALS II 3 Credit Hours
(Slashed with ARCH 50402) Continued investigation of the origins, extraction, properties and processing of the basic materials of construction. Primary focus on concrete and steel-appropriate use and scale, including allied systems and building materials. Introduction to construction contract documents.
Prerequisite: ARCH 40401.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 40501 ENVIRONMENTAL TECHNOLOGY I 3 Credit Hours
(Slashed with ARCH 50501) Basic principles of ecological design and architecture environmental systems, including lighting, sonic and thermal systems.
Prerequisite: PHY 13012; and Architecture major; and approved admission to advanced study (third year).
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter

ARCH 40502 ENVIRONMENTAL TECHNOLOGY II 3 Credit Hours
(Slashed with ARCH 50502) Ecological design of large buildings. Investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings.
Prerequisite: ARCH 40501.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 44611 PORTFOLIO 1 Credit Hour
Architectural drawings and other allied work of the student reproduced and assembled in a professional portfolio suitable for job and graduate application.
Prerequisite: ARCH 30102 or ARCH 30112.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCH 45210 RENAISSANCE ARCHITECTURE 3 Credit Hours
(Slashed with ARCH 55210) History and theory of Renaissance architecture from 1400 until 1600.
Prerequisite: ARCH 10011 and ARCH 10012; or ARTH 22006 and ARTH 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45211 BAROQUE ARCHITECTURE 3 Credit Hours
(Slashed with ARCH 55211) History and theory of architecture in Europe from 1600 through 1750.
Prerequisite: ARCH 10011 and ARCH 10012; or ARTH 22006 and ARTH 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45213 20TH CENTURY ARCHITECTURAL HISTORY 3 Credit Hours
(Slashed with ARCH 55213) History and theory of architecture during the 20th century.
Prerequisite: ARCH 10011 and ARCH 10012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45220 ARCHITECTURE IN THE UNITED STATES 3 Credit Hours
(Slashed with ARCH 55220) History of American architecture for Indigenous and colonial settlements up through the 1980s.
Prerequisite: ARCH 10011 and ARCH 10012; or ARTH 22006 and ARTH 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45230 FRANK LLOYD WRIGHT 3 Credit Hours
(Slashed with ARCH 55230) Examination of the life, buildings and literary works of Frank Lloyd Wright with emphasis on his contributions to American art and architecture and his place in American intellectual history.
Prerequisite: ARCH 10011 and ARCH 10012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45240 THE SKYSCRAPER 3 Credit Hours
(Slashed with ARCH 55240) A study of skyscrapers from the standpoint of architectural, financial, structural, psychological and technological considerations. Emphasis is placed on the early developments in Chicago and New York, the influence of the international style and the current trends in ultra-high skyscrapers built outside the United States.
Prerequisite: ARCH 10011 and ARCH 10012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45241 ARCHITECTURE OF WORLD'S FAIRS 3 Credit Hours
(Slashed with ARCH 55241) Students investigate world's fairs and related expositions as a cultural phenomenon, an urban design challenge and an opportunity to advance and popularize ideas in architecture and design.
Prerequisite: ARCH 10011 and ARCH 10012.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 45295 SPECIAL TOPICS IN ARCHITECTURAL HISTORY 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 55295) Topics within architectural history varies per course offering.
Prerequisite: ARCH 10011 and ARCH 10012.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 45391 SEMINAR: STRUCTURES III 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 55391) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on complex systems, including horizontal long span and high rise structures. Computer analysis is required.
Prerequisite: ARCH 40302.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 45491 SEMINAR: METHODS AND MATERIALS III 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 55491) Advanced topics in methods and complex materials systems. Computer modeling and field experiences are required.
Prerequisite: ARCH 40402.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 45591 SEMINAR: ENVIRONMENTAL TECHNOLOGY III 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 55591) Variable topics in environmental technology, environmental design and energy conservation, advanced lighting techniques etc.
Prerequisite: ARCH 40502.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 45601 ADVANCED COMPUTER APPLICATIONS 1-3 Credit Hours
(Slashed with ARCH 55601) Course discusses advanced visualization techniques such as raytracing, radiosity and animation. Presents a variety of presentation issues and options.
Prerequisite: Approved admission to third year; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 45620 INTRODUCTION TO PRESERVATION 1-3 Credit Hours
(Slashed with ARCH 55620)(Repeatable for credit) An overview of preservation, including building analysis, conservation, adaptive reuse, economic benefits of preservation and preservation planning as a revitalizing strategy.
Prerequisite: ARCH 10011 and ARCH 10012.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 45625 EXPLORING HISTORIC STRUCTURES 3 Credit Hours
(Slashed with ARCH 55625) Course provides students with the skills and opportunity to document an historic structure using methods prescribed by the Historic American Buildings Survey (HABS). Covers recording, documentation and assessment of the historic structure, implementing the guidelines established by the Getty Conservation Institute, including history, purpose, means, methods and field work.
Prerequisite: Junior standing and approved admission to advanced study (third year).
Schedule Type: Laboratory, Lecture
Contact Hours: 1.2 lecture, 3.6 lab
Grade Mode: Standard Letter

ARCH 45627 PRESERVATION TECHNOLOGY 3 Credit Hours
(Slashed with ARCH 55627) Study of historic building materials with an emphasis on causes of degradation, strategies for conservation and standards for restoration.
Prerequisite: Junior or senior standing; and Architecture major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45630 INTRODUCTION TO LANDSCAPE ARCHITECTURE 1-3 Credit Hours
(Slashed with ARCH 55630)(Repeatable for credit) Introduction to landscape design with emphasis upon the relationship between landscape and buildings.
Prerequisite: Approved admission to advanced study (third year).
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 45631 SITE ANALYSIS AND DESIGN 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55631) Analysis of environmental factors as a basis for site selection and site planning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 45640 DEVELOPING ENVIRONMENTS FOR OLDER ADULTS 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55640) Research of existing built environments and an investigation of the planning design process for the elderly.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 45703 THEORIES AND PRINCIPLES OF URBAN DESIGN 1-3 Credit Hours
(Repeatable for maximum 3 credit hours) Course on the nature and utility of theory in urban design, examining the relationship between design ideologies and the theories of the environment on which they are based.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 45704 THEORIES AND PRINCIPLES OF URBAN DESIGN II 1-3 Credit Hours
(Repeatable for maximum 3 credit hours) Focuses on the relationship between design ideologies or theories and the realities of existing spatial relationships or precedents.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 45793 WORKSHOP IN URBAN DESIGN AND PLANNING 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45793) Course provides an introduction to the scope of planning and design in the making of quality urban neighborhoods, with a particular emphasis on the role of urban design, architecture and landscape design.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 46991 SEMINAR: VARIABLE TOPIC 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 56991) Variable topic seminar.
Prerequisite: approved admission to advanced study (third year).
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 46992 FIELD STUDY (ELR) 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 56992) Variable topic field experience.
Prerequisite: Approved admission to advanced study (third year).
Schedule Type: Field Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARCH 46993 WORKSHOP: VARIABLE TOPIC 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 56993) Variable topic workshop.
Prerequisite: Approved admission to advanced study (third year).
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 46995 SPECIAL TOPICS IN ARCHITECTURE 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 56995) Special topics in architecture.
Prerequisite: Approved admission to advanced study (third year).
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

ARCH 46996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Kent State faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 50001 SUSTAINABLE DESIGN 1 Credit Hour
(Slashed with ARCH 40001) Research component addressing precedents, traditions, current directions in conservation of natural environment. Principles and methods of ecological design in architecture and urban design.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCH 50002 SYSTEMS DESIGN 1 Credit Hour
(Slashed with ARCH 40002) Lecture and research component addressing comprehensive integration of mechanical, electrical communications structural life safety systems and sustainable design concerns.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCH 50093 VARIABLE TITLE WORKSHOP IN ARCHITECTURE 1-6 Credit Hours
(Repeatable for credit) Workshop topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 50101 FOURTH-YEAR DESIGN STUDIO I 5 Credit Hours
(Slashed with ARCH 40101) Studio investigation of complex formal and spatial constructs addressing the comprehensive concerns of architecture. Special emphasis on understanding the conservation of the natural environment. Knowledge of CAD is required.
Prerequisite: ARCH 30102 or ARCH 30112; and Graduate standing.
Corequisite: ARCH 50001.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

ARCH 50102 INTEGRATED DESIGN STUDIO 5 Credit Hours
(Slashed with ARCH 40102) Studio investigation of the comprehensive concerns and understanding of building systems integration. Knowledge of CAD is required.
Prerequisite: Graduate standing.
Corequisite: ARCH 50002.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

ARCH 50301 STRUCTURAL SYSTEMS I 3 Credit Hours
(Slashed with ARCH 40301) A continuation of building structures, statics strength of materials and systems analysis. Emphasis is on elastic materials, allowable stresses and design for wood and steel structural members and systems.
Prerequisite: ARCH 20301; and Architecture major; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCH 50302 STRUCTURAL SYSTEMS II 3 Credit Hours
(Slashed with ARCH 40302) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on inelastic materials, allowable stress, and design for masonry and concrete structural members and systems.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 50401 METHODS AND MATERIALS I 3 Credit Hours
(Slashed with ARCH 40401) Introduction to the origins, extraction, properties and processing of the basic materials of construction. Primary focus on wood and masonry-appropriate use and scale including code requirements, methods of construction and design consequences.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCH 50402 METHODS AND MATERIALS II 3 Credit Hours
(Slashed with ARCH 40402) Continued investigation of the origins, extraction, properties and processing of the basic materials of construction. Primary focus on concrete and steel-appropriate use and scale, including allied systems and building materials. Introduction to construction contract documents.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 50501 ENVIRONMENTAL TECHNOLOGY I 3 Credit Hours
(Slashed with ARCH 40501) Basic principles of ecological design and architecture environmental systems, including lighting, sonic and thermal systems.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter

ARCH 50502 ENVIRONMENTAL TECHNOLOGY II 3 Credit Hours
(Slashed with ARCH 40502) Ecological design of large buildings. Investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 55101 FIFTH-YEAR DESIGN STUDIO I 6 Credit Hours
Students investigate a new scale of environmental issues that integrate both architectural and urban planning. Included are site visits, data collection, design of a master plan and an architectural form response to a segment of the total conceptual plan.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARCH 55102 FIFTH-YEAR DESIGN STUDIO II 3-6 Credit Hours
(Repeatable for maximum 6 credit hours) Advanced design studio emphasizing comprehensive and independent investigation. Explores and manifests ideas through architecture using competition and hypothetical or real projects as vehicles of expression.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

ARCH 55210 RENAISSANCE ARCHITECTURE 3 Credit Hours
(Slashed with ARCH 45210) History and theory of Renaissance architecture from 1400 until 1600.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55211 BAROQUE ARCHITECTURE 3 Credit Hours
(Slashed with ARCH 45211) History and theory of architecture in Europe from 1600 through 1750.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55213 20TH CENTURY ARCHITECTURAL HISTORY 3 Credit Hours
(Slashed with ARCH 45213) History and theory of architecture during the 20th century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55220 ARCHITECTURE IN THE UNITED STATES 3 Credit Hours
(Slashed with ARCH 45220) History of American architecture for Indigenous and colonial settlements up through the 1980s.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55230 FRANK LLOYD WRIGHT 3 Credit Hours
(Slashed with ARCH 45230) Examination of the life, buildings and literary works of Frank Lloyd Wright with emphasis on his contributions to American art and architecture and his place in American intellectual history.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55240 THE SKYSCRAPER 3 Credit Hours
(Slashed with ARCH 45240) A study of skyscrapers from the standpoint of architectural, financial, structural, psychological and technological considerations. Emphasis is placed on the early developments in Chicago and New York, the influence of the international style and the current trends in ultra-high skyscrapers built outside the United States.
Prerequisite: ARCH 10011 and ARCH 10012; or ARCH 60111 and ARCH 60112; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55241 ARCHITECTURE OF WORLD'S FAIRS 3 Credit Hours
(Slashed with ARCH 45241) Students investigate world's fairs and related expositions as a cultural phenomenon, an urban design challenge and an opportunity to advance and popularize ideas in architecture and design.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55295 SPECIAL TOPICS TOPICS IN ARCHITECTURAL HISTORY 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 45295) Topics within architectural history varies per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 55391 SEMINAR: STRUCTURES III 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 45391) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on complex systems, including horizontal long span and high rise structures. Computer analysis is required.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 55491 SEMINAR: METHODS AND MATERIALS III 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 45491) Advanced topics in methods and complex materials systems. Computer modeling and field experiences are required.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 55591 SEMINAR: ENVIRONMENTAL TECHNOLOGY III 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARCH 45591) Variable topics in environmental technology, environmental design and energy conservation, advanced lighting techniques, etc.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 55601 ADVANCED COMPUTER APPLICATIONS 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45601) Course discusses advanced visualization techniques such as raytracing, radiosity and animation. Presents a variety of presentation issues and options.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 55620 INTRODUCTION TO PRESERVATION 1-3 Credit Hours
(Slashed with ARCH 45620)(Repeatable for credit) An overview of preservation, including building analysis, conservation, adaptive reuse, economic benefits of preservation and preservation planning as a revitalizing strategy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 55625 EXPLORING HISTORIC STRUCTURES 3 Credit Hours
(Slashed with ARCH 45625) Course provides students with the skills and opportunity to document an historic structure using methods prescribed by the Historic American Buildings Survey (HABS). Covers recording, documentation and assessment of the historic structure, implementing the guidelines established by the Getty Conservation Institute, including history, purpose, means, methods and field work.
Prerequisite: Major in the College of Architecture and Environmental Design; and graduate standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 1.2 lecture, 3.6 lab
Grade Mode: Standard Letter

ARCH 55627 PRESERVATION TECHNOLOGY 3 Credit Hours
(Slashed with ARCH 45627) Study of historic building materials with an emphasis on causes of degradation, strategies for conservation and standards for restoration.
Prerequisite: Minimum C grade in ARCH 40401 and ARCH 40402; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 55630 INTRODUCTION TO LANDSCAPE ARCHITECTURE 1-3 Credit Hours
(Slashed with ARCH 45630)(Repeatable for credit) Introduction to landscape design with emphasis upon the relationship between landscape and buildings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 55631 SITE ANALYSIS AND DESIGN 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45631) Analysis of environmental factors as a basis for site selection and site planning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 55640 DEVELOPING ENVIRONMENTS FOR OLDER ADULTS 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45640) Research of existing built environments and an investigation of the planning design process for the elderly.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 55793 WORKSHOP IN URBAN DESIGN AND PLANNING 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45793) Course provides an introduction to the scope of planning and design in the making of quality urban neighborhoods, with a particular emphasis on the role of urban design, architecture and landscape design.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 56991 SEMINAR: VARIABLE TOPIC 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARCH 46991) Variable topic seminar.
Prerequisite: Graduate standing and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 56992 FIELD STUDY 1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 46992) Field experience.
Prerequisite: Graduate standing and special approval.
Schedule Type: Field Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 56993 WORKSHOP: VARIABLE TOPIC 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 46993) Field experience.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 56995 SPECIAL TOPICS IN ARCHITECTURE 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARCH 46995) Special topics in architecture.
Prerequisite: Graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

ARCH 60101 GRADUATE DESIGN STUDIO I 3-6 Credit Hours
Architectural studies related to buildings. Emphasis on spatial, aesthetic, environmental and functional factors in design.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

ARCH 60102 GRADUATE DESIGN STUDIO II 3-6 Credit Hours
Independent design project, completed under the direction of an individual adviser selected from the graduate faculty.
Prerequisite: ARCH 60101 and ARCH 60301; and graduate standing.
Corequisite: ARCH 60922.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

ARCH 60111 GRADUATE DESIGN FOUNDATIONS STUDIO 3-6 Credit Hours
Graduate-level introduction to the organizational principles and tools designers use to interpret and shape the build environment.
Prerequisite: Graduate Standing.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

ARCH 60112 GRADUATE DESIGN ARCHITECTURE STUDIO 3-6 Credit Hours
The introduction of a building design process that emphasizes the integration of program requirements with specific form typologies using architectural elements as the primary components to design shape, space, and form.
Prerequisite: Graduate Standing.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

ARCH 60113 GRADUATE DESIGN CONTEXT STUDIO 3-6 Credit Hours
Studio investigation that includes consideration of program, site, context, materiality and tectonics. Specific emphasis on understanding the influences of site, context and urban design, including the role of social and cultural influences on the built environment.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

ARCH 60114 GRADUATE DESIGN SYSTEMS STUDIO 3-6 Credit Hours
Studio investigation of comprehensive design concerns, including the integration of building systems and implementation of sustainable strategies.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

ARCH 60150 PROJECT PROGRAMMING 2-3 Credit Hours
Study and discussion of the notion of program in architecture and the principles of project programming. Case study analysis and preparation of a comprehensive program for an architectural project.
Prerequisite: ARCH 60101 and ARCH 60301; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter

ARCH 60199 GRADUATE DESIGN STUDIO III 4-8 Credit Hours
Capstone studio aimed at further investigating building design issues both at a greater depth of complexity and by focusing on particular design aspects or areas of concentration.
Prerequisite: Accelerated Track concentration; and graduate standing.
Schedule Type: Project or Capstone, Studio
Contact Hours: 8-16 other
Grade Mode: Standard Letter

ARCH 60211 GRADUATE GLOBAL HISTORY OF ARCHITECTURE I 3 Credit Hours
Global history of architecture from Neolithic times through the 16th Century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 60212 GRADUATE GLOBAL HISTORY OF ARCHITECTURE II 3 Credit Hours
Global history of architecture from the 17th century to the early 21st century.
Prerequisite: ARCH 60211; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 60301 THEORIES OF ARCHITECTURE 1-3 Credit Hours
(Repeatable for maximum 3 credit hours) In-depth analysis and discussion of contemporary architectural theories. Critical evaluation of major authors and architectural projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARCH 60601 TOOLS OF REPRESENTATION 3 Credit Hours
Introduction to the software used in the digital environment for modeling and representing architectural schemes. Course covers software interface, x,y,z coordinates and navigation, Nurbs modeling and mesh modeling. Enables students to design in three-dimension and represent massing studies, building details and develop architectural elements and site context.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 60602 TOOLS OF FABRICATION 3 Credit Hours
Course covers advanced three-dimensional modeling tools and the different methods for outputting digital models into the physical environment. Includes three-dimension printing, laser cutting, CNC milling and vacuum forming.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 60603 TOOLS OF SIMULATION 3 Credit Hours
Course covers two-dimensional and three-dimensional simulation platforms and the theory behind the tools to generate and simulate architectural ideas and environments. Animation techniques and robotic integration operate as the bridge between the digital and the physical environment.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 60604 TOOLS OF CODING 3 Credit Hours
Course covers visual parametric software and coding languages to generate and develop architectural ideas. Integrates the tools and theory of coding and parametric software and their evolution in the architecture field.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

ARCH 60922 METHODS OF INQUIRY IN ARCHITECTURAL STUDIES 2 Credit Hours
(Cross-listed with AED 60922 and LARC 60922) Provides a comprehensive coverage of architectural inquiry techniques, including qualitative and quantitative research methods and critical-thinking skills to help students better conduct and understand research.
Prerequisite: ARCH 60101 and ARCH 60301; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ARCH 65001 PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT 2-4 Credit Hours
Introduction to the economic, social, ethical and legal impact on/of development projects in both the public and the private sectors. Computer applications and case-studies analysis are required.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter

ARCH 65002 PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW 2 Credit Hours
Course surveys laws relating to the practice of architecture and to dispute resolution, with emphasis on contract laws contrasted with laws of negligence and the standard of care in the profession. The planning law component surveys land use control mechanisms as seen through zoning, variances and practical applications.
Prerequisite: Architecture major and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ARCH 65003 PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT 2-3 Credit Hours
Course discusses issues of professional leadership and examines architectural office structures. Management approaches, professional registration and practice, use of consulting engineers and financial management of an office in the context of the profession as business.
Prerequisite: ARCH 65002; and Architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter

ARCH 66199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ARCH 66299 THESIS II 2 Credit Hours
(Repeatable for credit) Following completion of 6 credit hours of Thesis I all graduate students must continuously register for Thesis II for all subsequent academic terms (including summer) until all degree requirements are met.
Prerequisite: 6 credit hours of ARCH 66199; graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ARCH 66892 PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Practicum in the field.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ARCH 66991 SEMINAR:VARIABLE TOPIC 1-4 Credit Hours
(Repeatable for credit) Seminar on a variable topic per course offering.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ARCH 66992 FIELD STUDY 1-3 Credit Hours
(Repeatable for credit) Field study in architecture.
Prerequisite: Graduate standing.
Schedule Type: Field Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ARCH 66993 WORKSHOP: VARIABLE TOPIC 1-3 Credit Hours
(Repeatable for credit) Variable topic workshop in architecture.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 66995 SPECIAL TOPICS IN ARCHITECTURE 1-4 Credit Hours
(Repeatable for credit) Special topics in architecture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ARCH 66996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual investigation in architecture.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ARCH 66998 RESEARCH 2-6 Credit Hours
(Repeatable for credit) Research in architecture.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 2-6 other
Grade Mode: Standard Letter

ARCH 67510 SUSTAINABLE BUILDING CONSTRUCTION I 3 Credit Hours
First course of a two-course sequence. Provides an in-depth survey of design, pre- and post-construction activities pertinent to green building and sustainable design of the built environment. Reviews fundamental concepts and principles of sustainable building design and construction with special emphasis on construction site issues. Provides a comprehensive review of impact of site on construction and building design on the site and its resources. Focus is on understanding the role building design and construction play on resources efficiency and minimizing the impact of construction activities on the environment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 67511 SUSTAINABLE BUILDING CONSTRUCTION II 3 Credit Hours
Second course of a two-course sequence. Provides an in-depth survey of design, pre- and post-construction activities pertinent to green building and sustainable design of the built environment. Reviews fundamental concepts and principles of sustainable building design and construction with special emphasis on building systems. Provides a comprehensive review of impact of building component, materials and systems on design and construction of High-performance buildings. Focus is on understanding the role building design and construction play on resources efficiency and minimizing the impact of construction activities on the environment.
Prerequisite: ARCH 67510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Architecture and Environmental Design (AED)

AED 10001 DESIGN THINKING I 2 Credit Hours
Provides a broad, interdisciplinary introduction to design culture and the visualization of ideas and information through observations of the object in space.
Prerequisite: Architecture, Architectural Studies or Interior Design major.
Corequisite: AED 10101.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AED 10002 DESIGN THINKING II 2 Credit Hours
Explores the role of design in society with a focus on purpose and meaning of form and space in relation to the human body.
Prerequisite: AED 10001; and Architecture, Interior Design, or Architectural Studies major.
Corequisite: AED 10102.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AED 10101 DESIGN FOUNDATIONS STUDIO I 3 Credit Hours
Introduction to the organizational principles and tools designers use to interpret and shape the built environment.
Prerequisite: Architecture, Architectural studies or Interior Design major.
Corequisite: AED 10001.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

AED 10102 DESIGN FOUNDATIONS STUDIO II 3 Credit Hours
A continued exploration of the organizational principles and tools designers use to interpret and shape the built environment.
Prerequisite: AED 10101; and Architecture, Interior Design or Architectural Studies major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

AED 60922 METHODS OF INQUIRY IN ARCHITECTURAL STUDIES 2 Credit Hours
(Cross-listed with ARCH 60922 and LARC 60922)Provides a comprehensive coverage of architectural inquiry techniques, including qualitative and quantitative research methods and critical-thinking skills to help students better conduct and understand research.
Prerequisite: Graduate standing.
Corequisite: AED 60923.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AED 60923 EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN 1 Credit Hour
(Cross-listed with LARC 60923) Introduces a student to faculty-directed research in a field with the environmental design domain. Typically, the course will include lectures by research faculty, readings from primary and review literature, and regular discussions among students, faculty and other research associates working under the direction of a principal investigator.
Prerequisite: Graduate standing; and special approval.
Corequisite: AED 60922.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

AED 60930 APPLIED RESEARCH METHODS IN ARCHITECTURE AND ENVIRONMENTAL DESIGN 3 Credit Hours
Addresses ontological and epistemological underpinnings of applied research methods in the environmental design fields. It is intended to extend students' understanding of quantitative and qualitative research methods, data collection, analysis and interpretation.
Prerequisite: Minimum B- grade in the following courses AED 60922 and 60923; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AED 66098 TOPICAL IMMERSION 3 Credit Hours
(Repeatable for credit) Introduction to specialized topics, literature, techniques, and research methodologies with an individual faculty member.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 9 other
Grade Mode: Standard Letter

AED 66198 ADVANCED PROPOSAL WRITING 2 Credit Hours
(Repeatable for credit) Supports students' development of research topics, review of relevant research and scholarship, framing of research questions and arguments, selection of an appropriate methodology for analysis and submission of a draft introductory and methodology sections of the proposal document.
Prerequisite: AED 60922 and AED 60923 and AED 60930 and ARCH 60301; and graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 6 other
Grade Mode: Standard Letter

AED 66199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Research and writing activities in the performance of thesis study; highly individualized investigative study that results in the development and writing of a scholarly, comprehensive paper. Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

AED 66299 THESIS II 2 Credit Hours
Following completion of 6 credit hours of Thesis I all graduate students must continuously register for Thesis II for all subsequent academic terms (including summer) until all degree requirements are met.
Prerequisite: 6 credit hours of AED 66199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

AED 66995 SPECIAL TOPICS IN ENVIRONMENTAL DESIGN 1-4 Credit Hours
(Repeatable for credit) Special topics in environmental design and science.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Seminar, Workshop
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

Construction Management (CMGT)

CMGT 10001 INTRODUCTION TO CONSTRUCTION MANAGEMENT 3 Credit Hours
Serves to introduce the basic terms, concepts, procedures and current trends in the construction industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 11044 CONSTRUCTION SAFETY 3 Credit Hours
The theories and principles of construction safety and health applied to real-world setting. Upon completion of course materials and required attendance hours, students receive their OSHA 30 certification.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Construction Technology

CMGT 11071 CONSTRUCTION MATERIALS AND METHODS I 3 Credit Hours
An introduction to principles of building construction, including preparation for the structures and environmental control sequences. Includes a more detailed and systematic look at wood light-frame construction.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Construction Technology, TAG Engineering Technology

CMGT 21071 CONSTRUCTION MATERIALS AND METHODS II 3 Credit Hours
Ties together steel and concrete structural systems and the integration of building service systems, with a focus on the construction and detailing of building enclosure systems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 22200 CONSTRUCTION DOCUMENT READING 3 Credit Hours
The reading and understanding of the drawings that are used to communicate information about commercial and residential buildings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Construction Technology

CMGT 27210 SUSTAINABILITY IN THE BUILT ENVIRONMENT 3 Credit Hours
With broad coverage including architecture, engineering, and construction, this course nevertheless delivers detailed information on all aspects of the green building process, from materials selection to building systems and more.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

CMGT 31015 CONSTRUCTION TECHNOLOGY 3 Credit Hours
Course provides basic concepts and practices of the construction industry, including estimating, materials, tools, techniques and production of residential construction.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

CMGT 31023 CONSTRUCTION SURVEYING 3 Credit Hours
The study of surveying, including fieldwork, using state-of-the-art equipment and its relationship to the construction documents.
Prerequisite: CMGT 22200.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

CMGT 31033 MECHANICAL SYSTEMS 3 Credit Hours
An overview of mechanical systems in commercial and residential buildings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 31040 ELECTRICAL SYSTEMS FOR CONSTRUCTION MANAGERS 3 Credit Hours
An overview of electrical systems in commercial and residential buildings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 31044 ADVANCED CONSTRUCTION SAFETY AND MANAGEMENT 3 Credit Hours
Course enables students to be able to properly manage the construction safety techniques and practices they learned in CMGT 11044. Course provides the opportunity for students to learn how to utilize management skills to lead and implement an effective construction safety program.
Prerequisite: CMGT 11044.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 31045 CONSTRUCTION RISK MANAGEMENT 3 Credit Hours
Course provides an in-depth study of various risks associated with construction projects, and how those risks affect the construction industry. Topics of discussion include analytical and management techniques used to identify, analyze and respond to risks. Students review actual legal case studies and develop written opinion papers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 31046 INTRODUCTION TO INSURANCE AND WORKER'S COMPENSATION 3 Credit Hours
Introduction to construction-related insurance products and worker's compensation practices and policies. Course provides the understanding of the legal, management and costing implications associated with each of these, both prior to and during a construction project.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 32001 PROPOSAL DEVELOPMENT AND ANALYSIS 3 Credit Hours
(Repeatable for credit) Students create and combine project management, safety and quality control plans to prepare quantity takeoffs and schedule for a construction project, in the form of a construction proposal and presentation. Further analysis is done on general construction proposals.
Prerequisite: CMGT 10001; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 33092 CONSTRUCTION MANAGEMENT INTERNSHIP (ELR) (WIC) 2-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Supervised work-study experience in an approved construction-related business that is relative to a student's program. The course can be taken for 3 credit hours in the semester for full-time employment (450+ total hours) or 2 credit hours for part-time employment (300-450 total hours). To repeat the course for credit, the student must assume a different position or responsibilities if employed by the same organization, or the student must be employed by a different company.
Prerequisite: Minimum 2.250 overall GPA; and Construction Management major or minor; and sophomore standing.
Pre/corequisite: CMGT 11044.
Schedule Type: Practical Experience
Contact Hours: 20-30 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CMGT 33111 INTRODUCTION TO BUILDING STRUCTURES 3 Credit Hours
Introduction to Building Structures covers the basic concepts of vector mechanics and statics with their application to the relationship between applied forces and internal effects as utilized in either the selection or investigation of structural members subjected to various loading conditions
Prerequisite: PHY 13001 or PHY 23101.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab
Grade Mode: Standard Letter

CMGT 37295 SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT 1-3 Credit Hours
Analysis of significant and current issues in construction management not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CMGT 40095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) The course content is dependent on the special topics content.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CMGT 41040 CONSTRUCTION ESTIMATING I 3 Credit Hours
(Slashed with CMGT 51040) Introduction to estimating and the quantity takeoff process needed to complete accurate estimates for all types of construction projects. Students must have the ability to read and understand construction drawings.
Prerequisite: CMGT 11071 and CMGT 21071 and CMGT 22200.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 41041 CONSTRUCTION ESTIMATING II 3 Credit Hours
(Slashed with CMGT 51041) Course covers putting costs to the project, finalizing the bid, incorporating the estimate into the schedule, buying out the project, bidding ethics and using computer spreadsheets, including Excel, to automate estimating functions.
Prerequisite: CMGT 41040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 41047 FUNDAMENTALS OF INDUSTRIAL AND CONSTRUCTION HYGIENE 3 Credit Hours
Focuses on the environmental, community and occupational health issues within facilities and construction sites. Course provides the opportunity for students to recognize, evaluate and control occupational hazards.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 41048 OCCUPATIONAL SAFETY AND HEALTH LAW 3 Credit Hours
Course focuses on general legal doctrine and practical considerations of the Occupational Safety and Health Act (OSHA). Covers the scope of the act, duties under the act, enforcement, adjudication and OSHA-related litigation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42030 BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGEMENT 3 Credit Hours
This course is intended to apply Building Information Modeling tools in a meaningful manner within the field of Construction Management. The course will progress through the core concepts of widely used VDC tools: Sketchup, Revit, Navisworks. The key areas of focus will be conceptualizing projects, quantity takeoff, scheduling, and constructability review. Class time will involve hands-on training and exercises that will simulate real-world situations and deadlines. Complexity levels in the models will be minimized to ensure focus on concepts. Students will have multiple opportunities to hone their presentation skills with their projects through the course progression.
Prerequisite: CMGT 22200.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42050 INTERNATIONAL CONSTRUCTION MANAGEMENT 3 Credit Hours
Course focuses on the culture and management of international design and construction operations, with an emphasis on business development, financing, planning, contracts and negotiations, special construction techniques in adverse environments, procurement and logistics. A short-term study abroad trip is included in the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42051 ALTERNATIVE ENERGY SYSTEMS IN BUILDING DESIGN 3 Credit Hours
Course focuses on the construction application of alternative mechanical, electrical and plumbing systems in the built environment. Emphasis on energy efficient systems, energy conservation, cost benefits, building issues and construction techniques to develop these systems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42052 MECHANICAL AND ELECTRICAL ESTIMATING 3 Credit Hours
Course focuses on estimating mechanical, electrical, plumbing and fire protection systems for the built environment. Covers detailed estimating practices of mechanical systems, including indirect costs, direct costs, bidding strategies, piping, pumps, plumbing systems, fire protection, HVAC, ductwork, insulation, automatic temperature controls, supports and manpower.
Prerequisite: CMGT 31033 and CMGT 31040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42053 SUBCONTRACTOR LEADERSHIP AND PRACTICES 3 Credit Hours
Course focuses on the leadership, operations and overall management of construction subcontractor companies. Emphasis on how subcontractor leaders can avoid mistakes and manage risk to make their scopes of work run more intelligently, effectively and efficiently.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42054 CIVIL ESTIMATING 3 Credit Hours
Course provides an in-depth review and application of civil construction estimating techniques and technology associated with civil estimating practices. Course covers site work, site utilities, substructures and heavy equipment estimating.
Prerequisite: CMGT 10001 and CMGT 41040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42055 CIVIL UTILITY SYSTEMS 3 Credit Hours
Course discusses the installation, construction, renewal, estimating and management of underground utility systems. Maintains an emphasis on minimal soil and environmental disturbance.
Prerequisite: CMGT 10001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42056 SOILS AND MATERIALS 3 Credit Hours
Building on previous knowledge of construction, students explore the nature of soils and how they can influence construction operations, soil safety, soils within the construction contract, soil classifications, soil strengths and specification sections tied to soils and materials.
Prerequisite: CMGT 10001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

CMGT 42105 CONSTRUCTION CONTRACTS AND LAW 3 Credit Hours
(Slashed with CMGT 52105) Course covers the fundamentals of construction contracts and law; the impact of information technology on contracts and contracting; and the effect of contracts and law on the management, administration and costs of construction work.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42107 CONSTRUCTION SCHEDULING 3 Credit Hours
(Slashed with CMGT 52107) The traditional theory of planning, scheduling and controlling construction projects. Current industry standard computer applications for scheduling are utilized.
Prerequisite: CMGT 41041.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 43096 INDIVIDUAL INVESTIGATION IN CONSTRUCTION MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

CMGT 43099 CONSTRUCTION MANAGEMENT CAPSTONE (ELR) 3 Credit Hours
The application of all previous construction management courses and experiences to ensure all major learning objectives have been obtained, and that these learning objectives can be applied to performance similar to industry practices.
Prerequisite: CMGT 31033 and CMGT 31040 and CMGT 41041 and CMGT 42105 and CMGT 42107; and senior standing.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CMGT 50095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Various content based on the special topics content.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CMGT 51040 CONSTRUCTION ESTIMATING I 3 Credit Hours
(Slashed with CMGT 41040) Introduction to estimating and the quantity takeoff process needed to complete accurate estimates for all types of construction projects. Students must have the ability to read and understand construction drawings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 51041 ADVANCED ESTIMATING 3 Credit Hours
(Slashed with CMGT 41041) Course covers putting costs to the project, finalizing the bid, incorporating the estimate into the schedule, buying out the project, bidding ethics and using computer spreadsheets, including Excel, to automate estimating functions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 52105 CONSTRUCTION CONTRACTS AND LAW 3 Credit Hours
(Slashed with CMGT 42105) Course covers the fundamentals of construction contracts and law; the impact of information technology on contracts and contracting; and the effect of contracts and law on the management, administration and costs of construction work.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 52107 CONSTRUCTION SCHEDULING 3 Credit Hours
(Slashed with CMGT 42107) The traditional theory of planning, scheduling and controlling construction projects. Current industry standard computer applications for scheduling are utilized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 52110 ADVANCED CONSTRUCTION MANAGEMENT 3 Credit Hours
A comprehensive application of construction management principles and practices to various situations and projects according to construction industry methods and performance standards.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62030 BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGEMENT 3 Credit Hours
Course reinforces and investigate the usage of building information modeling (BIM) as a construction management tool. Students create BIM models, with scheduling and cost loading, to understand how BIM usage is maximized within the built environment. Student utilizes software applications to create the BIM model and integrate the construction schedule and estimate. Students also perform research on the application of BIM in the industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62040 CONSTRUCTION METHODS IMPROVEMENTS 3 Credit Hours
A focused study of the philosophy and principles of quality management as applied to the construction industry. Course presents a project-based approach to the principles and practices of Total Quality Management (TQM) in construction projects and the application of TQM and other quality measures during different phases of the construction process.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62050 INTERNATIONAL CONSTRUCTION MANAGEMENT 3 Credit Hours
Topics include operating and sustaining an international business or business presence, the global market, project funding, case studies and best practices. Course includes project-specific case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62060 NEGOTIATION IN THE BUILT ENVIRONMENT 3 Credit Hours
Examination of negotiation theories, strategies and tactics as applied to transactions in the construction and technological environments. Establishment of win-win environment in dealing with the project parties by adopting creative means to solve problems and resolve disputes. Practice through negotiation case studies, scenarios and role playing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62070 ENGINEERING ECONOMICS AND STRATEGIC DECISION MAKING 3 Credit Hours
Application of engineering economic principles related to evaluating alternative solutions, replacement decisions and retention decisions. Includes decision and risk analysis, sensitivity analysis, expected value, benefit cost analysis, public sector economics, economic cycle, operation research, strategic management and entrepreneurship in the technological environment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62080 ADVANCED CONSTRUCTION RISK MANAGEMENT 3 Credit Hours
This course provides an in-depth study of various risks associated with construction projects, and how those risks affect the construction industry. This course prepares leaders to make decisions that affect individual projects and the organization as a whole. Topics of discussion include analytical and management techniques used to identify, analyze, and respond to construction risks. Students review case studies, texts, and use instructor examples of how to identify and mitigate risks.
Prerequisite: Graduate Standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62108 ADVANCED CONSTRUCTION SCHEDULING 3 Credit Hours
This course reviews the traditional theory on planning, scheduling and controlling construction projects, including development of critical path networks (CPM & PERT), Gantt bar charts and construction cost control and reporting practices. Further, research and development of advanced scheduling theories and practice are performed and mastered, as well as classroom teaching and presentation experience. Forensic scheduling and claim building for construction delay concepts and practices are also investigated, reviewed, analyzed and practiced.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 65099 MASTER PROJECT IN CONSTRUCTION MANAGEMENT 3 Credit Hours
This course is the application of all previous construction management courses and experiences to ensure all major learning objectives have been obtained, and that these learning objectives can be applied to performance similar to industry best practices.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 67295 SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT 1-4 Credit Hours
Analysis of significant and current issues in construction management not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

CMGT 67296 INDIVIDUAL INVESTIGATION IN CONSTRUCTION MANAGEMENT 1-3 Credit Hours
Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

CMGT 67320 APPLIED SUSTAINABILITY IN CONSTRUCTION MANAGEMENT 3 Credit Hours
Investigation of strategies and methods used by construction managers and others to assist in developing sustainable built environments. Course takes a close look at standards for environmentally sustainable construction and at the application of best management practices for construction activities. Focus is on LEED certification, international standards on environmental management systems and other established criteria, guidelines, standards and tools associated with green building. Provides an in-depth discussion and practical application of LEED assessment, guidelines and standards for various building sectors. Includes a major individual design project/case study involving research in green construction and design on a particular construction project, along with the application of LEED guidelines, assessment and methods to the project.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Healthcare Design (HCD)

HCD 60000 HEALTHCARE DESIGN STUDIO 6 Credit Hours
Course integrates and applies expert knowledge in healthcare design. Projects demonstrate solutions through design, case study analysis and in collaboration with industry and healthcare partners.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

HCD 60092 PRACTICAL EXPERIENCE 1 Credit Hour
Course offers students multiple options that allow for first-hand experience with a healthcare facility design project or environment; and to develop professional communication skills, job search skills and how to navigate starting a career in healthcare design.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 1 other
Grade Mode: Standard Letter

HCD 60100 HEALTHCARE SYSTEMS WORKSHOP 3 Credit Hours
Course integrates the knowledge-base gained in other core courses into design evaluations and solutions, helping students apply what they have learned in practice. Focus is on learning about other healthcare systems, design trends and research applications. Students deliver a design project and/or a report of the field trip.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Standard Letter

HCD 60101 HEALTHCARE DESIGN WORKSHOP: CULTURE AND ETHICS 3 Credit Hours
Course integrates the knowledgebase gained in other courses into design evaluations and solutions, helping students apply what they have learned in practice. Focus is on a small design project.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Standard Letter

HCD 61099 MASTER'S PROJECT RESEARCH 3 Credit Hours
Students learn research methods, evaluate precedents and conduct a guided research study investigating specific design goals and parameters in preparation for their individual master's project. They learn to use and apply research and evidence in the healthcare design process. Students use their findings to establish and define design guidelines that help inform their master's projects.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

HCD 62099 MASTER'S PROJECT STUDIO 6 Credit Hours
Focused on an individual student's defined master's project topic. Projects will include site selection, site analysis, and demonstrate creative solutions through design. The course concludes in the design of the topic established in Master's Project Preparation. This is the culminating course for the master's degree in Healthcare Design. This course will be overseen by the course instructor in collaboration with design practitioners.
Prerequisite: HCD 61099; and graduate standing; and special approval.
Schedule Type: Project or Capstone, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

HCD 63001 EVIDENCE-BASED DESIGN IN HEALTHCARE 2 Credit Hours
Course offers the knowledge and skills required for applied research, and the use of credible data in the design decision-making process. Encompasses the evidence-based design (EBD) process, and how it applies in projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HCD 63002 HEALTHCARE FACILITIES 2 Credit Hours
An investigation of the history and types of healthcare facilities, design guidelines and basic planning and programming requirements for their planning and design.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HCD 63003 ENVIRONMENTAL SYSTEMS AND MATERIALS IN HEALTHCARE 2 Credit Hours
An investigation of architectural finishes, furnishings, mechanical systems and lighting in healthcare settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HCD 63004 ENVIRONMENTS OF CARE AND PATIENT POPULATIONS 2 Credit Hours
Course explores the functional, operational and person psychosocial requirements for different patient populations. Focus is on how design can respond to specific patient population needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HCD 63005 PATIENT SAFETY AND SYSTEMS THINKING 2 Credit Hours
Course introduces systems engineering initiative for patient safety as a major interdisciplinary approach known as systems thinking. Covers the basics of human factors in healthcare and the interactive relationship between humans and the environment; including the factors contributing to patient safety in healthcare settings, and the role environments play in patient safety.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

Interior Design (ID)

ID 10112 INTERIOR DESIGN STUDIO I 4 Credit Hours
A studio course that introduces students to foundational concepts of interior space. Topics will include studies of room and its contents; color theory and interior color; design and human behavior; representation through sketching, orthographic drawing, collage, and model building; and digital techniques. Design thinking and iterative design work-process will be emphasized.
Prerequisite: AED 10101 and ID 14011.
Pre/corequisite: ID 10601.
Schedule Type: Studio
Contact Hours: 8 other
Grade Mode: Standard Letter

ID 10601 REPRESENTATION AND VISUALIZATION I 2 Credit Hours
This course introduces analog and digital representation and visualization skills and tools as they relate to the design of interior environments. Students will gain an understanding of and be able to apply knowledge and skills of visualization, observation, documentation, introductory orthographic representation, and graphic design.
Prerequisite: AED 10101.
Pre/corequisite: ID 10112.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

ID 14011 INTRODUCTION TO INTERIOR DESIGN 1 Credit Hour
Introduction to a broad range of interior design issues including environmental, ecological, aesthetic, social, global, spatial, ethical and technical, and addresses the needs of the human being related to interior design practice. Students acquire knowledge and understanding of significant aspects in interior design and diverse options within the profession, which helps them to identify their career paths in interior design.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ID 20012 GLOBAL HISTORY OF INTERIORS 3 Credit Hours
Global history of interiors from the 17th-century to the present. Interiors will be examined alongside developments in furnishings, fine and decorative arts, and architecture. The influence of culture, technology, geography, economics, politics, and style will be investigated.
Prerequisite: ARCH 10011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 20221 INTERIOR DESIGN STUDIO II 5 Credit Hours
A studio course that builds on the foundation that students have developed in ID Studio I. Students will engage in making an idea, and develop an understanding of materials, joints, assembly, and their interrelationships. The studio will focus on an understanding of the room in the context of interior design with an emphasis on design process, creative thinking, and student agency (analysis, iteration, evaluation and groups crits). Throughout the semester students will gain a familiarity of both analog and digital shop tools.
Prerequisite: ID 10112 and ID 10601.
Pre/corequisite: ID 20602 and ID 20401.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 20232 INTERIOR DESIGN STUDIO III 5 Credit Hours
This studio course reflects a continuation in the development of skills, exploration, technical knowledge, and experimentation through design. Students will expand their ability to program spaces for human habitation, 'the body inside', and develop the initial skills for detailing, fabricating, and documenting interior components beyond schematic design. The objective of this course is to provide the opportunity to balance technical considerations with creative ambitions through design projects by focusing on analysis, synthesis, placemaking, space planning and understanding of volumetric relationships.
Prerequisite: ID 20221 and ID 20602.
Pre/corequisite: ID 20402.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 20401 INTERIOR DESIGN METHODS AND MATERIALS I: INTERIOR MATERIALS 3 Credit Hours
The focus of this course is to explore the methods and materials utilized in the design and construction of the interior environment. Topics include the industry standards and requirements that pertain to finishes and materials, composition of various interior materials/finishes, proper methods of application and installation of selected materials.
Prerequisite: ID 10112.
Pre/corequisite: ID 20221 and ID 20602.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 20402 INTERIOR DESIGN METHODS AND MATERIALS II: BUILDING SYSTEMS AND CODES 3 Credit Hours
This course is an introduction to the principles of building construction, systems, assemblies, and building codes and regulations. Topics include-building structural systems, assemblies, environmental comfort, building safety, security, controls, and mechanical, electrical and, plumbing systems that influence and interact with interior design. This course examines the principles, regulations, systems, materials and details that comply with building code and regulations. Study of the principles and practice of sustainable design are continued.
Prerequisite: ID 20401.
Pre/corequisite: ID 20232.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ID 20602 REPRESENTATION AND VISUALIZATION II 2 Credit Hours
The course builds on the fundamental skills developed in Representation and Visualization I. Students are introduced to BIM technology as a design tool, utilizing a variety of three-dimensional representation and rendering techniques that focus on form, light, and materiality. Students will also learn how to effectively document design work three-dimensionally.
Prerequisite: ID 10601.
Pre/corequisite: ID 20221.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

ID 30321 INTERIOR DESIGN THEORY 3 Credit Hours
This course is an introduction to theoretical ideas in interior design and explores its conceptual relationships with other disciplines including art, architecture, fashion, environmental psychology, and the social sciences. Topics include: theories of the body in interior space, environmental psychology, sustainability, theories of technology, cultural studies, activist practice, and inclusive design. Readings will be drawn from both the humanities and social sciences.
Prerequisite: ID 20012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 30331 DESIGN WRITING FOR INTERIORS (WIC) 1 Credit Hour
A writing-intensive course exploring the relationship between professional discourse, fiction, observational description, and the graphic novelization of interior environments. Writing strategies employed in the course include narrative fiction, observational description, and professional communication.
Prerequisite: ID 20221.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ID 30341 INTERIOR DESIGN STUDIO IV 5 Credit Hours
This course is an Introduction to large-scale commercial space design with an emphasis on ideation, branding, space planning, developing design strategies for comprehensive design, office systems furniture planning and development of workstation prototype, producing comprehensive construction documentation, and collaborative design through studio projects and lectures.
Prerequisite: ID 20232.
Pre/corequisite: ID 30603.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 30352 INTERIOR DESIGN STUDIO V 5 Credit Hours
A studio course focusing on the investigation of contexts of interior space. Topics will include studies of architectural and historical contexts, including adaptive reuse, urban contexts, and social and cultural contexts in a globalizing world. Emphasis will also be placed on the development of design strategies, and expressions of strategy across scales.
Prerequisite: ID 30341.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 30391 VARIABLE CONTENT SEMINAR IN INTERIOR DESIGN 3 Credit Hours
(Repeatable for credit)Intermediate-level topics in global interior design history or theory.
Prerequisite: ID 30321.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 30403 INTERIOR DESIGN METHODS AND MATERIALS III: LIGHTING AND ACOUSTICS 3 Credit Hours
This course explores the relationships between theory, technical application, social, environmental, and sustainable aspects for designing lighting and acoustical interior environments. The course addresses the fundamental design and technical aspects of the lighting and acoustics industries as they impact interior design.
Prerequisite: ID 20402.
Pre/corequisite: ID 30341.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ID 30501 PROFESSIONAL PRACTICES I 3 Credit Hours
An overview of the professional practice of interior design and facilitates student's entry into the profession. Topics include - issue of legal recognition of the profession and licensing; types of business formations; control and management of projects and people; legal and ethical responsibilities; and opportunities within the design profession. Students will learn self-promotion tools like portfolio preparation, and valuable interview skills to uncover how they might position themselves professionally in the rapidly changing discipline of Interior Design.
Prerequisite: ID 30341.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 30603 REPRESENTATION AND VISUALIZATION III 2 Credit Hours
Builds on previous fundamentals taught in Rep Vis I & II, focusing on advanced rendering, and representation techniques. Includes exploration of virtual and augmented reality. Students are also introduced to the fundamentals of Contract Documentation, including annotation, MEP coordination, and detailing.
Prerequisite: ID 20602.
Pre/corequisite: ID 30341 and ID 30403.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

ID 40311 CONTEMPORARY ISSUES AND RESEARCH 3 Credit Hours
The course focuses on human well-being and contemporary social, economic, environmental, political and cultural issues influencing the practice and discipline of interior design. Course studies conceptual frameworks and research methodologies and their application to interior design.
Prerequisite: ID 30352.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 40404 INTERIOR DESIGN METHODS AND MATERIALS IV: ADVANCED MATERIALS AND ASSEMBLIES 3 Credit Hours
This advanced Methods and Materials course will examine characteristics associated with materials, methods, assemblies, and systems and their potential to generate innovative meanings and design outcomes.. Through a series of case studies and projects, creative uses and combination of research, methods, fabrication, detailing and synthesis are explored.
Prerequisite: ID 30403.
Pre/corequisite: ID 40461.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 40461 INTERIOR DESIGN STUDIO VI 5 Credit Hours
The studio involves understanding and designing for others with distinct realities and unfamiliar experiences by utilizing current specific social issues as design problems. Through the participatory and self-reflective design process, the students are challenged to abandon the stability of their worldview to align viewpoints with that of the end users of the designed space. Emphasis will be placed on constant reflection, understanding and respect from all participating members, not just the account of one individual's imaginative projections.
Prerequisite: ID 30352.
Pre/corequisite: ID 40404.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 40472 INTERIOR DESIGN STUDIO VII 5 Credit Hours
An advanced studio course focused on developing concepts and capacities for independent future practice. Topics will rotate based upon faculty expertise and student research interests as developed in ID 40311 Contemporary Issues and Research. Emphasis will be placed upon advanced theoretical and strategic development; advanced understandings of social, cultural, and spatial contexts; design as research; advanced representational strategies; and sophisticated design expression across all facets and scales of a project.
Prerequisite: ID 40461.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 40502 PROFESSIONAL PRACTICES II 3 Credit Hours
This advanced professional practice course proposes a critical approach to understand, evaluate and analyze interior design profession, projects and practice. The course focuses on the business, legal, financial, and managerial considerations of project and practice utilizing an intensive case study approach, and critical discussions on urgent topics facing practice.
Prerequisite: ID 30501.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 41093 VARIABLE TITLE WORKSHOP IN INTERIOR DESIGN 1-4 Credit Hours
(Slashed with ID 51093)(Repeatable for credit) Workshops dealing with variable topics related to the interior design profession. Learning experiences provided in a broad spectrum of specialties.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

ID 41095 SPECIAL TOPICS IN INTERIOR DESIGN 1-4 Credit Hours
(Repeatable for credit)Discussion of a major topic or issue within the profession of interior design. Repeat registration permitted.
Prerequisite: Interior design major.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ID 41096 INDIVIDUAL INVESTIGATION IN INTERIOR DESIGN 1-3 Credit Hours
(Repeatable for credit)Independent study of interior design and related topics under the guidance of a faculty member.
Prerequisite: Interior design major.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ID 44527 STUDY TOURS 1-10 Credit Hours
A series of study tours for in-depth, first-hand experiences of historic sites, markets, manufacturing facilities and attendance at product seminars.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 1-10 lecture
Grade Mode: Standard Letter

ID 44592 PROFESSIONAL INTERIOR DESIGN INTERNSHIP (ELR) 1-4 Credit Hours
(Repeatable for credit) Provides practical professional interior design experience by exposing the student to first-hand knowledge of the professional work environment. Students are required to prepare a portfolio and resume, and interview for the positions offered by the professional design firms locally, nationally and internationally.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 12-48 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ID 51093 VARIABLE TITLE WORKSHOP IN INTERIOR DESIGN 1-4 Credit Hours
(Slashed with ID 41093)(Repeatable for credit) Workshops dealing with variable topics related to the interior design profession. Learning experiences provided in a broad spectrum of specialties.
Prerequisite: Interior Design major; and graduate standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

ID 51095 SPECIAL TOPICS IN INTERIOR DESIGN 1-4 Credit Hours
(Repeatable for credit) Discussion of a major topic or issue within the profession of interior design.
Prerequisite: Interior design major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ID 51096 INDIVIDUAL INVESTIGATION IN INTERIOR DESIGN 1-3 Credit Hours
(Repeatable for credit)Independent study of interior design and related topics under the guidance of a faculty member.
Prerequisite: Interior design major; and graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ID 54535 HISTORY OF INTERIORS 1600 TO PRESENT 4 Credit Hours
A chronological study of housing and furnishings from the Renaissance to the Victorian Period, sixteenth to nineteenth centuries and twentieth century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

Landscape Architecture (LARC)

LARC 40095 SPECIAL TOPICS IN LANDSCAPE ARCHITECTURE 1-3 Credit Hours
(Slashed with LARC 50095)(Repeatable for credit) Special topics in landscape architecture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LARC 50095 SPECIAL TOPICS IN LANDSCAPE ARCHITECTURE 1-3 Credit Hours
(Slashed with LARC 40095)(Repeatable for credit) Special topics in landscape architecture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LARC 50100 DESIGN VISUALIZATION 3 Credit Hours
Demonstration and application of computer software that aids the communication skill of a designer.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 50101 LANDSCAPE ARCHITECTURE STUDIO I 6 Credit Hours
Garden Typologies: Beginning studio focused on garden typologies including exploration of small scale design elements and site, with private spaces emphasis.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

LARC 50102 LANDSCAPE ARCHITECTURE STUDIO II 6 Credit Hours
Neighborhoods: Small scale community design that connects spaces to form neighborhoods and establishes linkages to larger communities.
Prerequisite: LARC 50101; and landscape architecture major; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

LARC 60103 LANDSCAPE ARCHITECTURE STUDIO III 6 Credit Hours
Systems and Infrastructure: Natural and hybrid ecological design studio with exploration of the role of systems and the integration into suburban and urban infrastructures with a focus on ecological function and services.
Prerequisite: LARC 50102; and landscape architecture major; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

LARC 60104 LANDSCAPE ARCHITECTURE STUDIO IV 6 Credit Hours
Urban Form: Urban design studio at multiple scales to understand the diversity of a city with an emphasis on the relationships of architecture forms, systems, infrastructures, and landscape architecture functions.
Prerequisite: LARC 60103; and landscape architecture major; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

LARC 60105 LANDSCAPE ARCHITECTURE STUDIO V 6 Credit Hours
Interdisciplinary or Capstone Studio: Option of a studio with graduate CUDC architecture and urban design students or development of an individual studio project with a selected faculty advisor.
Prerequisite: LARC 60104; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

LARC 60106 LANDSCAPE ARCHITECTURE STUDIO VI 6 Credit Hours
Interdisciplinary or Capstone Studio 2: Option of a studio with graduate CUDC architecture and urban design students or develop individual studio project and select faculty adviser.
Prerequisite: LARC 60105; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter-IP

LARC 60111 LANDSCAPE HISTORY AND THEORY 3 Credit Hours
Presentation of important landscape events, people and places to document and explain the factors that influenced the built and natural environments, with emphasis on cultural theories of design and their influence upon the built and natural environments.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60301 SITE ENGINEERING 3 Credit Hours
Examination and application of typical engineering strategies for small and large scale landscape projects with a concentration on sustainable practices.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60401 LANDSCAPE ARCHITECTURE CONSTRUCTION METHODS 3 Credit Hours
Discussion and application of small and large scale construction techniques that explore materials, construction assemblies, construction methods and construction documentation including investigations of lifecycles and maintenance of design decisions.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60601 PLANTS AND PLANTED FORM 3 Credit Hours
Plant identification with emphasis on individual plants and plant communities as relate to the built environment; integrated into the application of formal and informal design strategies for landscape planning that explores individual plants, plant communities and ecosystems. Further emphasis is placed on the relationships of architecture and interior design to landscape architecture.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60602 URBAN ECOLOGICAL SYSTEMS 3 Credit Hours
Study of how ecological systems in highly anthropocentric environments provide necessary ecological services. Emphasized is the role that water plays in activating the supporting, provisioning, regulating and cultural ecosystem services required for human well-being.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60798 MASTER PROJECT IN LANDSCAPE ARCHITECTURE RESEARCH 3 Credit Hours
Development of a rationale and structure for the independent design project to be completed in the final semester of the program.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 9 other
Grade Mode: Standard Letter

LARC 60799 MASTERS PROJECT IN LANDSCAPE ARCHITECTURE 6 Credit Hours
Independent Landscape Architecture design project, completed under the direction of an individual advisor selected from the graduate faculty.
Prerequisite: LARC 60105 and Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 6 other
Grade Mode: Standard Letter

LARC 60922 METHODS OF INQUIRY IN ARCHITECTURAL STUDIES 2 Credit Hours
(Cross-listed with AED 60922 and ARCH 60922) Provides a comprehensive coverage of architectural inquiry techniques, including qualitative and quantitative research methods and critical-thinking skills to help students better conduct and understand research.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

LARC 60923 EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN 1 Credit Hour
(Cross-listed with AED 60923) Introduces student to faculty-directed research in a field within the environmental design domain. Includes lectures by research faculty, readings from primary and review literature, and regular discussions among students, faculty and other research associates working under the direction of a principal investigator.
Prerequisite: Landscape architecture major; and graduate standing.
Corequisite: LARC 60922.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LARC 65003 PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT 3 Credit Hours
Discusses issues of professional leadership and examines architectural office structures. Management approaches, professional registration and practice, use of consulting engineers and financial management of an office in the profession as business.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 66992 FIELD STUDY IN LANDSCAPE ARCHITECTURE 1-3 Credit Hours
(Repeatable for credit) Field study in landscape architecture.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter

Urban Design (UD)

UD 55705 FORCES THAT SHAPE CITIES 1-3 Credit Hours
(Repeatable for maximum 3 credit hours) Course examines the forces that have shaped urban form through history, how they impact our cities today and the challenges they will pose for the future.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

UD 60701 URBAN DESIGN STUDIO I 3-6 Credit Hours
Introduction to urban design and its relationship to other design disciplines through the analysis of neighborhoods and the definition of comprehensive area improvement programs.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6-10 other
Grade Mode: Standard Letter

UD 60702 URBAN DESIGN STUDIO II 3-6 Credit Hours
Urban design explorations of the formal relationships between buildings, open spaces and street sin the development of high density, mixed-use projects.
Prerequisite: UD 60701; and graduate standing.
Schedule Type: Studio
Contact Hours: 6-10 other
Grade Mode: Standard Letter

UD 60703 URBAN DESIGN STUDIO III 3-6 Credit Hours
Design of a comprehensive redevelopment strategy and implementation strategies for an urban area of diverse existing character.
Prerequisite: UD 60701 or UD 60702; and graduate standing.
Schedule Type: Studio
Contact Hours: 6-12 other
Grade Mode: Standard Letter

UD 60705 MASTER PROJECT IN URBAN DESIGN PREPARATION 1-3 Credit Hours
(Repeatable for maximum three credit hours) Development of a rationale and structure for the independent design project to be completed in the final semester of the program.
Prerequisite: UD 60703; and graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

UD 60798 MASTERS PROJECT IN URBAN DESIGN 6-9 Credit Hours
Independent urban design project, completed under the direction of an individual advisor selected from the graduate faculty.
Prerequisite: UD 60703 and 60705; and graduate standing.
Schedule Type: Master's Project
Contact Hours: 10-15 other
Grade Mode: Standard Letter-IP

UD 65101 COMMUNITY DEVELOPMENT PROCESS 1-3 Credit Hours
Advanced course on comprehensive community development. Case study analysis, qualitative research and work with community initiatives are required.
Prerequisite: UD 55705 and 60703 and 65102; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UD 65102 URBAN SYSTEMS 1-3 Credit Hours
Introduction to urban systems in its socio-economic, environmental and engineering aspects: residential fabric, commercial sector, open space network, transportation systems, and infrastructures.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

UD 65632 URBAN ECOLOGICAL SYSTEMS 3 Credit Hours
Study of how ecological systems in highly anthropocentric environments provide necessary ecological services. Emphasized is the role that water plays in activating the supporting, provisioning, regulating, and cultural ecosystem services required for human well-being.
Prerequisite: UD 65102; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UD 66896 URBAN DESIGN PRACTICUM PROJECT 2-4 Credit Hours
Culminating experience that combines research and urban actions/interventions.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 6-12 other
Grade Mode: Standard Letter

UD 66995 SPECIAL TOPICS IN URBAN DESIGN 1-4 Credit Hours
(Repeatable for credit) Special topics in urban design.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

Architectural History - Minor

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

The Architectural History minor is intended for students who desire to expand their understanding of architectural history. Students with an interest in or declared in the following majors may benefit from this minor: History, Geography, Architecture, Art History, Interior Design and Architectural Studies.

Contact Information

- **Sung Ho Kim** | skim67@kent.edu | 330-672-2917
- caed_info@kent.edu
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	3
Minor Electives, choose from the following:		15
ARCH 45210	RENAISSANCE ARCHITECTURE	
ARCH 45211	BAROQUE ARCHITECTURE	
ARCH 45213	20TH CENTURY ARCHITECTURAL HISTORY	
ARCH 45220	ARCHITECTURE IN THE UNITED STATES	
ARCH 45230	FRANK LLOYD WRIGHT	
ARCH 45240	THE SKYSCRAPER	
ARCH 45241	ARCHITECTURE OF WORLD'S FAIRS	
ARCH 45295	SPECIAL TOPICS IN ARCHITECTURAL HISTORY	
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Compare and contrast a wide range of architectural styles, structures and cultural differences from ancient civilizations to the present.

2. Analyze topics in architectural history both visually and verbally.
3. Criticize historical narratives according to historiographic method.
4. Define research topics, refine research methods and interpret archival and secondary sources.

Architectural Studies - B.A.

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

If you want to explore your creativity and study the many ways architecture intersects with art, history, culture, theory, society, environment and urbanism, Kent State's Architectural Studies B.A. program is right for you. The program will introduce you to a wide array of design fields and prepare you for professional master's degrees in architecture, landscape architecture, urban planning/design, historic preservation and other exciting fields. Because of its focus on the language, logic and rhetoric of design, it will teach you to read, write, discuss and debate issues related to architecture and express your voice as an architectural critic. Read more...

Contact Information

- **Brett Tippey** | btippey@kent.edu | 330-672-3934
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- Architectural criticism
- Architectural history
- Architecture
- Archiving
- Environmental conservation
- Geography
- Graphic design
- Historic preservation
- Industrial design
- Interior architecture
- Interior design
- Landscape architecture
- Museum curation
- Product design
- Urban design
- Urban planning

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	3
ARCH 45213	20TH CENTURY ARCHITECTURAL HISTORY	3
or ARCH 45214	Course ARCH 45214 Not Found	
or ARCH 45215	Course ARCH 45215 Not Found	
ARCS 10123	PRINCIPLES AND TECHNIQUES OF DESIGN [1]	3
ARCS 20123	FIELD AND OBJECT STUDIO [1]	3
ARCS 20124	SCALE AND PERCEPTION STUDIO	3
ARCS 20125	SYSTEMS AND NETWORKS STUDIO	3
ARCS 20501	EXPLORING DESIGN DISCIPLINES	1

ARCS 30123	MATERIALS AND PROCESSES OF MAKING [2]	3
ARCS 30124	METHODS AND THEORIES OF REPRESENTATION	3
ARCS 30321	STRUCTURAL TYPOLOGY [3]	3
ARCS 30421	ENVIRONMENTAL IMPERATIVES	3
ARCS 40022	URBAN DESIGN DISCOURSE (ELR)	3
ARCS 40114	THEORY AND CRITICISM IN ARCHITECTURAL MEDIA (WIC) [4]	3
Architecture (ARCH) or Architecture and Environmental Design (AED) or Interior Design (ID) or Landscape Architecture (LARC) Upper-Division Electives (30000 or 40000 level) [5]		12
Additional Requirements (courses do not count in major GPA)		
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
PHIL 11009	CRITICAL THINKING (KADL)	3
UC 10001	FLASHES 101	1
Foreign Language [6]		11-15
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Minor Requirement and Non-Architecture Electives (total credit hours depends on earning 121 credit hours, including 39 upper-division credit hours)		24
Minimum Total Credit Hours:		**121**

1 Students switching from the B.S. in Architecture to the B.A. in Architectural Studies may substitute ARCH 10101 for ARCS 10123 and ARCH 10102 for ARCS 20123. Students requesting either of these substitutions must submit a 1-2-page statement of purpose to the architectural studies program coordinator that explains a) what they understand about the ARCS program, and b) why it suits their interests and goals. Please contact the program coordinator for more information. Requests for these exceptions will be evaluated on a case-by-case basis according to a standardized rubric.

2 Students declaring a dual degree program with the B.S. in Construction Management may substitute CMGT 21071 for ARCS 30123.

3 Students declaring a dual degree program with the B.S. in Construction Management may substitute CMGT 33111 for ARCS 30321.

4 A minimum C grade must be earned to fulfill the writing-intensive requirement.

5 Students declaring a dual degree program with the B.S. in Construction Management may substitute CMGT 43099 for 3 credit hours of Architecture Upper-Division Electives. Students may not use ARCH 30031 to fulfill Architecture Upper-Division Electives.

6 Students declaring a dual degree program with the B.S. in Construction Management may substitute ACCT 23020, ECON 22060, ECON 22061 and MKTG 25010 for the foreign language requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- Students must declare and graduate with a minor to earn the B.A. degree in Architectural Studies. Students may select any minor available at Kent State University. The number of credit hours required to complete the minor depends on the minor selected.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
ARCS 10123	PRINCIPLES AND TECHNIQUES OF DESIGN	3
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
UC 10001	FLASHES 101	1
Foreign Language		4-5
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
ARCS 20123	FIELD AND OBJECT STUDIO	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
PHIL 11009	CRITICAL THINKING (KADL)	3
Foreign Language		4-5
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
ARCS 20124	SCALE AND PERCEPTION STUDIO	3
Foreign Language		3-5
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	3
ARCS 20125	SYSTEMS AND NETWORKS STUDIO	3
ARCS 20501	EXPLORING DESIGN DISCIPLINES	1
Non-Architecture Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Five		
ARCS 30123	MATERIALS AND PROCESSES OF MAKING	3
ARCS 30321	STRUCTURAL TYPOLOGY	3
Non-Architecture Electives		6
Kent Core Requirement		3
	Credit Hours	**15**
Semester Six		
ARCH 45213 or ARCH 45214 or ARCH 45215	20TH CENTURY ARCHITECTURAL HISTORY or Course ARCH 45214 Not Found or Course ARCH 45215 Not Found	3
ARCS 30124	METHODS AND THEORIES OF REPRESENTATION	3
ARCS 30421	ENVIRONMENTAL IMPERATIVES	3
Non-Architecture Electives		6
	Credit Hours	**15**

Semester Seven		
ARCS 40022	URBAN DESIGN DISCOURSE (ELR)	3
ARCS 40114	THEORY AND CRITICISM IN ARCHITECTURAL MEDIA (WIC)	3
Architecture (ARCH) or Interior Design (ID) Upper-Division Electives (30000 or 40000 level)		6
Non-Architecture Elective		3
	Credit Hours	**15**
Semester Eight		
Architecture (ARCH) or Interior Design (ID) Upper-Division Electives (30000 or 40000 level)		6
Non-Architecture Electives		6
Kent Core Requirement		3
	Credit Hours	**15**
	Minimum Total Credit Hours:	**121**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of the Bachelor of Arts in Architectural Studies will be able to:

1. Generate creative projects through making and the iterative design process;
2. Analyze architecture, design and theory through sound logic, effective rhetoric and constructive discourse;
3. Criticize the built environment, both historical and contemporary, as an artefact of human creativity, culture, technology and society; and
4. Integrate reading, writing and research as fundamental components of a robust design process.

Full Description

The Bachelor of Arts degree in Architectural Studies builds a broad foundation for professional master's degrees in architecture and other design disciplines. By focusing on historical and contemporary design thinking, the program links design to art, culture, society, environment and urbanism. The degree prepares students to be innovative, active, well-rounded, critical and informed designers and introduces students to architectural design culture while emphasizing the history and theory of architecture and art. The program includes design studios, lecture/studio hybrid courses and seminars that focus on architectural history, theory and criticism; urban issues; and sustainability.

Students are required to complete elective credits outside of the Architectural Studies major, which allows students to customize their undergraduate experience to suit their own career and educational goals, expand their understanding of design and explore the ways it is connected to other fields. Students may use these electives to pursue minors, double majors and dual degrees in other areas of interest, such as a streamlined dual degree with the B.S. degree in Construction Management.

Students may take advantage of the semester-long study abroad program in Florence, Italy, during any semester after successful completion of at least 6 credit hours of Architectural Studies (ARCS) coursework and 30 total credit hours at Kent State University. The Florence program is open to all Architectural Studies students who have made satisfactory progress toward completion of their undergraduate program.

Students may apply early to the M.L.A I degree in Landscape Architecture and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Students in the Architectural Studies major must declare a minor at Kent State.

Architectural Studies - Minor

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

The Architectural Studies minor introduces students from other fields to the history, theory and design process of architecture and the built environment. The minor is open to students in interior design, construction management and any other Kent State University major outside of the College of Architecture and Environmental Design.

Contact Information

- **Brett Tippey** | btippey@kent.edu | 330-672-3934
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Core Electives, choose from the following:		6
ARCH 10001	UNDERSTANDING ARCHITECTURE (KFA)	
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	
Minor Electives, choose from the following: [1]		12
ARCH 45213	20TH CENTURY ARCHITECTURAL HISTORY	
ARCH 46995	SPECIAL TOPICS IN ARCHITECTURE	
ARCS 30123	MATERIALS AND PROCESSES OF MAKING	
ARCS 30124	METHODS AND THEORIES OF REPRESENTATION	
ARCS 30321	STRUCTURAL TYPOLOGY	
ARCS 30421	ENVIRONMENTAL IMPERATIVES	
ARCS 40022	URBAN DESIGN DISCOURSE (ELR)	
ARCS 40114	THEORY AND CRITICISM IN ARCHITECTURAL MEDIA (WIC)	
Minimum Total Credit Hours:		**18**

[1] Some courses may have prerequisites that students must satisfy prior to enrollment.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 9 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Articulate historical and contemporary theories that have influenced the architectural design process.
2. Write critically about the architectural design process.
3. Utilize and interpret literature and data related to architecture and the architectural design process.

Architecture - B.S.

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

Design your future with Kent State's Architecture B.S. program. Our program provides you with a comprehensive education in the principles and practices of architecture and prepares you for a one-year path in Kent State's professionally accredited Master of Architecture program. With experienced faculty, advanced coursework, design studios, study abroad opportunities and hands-on experience, you will be prepared to design and build innovative structures that meet the needs of society. Enroll now and take the first step toward architecture licensure and a rewarding career in the profession. Read more...

Contact Information

- **Sung Ho Kim** | skim67@kent.edu | 330-672-2917
- caed_info@kent.edu
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Architects, except landscape and naval

- 0.8% little or no change
- 129,900 number of jobs
- $82,320 potential earnings

Architectural and engineering managers

- 2.6% slower than the average
- 198,100 number of jobs
- $149,530 potential earnings

Architecture teachers, postsecondary

- 5.1% faster than the average
- 8,500 number of jobs
- $90,880 potential earnings

Designers, all other

- -1.9% decline
- 13,600 number of jobs
- $63,750 potential earnings

Historians

- 2.6% slower than the average
- 3,500 number of jobs
- $63,100 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Freshman Students: Admission to the Architecture major is selective and based on a holistic review process. Prospective applicants must have a minimum 3.000 overall grade point average (on a 4.000 scale) to be considered for a holistic review and potential admission into the Architecture program.

Applicants with a non-professional bachelor's degree or a pre-professional degree from another institution will have their prior education evaluated to determine if they meet student performance criteria as stipulated by the National Architectural Accrediting Board (NAAB). If deficient criteria or courses are recognized, the student may be required to complete additional courses to earn the degree. Determinations will be made by the program director and graduate coordinator at the time the student is admitted to the program

Admission to Non-Degree General major: Students not admitted to the Architecture major may qualify for admission to the college's non-degree General major. Students in the General major are assigned to freshman orientation classes with students in all College of Architecture and Environmental Design majors. These classes aid in understanding the broad range of career options within the environmental design professions. Students should take regular coursework in preparation to attempt entry into one of the College of Architecture and Environmental Design majors or may consider alternative degree program options. Students should meet with their advisor to aid in making a decision regarding their degree program and major. In order to move forward with a minimum loss of credit hours, it is strongly recommended that students in the General, who were not accepted into a degree program, choose an alternate degree program within or outside the college prior to completing 45 credit hours.

Students in the General major may apply for admission to the architecture Spring/Summer studio programs. To be eligible for consideration, they must complete their first semester (or first-year) with a minimum 2.750 GPA (3.000 GPA or higher are the most competitive), complete first-year non-studio requirements and apply for the summer studio program. Students who are accepted will complete ARCH 10101 and ARCH 10102 during the Spring/Summer between their first and second years. A personal interview with the program director is recommended during the first week of the spring semester of their first year.

Transfer, Transitioning and Former Students: For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	3
ARCH 10101	FIRST YEAR DESIGN STUDIO I	3
ARCH 10102	FIRST-YEAR DESIGN STUDIO II	3
ARCH 20101	SECOND-YEAR DESIGN STUDIO I	3
ARCH 20102	SECOND-YEAR DESIGN STUDIO II	5
ARCH 20301	INTRODUCTION TO BUILDING STRUCTURES	3
ARCH 20601	COMPUTER APPLICATIONS IN ARCHITECTURE I	1
ARCH 20602	COMPUTER APPLICATIONS IN ARCHITECTURE II	1
ARCH 30031	ARCHITECTURAL DISCOURSES (WIC) [1]	3
ARCH 30101	THIRD-YEAR DESIGN STUDIO I	5
ARCH 30102	THIRD-YEAR DESIGN STUDIO II (ELR) [2]	5
ARCH 40101	FOURTH-YEAR DESIGN STUDIO I	5
ARCH 40102	INTEGRATED DESIGN STUDIO	5
ARCH 40301	STRUCTURAL SYSTEMS I	3
ARCH 40302	STRUCTURAL SYSTEMS II	3
ARCH 40401	METHODS AND MATERIALS I	3
ARCH 40402	METHODS AND MATERIALS II	3
ARCH 40501	ENVIRONMENTAL TECHNOLOGY I	3
ARCH 40502	ENVIRONMENTAL TECHNOLOGY II	3
Architecture (ARCH) Upper-Division Electives (30000 or 40000 level)		9
Architectural History Elective, choose from the following:		3
ARCH 45205	Course ARCH 45205 Not Found	
ARCH 45210	RENAISSANCE ARCHITECTURE	
ARCH 45211	BAROQUE ARCHITECTURE	
ARCH 45213	20TH CENTURY ARCHITECTURAL HISTORY	
ARCH 45220	ARCHITECTURE IN THE UNITED STATES	
ARCH 45230	FRANK LLOYD WRIGHT	
ARCH 45240	THE SKYSCRAPER	
ARCH 45241	ARCHITECTURE OF WORLD'S FAIRS	
ARCH 45295	SPECIAL TOPICS IN ARCHITECTURAL HISTORY	
Additional Requirements (courses do not count in major GPA)		

MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	3-5
or MATH 12012	CALCULUS WITH PRECALCULUS II (KMCR)	
MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13012	COLLEGE PHYSICS II (KBS) [3]	2
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines) [4]		6
Kent Core Additional		3
Non-Architecture Electives (total credit hours depends on earning 124 credit hours, including 39 upper-division credit hours)		14
Minimum Total Credit Hours:		**124**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.
[2] This course is equivalent to ARCH 30112.
[3] Students who successfully complete PHY 13002 will have met the requirement for PHY 13012.
[4] ECON 22060 is a recommended Kent Core Social Sciences course.

Progression Requirements

Requirements for advancement to third year-professional level:

Advancement review for the B.S. degree in Architecture occurs upon completion of second-year architecture course work. To advance, students must accomplish the following:

- Comply with all specific course prerequisites
- Earn a minimum 2.250 GPA in architecture courses
- Earn a minimum 2.500 overall GPA
- Complete the following courses: ARCH 10101, ARCH 10102, ARCH 10011, ARCH 10012, ARCH 20101, ARCH 20102, ARCH 20301, ARCH 20601, ARCH 20602, ARCH 30031, MATH 12002 (or MATH 12011 and MATH 12012), PHY 13001, PHY 13012, PHY 13021, UC 10001 and Kent Core Composition.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- Architecture majors may not use the following course to satisfy the architectural major requirements: ARCH 10001.
- No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may apply to required credit hours for graduation.
- No more than the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to required credit hours for graduation. Veterans who have completed a minimum one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:
  - Army and Marine Corps: 3 credit hours
  - Navy and Coast Guard: 2 credit hours
  - Air Force: 1 credit hour

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
	ARCH 10101	FIRST YEAR DESIGN STUDIO I	3
	ARCH 20601	COMPUTER APPLICATIONS IN ARCHITECTURE I	1
	MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
	ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	3
	ARCH 10102	FIRST-YEAR DESIGN STUDIO II	3
	ARCH 20602	COMPUTER APPLICATIONS IN ARCHITECTURE II	1
	MATH 12002 or MATH 12012	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) or CALCULUS WITH PRECALCULUS II (KMCR)	3-5
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
!	ARCH 20101	SECOND-YEAR DESIGN STUDIO I	3
	ARCH 30031	ARCHITECTURAL DISCOURSES (WIC)	3
!	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
!	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	Kent Core Requirement		3
	Non-Architecture Elective		1
		Credit Hours	**15**
	Semester Four		
	Requirement: Kent Core Composition courses (6 credit hours) must be completed.		
!	ARCH 20102	SECOND-YEAR DESIGN STUDIO II	5
!	ARCH 20301	INTRODUCTION TO BUILDING STRUCTURES	3
!	PHY 13012	COLLEGE PHYSICS II (KBS)	2
	Kent Core Requirement		3
	Non-Architecture Electives		4
		Credit Hours	**17**
	Semester Five		
	Requirements: minimum 2.250 GPA in ARCH courses, minimum overall 2.500 GPA. Note: no more than one deficiency in required major coursework listed in the first four semesters.		
!	ARCH 30101	THIRD-YEAR DESIGN STUDIO I	5
	ARCH 40301	STRUCTURAL SYSTEMS I	3
	ARCH 40401	METHODS AND MATERIALS I	3
	ARCH 40501	ENVIRONMENTAL TECHNOLOGY I	3
	Non-Architecture Elective		1
		Credit Hours	**15**
	Semester Six		
!	ARCH 30102	THIRD-YEAR DESIGN STUDIO II (ELR)	5
	Architecture (ARCH) Upper-Division Electives (30000 or 40000 level)		6

	Non-Architecture Electives		5
		Credit Hours	**16**
	Semester Seven		
!	ARCH 40101	FOURTH-YEAR DESIGN STUDIO I	5
!	ARCH 40402	METHODS AND MATERIALS II	3
!	ARCH 40502	ENVIRONMENTAL TECHNOLOGY II	3
	Architecture (ARCH) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Eight		
!	ARCH 40102	INTEGRATED DESIGN STUDIO	5
!	ARCH 40302	STRUCTURAL SYSTEMS II	3
	Architectural History Elective		3
	Non-Architecure Elective		3
		Credit Hours	**14**
		Minimum Total Credit Hours:	**124**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the fundamentals of visual perception and the principles of two and three-dimensional form and space making.
2. Demonstrate comprehensive design studio experiences through which graduates apply an understanding of the integration of building design, site design, assemblies, structure, environmental systems and building code requirements.
3. Demonstrate an understanding of building systems and their integration for human comfort, including lighting, heating ventilation and acoustics.

Full Description

The Bachelor of Science degree in Architecture enables students to learn, develop and apply knowledge that contributes to the betterment of the built environment. The balanced curriculum of technology, visualization, history, theory and design studio coursework offers a platform for research, constructive discourse and debate.

Northeast Ohio's rich history and dynamic urban landscape serve as a setting for academic learning. By placing equal emphasis on the art and science of architectural design, the curriculum inspires experimentation, collaboration, discovery, critical thinking and innovation in a studio context of project-based learning. The program fosters academic excellence and prepares students to become leaders in the architecture field.

The college offers full-semester programs abroad for qualified third-year students. The study abroad program is housed in the heart of historic Florence, Italy. The program is open to all students who have made satisfactory progress toward completion of their undergraduate program.

Architecture - M.Arch.

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

Ready to pursue an architecture career? The professionally accredited (NAAB), STEM-designated Master of Architecture degree expands your technical knowledge and fosters creative thinking and design skills focused on making built environments that meet societal needs. With a strong emphasis on design skills, hands-on learning and real-world experience, our program offers students the opportunity to work with industry professionals and gain practical skills that will set them apart for leadership in the profession. Enroll today and take the first step toward becoming a licensed architect. Read more...

Contact Information

- **Sung Ho Kim** | skim67@kent.edu | 330-672-2917
- CAEDgradprograms@kent.edu
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Architects, except landscape and naval

- 0.8% little or no change
- 129,900 number of jobs
- $82,320 potential earnings

Architectural and engineering managers

- 2.6% slower than the average
- 198,100 number of jobs
- $149,530 potential earnings

Architecture teachers, postsecondary

- 5.1% faster than the average
- 8,500 number of jobs
- $90,880 potential earnings

Designers, all other

- -1.9% decline
- 13,600 number of jobs
- $63,750 potential earnings

Historians

- 2.6% slower than the average
- 3,500 number of jobs
- $63,100 potential earnings

Accreditation

The M.Arch degree in Architecture is accredited by the National Architectural Accrediting Board (NAAB).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university[1]
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement (include intent and background information)
- Portfolio, with design work clearly indicating role in group projects
- Three letters of recommendation, with one letter from a non-academic source
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] Applicants with a non-professional bachelor's degree or a pre-professional degree in architecture from another institution will have their prior education evaluated to determine if they meet student performance criteria as stipulated by the National Architectural Accrediting Board (NAAB). If evaluated courses are determined to be deficient, the student may be required to complete additional courses to earn the degree. Determinations will be made by the program director and graduate coordinator at the time the student is admitted to the program.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Admission to the Prior-Standing Track concentration requires that applicants demonstrate strong completion of the following courses in the following areas:

- Minimum 16 credit hours of studio, including four semesters of foundation design and two semesters with an architecture focus
- Minimum 6 credit hours of history/theory, including a foundation architecture history course - broad/global content and one additional history/theory elective
- 12 credit hours of building technology, of which 9 credit hours must address the following:
  - Introduction/foundations in building structures
  - Introduction to environmental design and technology
  - Introduction to building methods and materials
- 6 credit hours of communication and modeling skills, including one course with learning outcomes related to digital representation (or equivalent skills demonstrated through studio work), one course with learning outcomes related to fabrication (or equivalent demonstrated through studio work) and/or one course with learning outcomes related to coding (or equivalent demonstrated through studio work).

Application Deadlines

- **Fall Semester**
  - Application deadline: January 15
- **Summer Term**
  - Application deadline: January 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ARCH 60101	GRADUATE DESIGN STUDIO I	6
ARCH 60102	GRADUATE DESIGN STUDIO II	5
ARCH 60150	PROJECT PROGRAMMING	3
ARCH 60301	THEORIES OF ARCHITECTURE	3
ARCH 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
ARCH 65001	PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT	2
ARCH 65002	PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW	2
ARCH 65003	PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT	3
ARCH 66995	SPECIAL TOPICS IN ARCHITECTURE	1
Architecture (ARCH) Graduate Electives (50000 or 60000 level) [1]		6
Concentrations		
Choose from the following:		11-68
Accelerated Track Concentration		
Full-Path Track Concentration		
Prior-Standing Track Concentration [2]		
Minimum Total Credit Hours:		**44-101**

[1] Elective credits may be taken from offerings in the College of Architecture and Environmental Design; other Kent State colleges, schools or departments; or the Levin College of Urban Affairs at Cleveland State University.

[2] Students in the Prior-Standing Track concentration who are deemed eligible to have course requirements waived may graduate with fewer than 90 credit hours, but no fewer than 67 total credit hours.

Accelerated Track Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
ARCH 60199	GRADUATE DESIGN STUDIO III	8
Architecture (ARCH) Graduate Elective (50000 or 60000 level)		3
Minimum Total Credit Hours:		**11**

Full-Path Track Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
ARCH 50301	STRUCTURAL SYSTEMS I	3
ARCH 50302	STRUCTURAL SYSTEMS II	3
ARCH 50401	METHODS AND MATERIALS I	3
ARCH 50402	METHODS AND MATERIALS II	3
ARCH 50501	ENVIRONMENTAL TECHNOLOGY I	3
ARCH 50502	ENVIRONMENTAL TECHNOLOGY II	3
ARCH 56995	SPECIAL TOPICS IN ARCHITECTURE	3
ARCH 60111	GRADUATE DESIGN FOUNDATIONS STUDIO	5
ARCH 60112	GRADUATE DESIGN ARCHITECTURE STUDIO	5
ARCH 60113	GRADUATE DESIGN CONTEXT STUDIO	5
ARCH 60114	GRADUATE DESIGN SYSTEMS STUDIO	5
ARCH 60211	GRADUATE GLOBAL HISTORY OF ARCHITECTURE I	3
ARCH 60212	GRADUATE GLOBAL HISTORY OF ARCHITECTURE II	3
ARCH 60601	TOOLS OF REPRESENTATION	3
ARCH 60602	TOOLS OF FABRICATION	3
ARCH 60603	TOOLS OF SIMULATION	3
ARCH 60604	TOOLS OF CODING	3
Architecture (ARCH) Graduate Electives (50000 or 60000 level)		6
Advisor-Approved Architectural History Elective		3
Minimum Total Credit Hours:		**68**

Prior-Standing Track Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
ARCH 50301	STRUCTURAL SYSTEMS I	3
ARCH 50302	STRUCTURAL SYSTEMS II	3
ARCH 50402	METHODS AND MATERIALS II	3
ARCH 50502	ENVIRONMENTAL TECHNOLOGY II	3
ARCH 56995	SPECIAL TOPICS IN ARCHITECTURE	3
ARCH 60113	GRADUATE DESIGN CONTEXT STUDIO	5
ARCH 60114	GRADUATE DESIGN SYSTEMS STUDIO	5
ARCH 60212	GRADUATE GLOBAL HISTORY OF ARCHITECTURE II	3
ARCH 60603	TOOLS OF SIMULATION	3
ARCH 60604	TOOLS OF CODING	3
Prior-Standing Foundation Requirements [1]		
ARCH 50401	METHODS AND MATERIALS I	3
ARCH 50501	ENVIRONMENTAL TECHNOLOGY I	3
ARCH 56991	SEMINAR: VARIABLE TOPIC	1-3
ARCH 56995	SPECIAL TOPICS IN ARCHITECTURE	1-3
ARCH 60111	GRADUATE DESIGN FOUNDATIONS STUDIO	3-6
ARCH 60112	GRADUATE DESIGN ARCHITECTURE STUDIO	3-6
ARCH 60211	GRADUATE GLOBAL HISTORY OF ARCHITECTURE I	3
ARCH 60601	TOOLS OF REPRESENTATION	3
ARCH 60602	TOOLS OF FABRICATION	3
Minimum Total Credit Hours:		**57**

[1] Some or all of these courses may be waived upon review of the student's prior qualifications. See admission requirements for specific criteria.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the ability to design across the various scales of architecture and integrate multiple factors in design process.
2. Demonstrate a holistic ability to address the relationship between built and natural environments, employing ecological design principles, advanced building performance and the use of emerging technologies in the design process and production of architecture.
3. Demonstrate the ability to design equitable environments for diverse populations, addressing diverse cultural, social, theoretical and historical contexts.
4. Demonstrate the ability to engage with multidisciplinary teams collaboratively and to address professional ethics, business practices and regulatory contexts.
5. Engage in architectural research to test, evaluate and apply innovations in the field, promoting continuous learning and advancement in architectural knowledge.
6. Participate in an academic environment that fosters positive, respectful learning and that promotes collaboration, optimism and innovation among students, faculty and staff.

Dual Degree with M.B.A. in Business Administration

Students have the opportunity to complete a dual degree program with the Master of Architecture degree and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual degree combining the M.Arch. and the M.B.A. is designed for architects or undergraduate architectural students who aspire to middle or executive management positions in architectural practices, or who are interested in starting their own business along with the preparation to enter the profession of architecture by stimulating the growth of technical knowledge and design creativity. It fosters the refinement of design skills acquired in undergraduate programs, also by offering a broad exposure to professional issues and knowledge.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
ARCH 60101	GRADUATE DESIGN STUDIO I	6
ARCH 60102	GRADUATE DESIGN STUDIO II	5
ARCH 60150	PROJECT PROGRAMMING	3
ARCH 60199	GRADUATE DESIGN STUDIO III	8
ARCH 60301	THEORIES OF ARCHITECTURE	3
ARCH 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
ARCH 65001	PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT	2
ARCH 65002	PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW	2
ARCH 65003	PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT	3
ARCH 66995	SPECIAL TOPICS IN ARCHITECTURE [1]	1
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
Ambassador Crawford College of Business and Entrepreneurship Graduate Electives (50000 level or higher)		3
Accounting (ACCT) Course		
Business (BUS) Course		
Business Analytics (BA) Course		
Computer Information Systems (CIS) Course		
Economics (ECON) Course		
Entrepreneurship (ENTR) Course		
Finance (FIN) Course		
Human Resource Management (HRM) Course		
Management (MGMT) Course		
Marketing (MKTG) Course		
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**64**

[1] Topics in professional practice.

- Actual offerings and schedules vary from year to year and the college will jointly provide a pre-approved recommended course of study. Students who wish to take a different course of study need to obtain separate approvals from both college graduate coordinators. Contact the College of Architecture and Environmental Design graduate secretary for details on coursework registration.

Graduation Requirements

Minimum of 64 credit hours: 35 credit hours from the M.Arch. degree and 29 credit hours from the M.B.A. degree.

Dual Degree with M.U.D. in Urban Design

Students have the opportunity to complete a dual degree program with the M.U.D. degree in Urban Design and the M.Arch. degree in Architecture. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page. Students in the M.Arch. degree must be declared in the Accelerated Track concentration to be admitted to the dual degree.

This dual degree program prepares students to enter the profession of architecture by stimulating the growth of technical knowledge and design creativity. It fosters the refinement of design skills acquired in undergraduate programs and offers a broad exposure to professional issues and knowledge related to urban design.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ARCH 60101	GRADUATE DESIGN STUDIO I	6

ARCH 60102	GRADUATE DESIGN STUDIO II	5
ARCH 60150	PROJECT PROGRAMMING	3
ARCH 60301	THEORIES OF ARCHITECTURE	3
ARCH 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
ARCH 65001	PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT	2
ARCH 65002	PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW	2
ARCH 65003	PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT	2-3
ARCH 66995	SPECIAL TOPICS IN ARCHITECTURE [1]	1
UD 55705	FORCES THAT SHAPE CITIES	3
UD 60701	URBAN DESIGN STUDIO I	6
UD 60703	URBAN DESIGN STUDIO III	5
UD 65101	COMMUNITY DEVELOPMENT PROCESS	1
UD 65102	URBAN SYSTEMS	3
UD 65632	URBAN ECOLOGICAL SYSTEMS	3
UD 66896	URBAN DESIGN PRACTICUM PROJECT	2
UD 66995	SPECIAL TOPICS IN URBAN DESIGN [2]	1
UD 66995	SPECIAL TOPICS IN URBAN DESIGN	1
Architecture (ARCH) Electives (50000 or 60000 level)		6
Approved Electives, choose from the following: [3]		8
ARCH 60301	THEORIES OF ARCHITECTURE	
GEOG 51066	GLOBAL CLIMATE CHANGE	
GEOG 52052	HEALTH GEOGRAPHY	
GEOG 54010	GEOGRAPHIES OF GLOBAL DEVELOPMENT	
GEOG 55085	URBAN TRANSPORTATION	
GEOG 56070	URBAN AND REGIONAL PLANNING	
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59076	SPATIAL PROGRAMMING	
GEOG 59080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59162	CARTOGRAPHY	
GEOG 59230	REMOTE SENSING	
GEOG 60191	SEMINAR IN TOPICAL GEOGRAPHY	
GEOG 60800	SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT	
LARC 50095	SPECIAL TOPICS IN LANDSCAPE ARCHITECTURE	
LARC 50100	DESIGN VISUALIZATION	
LARC 60111	LANDSCAPE HISTORY AND THEORY	
UD 66995	SPECIAL TOPICS IN URBAN DESIGN	
Other course as approved		
Minimum Total Credit Hours:		**65**

1 Special topics course in professional practice.
2 Special topics related to studio.
3 With approval, students may apply other courses in the College of Architecture and Environmental Design; or from another Kent State college, school or department; or from at the Levin College of Urban Affairs at Cleveland State University.

Full Description

The Master of Architecture degree seeks to prepare graduates to lead in the field of architecture by stimulating the growth of technical knowledge and design creativity. This STEM-designated program fosters the refinement of design skills acquired in undergraduate programs. Master coursework affords opportunities for inquiry in architecture through the introduction of traditional scholarly research methods as well as approaches to research through design in a studio setting. Professional practice courses are paired with theory seminars and elective classes in areas of digital technology, building sciences and history to provide a comprehensive exposure to professional opportunities and a broad capacity for considering and postulating architecture in innovative ways.

The Architecture major comprises the following concentrations:

- The **Accelerated Track** concentration is intended for students who have completed the B.S. degree in Architecture at Kent State. Non-Kent State applicants should apply to the Full Path Track or the Prior Standing Track concentration.
- The **Full-Path Track** concentration is intended for students who are new to the study of design, hold a non-design related degree or whose prior design experience needs augmenting. Normally, full-time students in this concentration complete the degree in three years.
- The **Prior-Standing Track** concentration is intended for students holding a prior design degree. Required total credit hours depend on specific student backgrounds and are evaluated on a case-by-case basis. Normally, full-time students in this concentration complete the degree in two or two-and-a-half years depending on the individual plan of study and required coursework.

Students completing the Accelerated Track concentration may also pursue a dual degree program with the Master of Business Administration degree or Master of Urban Design degree.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Architecture and Environmental Design - M.S.

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

Seeking career expertise in the built environment? Our research degree (STEM accredited) can help you forge a powerful career in architecture and the environmental design fields by combining design and science. Working closely with national leading faculty, students immerse themselves in cutting-edge topics such as A.I., robotics, bioclimatics, living architecture, kinetics or other subjects. Join us in making new knowledge, discoveries and innovations. Read more...

Contact Information

- **Sharon Wohl | swohl2@kent.edu**
- **CAEDgradprograms@kent.edu**

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Architectural and engineering managers

- 2.6% slower than the average
- 198,100 number of jobs
- $149,530 potential earnings

Architecture teachers, postsecondary

- 5.1% faster than the average
- 8,500 number of jobs
- $90,880 potential earnings

Calibration technologists and technicians and engineering technologists and technicians, except drafters, all other

- 2.1% slower than the average
- 91,600 number of jobs
- $64,190 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree in a professional or pre-professional environmental design program[1]
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement (two pages) that includes an outline of a proposed study program
- Portfolio for design and research work
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] Conditional admission may be offered to applicants with undergraduate and graduate degrees in related disciplines.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: February 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
AED 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
AED 60923	EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN	1
AED 60930	APPLIED RESEARCH METHODS IN ARCHITECTURE AND ENVIRONMENTAL DESIGN	3
AED 66098	TOPICAL IMMERSION	3
AED 66198	ADVANCED PROPOSAL WRITING	2
ARCH 60301	THEORIES OF ARCHITECTURE	3
Advisor-Approved Electives (50000 or 60000 level) [1]		15
Culminating Requirement		
AED 66199	THESIS I	6
Minimum Total Credit Hours:		**35**

[1] Students either having earned or pursuing concurrently another master's degree with related program content may have maximum 5 credit hours of electives waived provided the related credit content is determined to be relevant to the thesis topic and is approved by the student's thesis advisor and program committee. **Upon approval, these students may graduate with fewer than 35 credit hours but no fewer than 30 credit hours.**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Investigate new relationships within the built environment.
2. Gather, collect and analyze data.

3. Co-author technical and scientific reports, summaries, papers, abstracts, briefs and/or the development of products and technologies that may lead to patents and intellectual property.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
AED 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
AED 60923	EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN	1
AED 66098	TOPICAL IMMERSION	3
ARCH 60301	THEORIES OF ARCHITECTURE	3
	Credit Hours	**9**
Semester Two		
AED 60930	APPLIED RESEARCH METHODS IN ARCHITECTURE AND ENVIRONMENTAL DESIGN	3
AED 66198	ADVANCED PROPOSAL WRITING	2
Elective (50000 or 60000 level)		3
	Credit Hours	**8**
Semester Three		
AED 66199	THESIS I	3
Electives (50000 or 60000 level)		6
	Credit Hours	**9**
Semester Four		
AED 66199	THESIS I	3
Electives (50000 or 60000 level)		6
	Credit Hours	**9**
	Minimum Total Credit Hours:	**35**

Full Description

The Master of Science degree in Architecture and Environmental Design is a research-intensive program with one-year full residency requirement. The program is best suited for individuals interested in pursuing a specialization in the built environment. The program covers cross-cutting themes in sustainable buildings, smart systems and healthy settings.

Students in the M.S. degree have the opportunity to pursue research in the following areas:

- Living architecture: Investigates vegetative integration upon and within buildings and structures in order to make cities more ecologically productive. Students master the conceptualization, assessment and examination of vegetative roofs, walls and related phytostructures for ecological service delivery through modeling and in-lab or field testing settings.
- Bioclimatic architecture: Explores thermal comfort, energy conservation and building systems integration for sustainable design and human experience. Research in this area emphasizes computational simulation, physical modeling of natural phenomena, field/lab experiments and building information management.
- Structural resilience: Investigates metaheuristic design principles for naturally efficient, durable, aesthetic and adaptable structural systems; performances of sustainable construction materials; and resilience of synergistically responding infrastructures.
- Creative robotics: Revisits and explores the potential of cutting-edge technologies such as robotics, physical and digital computation; interaction and game design; X-R (augmented, virtual and mixed realities); app development; and UI-UX design as possible design mediums. Students work at the intersection of architecture, industrial design, robotics, computer since and media arts, developing applied design-research skills in response to contemporary design issues and through the lens of technology.
- Kinetic systems: Investigates temporary (interactive) structures, specifically their typological, programmatic and material effects. Research includes the study of dynamic structural patterns and the role they play in the configuration of variable and/or flexible surfaces and enclosures.

The program may be taken as a dual degree with the Master of Architecture degree.

Construction Management - B.S.

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

Build your future with the Construction Management bachelor's degree program. Our program prepares graduates for leadership in the increasingly complex, sophisticated and rewarding field of construction management through access to advanced technologies, leading experts, hands-on training and industry insights that prepare you to lead in a variety of construction management roles. Read more...

Contact Information

- **Suat Gunhan, Ph.D.** | sgunhan@kent.edu | 330-672-2917
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Construction managers

- 8.5% much faster than the average
- 476,700 number of jobs
- $97,180 potential earnings

Accreditation

The B.S. degree in Construction Management is accredited by the American Council for Construction Education (ACCE).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ARCH 10001	UNDERSTANDING ARCHITECTURE (KFA)	3
CMGT 10001	INTRODUCTION TO CONSTRUCTION MANAGEMENT	3
CMGT 11044	CONSTRUCTION SAFETY	3
CMGT 11071	CONSTRUCTION MATERIALS AND METHODS I	3
CMGT 21071	CONSTRUCTION MATERIALS AND METHODS II	3
CMGT 22200	CONSTRUCTION DOCUMENT READING [1]	3
CMGT 27210	SUSTAINABILITY IN THE BUILT ENVIRONMENT	3
CMGT 31023	CONSTRUCTION SURVEYING	3
CMGT 31033	MECHANICAL SYSTEMS	3
CMGT 31040	ELECTRICAL SYSTEMS FOR CONSTRUCTION MANAGERS	3
CMGT 33092	CONSTRUCTION MANAGEMENT INTERNSHIP (ELR) (WIC) [2]	3
CMGT 33111	INTRODUCTION TO BUILDING STRUCTURES	3
CMGT 41040	CONSTRUCTION ESTIMATING I	3
CMGT 41041	CONSTRUCTION ESTIMATING II	3
CMGT 42030	BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGEMENT	3
CMGT 42105	CONSTRUCTION CONTRACTS AND LAW	3
CMGT 42107	CONSTRUCTION SCHEDULING	3
CMGT 43099	CONSTRUCTION MANAGEMENT CAPSTONE (ELR)	3
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (total credit hours in this category must be 8 for this major)		3
General Elective (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		3
Additional Requirements or Concentrations		
Choose from the following:		12
Additional Requirements for Students Not Declaring a Concentration		
Civil Management Concentration		
Mechanical and Electrical Management Concentration		
Safety Management Concentration		
Minimum Total Credit Hours:		**120**

[1] Students declaring a dual degree program with the B.A. in Architectural Studies major may substitute AED 10102 for CMGT 22200.

[2] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Additional Requirements (courses do not count in major GPA)		
Construction Management (CMGT) Upper-Division Electives (30000 or 40000 level) [1]		9
College of Architecture and Environmental Design Elective, choose from the following: [2]		3
Any Architectural Studies (ARCS) course		
Any Architecture (ARCH) course		
Any Architecture and Environmental Design (AED) course		
Any Construction Management (CMGT) course [1]		
Any Interior Design (ID) course		
Minimum Total Credit Hours:		**12**

[1] Maximum 6 credit hours of CMGT 33092 may be applied toward the major.

[2] Special approval is required to take elective courses in the following subjects: Architectural Studies (ARCS), Architecture (ARCH), Architecture and Environmental Design (AED) and Interior Design (ID).

Civil Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CMGT 42053	SUBCONTRACTOR LEADERSHIP AND PRACTICES	3
CMGT 42054	CIVIL ESTIMATING	3
CMGT 42055	CIVIL UTILITY SYSTEMS	3
CMGT 42056	SOILS AND MATERIALS	3
Minimum Total Credit Hours:		**12**

Mechanical and Electrical Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CMGT 42030	BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGEMENT	3
CMGT 42051	ALTERNATIVE ENERGY SYSTEMS IN BUILDING DESIGN	3
CMGT 42052	MECHANICAL AND ELECTRICAL ESTIMATING	3
CMGT 42053	SUBCONTRACTOR LEADERSHIP AND PRACTICES	3
Minimum Total Credit Hours:		**12**

Safety Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Concentration Electives, choose from the following:		12
CMGT 31044	ADVANCED CONSTRUCTION SAFETY AND MANAGEMENT	
CMGT 31045	CONSTRUCTION RISK MANAGEMENT	
CMGT 31046	INTRODUCTION TO INSURANCE AND WORKER'S COMPENSATION	
CMGT 41047	FUNDAMENTALS OF INDUSTRIAL AND CONSTRUCTION HYGIENE	
CMGT 41048	OCCUPATIONAL SAFETY AND HEALTH LAW	
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ARCH 10001	UNDERSTANDING ARCHITECTURE (KFA)	3
CMGT 10001	INTRODUCTION TO CONSTRUCTION MANAGEMENT	3
MATH 11022	TRIGONOMETRY (KMCR)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
CMGT 11044	CONSTRUCTION SAFETY	3
CMGT 11071	CONSTRUCTION MATERIALS AND METHODS I	3
CMGT 22200	CONSTRUCTION DOCUMENT READING	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
CMGT 27210	SUSTAINABILITY IN THE BUILT ENVIRONMENT	3
CMGT 42030	BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGEMENT	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
CMGT 21071	CONSTRUCTION MATERIALS AND METHODS II	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Kent Core Requirement		3
	Credit Hours	**14**
Semester Five		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
CMGT 31023	CONSTRUCTION SURVEYING	3
CMGT 31033	MECHANICAL SYSTEMS	3
CMGT 41040	CONSTRUCTION ESTIMATING I	3
General Elective		3
	Credit Hours	**15**

Semester Six		
CMGT 31040	ELECTRICAL SYSTEMS FOR CONSTRUCTION MANAGERS	3
CMGT 33111	INTRODUCTION TO BUILDING STRUCTURES	3
CMGT 41041	CONSTRUCTION ESTIMATING II	3
CMGT 42105	CONSTRUCTION CONTRACTS AND LAW	3
MKTG 25010	PRINCIPLES OF MARKETING	3
	Credit Hours	**15**
Semester Seven		
CMGT 33092	CONSTRUCTION MANAGEMENT INTERNSHIP (ELR) (WIC)	3
CMGT 42107	CONSTRUCTION SCHEDULING	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
	Credit Hours	**15**
Semester Eight		
CMGT 43099	CONSTRUCTION MANAGEMENT CAPSTONE (ELR)	3
Additional or Concentration Requirements		12
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand construction materials, methods and processes.
2. Competently read and understand construction drawings and specifications.
3. Control and manage the scope of work for a construction jobsite.
4. Maintain a safe work environment.
5. Quantify takeoffs and cost estimates.
6. Understand the scheduling process and use computer software to create construction schedules.
7. Uphold ethical and professional standards.
8. Use critical thinking and problem solving skills to analyze and perform functions within construction projects.
9. Communicate effectively to operate effectively in a construction management environment.
10. Understand construction laws, codes and regulations.

Full Description

The Bachelor of Science degree in Construction Management employs a professional-service approach that applies effective management techniques and oversight to the building and management of construction projects. Students learn the business of construction from inception to completion of a project—including emphasis on construction materials and methods—that will enable them to estimate costs, schedule work, oversee construction worksite activities and manage projects.

The Construction Management major includes the following optional concentrations:

- The **Civil Management** concentration offers students an opportunity to further explore civil construction estimating functions, utility systems, soils and subcontractor leadership. Focusing on the critical systems that are needed on all projects, this concentration provides construction managers with the tools to navigate civil construction on any project.
- The **Mechanical and Electrical Management** concentration offers students expertise in mechanical systems. By exposing students to sustainable building technologies, specific mechanical and electrical estimating, BIM and leadership, this concentration sets students apart in knowledge base and experience. Construction managers are more effective with an in-depth understanding of critical MEP systems.
- The **Safety Management** concentration is for those wishing to pursue a career in safety and/or construction managers looking to expand their knowledge in safety related to construction. Students take advanced OSHA and safety courses while exposing themselves to insurance and workers' compensation laws and procedures. Safety is the #1 priority of project management teams, and this concentration looks to provide future leaders with the tools to lead a safe job site.

Cooperative education opportunities are available to students in construction companies and architect/engineering firms in the region. In

addition, students have an opportunity to pursue a dual degree with the B.A. degree in Architectural Studies.

Construction Management - M.S.

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

The Master of Science degree in Construction Management offers students a deep understanding of leading dynamic construction projects and organizations in the built environment. The program also offers a thesis or project option for those interested in a research and/or a future higher education role. Graduates of the program are prepared to lead at both the project and corporate level.

Contact Information

- **Suat Gunhan, Ph.D.** | sgunhan@kent.edu | 330-672-2917
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Construction managers

- 8.5% much faster than the average
- 476,700 number of jobs
- $97,180 potential earnings

Architectural and engineering managers

- 2.6% slower than the average
- 198,100 number of jobs
- $149,530 potential earnings

Cost estimators

- -1.5% decline
- 214,200 number of jobs
- $66,610 potential earnings

Engineering teachers, postsecondary

- 8.6% much faster than the average
- 44,600 number of jobs
- $103,600 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Curriculum vitae or résumé
- Goal Statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: February 1
- **Spring Semester**
  - Application deadline: June 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements [1]		
AED 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
AED 60923	EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN	1
AED 60930	APPLIED RESEARCH METHODS IN ARCHITECTURE AND ENVIRONMENTAL DESIGN	3
CMGT 51040	CONSTRUCTION ESTIMATING I [1]	3
CMGT 51041	ADVANCED ESTIMATING	3
CMGT 52105	CONSTRUCTION CONTRACTS AND LAW	3
CMGT 52107	CONSTRUCTION SCHEDULING [1]	3
CMGT 52110	ADVANCED CONSTRUCTION MANAGEMENT	3
CMGT 62080	ADVANCED CONSTRUCTION RISK MANAGEMENT	3
CMGT 62108	ADVANCED CONSTRUCTION SCHEDULING	3
Major Electives, choose from the following: [2]		6

CMGT 62030	BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGEMENT	
CMGT 62040	CONSTRUCTION METHODS IMPROVEMENTS	
CMGT 62050	INTERNATIONAL CONSTRUCTION MANAGEMENT	
CMGT 62060	NEGOTIATION IN THE BUILT ENVIRONMENT	
CMGT 62070	ENGINEERING ECONOMICS AND STRATEGIC DECISION MAKING	
CMGT 67295	SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT	
CMGT 67320	APPLIED SUSTAINABILITY IN CONSTRUCTION MANAGEMENT	
Culminating Requirement		
Choose from the following:		8
Thesis Option		
AED 66198	ADVANCED PROPOSAL WRITING	
AED 66199	THESIS I	
Project Option		
CMGT 65099	MASTER PROJECT IN CONSTRUCTION MANAGEMENT [3]	
Graduate Electives [4]		
Minimum Total Credit Hours:		**41**

1 Students with foundations in construction management may have CMGT 51040 and CMGT 52107 waived with approval from the program director. They may graduate with 35 credit hours.

2 For students with strong qualifications in a related master's degree, one or more of the required electives may be waived (maximum of 5 credit hours) by the program director and admission committee. Students may graduate with minimum 36 credit hours. Students who have 5 credit hours of electives waived as well as CMGT 51040 and CMGT 52107 waived may graduate with 30 credit hours.

3 Students who select the master's project are expected to demonstrate a summative understanding of their overall coursework. Students will be immersed in team settings and required to create a total company structure; estimate, schedule and complete risk assessment and sustainability goals for a proposed project; and develop a marketing plan and other expectations.

4 Students who select the master's project will complete additional graduate-level courses to meet the minimum required credit hours for the degree. The courses will be part of the student's approved plan of study and should contribute to the master's project and student's future goals. Students will be advised to take coursework in either construction management or a related field (e.g., architecture, business, healthcare design).

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Exhibit the planning, organization, execution and contract skills of a construction manager.
2. Apply ethical and sustainability perspectives to construction management knowledge.
3. Demonstrate the financial, managerial and risk management of a leader in the construction industry.
4. Analyze how issues of cost, safety, quality, schedule and design impact project development and implementation.
5. Evaluate the procurement and logistics processes of underlying construction systems and devise strategies to mitigate these complexities.
6. Compare construction management technologies, innovations and processes, and how they relate to cross-disciplinary teams.

Construction Management - Minor

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

The Construction Management minor gives students an introduction to the body of knowledge expected for entry-level professional construction management positions. The minor is particularly appropriate for students whose major or interest is architecture, business or interior design.

Contact Information

- **Suat Gunhan, Ph.D.** | sgunhan@kent.edu | 330-672-2917
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
CMGT 41040	CONSTRUCTION ESTIMATING I	3
CMGT 41041	CONSTRUCTION ESTIMATING II	3
CMGT 42107	CONSTRUCTION SCHEDULING	3
CMGT 43099	CONSTRUCTION MANAGEMENT CAPSTONE (ELR)	3
Minor Electives, choose from the following:		6
CMGT 10001	INTRODUCTION TO CONSTRUCTION MANAGEMENT	

CMGT 22200	CONSTRUCTION DOCUMENT READING
CMGT 31015	CONSTRUCTION TECHNOLOGY
CMGT 32001	PROPOSAL DEVELOPMENT AND ANALYSIS
CMGT 42105	CONSTRUCTION CONTRACTS AND LAW
Minimum Total Credit Hours:	**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Health Systems and Facilities Design - Graduate Certificate

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

Tailored for working professionals from diverse backgrounds and offered entirely online, the Health Systems and Facilities Designs graduate certificate equips you with the essential knowledge to understand how design strategies impact healthcare operations and quality. With the growing demand for healthcare services and the need for human-centered environments, your expertise will directly contribute to the development of facilities that enhance efficiency and improve patient care. Read more...

Contact Information

- **Sara Bayramzadeh** | sbayramz@kent.edu | 330-672-0936
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Architects, except landscape and naval

- 0.8% little or no change
- 129,900 number of jobs
- $82,320 potential earnings

Architectural and engineering managers

- 2.6% slower than the average
- 198,100 number of jobs
- $149,530 potential earnings

Architecture teachers, postsecondary

- 5.1% faster than the average
- 8,500 number of jobs
- $90,880 potential earnings

Interior designers

- -4.9% decline
- 77,900 number of jobs
- $57,060 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree (from any field)
- Official transcript(s)
- A résumé or CV
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: June 1
- **Spring Semester**
  - Priority deadline: November 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
HCD 63001	EVIDENCE-BASED DESIGN IN HEALTHCARE	2

HCD 63002	HEALTHCARE FACILITIES	2
HCD 63003	ENVIRONMENTAL SYSTEMS AND MATERIALS IN HEALTHCARE	2
HCD 63004	ENVIRONMENTS OF CARE AND PATIENT POPULATIONS	2
HCD 63005	PATIENT SAFETY AND SYSTEMS THINKING	2
Certificate Elective, choose from the following:		2-3
ARCH 55640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
EHS 62018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	
HPM 62016	PUBLIC HEALTH ADMINISTRATION	
HPM 63003	HEALTH CARE SYSTEMS	
HPM 63004	PUBLIC HEALTH POLICY, LAW AND ETHICS	
NURS 60014	LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT	
NURS 60020	LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS	
NURS 60024	HEALTH CARE ORGANIZATION, STRUCTURE AND BEHAVIOR	
SBS 64634	SOCIAL DETERMINANTS OF HEALTH BEHAVIORS	
Directed Electives [1]		
Minimum Total Credit Hours:		**12**

[1] Students may work with the coordinator of the program for additional elective choices.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Full Description

The Health Systems and Facilities Designs graduate certificate is catered to professionals from various fields and backgrounds. The purpose of the certificate is to develop an understanding of how healthcare operations and quality are implicated by design strategies. Given that the healthcare industry is prominent as an economic driver in the United States, as well as the increasing demand in health services, providing a human-centered environments is essential. This invaluable area of expertise helps students participate in facility development that will maximize efficiency and quality of patient care, all in an effort to raise the standard of healthcare facilities. This flexible online program for working professionals typically takes two semesters to finish.

Healthcare Design - M.H.D.

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

Ready to merge your passion for healthcare with the science of design? Explore our STEM-designated and innovative Master of Healthcare Design degree, which emphasizes evidence-based design and interdisciplinary collaboration. Gain skills for crafting patient-centered spaces that redefine healing. With immersive studios and research opportunities, this degree propels you towards a rewarding healthcare design career. Start your transformative journey today. Join us! Read more...

Contact Information

- **Sara Bayramzadeh** | sbayramz@kent.edu | 330-672-0936
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Architects, except landscape and naval

- 0.8% little or no change
- 129,900 number of jobs
- $82,320 potential earnings

Architectural and engineering managers

- 2.6% slower than the average
- 198,100 number of jobs
- $149,530 potential earnings

Architecture teachers, postsecondary

- 5.1% faster than the average
- 8,500 number of jobs
- $90,880 potential earnings

Interior designers

- -4.9% decline
- 77,900 number of jobs
- $57,060 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree in architecture or interior design degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement

- Portfolio of design work that clearly delineates the role played by the applicant in team projects
- Three letters of recommendations, with one letter from a non-academic source
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: January 15
- **Spring Semester**
  - Application deadline: June 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
HCD 60000	HEALTHCARE DESIGN STUDIO	6
HCD 60092	PRACTICAL EXPERIENCE	1
HCD 60100	HEALTHCARE SYSTEMS WORKSHOP	3
HCD 60101	HEALTHCARE DESIGN WORKSHOP. CULTURE AND ETHICS	3
HCD 63001	EVIDENCE-BASED DESIGN IN HEALTHCARE	2
HCD 63002	HEALTHCARE FACILITIES	2
HCD 63003	ENVIRONMENTAL SYSTEMS AND MATERIALS IN HEALTHCARE	2
HCD 63004	ENVIRONMENTS OF CARE AND PATIENT POPULATIONS	2
HCD 63005	PATIENT SAFETY AND SYSTEMS THINKING	2
Major Elective, choose from the following: [1]		3
ARCH 55640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
EHS 50109	LABORATORY SAFETY AND HYGIENE	
EHS 53012	OCCUPATIONAL SAFETY AND HEALTH	
EHS 53014	BUILT ENVIRONMENT AND PUBLIC HEALTH	
EHS 62018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	
HPM 62016	PUBLIC HEALTH ADMINISTRATION	
HPM 63003	HEALTH CARE SYSTEMS	
HPM 63004	PUBLIC HEALTH POLICY, LAW AND ETHICS	
NURS 60014	LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT	
NURS 60020	LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS	
NURS 60024	HEALTH CARE ORGANIZATION, STRUCTURE AND BEHAVIOR	
SBS 64634	SOCIAL DETERMINANTS OF HEALTH BEHAVIORS	
Directed Electives [2]		
Culminating Requirement		
HCD 61099	MASTER'S PROJECT RESEARCH	3
HCD 62099	MASTER'S PROJECT STUDIO	6
Minimum Total Credit Hours:		**35**

[1] The normal path of study for this degree is 35 credit hours. For students with strong qualifications in a related degree and/or experience, the required elective may be waived by the program director and admissions committee.

[2] Students may work with the coordinator of the program for additional elective choices.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Note

Normal time to graduation is two years. However, students who start in the spring semester may complete the degree in three semesters. Students may also take an accelerated path to complete the degree in one year.

Program Learning Outcomes

Graduates of this program will be able to:

1. Recognize and employ expert knowledge, guidelines and regulations in healthcare design and delivery.
2. Design effectively in support of safety, quality and efficiency in healthcare.
3. Design empathetically to improve human-centered design experience for healthcare providers, patients and support communities.
4. Employ and translate research into innovative designs.

Full Description

The Elliot Master of Healthcare Design degree is a STEM-designated, post-professional degree and one of the very few in the nation focusing on the design of healthcare facilities. Program faculty empower students to use design as a powerful tool to advocate for safety, satisfaction and efficiency for all stakeholders, from patients to caregivers. As a member of the AIA's Design and Health Research Consortium, the M.H.D. degree exemplifies interdisciplinary innovation.

Kent State University prides itself in offering a leading healthcare design program grounded in innovation, translational research and scholarship — preparing outstanding professionals whose passion in human-centered design will transform the future of the healthcare design industry.

The M.H.D. degree stands out as a distinguished post-professional endeavor dedicated to shaping healthcare facility design. With its

STEM designation, the program leverages scientific principles to equip emerging professionals as future leaders in healthcare design, emphasizing both empathic and evidence-based approaches.

This program's strength lies in its comprehensive curriculum, blending design, research and experiential learning. Through a holistic journey, students gain vital healthcare knowledge, refine design skills and acquire research skills, which are crucial for crafting innovative spaces prioritizing safety and satisfaction for patients, staff and caregivers. Moreover, the program's flexibility is showcased through a broad curriculum, offering elective courses from various disciplines such as public health and nursing. With completion timelines ranging from one to two years, students can tailor their academic path to suit their needs.

The culminating experience within the program is the completion of a master's project, where students develop their visions by designing a healthcare environment of their choice. Inspired by evidence-based design principles, students are trained to conduct research and integrate that into their design processes. This experience is enriched by highly qualified faculty and external practice-based mentors.

A core mission of the program is to enrich students' networks with professionals in the field and expose them to real-world projects that broaden their perspectives. Testament to the program's excellence, its graduates are sought after by premier healthcare-focused architecture and design firms, receive prestigious awards and recognition on an international level and present and publish in scholarly outlets.

Historic Preservation - Minor

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

The Historic Preservation minor is intended for students who desire to understand the history, theory and practice of historic preservation. Students with an interest in or declared in the following majors may benefit from this minor: architectural studies, interior design, studio art, real estate, geography, history, art history and business.

Contact Information

- **Sung Ho Kim** | skim67@kent.edu | 330-672-2917
- caed_info@kent.edu
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	3
ARCH 45213	20TH CENTURY ARCHITECTURAL HISTORY	3
ARCH 45220	ARCHITECTURE IN THE UNITED STATES	3
ARCH 45620	INTRODUCTION TO PRESERVATION	3
ARCH 45625	EXPLORING HISTORIC STRUCTURES	3
ARCH 45627	PRESERVATION TECHNOLOGY	3
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze, research and document historic structures.
2. Understand the application of basic preservation methodologies and technologies.
3. Analyze examples of American architecture in relation to stylistic and socio-cultural development.
4. Evaluate historic preservation projects, taking account the need to reconcile best practices in preservation and larger community development priorities.

Interior Design - B.A.

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

The Bachelor of Arts in Interior Design combines art, technology and business to prepare you for a career in this exciting and ever-evolving field. With a curriculum that emphasizes design thinking, sustainability and user-centered design, you will gain the skills needed to create functional and aesthetically pleasing spaces. Enroll now and take the first step toward a career that combines creativity and practicality. Read more...

Contact Information

- **John Humphries** | jhumph28@kent.edu | 330-672-2917
- caed_info@kent.edu
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Architectural and engineering managers

- 2.6% slower than the average
- 198,100 number of jobs
- $149,530 potential earnings

Commercial and industrial designers

- -3.5% decline
- 42,200 number of jobs
- $71,640 potential earnings

Designers, all other

- -1.9% decline
- 13,600 number of jobs
- $63,750 potential earnings

Interior designers

- -4.9% decline
- 77,900 number of jobs
- $57,060 potential earnings

Accreditation

The B.A. degree in Interior Design is accredited by the Council for Interior Design Accreditation (CIDA) and the National Association of Schools of Art and Design (NASAD).

The CIDA-accredited program prepares students for entry-level interior design practice, for advanced study and to apply to membership in professional interior design organizations. The program meets the educational requirements for eligibility to sit for the National Council for Interior Design Qualification Examination (NCIDQ Exam).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Freshman Students: Admission to the Interior Design major is selective and based on a holistic review process. Prospective applicants must have a minimum 2.750 unweighted overall grade point average (on a 4.000-scale) to be considered for a holistic review and potential admission into the Interior Design program.

Admission to Non-Degree General major: Students who do not qualify for admission to the Interior Design major may qualify for admissions to the college's non-degree General major. Students in the General major are assigned to freshman orientation classes with all College of Architecture and Environmental Design majors. These classes aid in understanding the broad range of career options within the environmental design professions. Students should take regular coursework in preparation to attempt entry into one of the College of Architecture and Environmental Design majors or may consider alternative degree program options. Students should meet with their advisors to aid in making decisions regarding their degree program and major. In order to move forward with a minimum loss of credit hours, students are strongly recommended to choose an alternate degree program within or outside the college prior to completing 45 credit hours.

Transfer, Transitioning and Former Students: For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
AED 10101	DESIGN FOUNDATIONS STUDIO I (min C grade)	3
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ID 10112	INTERIOR DESIGN STUDIO I	4
ID 10601	REPRESENTATION AND VISUALIZATION I	2
ID 14011	INTRODUCTION TO INTERIOR DESIGN (min C grade)	1
ID 20012	GLOBAL HISTORY OF INTERIORS	3
ID 20221	INTERIOR DESIGN STUDIO II	5
ID 20232	INTERIOR DESIGN STUDIO III	5
ID 20401	INTERIOR DESIGN METHODS AND MATERIALS I: INTERIOR MATERIALS	3
ID 20402	INTERIOR DESIGN METHODS AND MATERIALS II: BUILDING SYSTEMS AND CODES	3
ID 20602	REPRESENTATION AND VISUALIZATION II	2
ID 30321	INTERIOR DESIGN THEORY	3
ID 30331	DESIGN WRITING FOR INTERIORS (WIC) (min C grade) [1]	1
ID 30341	INTERIOR DESIGN STUDIO IV	5
ID 30352	INTERIOR DESIGN STUDIO V	5

ID 30391	VARIABLE CONTENT SEMINAR IN INTERIOR DESIGN	3
ID 30403	INTERIOR DESIGN METHODS AND MATERIALS III: LIGHTING AND ACOUSTICS	3
ID 30501	PROFESSIONAL PRACTICES I	3
ID 30603	REPRESENTATION AND VISUALIZATION III	2
ID 40311	CONTEMPORARY ISSUES AND RESEARCH	3
ID 40404	INTERIOR DESIGN METHODS AND MATERIALS IV: ADVANCED MATERIALS AND ASSEMBLIES	3
ID 40461	INTERIOR DESIGN STUDIO VI	5
ID 40472	INTERIOR DESIGN STUDIO VII	5
ID 40502	PROFESSIONAL PRACTICES II	3
ID 44592	PROFESSIONAL INTERIOR DESIGN INTERNSHIP (ELR) (min C grade)	2
College of Architecture and Environmental Design Electives, choose from the following:		6
Any Architectural Studies (ARCS) Upper-Division course (30000 or 40000 level)		
Any Architecture (ARCH) Upper-Division course (30000 or 40000 level)		
Any Architecture and Environmental Design (AED) Upper-Division course (30000 or 40000 level)		
Any Construction Management (CMGT) Upper-Division course (30000 or 40000 level)		
Any Interior Design (ID) Upper-Division course (30000 or 40000 level)		
Business Elective, choose from the following:		3
Any Accounting (ACCT) course		
Any Business (BUS) course		
Any Computer Information Systems (CIS) course		
Any Economics (ECON) course		
Any Entrepreneurship (ENTR) course		
Any Finance (FIN) course		
Any Human Resource Management (HRM) course		
Any Management (MGMT) course		
Any Management and Information Systems (MIS) course		
Any Managerial Marketing (MMTG) course		
Any Marketing (MKTG) course		
Additional Requirements (courses do not count in major GPA)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
or SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
Minimum Total Credit Hours:		**123**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Progression Requirements

- A minimum 2.500 overall GPA is required for advancement to the second year.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	AED 10101	DESIGN FOUNDATIONS STUDIO I	3
	ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
!	ID 14011	INTRODUCTION TO INTERIOR DESIGN	1
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	PSYC 11762 or SOC 12050	GENERAL PSYCHOLOGY (DIVD) (KSS) or INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
		Credit Hours	**14**
	Semester Two		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	ID 10112	INTERIOR DESIGN STUDIO I	4
	ID 10601	REPRESENTATION AND VISUALIZATION I	2
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	Minimum 2.500 overall GPA is required for advancement to second year		
	ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
	ID 20221	INTERIOR DESIGN STUDIO II	5
	ID 20401	INTERIOR DESIGN METHODS AND MATERIALS I: INTERIOR MATERIALS	3
	ID 20602	REPRESENTATION AND VISUALIZATION II	2
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
	ID 20012	GLOBAL HISTORY OF INTERIORS	3
	ID 20232	INTERIOR DESIGN STUDIO III	5
	ID 20402	INTERIOR DESIGN METHODS AND MATERIALS II: BUILDING SYSTEMS AND CODES	3
	ID 30331	DESIGN WRITING FOR INTERIORS (WIC)	1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	Kent Core Composition courses (6 credit hours) must be completed		
	ID 30321	INTERIOR DESIGN THEORY	3
	ID 30341	INTERIOR DESIGN STUDIO IV	5

	ID 30403	INTERIOR DESIGN METHODS AND MATERIALS III: LIGHTING AND ACOUSTICS	3
	ID 30603	REPRESENTATION AND VISUALIZATION III	2
	College of Architecture and Environmental Design Elective		3
		Credit Hours	**16**
	Semester Six		
	ID 30352	INTERIOR DESIGN STUDIO V	5
	ID 30391	VARIABLE CONTENT SEMINAR IN INTERIOR DESIGN	3
	ID 30501	PROFESSIONAL PRACTICES I	3
	Kent Core Requirement		3
		Credit Hours	**14**
	Third Summer Term		
	ID 44592	PROFESSIONAL INTERIOR DESIGN INTERNSHIP (ELR)	2
		Credit Hours	**2**
	Semester Seven		
	ID 40311	CONTEMPORARY ISSUES AND RESEARCH	3
	ID 40404	INTERIOR DESIGN METHODS AND MATERIALS IV: ADVANCED MATERIALS AND ASSEMBLIES	3
	ID 40461	INTERIOR DESIGN STUDIO VI	5
	College of Architecture and Environmental Design Elective		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Eight		
	ID 40472	INTERIOR DESIGN STUDIO VII	5
	ID 40502	PROFESSIONAL PRACTICES II	3
	Business Elective		3
	Kent Core Requirement		3
		Credit Hours	**14**
		Minimum Total Credit Hours:	**123**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the foundations of the interior design discipline: history, theories of design, technical knowledge, human factors, human sciences, design thinking and professional practices.
2. Understand the complex relationships between design practice, materials, technology, sustainability and social issues in the built environment.
3. Conduct and apply technical, historical, material and cultural research, using quantitative and qualitative methods to design projects.
4. Understand how a variety of building materials, finishes and systems are used, assembled and interconnected in construction.
5. Skillfully manipulate two- and three-dimensional representational techniques using a wide range of media.
6. Demonstrate effective visual, verbal and written communication skills.
7. Contribute effectively to multidisciplinary, diverse teams prepared to practice in complex, multicultural global contexts.
8. Create interior spaces at varying scales, in various contexts and for varying purposes, using research, critical thinking, analysis and problem solving, which respond to user needs and promote human well-being.
9. Create interior spaces that conform with required codes, standards and regulations to protect the life, safety, health and wellness of the building occupants.
10. Develop an ethical bearing that addresses sustainability, social justice, leadership, responsibility to clients and society and respect for difference and equity.

Full Description

The Bachelor of Arts degree in Interior Design seeks to exemplify design excellence, make interior spaces for human well-being and continually expand the reputation and rigor of the program. The program educates highly skilled and empathetic interior designers through a diverse curriculum that emphasizes research, creativity, professionalism and leadership in an era of social and technological change. Competencies achieved in the program include fundamental design skills tempered with the application of research and creative inquiry; knowledge of materials, methods and systems; space planning and programming; professional practice knowledge and critical thinking; gaining experiences through a guided internship; inquiry into human factors in design; and the

comprehensive designing of interior spaces with vigilance toward the health, safety and welfare of the public.

The college offers a semester abroad for qualified third-year students in the Interior Design major. The study abroad program is housed in the heart of historic Florence, Italy and Paris, France. The program is open to all students who have made satisfactory progress toward completion of their undergraduate program.

Interior Design students may apply early to the Master of Healthcare Design degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

Landscape Architecture - M.L.A. I

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

Looking to make a real difference in the world with your design skills? The M.L.A. professional degree will provide you with the tools you need to become a creative and effective leader in the field of landscape architecture. Our inclusive and interdisciplinary design methodologies prepare you to study matters of global significance, such as the reclamation of urban vacancies, the design of infrastructural systems, the preservation of natural resources and the pursuit of social justice and cultural landscapes. Join us and shape a better future. Read more...

Contact Information

- **Cat Soergel Marshall** | cmarsh40@kent.edu | 216-357-3432
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Cleveland

Examples of Possible Careers and Salaries*

Landscape architects

- -2.4% decline
- 24,500 number of jobs
- $70,630 potential earnings

Architecture teachers, postsecondary

- 5.1% faster than the average
- 8,500 number of jobs
- $90,880 potential earnings

Urban and regional planners

- 11.0% much faster than the average
- 39,700 number of jobs
- $75,950 potential earnings

Additional Careers

- Landscape architectural project managers

Accreditation

The M.L.A. I degree is an accredited program through the Landscape Architecture Accrediting Board (LAAB) as of fall 2018.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Curriculum vitae
- Goal statement
- Portfolio of design work
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: February 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
LARC 50100	DESIGN VISUALIZATION	3
LARC 50101	LANDSCAPE ARCHITECTURE STUDIO I [1]	6

LARC 50102	LANDSCAPE ARCHITECTURE STUDIO II [1]	6
LARC 60103	LANDSCAPE ARCHITECTURE STUDIO III	6
LARC 60104	LANDSCAPE ARCHITECTURE STUDIO IV	6
LARC 60105	LANDSCAPE ARCHITECTURE STUDIO V	6
LARC 60106	LANDSCAPE ARCHITECTURE STUDIO VI [2]	6
LARC 60111	LANDSCAPE HISTORY AND THEORY	3
LARC 60301	SITE ENGINEERING	3
LARC 60401	LANDSCAPE ARCHITECTURE CONSTRUCTION METHODS	3
LARC 60601	PLANTS AND PLANTED FORM	3
LARC 60602	URBAN ECOLOGICAL SYSTEMS	3
LARC 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
LARC 60923	EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN	1
LARC 65003	PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT	3
Cognate Electives, choose from the following:		12
ARCH 55295	SPECIAL TOPICS TOPICS IN ARCHITECTURAL HISTORY	
BSCI 50162	SOIL BIOLOGY	
BSCI 50170	STREAM BIOLOGY	
BSCI 50364	LIMNOLOGY	
BSCI 50368	WETLAND ECOLOGY AND MANAGEMENT	
BSCI 50374	CONSERVATION BIOLOGY	
BSCI 50375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT	
BSCI 50525	WILDLIFE RESOURCES	
BSCI 60372	COMMUNITIES AND ECOSYSTEMS	
BSCI 60391	SEMINAR IN ECOLOGY	
EHS 53009	EMERGING ENVIRONMENTAL HEALTH ISSUES AND RESPONSE	
EHS 62018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	
ESCI 51073	GEOLOGY OF OHIO	
ESCI 51077	GEOLOGY OF THE NATIONAL PARKS	
GEOG 51066	GLOBAL CLIMATE CHANGE	
GEOG 51073	CONSERVATION OF OUR NATURAL RESOURCES	
GEOG 51074	RESOURCE GEOGRAPHY	
GEOG 51082	GEOGRAPHY OF SOILS	
GEOG 52052	HEALTH GEOGRAPHY	
GEOG 54010	GEOGRAPHIES OF GLOBAL DEVELOPMENT	
GEOG 55085	URBAN TRANSPORTATION	
GEOG 56070	URBAN AND REGIONAL PLANNING	
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59076	SPATIAL PROGRAMMING	
GEOG 59080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59162	CARTOGRAPHY	
GEOG 59230	REMOTE SENSING	
GEOG 60191	SEMINAR IN TOPICAL GEOGRAPHY	
GEOG 60800	SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT	
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY	
GEOG 69701	RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA	
HCD 63002	HEALTHCARE FACILITIES	
HCD 63003	ENVIRONMENTAL SYSTEMS AND MATERIALS IN HEALTHCARE	
LARC 50095	SPECIAL TOPICS IN LANDSCAPE ARCHITECTURE	
LARC 60798	MASTER PROJECT IN LANDSCAPE ARCHITECTURE RESEARCH	
LARC 66992	FIELD STUDY IN LANDSCAPE ARCHITECTURE	
RPTM 56070	PARK PLANNING	
UD 55705	FORCES THAT SHAPE CITIES	
UD 65101	COMMUNITY DEVELOPMENT PROCESS	
UD 65102	URBAN SYSTEMS	
UD 65632	URBAN ECOLOGICAL SYSTEMS	
UD 66995	SPECIAL TOPICS IN URBAN DESIGN	
Minimum Total Credit Hours:		**72**

[1] Students with strong qualifications holding a prior design degree may be considered for advanced placement with up to 12 credit hours waived for the degree. Eligibility for advanced placement is reviewed on a case-by-case basis at the time of admission, in accordance with an evaluation matrix developed by the program coordinator and the admissions committee. Students who are deemed eligible to have course requirements waived may graduate with fewer than 72 credit hours, but no fewer than 60 total credit hours.

[2] Students may replace LARC 60106 with LARC 60799 with advisor approval.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Pursue careers in landscape architecture.
2. Synthesize higher-level learning necessary to practice landscape architecture; and develop critical understanding through increased independent, collaborative, interdisciplinary and course-based research.
3. Establish a design process that is firmly based upon research, technology and artistic expression.
4. Appraise and understand geo-cultural differences and develop skills to engage local phenomena.

Full Description

The Master of Landscape Architecture I degree in Landscape Architecture is a professional program that prepares graduates for active, creative and leadership roles in landscape architecture profession through inclusive and interdisciplinary design methodologies that are focused on issues surrounding urban landscapes, ecologies and social concerns.

Students are engaged in issues — ranging from hydrology in the Great Lakes and Ohio River Basins watershed to the role of urban landscapes associated with industrial cities. In addition, they study matters of global significance relating to the role of landscape and design relative

to reclamation of urban vacancies, infrastructural systems, natural resources, climate change, water quality for health and social justice and cultural landscapes.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Landscape Architecture - M.L.A. II

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

From design studios to field experiences, the post-professional M.L.A. degree prepares graduates to tackle complex issues related to landscape architecture and urban planning. Read more...

Contact Information

- **Cat Soergel Marshall** | cmarsh40@kent.edu | 216-357-3432
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Cleveland

Examples of Possible Careers and Salaries*

Landscape architects

- -2.4% decline
- 24,500 number of jobs
- $70,630 potential earnings

Architectural and engineering managers

- 2.6% slower than the average
- 198,100 number of jobs
- $149,530 potential earnings

Architecture teachers, postsecondary

- 5.1% faster than the average
- 8,500 number of jobs
- $90,880 potential earnings

Urban and regional planners

- 11.0% much faster than the average
- 39,700 number of jobs
- $75,950 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor of Landscape Architecture degree that is accredited by the Landscape Architecture Accrediting Board (LAAB)
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Curriculum vitae
- Goal statement
- Portfolio of design work
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: February 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
LARC 60103	LANDSCAPE ARCHITECTURE STUDIO III	6
LARC 60104	LANDSCAPE ARCHITECTURE STUDIO IV	6
LARC 60105	LANDSCAPE ARCHITECTURE STUDIO V	6
LARC 60106	LANDSCAPE ARCHITECTURE STUDIO VI [1]	6
LARC 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
LARC 60923	EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN	1

Cognate Electives, choose from the following:		33
ARCH 55295	SPECIAL TOPICS TOPICS IN ARCHITECTURAL HISTORY	
BSCI 50162	SOIL BIOLOGY	
BSCI 50170	STREAM BIOLOGY	
BSCI 50364	LIMNOLOGY	
BSCI 50368	WETLAND ECOLOGY AND MANAGEMENT	
BSCI 50374	CONSERVATION BIOLOGY	
BSCI 50375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT	
BSCI 50525	WILDLIFE RESOURCES	
BSCI 60372	COMMUNITIES AND ECOSYSTEMS	
BSCI 60391	SEMINAR IN ECOLOGY	
EHS 53009	EMERGING ENVIRONMENTAL HEALTH ISSUES AND RESPONSE	
EHS 62018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	
ESCI 51073	GEOLOGY OF OHIO	
ESCI 51077	GEOLOGY OF THE NATIONAL PARKS	
GEOG 51066	GLOBAL CLIMATE CHANGE	
GEOG 51073	CONSERVATION OF OUR NATURAL RESOURCES	
GEOG 51074	RESOURCE GEOGRAPHY	
GEOG 51082	GEOGRAPHY OF SOILS	
GEOG 52052	HEALTH GEOGRAPHY	
GEOG 54010	GEOGRAPHIES OF GLOBAL DEVELOPMENT	
GEOG 55085	URBAN TRANSPORTATION	
GEOG 56070	URBAN AND REGIONAL PLANNING	
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59076	SPATIAL PROGRAMMING	
GEOG 59080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59162	CARTOGRAPHY	
GEOG 59230	REMOTE SENSING	
GEOG 60191	SEMINAR IN TOPICAL GEOGRAPHY	
GEOG 60800	SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT	
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY	
GEOG 69701	RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA	
LARC 50095	SPECIAL TOPICS IN LANDSCAPE ARCHITECTURE	
LARC 60798	MASTER PROJECT IN LANDSCAPE ARCHITECTURE RESEARCH	
LARC 60799	MASTERS PROJECT IN LANDSCAPE ARCHITECTURE	
LARC 66992	FIELD STUDY IN LANDSCAPE ARCHITECTURE	
RPTM 56070	PARK PLANNING	
UD 55705	FORCES THAT SHAPE CITIES	
UD 65101	COMMUNITY DEVELOPMENT PROCESS	
UD 65102	URBAN SYSTEMS	
UD 65632	URBAN ECOLOGICAL SYSTEMS	
UD 66995	SPECIAL TOPICS IN URBAN DESIGN	
Minimum Total Credit Hours:		**60**

[1] Students may replace LARC 60106 with LARC 60799 with advisor approval.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Synthesize higher level learning necessary to practice landscape architecture.
2. Develop critical understanding through increased independent, collaborative, interdisciplinary and course-based research.

Full Description

The Master of Landscape Architecture II degree in Landscape Architecture is a post-professional program intended for students to develop new knowledge through research and design, and to provide professionals with the opportunity for specialization in an area of their choosing.

Students are engaged in issues — ranging from hydrology in the Great Lakes and Ohio River Basins watershed to the role of urban landscapes associated with industrial cities. In addition, students study matters of global significance relating to the role of landscape and design relative to reclamation of urban vacancies, infrastructural systems, natural resources, climate change, water quality for health and social justice and cultural landscapes.

Individual capstone research or advanced design studios comprise the second year of study.

Urban Design - M.U.D.

College of Architecture and Environmental Design
www.kent.edu/caed

About This Program

Looking to shape the future of cities and communities? The Master of Urban Design degree will equip you with the tools and knowledge necessary to tackle the challenges of sustainable design, social equity and community engagement. From design studios to field experiences, the Urban Design program offers an immersive and hands-on educational experience. Pair this degree with the M.Arch. degree in Architecture for additional opportunities. Read more...

Contact Information

- **Sung Ho Kim** | skim67@kent.edu | 330-672-2917
- CAEDgradprograms@kent.edu
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Cleveland

Examples of Possible Careers and Salaries*

Architectural and engineering managers

- 2.6% slower than the average
- 198,100 number of jobs
- $149,530 potential earnings

Architecture teachers, postsecondary

- 5.1% faster than the average
- 8,500 number of jobs
- $90,880 potential earnings

Designers, all other

- -1.9% decline
- 13,600 number of jobs
- $63,750 potential earnings

Urban and regional planners

- 11.0% much faster than the average
- 39,700 number of jobs
- $75,950 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university *(starting with the fall 2026 admission term, a bachelor's degree in either design or urban-related studies is required)*
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- GRE scores *(starting with the fall 2026 admission term, GRE scores will no longer be required)*
- Goal statement (include intent and background information)
- Portfolio (design work should clearly indicate role in group projects)
- Three letters of recommendation, with one letter from a non-academic source
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: February 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ARCH 65001	PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT	2
UD 55705	FORCES THAT SHAPE CITIES	3
UD 60701	URBAN DESIGN STUDIO I	6
UD 60702	URBAN DESIGN STUDIO II	6
UD 65101	COMMUNITY DEVELOPMENT PROCESS	1
UD 65102	URBAN SYSTEMS	3
UD 65632	URBAN ECOLOGICAL SYSTEMS	3
UD 66995	SPECIAL TOPICS IN URBAN DESIGN	1
Culminating Requirement		
Choose from the following:		9
Research Track [1]		
UD 60705	MASTER PROJECT IN URBAN DESIGN PREPARATION	
UD 60798	MASTERS PROJECT IN URBAN DESIGN	
Practicum Track		
UD 66896	URBAN DESIGN PRACTICUM PROJECT	
UD 66995	SPECIAL TOPICS IN URBAN DESIGN	
Practicum Track Electives, choose from the following (6 credit hours):		
ARCH 60301	THEORIES OF ARCHITECTURE	
GEOG 51066	GLOBAL CLIMATE CHANGE	
GEOG 52052	HEALTH GEOGRAPHY	
GEOG 54010	GEOGRAPHIES OF GLOBAL DEVELOPMENT	
GEOG 55085	URBAN TRANSPORTATION	
GEOG 56070	URBAN AND REGIONAL PLANNING	
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59076	SPATIAL PROGRAMMING	
GEOG 59080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59162	CARTOGRAPHY	
GEOG 59230	REMOTE SENSING	
GEOG 60191	SEMINAR IN TOPICAL GEOGRAPHY	
GEOG 60800	SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT	
LARC 50095	SPECIAL TOPICS IN LANDSCAPE ARCHITECTURE	
LARC 50100	DESIGN VISUALIZATION	

LARC 60111	LANDSCAPE HISTORY AND THEORY	
UD 66995	SPECIAL TOPICS IN URBAN DESIGN	
Other course as approved		
Minimum Total Credit Hours:		**34**

[1] Students require prior approval to pursue the research track.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the ability to build abstract relationships and understand the impact of ideas based on research and analysis of multiple theoretical, social, political, economic, cultural and environmental contexts. This includes the wider range of media used to think about urban and regional design, including writing, investigative skills, speaking, drawing and model making.
2. Develop an ability to utilize the technical instruments of the urban design field, including legal instruments, urban systems and their organization; and the role of these varied elements in the implementation of design and their impact on the environment. This is inclusive of understanding and abilities at a range of scales from local to regional design and the implications of policy and design decision-making at these ranges of scale.
3. Manage, advocate and act legally, ethically and critically for the good of society and the public. This includes collaborative, professional and leadership skills, especially in the public arena.

Dual Degree with M.Arch. in Architecture

Students have the opportunity to complete a dual degree program with the M.U.D. degree in Urban Design and the M.Arch. degree in Architecture. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page. Students in the M.Arch. degree must be declared in the Accelerated Track concentration to be admitted to the dual degree.

This dual degree program prepares students to enter the profession of architecture by stimulating the growth of technical knowledge and design creativity. It fosters the refinement of design skills acquired in undergraduate programs and offers a broad exposure to professional issues and knowledge related to urban design.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ARCH 60101	GRADUATE DESIGN STUDIO I	6
ARCH 60102	GRADUATE DESIGN STUDIO II	5
ARCH 60150	PROJECT PROGRAMMING	3
ARCH 60301	THEORIES OF ARCHITECTURE	3
ARCH 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
ARCH 65001	PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT	2
ARCH 65002	PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW	2
ARCH 65003	PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT	2-3
ARCH 66995	SPECIAL TOPICS IN ARCHITECTURE [1]	1
UD 55705	FORCES THAT SHAPE CITIES	3
UD 60701	URBAN DESIGN STUDIO I	6
UD 60703	URBAN DESIGN STUDIO III	5
UD 65101	COMMUNITY DEVELOPMENT PROCESS	1
UD 65102	URBAN SYSTEMS	3
UD 65632	URBAN ECOLOGICAL SYSTEMS	3
UD 66896	URBAN DESIGN PRACTICUM PROJECT	2
UD 66995	SPECIAL TOPICS IN URBAN DESIGN [2]	1
UD 66995	SPECIAL TOPICS IN URBAN DESIGN	1
Architecture (ARCH) Electives (50000 or 60000 level)		6
Approved Electives, choose from the following: [3]		8
ARCH 60301	THEORIES OF ARCHITECTURE	
GEOG 51066	GLOBAL CLIMATE CHANGE	
GEOG 52052	HEALTH GEOGRAPHY	
GEOG 54010	GEOGRAPHIES OF GLOBAL DEVELOPMENT	
GEOG 55085	URBAN TRANSPORTATION	
GEOG 56070	URBAN AND REGIONAL PLANNING	
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59076	SPATIAL PROGRAMMING	
GEOG 59080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59162	CARTOGRAPHY	
GEOG 59230	REMOTE SENSING	
GEOG 60191	SEMINAR IN TOPICAL GEOGRAPHY	
GEOG 60800	SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT	
LARC 50095	SPECIAL TOPICS IN LANDSCAPE ARCHITECTURE	
LARC 50100	DESIGN VISUALIZATION	
LARC 60111	LANDSCAPE HISTORY AND THEORY	
UD 66995	SPECIAL TOPICS IN URBAN DESIGN	
Other course as approved		
Minimum Total Credit Hours:		**65**

[1] Special topics course in professional practice.
[2] Special topics related to studio.
[3] With approval, students may apply other courses in the College of Architecture and Environmental Design; or from another Kent State college, school or department; or from at the Levin College of Urban Affairs at Cleveland State University.

Full Description

The Master of Urban Design degree expands on traditional architectural, landscape architecture and planning education with an understanding of the processes of urban development, and with the skills required to the physical shaping of urban places. The program is aimed at students with a prior background in either design or urban-related studies. The degree seeks to develop knowledgeable specialists who possess significant ability to identify opportunities in the urban environment and

the sensibility to provide design solutions to the most complex problems encountered.

Faculty work in close collaboration with students through rigorous curricula focused on the application of research in the design of layered and mutually reinforcing systems and public spaces. The degree culminates with either a final hands-on practicum component or a final independent design research project for eligible students.

Projects range from neighborhood plans to large-scale urban and regional initiatives engaging cultural and environmental concerns. Project locations are often in Cleveland and similar regional cities, but they address far-reaching global concerns. Students can engage in applied research in the re-design of "Cities Growing Smaller" systemic approaches to the development of urban environments, considerations of place and identity and the place-making potential of infrastructure. Further directions include the design of cities and neighborhoods that promote physical and mental health; studies of sustainable infrastructures that support sustainable ecological systems; the adaptation of traditional models of urbanism to changing conditions; and the future of urban economies as it relates to physical place-making.

College of Arts and Sciences

College of Arts and Sciences
104 Bowman Hall
Kent Campus
330-672-2062
asadvise@kent.edu
www.kent.edu/cas

Departments and Schools

- Department of Africana Studies
- Department of Anthropology
- Department of Biological Sciences
- Department of Chemistry and Biochemistry
- Department of Computer Science
- Department of Earth Sciences
- Department of English
- Department of Geography
- Department of History
- Department of Mathematical Sciences
- Department of Modern and Classical Language Studies
- Department of Philosophy
- Department of Physics
- Department of Political Science
- Department of Psychological Sciences
- Department of Sociology and Criminology
- School of Biomedical Sciences
- School of Multidisciplinary Social Sciences and Humanities
- School of Peace and Conflict Studies

Undergraduate Programs

Majors

- Actuarial Mathematics - B.S.
- Africana Studies - B.A.
- American Sign Language - B.A.
- Anthropology - B.A.
- Anthropology - B.S.
- Applied Mathematics - B.S.
- Biochemistry - B.S.
- Biology - B.A.
- Biology - B.S.
- Biotechnology - B.S.
- Chemistry - B.A.
- Chemistry - B.S.
- Classics - B.A.
- Computer Science - B.A.
- Computer Science - B.S.
- Criminology and Justice Studies - B.A.
- Cybercriminology - B.S.
- Earth Science - B.A.
- Economics - B.A.
- English - B.A.
- Environmental and Conservation Biology - B.S.
- Environmental Studies - B.A.
- French - B.A.
- Gender and Sexuality Studies - B.A.
- Geography - B.A.
- Geology - B.A.
- Geology - B.S.
- German - B.A.
- History - B.A.
- Integrative Studies - B.I.S.
- International Studies - B.A.
- Mathematics - B.A.
- Mathematics - B.S.
- Medical Laboratory Science - B.S.
- Neuroscience - B.S.
- Paralegal Studies - B.A.
- Peace and Conflict Studies - B.A.
- Philosophy - B.A.
- Physics - B.A.
- Physics - B.S.
- Plant Biology - B.S.
- Political Science - B.A.
- Psychology - B.A.
- Psychology - B.S.
- Russian Literature, Culture and Translation - B.A.
- Sociology - B.A.
- Spanish - B.A.
- Teaching English as a Second Language - B.A.

- Translation - B.S.
- Zoology - B.S.

Minors

- African Studies
- Africana Studies
- American Sign Language
- Ancient, Medieval and Renaissance Studies
- Anthropology
- Applied Mathematics
- Applied Statistics
- Arabic
- Bioethics and Health Humanities
- Bioinformatics
- Biological Sciences
- Biology for Environmental Management and Conservation
- Business German
- Business Russian
- Business Spanish
- Chemistry
- Chinese
- Classics
- Climate Change
- Computer Science
- Computers and Geosciences
- Criminology and Justice Studies
- Creative Writing
- Cybersecurity Foundations
- Earth Science
- English
- Environment, Peace and Justice
- Environmental Geology
- Environmental Studies
- French
- French for the Professions
- Forensic Anthropology
- Game Programming
- Geographic Information Science
- Geography
- Geology
- German
- German Studies
- Greek
- History
- Human Disease
- Italian
- Italian Studies
- Japanese
- Jewish Studies
- Latin
- Latin American Studies
- Lesbian, Gay, Bisexual, Transgender and Queer Studies
- Mathematics
- Medical Anthropology
- Microbiology
- Negotiation, Mediation and Conflict Management
- Neuroscience
- Paleontology
- Paralegal Studies
- Philosophy
- Physics
- Political Science
- Pre-Law
- Professional and Technical Writing
- Psychology
- Religion Studies
- Russian
- Russian Studies
- Society, Health and Medicine
- Sociology
- Spanish
- Urban Studies
- Web Programming
- Women's Studies
- World Literature and Cultures

Graduate Programs

Majors

- Anthropology - M.A.
- Applied Geology - Ph.D.
- Applied Mathematics - M.A.
- Applied Mathematics - M.S.
- Applied Mathematics - Ph.D.
- Artificial Intelligence - M.S.
- Biological Sciences - Cell Biology and Molecular Genetics - M.S.
- Biological Sciences - Cell Biology and Molecular Genetics - Ph.D.
- Biological Sciences - Ecology and Evolutionary Biology - M.S.
- Biological Sciences - Ecology and Evolutionary Biology - Ph.D.
- Biological Sciences - Integrative Physiology and Neurobiology - M.S.
- Biological Sciences - Integrative Physiology and Neurobiology - Ph.D.
- Biology - M.A.
- Biomedical Sciences - Cellular and Molecular Biology - M.S.
- Biomedical Sciences - Cellular and Molecular Biology - Ph.D.
- Biomedical Sciences - Human Evolutionary Biology - Ph.D.
- Biomedical Sciences - Neurosciences - M.S.
- Biomedical Sciences - Neurosciences - Ph.D.
- Biomedical Sciences - Pharmacology - M.S.
- Biomedical Sciences - Pharmacology - Ph.D.
- Biomedical Sciences - Physiology Interdisciplinary - M.S.
- Biomedical Sciences - Physiology Interdisciplinary - Ph.D.
- Chemistry - M.A.
- Chemistry - M.S.
- Chemistry - Ph.D.
- Clinical Psychology - Ph.D.
- Computer Science - M.A.

- Computer Science - M.S.
- Computer Science - Ph.D.
- Creative Writing - M.F.A.
- Criminology and Criminal Justice - M.A.
- Data Science - M.S.
- English - M.A.
- English - Ph.D.
- French - M.A.
- Geographic Information Science - M.GISC
- Geography - M.S.
- Geography - Ph.D.
- Geology - M.S.
- History - M.A.
- History - Ph.D.
- Latin - M.A.
- Liberal Studies - L.S.M.
- Materials Science - M.S.
- Materials Science - Ph.D.
- Mathematics for Secondary School Teachers - M.A.
- Peace and Conflict Studies - M.A.
- Philosophy - M.A.
- Physics - M.A.
- Physics - M.S.
- Physics - Ph.D.
- Political Science - M.A.
- Political Science - Ph.D.
- Psychological Science - M.A.
- Psychological Science - Ph.D.
- Public Administration - M.P.A.
- Pure Mathematics - M.A.
- Pure Mathematics - M.S.
- Pure Mathematics - Ph.D.
- Sociology - M.A.
- Sociology - Ph.D.
- Spanish - M.A.
- Teaching English as a Second Language - M.A.
- Translation - M.A.
- Translation Studies - Ph.D.

Minors

- Arabic Translation
- Classics
- French Translation
- German Translation
- Japanese Translation
- Race, Gender and Social Justice
- Russian Translation
- Spanish Translation

Certificates

Undergraduate Certificates

- Global Issues
- Paralegal Studies
- Pre-Health
- Teaching English as a Foreign Language

Graduate Certificates

- Environmental Geographic Information Science
- Geographic Information Science
- Nonprofit Management
- Teaching English as a Second/Foreign Language

Non-Degree Programs

Undergraduate

- Columbus Program in State Issues
- Teaching English as a Second Language Endorsement Preparation - undergraduate
- Washington Program in National Issues

Graduate

- Teaching English as a Second Language Endorsement Preparation - graduate

College Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

[1] All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

[2] The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Three-Plus-One Programs

Students who choose to pursue Three-Plus-One programs take three years of preprofessional study at Kent State University, followed by a year or more of intensive professional training at an accredited professional school or clinical facility. Upon the satisfactory completion of this professional training, the B.S. degree from the College of Arts and Sciences at Kent State University is awarded. Students must earn 97 credit hours in a university. Appropriate transfer credit from other institutions may be included in these 97 credit hours, but the students must complete at least 42 credit hours in-residence at Kent State University, including the last 32 credit hours of the 97 credit hours requirement.

Students must have a minimum 2.000 GPA in all work taken at Kent State University. They must also complete with at least a 2.000 average all off-campus work taken to fulfill fourth-year requirements. In some fields, students may also be required to present other evidence of the satisfactory completion of the off-campus professional training.

Students must satisfy all degree requirements, including the B.S. General Requirements and field of concentration requirements, by a combination of credits earned at Kent State University and the professional school. The only exception is that the college's foreign language requirement is waived for students who successfully complete a Three-Plus-One program.

Three-Plus-One programs are designed for students with a well-defined, specific, professional career goal. Currently, the College of Arts and Sciences offers a Three-Plus-One program in Medical Laboratory Science. Because of the intensive, professional focus of these programs, students pursuing them should work closely with their faculty advisors. Students who are interested in this program should consult the Department of Biological Sciences, 256 Cunningham Hall, for further information.

Please see the program requirements for the Medical Laboratory Science program offered under the College of Arts and Sciences.

College of Arts and Sciences Faculty

Department of Africana Studies Faculty

- Crawford, Charmaine M. (2019), Associate Professor, Ph.D., York University, 2010
- Gooden, Amoaba (2005), Professor, Ph.D., Temple University, 2005
- Kumah-Abiwu, Felix (2015), Associate Professor
- Okantah, Mwatabu S. (1991), Professor, B.A., Kent State University, 1976
- Piccirillo-Smith, Linda A. (1983), Senior Lecturer, M.A., Kent State University, 1980
- Sunni-Ali, Asantewa (2016), Associate Professor
- Syed, Idris K. (1991), Professor, M.Ed., Kent State University, 2001

Department of Anthropology Faculty

- Bebber, Michelle R. (2019), Assistant Professor, Ph.D., Kent State University , 2019
- Cimino, Aldo N. (2021), Assistant Professor
- Edler, Melissa K. (1998), Assistant Professor, Ph.D., Kent State University, 2016
- Eren, Metin I. (2016), Professor, Ph.D., Southern Methodist University, 2011
- Lovejoy, C. Owen (1968), Distinguished Professor, Ph.D., University of Massachusetts, Amherst, 1970
- Meindl, Richard S. (1979), Professor, Ph.D., University of Massachusetts-Amherst, 1979
- Raghanti, Mary Ann (2000), Professor, Ph.D., Kent State University, 2007
- Spurlock, Linda B. (1993), Professor, Ph.D., Kent State University, 2001
- Stumpf-Carome, Jeanne M. (1994), Associate Professor, Ph.D., University of California, Berkeley, 1992

- Takeshita, Rafaela S. (2019), Associate Professor, D.Sc., Kyoto University, 2018
- Tosi, Anthony J. (2014), Associate Professor, Ph.D., Columbia University, 2000

Department of Biological Sciences Faculty

- Bade, Darren L. (2006), Associate Professor, Ph.D., University of Wisconsin, 2004
- Bagavandoss, Paul (1993), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1986
- Bahlai, Christine (2017), Associate Professor, Ph.D., University Of Guelph, 2012
- Bailey, Erin L. (2012), Associate Professor, Ph.D., Kent State University, 2001
- Bedont, Joseph L. (2023), Assistant Professor, Ph.D., The Johns Hopkins University, 2016
- Caldwell, Heather K. (2007), Professor, Ph.D., Georgia State University, 2004
- Chung, Wilson C. (2011), Associate Professor, Ph.D., University of Amsterdam, 2003
- Clements, Robert J. (1997), Associate Professor, Ph.D., Kent State University, 2004
- Costello, David M. (2014), Associate Professor, Ph.D., University of Notre Dame, 2010
- De Szalay, Ferenc A. (1997), Associate Professor, Ph.D., University of California-Berkeley, 1995
- Delorme, Thierry A. (2004), Associate Professor, Ph.D., University of Lyon, 1997
- Ding, Qunxing (2007), Associate Professor, Ph.D., Beijing University of Agriculture , 1994
- Eichler, Sarah E. (2019), Assistant Professor, Ph.D., University of Tennessee, Knoxville
- Eisermann, Kurtis (2002), Assistant Professor, Ph.D., Kent State University, 2011
- Engohang-Ndong, Jean (2010), Professor
- Gerbig, Donald G. (1996), Associate Professor, Ph.D., University of Tennessee-Knoxville, 1991
- Grafton, Brian W. (1994), Professor, Ph.D., Kent State University, 2004
- Groff, Chi-Hua (2009), Associate Professor, Ph.D., Wayne State University, 1997
- Gupta, Sanhita (2009), Professor, Ph.D., Case Western Reserve University, 1998
- Hamilton, Robert (2005), Associate Professor, Ph.D., Rutgers, State University of New Jersey, 2006
- Hegmann, Elda (2011), Associate Professor, Ph.D., Laval University, 2003
- Hoeh, Walter R. (1998), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1991
- Johnson, John D. (2007), Professor, Ph.D., University of Colorado-Boulder, 2002
- Kershner, Mark W. (1999), Associate Professor, Ph.D., The Ohio State University, 1998
- Kim, Min-Ho (2012), Associate Professor, Ph.D., University of Toledo, 2002
- Kim, Woo-Yang (2018), Associate Professor, Ph.D., University at Buffalo-SUNY, 2004
- Kinsman-Costello, Lauren E. (2013), Associate Professor, Ph.D., Michigan State University, 2012
- Kooijman, Edgar (1998), Professor, Ph.D., Utrecht University, 2006
- Koski, Gary K. (2010), Professor, Ph.D., Johns Hopkins University, 1995
- Kurokawa, Manabu (2017), Associate Professor, Ph.D., University of Massachusetts-Amherst, 2004
- Lamichhaney, Sangeet (2019), Assistant Professor, Ph.D., Uppsala University, 2016
- Leff, Adam A. (1994), Associate Professor, D.V.M., University of Georgia, 1991
- Leff, Laura G. (1994), Professor, Ph.D., University of Georgia, 1992
- Lehman, Michael N. (2019), Professor
- Lehnert, Matthew S. (2012), Professor, Ph.D., University of Florida, 2010
- Lovell, John A. (1995), Associate Professor, Ph.D., Kent State University, 1993
- McDonough, Jennifer A. (2006), Associate Professor
- Meek, Leah M. (1995), Senior Lecturer, Youngstown State University
- Mintz, Eric M. (2002), Professor, Ph.D., University of California-Santa Cruz, 1995
- Model, Michael A. (2004), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1995
- Moore, Aleisha M. (2019), Assistant Professor, Ph.D., University of Otago, 2015
- Mou, Xiaozhen (2008), Professor, Ph.D., University of Georgia, 2006
- Mueller, Devin (2018), Professor, Ph.D., Concordia University, 2005
- Novak-Barnett, Colleen M. (2009), Professor, Ph.D., Michigan State University, 1999
- Piet, Richard (2019), Assistant Professor, Univ De Bordeaux, 2003
- Piontkivska, Olena (2005), Professor, Ph.D., Pennsylvania State University, 2003
- Popescu, Daniela C. (2013), Associate Professor, Ph.D., Vanderbilt University, 2006
- Qutob, Dinah S. (2018), Assistant Professor, Ph.D., University Of Western Ontario, 2002
- Redfearn, James C. (2006), Associate Professor, Ph.D., Kent State University, 2016
- Rocha, Oscar J. (2004), Professor, Ph.D., Penn State University, 1990
- Russell, Mary A. (2003), Professor, Ph.D., The Ohio State University, 1996
- Smith, Gregory A. (2014), Associate Professor, Ph.D., University of Oklahoma, 2007
- Steele, Louise (2012), Associate Professor, Ph.D., Case Western Reserve University, 2002
- Stone, Jonathan F. (2003), Associate Professor, B.S., University of Akron, 1985
- Trevelline, Brian (2023), Assistant Professor, Ph.D., Duquesne University, 2017
- Vash, Sarah R. (2004), Senior Lecturer, M.S., Kent State University, 2003
- Veney, Sean L. (2004), Associate Professor, Ph.D., University of Virginia-Main Campus, 2000
- Ward, David (2015), Professor, Ph.D., University of KwaZulu-Natal, 1988

- Zhu, Haiyan (2010), Associate Professor, Ph.D., University of Kentucky, 2006

Department of Chemistry and Biochemistry Faculty

- Abeysirigunawardena, Sanjaya C. (2015), Associate Professor, Ph.D., Wayne State University, 2008
- Abraham, Ann C. (2004), Associate Professor, Ph.D., University of Pittsburgh, 1983
- Bowers, David J. (2013), Associate Professor
- Bunge, Scott D. (2004), Associate Professor, Ph.D., Georgia Institute of Technology, 2001
- Burns, Andrew (1994), Professor, Ph.D., Brown University, 1990
- Cubon-Bell, Valerie A. (2010), Professor, Ph.D., Princeton University, 2008
- Datta, Bansidhar (2000), Associate Professor, University of Nebraska-Lincoln, 1989
- Dunietz, Barry (2012), Professor
- Ekanayake, Sujeewani K. (2012), Professor
- Fenk, Christopher J. (1990), Professor, Ph.D., University of Pittsburgh, 1987
- Fouad, Farid S. (2008), Professor, Ph.D., Northeastern University, 2003
- Friedrich, Dirk (2016), Associate Professor, Ph.D., Universitat Leipzig, 2013
- Goncalves Schmidt, Diana P. (2019), Assistant Professor
- Hegmann, Torsten (2011), Professor , Ph.D., Martin Luther University, 2001
- Huang, Songping D. (1998), Professor, Ph.D., Michigan State University, 1993
- Konar, Arkaprabha (2019), Assistant Professor, 2019, Michigan State University, 2015
- Leslie, Margaret R. (2004), Professor, Ph.D., Rhodes University, 1995
- Mao, Hanbin (2005), Professor, Ph.D., Texas A&M University, 2003
- Mighion, Jeffrey D. (2017), Assistant Professor, Ph.D., Princeton University, 2014
- Motry, Douglas H. (1996), Associate Professor, Ph.D., Michigan State University, 1996
- Pal Chaudhuri, Urmila (2008), Associate Professor, Ph.D., Indian Institute of Technology Madras, 2004
- Perera, Roshinee S. (2013), Associate Professor, Ph.D., University of Akron, 2011
- Prevot, Marianne (2016), Assistant Professor
- Seed, Alexander J. (1996), Associate Professor, Ph.D., University Of Hull
- Shen, Hao (2018), Assistant Professor, Ph.D., Cornell University, 2015
- Subramanian, Pritha (2006), Associate Professor, Ph.D., Kent State University, 2013
- Tandon, Santokh S. (2004), Professor, Ph.D., Guru Nanak Dev University, 1979
- Tubergen, Michael J. (1995), Professor, Ph.D., University of Chicago, 1991
- Wang, Zhiqiang (2007), Professor, Fudan University, 2000
- Zheng, Yaorong (2015), Associate Professor, Ph.D., University of Utah, 2011

Department of Computer Science Faculty

- Allouzi, Maha A. (2013), Associate Professor, Ph.D., Kent State University, 2022
- Bansal, Arvind K. (1988), Professor, Ph.D., Case Western Reserve University, 1985
- Bektic, Meldin (2024), Lecturer, B.S., Kent State University, 2021
- Bhati, Deepshikha (2017), Lecturer, Uttar Pradesh Tech University, 2016
- Chae, Younghun (2016), Associate Professor, Ph.D., University of Rhode Island, 2017
- DeLozier, Gregory S. (2014), Associate Professor
- Dragan, Feodor F. (2000), Professor, Ph.D., Belarus State University
- Guan, Qiang (2018), Associate Professor, M.S., University of North Texas, 2008
- Guercio, Angela (1999), Associate Professor, Ph.D., Kent State University, 2004
- Hasan, Md Raiful (2023), Assistant Professor
- Jin, Ruoming (2005), Professor, Ph.D., The Ohio State University, 2001
- Khan, Javed I. (1997), Professor , Ph.D., University of Hawaii-Manoa, 1995
- Kim, JungYoon (2019), Associate Professor, Ph.D., Penn State University, 2014
- Kim, Kwangtaek (2019), Associate Professor, Ph.D., Purdue University, 2010
- Kim, Jong-Hoon (2017), Associate Professor
- Lian, Xiang (2016), Associate Professor, Ph.D., Hong Kong University Of Science and Technology, 2009
- Maletic, Jonathan I. (2001), Professor, Ph.D., Wayne State University, 1995
- Nesterenko, Mikhail (1998), Professor, Ph.D., Kansas State University, 1998
- Peyravi, Hassan M. (1985), Professor, Ph.D., University of Oklahoma, 1995
- Samba, Augustine S. (2001), Professor, Ph.D., University of Liverpool, 1983
- Sharma, Gokarna (2015), Associate Professor, Ph.D., Louisiana State University, 2014
- Villalobos Herrera, Giovanni (2024), Lecturer, Tech Institute of Costa Rica, 2019
- Xu, Lei (2022), Assistant Professor, Chinese Academy Of Science, 2011
- Zhao, Ye (2006), Professor, Ph.D., State University of New York, Stony Brook, 2006

Department of Earth Sciences Faculty

- Clement, Susanne M. (1995), Professor, Ph.D., Kent State University, 2005
- Gallagher, Timothy M. (2020), Assistant Professor, Ph.D., University of Michigan, 2016
- Hacker, David B. (1989), Professor, Ph.D., Kent State University, 1998
- Holm, Daniel K. (1992), Professor, Ph.D., Harvard University, 1992
- Ortiz, Joseph D. (2001), Professor, Ph.D., Oregon State University, 1995
- Schweitzer, Carrie E. (1994), Professor, Ph.D., Kent State University, 2000

- Singer, David M. (2012), Associate Professor, Ph.D., Stanford University, 2008
- Singh, Kuldeep (2017), Assistant Professor, Ph.D., University of Texas at Austin, 2013
- Smith, Alison J. (1990), Professor, Ph.D., Brown University, 1991
- Taylor, Eric S. (2012), Professor, Ph.D., The Ohio State University, 2012
- Tessin, Allyson (2020), Assistant Professor, Ph.D, University of Michigan-Ann Arbor, 2016
- Wagner, Courtney L. (2024), Assistant Professor, Ph.D., University Of Utah, 2021
- Wells, Neil A. (1984), Professor, Ph.D., University of Michigan-Ann Arbor, 1984

Department of English Faculty

- Abuzeid, Ayham (2007), Associate Lecturer, M.A., Kent State University, 2010
- Ailiesei, Sorina M. (2013), Assistant Professor, Ph.D., Babes - Bolyai University, 2012
- Baker, Alexis M. (2017), Associate Professor, Ph.D., Kent State University, 2016
- Behney, Jennifer (2024), Associate Professor, Ph.D., Michigan State University, 2011
- Bowles, Noelle K. (2001), Associate Professor, Ph.D., University of Miami, 1996
- Bracher, Mark F. (1985), Professor, Ph.D., Vanderbilt University, 1981
- Brodsky, Adam H. (2008), Senior Lecturer, M.A., Kent State University, 2011
- Byrne, Peter M. (2008), Associate Professor, Ph.D., University of California, Irvine, 2004
- Canacci, James E. (1995), Senior Lecturer, M.A., Youngstown State University, 1995
- Christen-Syed, Shannon L. (2010), Associate Lecturer, M.A., Kent State University, 2004
- Clewell, Tammy (2000), Professor, Ph.D., Florida State University, 2000
- Cunningham, Jennifer M. (2009), Professor, Ph.D., Kent State University, 2012
- Dallacheisa, Tony G. (2008), Associate Lecturer, M.A., Ohio University, 2008
- Dauterich, Edward (1997), Professor, Ph.D., Kent State University, 2006
- Davis Patterson, Kathy S. (2000), Associate Professor, Ph.D., The Ohio State University, 1999
- Devore, Elizabeth E. (2010), Senior Lecturer, M.A., New Mexico Highlands University, 2009
- Dugas, Don-John (2005), Professor, Ph.D., Penn State University, 1999
- Dunmire, Patricia L. (1995), Professor, Ph.D., Carnegie Mellon University, 1995
- Elder, Dolores M. (2009), Associate Lecturer, M.A., Kent State University, 2010
- Ellis, Marnie K. (2003), Associate Lecturer, M.F.A., Bowling Green State University, 1999
- Erritouni, Ali (2005), Associate Professor, Ph.D., University of Miami, 2004
- Faller, Patrick M. (2011), Lecturer, M.F.A., West Virginia University-Morgantown, 2010
- Hall, Elizabeth A. (2011), Lecturer, M.A., University of Akron, 2017
- Harrington, Kristine (2016), Associate Lecturer, M.A., Youngstown State University, 1995
- Hayes, Amanda (2016), Associate Professor, Ph.D., Ohio University, 2015
- Hediger, Ryan R. (2011), Professor, Ph.D., University of Oregon, 2005
- Hendrickx, Jessy A. (2015), Associate Lecturer, M.A., Kent State University, 2002
- Hricko, Mary F. (1994), Professor , Ph.D., Kent State University, 2004
- Huot, Brian A. (2004), Professor, Ph.D., Indiana University of Pennsylvania, 1988
- Jones, Jessica M. (2016), Associate Lecturer, University Of Montana, 2014
- King, Robert J. (1998), Professor, M.F.A., Indiana University-Bloomington, 1998
- Krishnan, Uma S. (2001), Professor, Ph.D., Kent State University, 2014
- Lieske, Pamela J. (1997), Professor, Ph.D., University of Massachusetts, Amherst, 1996
- Lloyd, Keith S. (2002), Professor, Ph.D., University of Louisville, 1996
- Lyons, Janet L. (2010), Associate Lecturer, M.A., Kent State University, 2011
- Lyons, Jo-Leigh (1991), Senior Lecturer, M.A., Kent State University, 1996
- M'baye, Babacar (2006), Professor, Ph.D., Bowling Green State University, 2002
- MacLure, Jennifer (2017), Associate Professor, Ph.D., University of Wisconsin, Madison, 2017
- Martinez, Ann M. (2014), Associate Professor, Ph.D., University of Kansas, 2014
- Mechenbier, Mahli X. (1996), Senior Lecturer, J.D., University of Akron, 2002
- Miller, Ryan T. (2014), Professor, Ph.D., Carnegie Mellon University, 2013
- Mokros, Molly M. (2009), Associate Lecturer, M.A., New York University, 2002
- Neaderhiser, Stephen E. (2009), Associate Professor, M.A., University of Kansas, 2004
- Orr, Katherine M. (1990), Professor, Ph.D., Kent State University, 2010
- Patterson, G. R. (2018), Associate Professor, Ph.D., Miami University, 2013
- Raabe, Wesley (2008), Associate Professor, Ph.D., University of Virginia, Main Campus, 2006
- Remley, Dirk R. (1990), Professor, Ph.D., Kent State University, 2010
- Rilling, Sarah E. (2002), Professor, Ph.D., Northern Arizona University, 1998
- Robinson, Carol L. (2000), Professor, Ph.D., University of Georgia, 1994
- Roman, Christopher M. (1997), Professor, Ph.D., University of Alabama, 2004
- Rooks, Mary A. (2005), Assistant Professor, Ph.D., University of Mexico, 2004
- Rozner, Debbie L. (2010), Professor, M.Ed., George Washington University, 2004
- Sainato, Susan M. (1987), Professor, Ph.D., Kent State University, 2002
- Sanders, Michael T. (1995), Associate Professor, Ph.D., Kent State University, 2006
- Schauffler, Charlene M. (1991), Senior Lecturer, M.A., Kent State University, 1994

- Shaker, Bonnie J. (2013), Associate Professor, Ph.D., Case Western Reserve University, 1998
- Shank, Matthew A. (1983), Senior Lecturer, M.A., University of Akron, 1982
- Smith, Jeanne R. (1998), Senior Lecturer, M.A., State University of New York, Binghamton, 1986
- Sturr, Robert D. (1997), Associate Professor, Ph.D., University of Southern California, 1998
- Swick-Higgins, Chelsea R. (2010), Lecturer
- Takayoshi, Pamela D. (2004), Professor, Ph.D., Indiana University, Purdue University Indianapolis, 1995
- Tognazzini, Anthony C. (2023), Assistant Professor, M.F.A., Indiana University Bloomington, 2002
- Trogdon, Robert W. (1997), Professor, Ph.D., University of South Carolina-Columbia, 1996
- Uhrig, Mindy D. (2006), Senior Lecturer, M.A., University of Indiana, Bloomington, 1994
- Van Ittersum, Derek (2008), Professor, Ph.D., University of Illinois-Urbana, 2008
- Vogel, Lauren A. (2001), Associate Professor, M.A., Kent State University, 2005
- Wagoner, Elizabeth A. (2004), Assistant Professor, Ph.D., Kent State University, 2014
- Wetzl, Ana M. (2007), Professor, Ph.D., Indiana University of Pennsylvania, 2011
- Whiteleather, Hagan F. (2012), Assistant Professor, M.F.A., Iowa State University, 2019
- Willey, Nicole L. (1997), Professor, Ph.D., University of Alabama, 2003
- Wing, Catherine (2010), Associate Professor, M.F.A., University of Washington, 2004
- Winkler, Kyle M. (2018), Associate Professor, Ph.D., University of Pittsburgh, 2018
- Winter, James P. (2008), Associate Professor, M.F.A., Kent State University, 2012
- Wollenzier, Michele M. (2005), Associate Lecturer, M.A.T., Kent State University, 2003

Department of Geography Faculty

- Amey, Katherine S. (2009), Professor, Ph.D., Kent State University, 2011
- Bitterman, Patrick J. (2024), Assistant Professor, Ph.D., University Of Iowa, 2017
- Kaplan, David H. (1995), Professor, Ph.D., University of Wisconsin-Madison, 1991
- Lee, Cameron C. (2008), Associate Professor, Ph.D., Kent State University, 2014
- Mapes, Jennifer E. (2012), Assistant Professor, Ph.D., University of Southern California, 2009
- Munro-Stasiuk, Mandy J. (1999), Professor, Ph.D., University of Alberta, 1999
- Parylak, Rebecca P. (2008), Professor, Ph.D., Texas State University, San Marcos, 2010
- Post, Christopher (2008), Professor, Ph.D., University of Kansas, 2006
- Scholl, Andrew E. (2013), Assistant Professor, Ph.D., Penn State University, 2008
- Sheridan, Scott C. (2000), Professor, Ph.D., University of Delaware, 2000
- Smiley, Sarah L. (2010), Professor, Ph.D., University Of Kansas, 2007
- Tyner, James A. (1997), Professor, Ph.D., University of Southern California, 1995
- Ward, Aimee L. (2020), Assistant Professor, Ph.D., University of Otago, 2018
- Widner, Emariana S. (2009), Professor, Ph.D., Texas State University, 2009
- Yin, He (2019), Assistant Professor

Department of History Faculty

- Adams, Kevin J. (2006), Associate Professor, Ph.D., University of California-Berkeley, 2004
- Bindas, Kenneth J. (1995), Professor, Ph.D., University of Toledo, 1988
- Crawford, Matthew J. (2009), Associate Professor, Ph.D., University of California, San Diego, 2009
- Diacon, Todd A. (2012), Professor, Ph.D., University of Wisconsin-Madison, 1987
- Gruenwald, Kim M. (1995), Associate Professor, Ph.D., University of Colorado, Boulder, 1994
- Hartline, Todd A. (1992), Associate Professor, Ph.D., Kent State University, 2006
- Hayashi, Brian M. (2016), Professor, Ph.D., University of California-Los Angeles, 1990
- Heaphy, Leslie A. (1995), Associate Professor, Ph.D., University of Toledo, 1995
- Heiss, Mary A. (1992), Professor, Ph.D., The Ohio State University, 1991
- Keefer, Bradley S. (1987), Associate Professor, Ph.D., Kent State University, 2006
- Li, Hongshan (1993), Professor, Ph.D., University of Missouri, Columbia, 1992
- Menning, Ralph R. (2006), Assistant Professor, Ph.D., Brown University, 1986
- Ostrum, Nicholas (2023), Assistant Professor, Ph.D., Stony Brook University-SUNY, 2017
- Parsons, Elaine (2017), Professor, Ph.D., Johns Hopkins University, 2000
- Scarnecchia, Timothy L. (2007), Professor, Ph.D., University of Michigan, 1994
- Seelye, James E. (2010), Associate Professor, Ph.D., University of Toledo, 2010
- Sergi, Molly M. (1991), Professor, Ph.D., Kent State University, 2015
- Smith, Elizabeth M. (2001), Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2001
- Starkey, Lindsay J. (2012), Associate Professor, Ph.D., University of Wisconsin, Madison, 2012
- Steigmann-Gall, Richard A. (2000), Associate Professor, Ph.D., University of Toronto, 1999
- Strate, Shane (2013), Associate Professor, Ph.D., University of Wisconsin, Madison, 2009
- Wamsley, E. Sue S. (2005), Associate Professor, Ph.D., The Ohio State University, 1998

Department of Mathematical Sciences Faculty

- Adams, Lynn (2007), Senior Lecturer, M.S., University of Akron, 2007
- Al-Niemi, Fearase (2024), University of Akron

- Alexopoulos, John K. (1994), Associate Professor, Ph.D., Kent State University, 1992
- Allen, Aaron C. (2014), Lecturer, B.S., Rensselaer Polytechnic Institute , 2011
- Allouba, Hassan A. (2002), Associate Professor, Ph.D., Cornell University, 1996
- Altobelli, Joseph A. (1997), Associate Professor, Ph.D., The Ohio State University, 1996
- Andaloro, Paul J. (1994), Assistant Professor, Ph.D., The Ohio State University, 1989
- Andriyevskyy, Volodymyr (2000), Professor, Ph.D., Institute of Mathematics of Ukrainian Academy of Sciences, 1986
- Arokiasamy, Daisy Malini (2015), Lecturer, M.S., Kent State University, 2016
- Barb, Cynthia M. (1990), Associate Professor, Ph.D., Kent State University, 1997
- Benjamin, Judy I. (2002), Assistant Professor, Ph.D., Kent State University, 2022
- Chebotar, Mikhail (2006), Professor, Ph.D., Moscow State University, 1999
- Clos, Timothy G. (2020), Assistant Professor, Ph.D., University of Toledo, 2017
- Das, Lovejoy S. (1989), Professor, Ph.D., University of Lucknow, 1979
- Davidson, Morley A. (1996), Associate Professor, Ph.D., University of Michigan, 1995
- de la Cruz Cabrera, Omar (2016), Associate Professor
- Dhaher, Yaser Y. (1989), Professor, Ph.D., Kent State University, 2007
- Dinh, Hai Q. (2004), Professor, Ph.D., Ohio University, 2003
- Dunlap, Laurie A. (2021), Associate Professor, Ph.D., University of Cincinnati, 2005
- Fesli, Emily E. (2021), Lecturer, M.S., Cleveland State University, 2021
- Gordon, Peter (2017), Associate Professor, Ph.D., Moscow University, 1999
- He, Min (1995), Professor, Ph.D., Southern Illinois University-Carbondale, 1994
- Hovhannisyan, Gro (2003), Professor, Ph.D., Yerevan State University, 1990
- Jahangiri, Jay M. (1994), Professor, Ph.D., University of York, 1986
- Jiafeng, Jin (2014), Lecturer, Ph.D., Kent State University, 2024
- Kasturiarachi, Aloysius B. (1995), Associate Professor, Ph.D., University of North Carolina-Charlotte, 1993
- Khan, Mohammad K. (1981), Professor, Ph.D., Case Western Reserve University, 1980
- Kover, Janice S. (1996), Associate Professor, Ph.D., Kent State University, 2001
- Kracht, Darci L. (1984), Professor, Ph.D., Kent State University, 2011
- Kratky, Joseph J. (2005), Associate Lecturer, M.S., Kent State University, 2011
- Laux, Tracy A. (1990), Senior Lecturer, B.S., Kent State University, 1990
- Law, Chelsea C. (2021), Associate Lecturer, M.S., Clemson University, 2012
- Lewis, Mark L. (1996), Professor, Ph.D., University of Wisconsin-Madison, 1995
- Li, Jing (2003), Associate Professor, Ph.D., New York University, 2002
- Li, Jun (2013), Associate Professor, Ph.D., Iowa State University, 2013
- Lochmueller, Kerri K. (2005), Associate Lecturer, M.S., Youngstown State University, 2008
- Meinke, Ashley M. (2009), Lecturer, M.S., Kent State University, 2011
- Miller, Robert L. (2021), Lecturer, M.S., Miami University, 2006
- Mocioalca, Oana (2004), Associate Professor, Ph.D., University of Florida, 2002
- Mulqueeny, Ellen S. (2005), Professor, M.S., Cleveland State University, 1993
- Najafi, Mahmoud (1995), Professor, Ph.D., Wichita State University, 1994
- Nazarov, Fedor L. (2011), Professor, M.S., Youngstown State University, 1990
- Neal, Todd A. (2010), Assistant Professor, Ph.D., University of Alabama, 2016
- Ngunkeng, Grace (2021), Associate Professor, Ph.D., Bowling Green State University, 2013
- Osikiewicz, Beth-Allyn (1994), Associate Professor, Ph.D., Kent State University, 2000
- Osikiewicz, Jeffrey A. (1990), Associate Professor, Ph.D., Kent State University, 1997
- Palffy-Muhoray, Peter (1987), Professor
- Palocyi, Frank J. (1991), Associate Lecturer, M.S., Youngstown State University, 1990
- Perera, Vicumpriya S. (1998), Associate Professor, Ph.D., Purdue University, 1993
- Pham, Tuyet D. (1988), Senior Lecturer, M.S., University of Akron, 1988
- Rajaram, Rajeev (2008), Professor, Ph.D., Iowa State University, 2005
- Reed, Beverly M. (1986), Professor, Ph.D., Kent State University, 2007
- Reichel, Lothar (1991), Professor, Ph.D., University of Stockholm, 1982
- Ritchey, Nathan P. (2016), Professor
- Ruff, Oliver (2009), Associate Professor, Ph.D., University of Oregon, 2002
- Ryabogin, Dmitry (2007), Professor, Ph.D., University of Jerusalem, 2001
- Sarver, Michael W. (2021), Associate Professor, Ph.D., Bowling Green State University, 2006
- Schmalzried, Robert J. (2017), Associate Lecturer, M.S.Ed., Youngstown State University, 2004
- Smithies, Laura A. (1997), Associate Professor, Ph.D., University of Utah, 1997
- Soprunova, Evgenia (2007), Professor, Ph.D., University of Toronto, 2002
- Spalsbury, Angela S. (2018), Associate Professor, Ph.D., Kent State University, 1996
- Stadden, Jared M. (2013), Associate Lecturer, M.B.A., Kent State University, 2012
- Taha, Nader F. (1990), Senior Lecturer, M.S., Tennessee State University, 1989
- Trehan, Dawn M. (2019), Assistant Professor, M.S., Case Western Reserve, 1996
- Tsai, Tsung-Heng (2019), Associate Professor, Ph.D., Virginia Tech, 2014
- Vezvaei, Mahbobeh (1983), Professor, Ph.D., Case Western Reserve University, 1987
- Vorhauer, Ulrike M. (2001), Associate Professor, Ph.D., University of Ulm, 1996

- Wakita, Hideki (1998), Senior Lecturer, M.A., Kent State University, 2002
- White, Donald L. (1989), Professor, Ph.D., Yale University, 1987
- Wright, Brian M. (1998), Associate Professor, Ph.D., Kent State University, 2007
- Yeon, Hyemin (2024), Assistant Professor, Ph.D., Iowa State University, 2023
- Yu, Gang (2006), Associate Professor, Ed.D., University of Georgia, 2000
- Zheng, Xiaoyu (2006), Professor, Ph.D., University of North Carolina-Chapel Hill, 2006
- Zvavitch, Artem (2004), Professor, Ph.D., Weizmann Institute of Science, 2002

Department of Modern and Classical Language Studies Faculty

- Baer, Brian J. (1996), Professor, Ph.D., Yale University, 1996
- Bilali, Loubna (2008), Associate Professor, Ph.D., Kent State University, 2018
- Brett-Paez, Maria C. (2009), Associate Lecturer, M.A., Kent State Unviersity, 2013
- Carduner, Jessie (1998), Associate Professor, Ph.D., University of Pittsburgh, 1998
- Carl, Michael (2018), Professor, Ph.D., Kent State University
- Castaneda-Vise, Daniel A. (2007), Professor, Ph.D., West Virginia University, 2007
- Chism, Rebecca L. (1999), Associate Professor, Ph.D., Florida State University, 2000
- De Julio, MaryAnn (1986), Professor, Ph.D., University of Iowa, 1979
- Dunne, Keiran J. (2000), Professor, Ph.D., Pennsylvania State University, 2000
- Dzero, Irina (2010), Assistant Professor, Yale University, 2009
- Ehrman, Radd K. (1982), Professor, Ph.D., University of Illinois-Chicago, 1982
- Gallagher, Patrick L. (2001), Associate Professor, Ph.D., University of Iowa, 1997
- Gee, Jacqueline L. (2009), Lecturer, M.Ed., Kent State University, 2016
- Hall, Jennifer E. (2008), Lecturer, M.Ed., University of Akron, 2015
- Harvey, Brian K. (1999), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1998
- Harvey, Sarah M. (2001), Professor, Ph.D., University of Michigan, Ann Arbor, 1999
- Hermosilla, Luis G. (1994), Associate Professor, Ph.D., The Ohio State University, 1994
- Kish-Leland, Farah (2009), Lecturer, B.A., Kent State University, 2012
- Koby, Geoffrey S. (1994), Professor, Ph.D., University of Wisconsin, Madison, 1992
- Lacruz, Isabel (1998), Professor, Ph.D., Kent State University, 2005
- Larson, Jennifer L. (1992), Professor, Ph.D., University of Wisconsin-Madison, 1992
- Lemley, Lauren (2013), Lecturer, M.Ed., Kent State University, 2021
- Mirkin-McGee, Lori L. (1995), Associate Lecturer, M.A., Kent State Unviersity, 1997
- Nehring, Lawrence J. (2008), Associate Lecturer, M.S., University of Rochester, 1991
- Riclet, Aurelien (2022), Lecturer
- Rivera, Olga I. (1999), Professor, Ph.D., The Ohio State University, 1998
- Roberts, Trask P. (2022), Assistant Professor, Ph.D., University Of Pennsylvania, 2022
- Romero-Gonzalez, Mariana (2009), Associate Lecturer, M.A., Kent State University, 2012
- Rossoll, Hildegard M. (1988), Associate Professor, Ph.D., Washington University in St. Louis, 1991
- Sato, Paula K. (2009), Associate Professor, Ph.D., University Of Virginia-Main Campus, 2008
- Shiyab, Said M. (2014), Professor
- Shuman, Mason P. (2005), Associate Lecturer, M.A., Kent State University, 2006
- Siciarz, Stephanie J. (2012), Associate Lecturer, M.A., Johns Hopkins University, 2007
- Song, Yumei (2018), Assistant Professor, Kyoto University, 2017
- Stahler, Bethany C. (2009), Lecturer, M.Ed., Kent State University, 2020
- Stasiowski, Kristin (2013), Assistant Professor
- Talentino, Kimberly L. (2007), Associate Lecturer, M.A., Kent State University, 1991
- Tanaka, Eriko (2010), Associate Lecturer, M.A., Bowling Green State University, 2001
- Trzeciak Huss, Joanna (2006), Professor, Ph.D., University Of Chicago
- Vickery, Steve C. (1997), Lecturer, B.A., Kent State University, 1998
- Villa-Ignacio, Teresa (2022), Associate Professor, Ph.D., Brown University, 2010
- Washbourne, Richard K. (2003), Professor, Ph.D., University of Massachusetts-Amherst, 2002
- Yu, Hui (2012), Associate Lecturer
- Zaldivar, Maria E. (2007), Professor, Ph.D., Pennsylvania State University, 1991

Department of Philosophy Faculty

- Barnbaum, Deborah R. (1997), Professor, Ph.D., University of Massachusetts-Amherst, 1996
- Byron, Michael B. (1997), Professor, Ph.D., University of Notre Dame, 1996
- Coate, Matthew B. (2015), Assistant Professor, Ph.D., Stony Brook University, 2015
- Garchar, Kimberly K. (2008), Associate Professor, Ph.D., University of Oregon, 2006
- Palmer, Daniel E. (2001), Associate Professor, Ph.D., Purdue University, 2000
- Pereplyotchik, David (2013), Associate Professor, Ph.D., City University of New York Graduate Center, 2012
- Ryan, Frank X. (1997), Associate Professor, Ph.D., Emory University, 1996
- Smith, Deborah C. (1997), Professor, Ph.D., University of Washington, 2003
- Zavota, Gina (2003), Professor, Ph.D., State University of New York-Stony Brook, 2003

Department of Physics Faculty

- Antocheviz Dexheimer Strickland, Veronica A. (2013), Associate Professor, Ph.D., Goethe Universitat, 2009
- Balci, Hamza (2009), Professor, Ph.D., University of Maryland, 2004
- Bos, Philip J. (1994), Professor, Ph.D., Kent State University, 1978

- Driscoll, Donald D. (2007), Associate Professor, Ph.D., Case Western Reserve University, 2004
- Dzero, Maxim (2010), Professor
- Ellman, Brett D. (1997), Associate Professor, Ph.D., University of Chicago, 1993
- Fregoso, Benjamin (2017), Associate Professor, University of Illinois-Urbana, 2010
- Gleeson, James T. (1997), Professor, Ph.D., Kent State University, 1991
- Jakli, Antal I. (1989), Professor, Ph.D., University Of Budapest, 1988
- Katramatou, A. Mina T. (1996), Professor, Ph.D., American University, 1988
- Keane, Declan F. (1988), Professor, Ph.D., University College of Dublin
- Lavrentovich, Oleg D. (1992), Trustees Research Professor, Kiev University, 1990
- Li, Ran (2007), Associate Professor, Ph.D., Southern Illinois University, Carbondale, 2007
- Mann, Elizabeth K. (1998), Professor, Ph.D., University of Paris, 1992
- Minnick, Stephen A. (2003), Professor, Ph.D., Pennsylvania State University, 2003
- Petratos, Gerassimos G. (1994), Professor, Ph.D., American University, 1988
- Polak, Robert D. (2022), Associate Professor
- Portman, John J. (2003), Professor, Ph.D., University of Illinois-Urbana, 2000
- Quader, Khandker F. (1990), Professor, Ph.D., State University of New York-Stony Brook, 1983
- Schmidt, Thorsten-Lars (2019), Associate Professor
- Schroeder, Almut (2001), Associate Professor
- Selinger, Jonathan V. (2005), Professor, Ph.D., Harvard College, 1989
- Selinger, Robin L. (2005), Professor, Ph.D., Harvard College, 1989
- Sprunt, Samuel N. (1995), Professor, Ph.D., Massachusetts Institute of Technology, 1989
- Vanfossen, Joseph A. (2004), Associate Professor, Ph.D., Kent State University, 2017
- Yang, Deng-Ke (1989), Professor, Ph.D., University of Hawaii at Manoa, 1989
- Yokoyama, Hiroshi (2009), Professor, Ph.D., Tokyo International University, 1987

Department of Political Science Faculty

- Ayres, William R. (2022), Professor
- Banks, Christopher P. (2006), Professor, Ph.D., University of Virginia, 1995
- Carbonell, Joel R. (2007), Associate Professor, Ph.D., University of California, Riverside, 2007
- Cassell, Mark K. (1998), Professor, Ph.D., University of Wisconsin-Madison, 1998
- Chand, Daniel E. (2016), Associate Professor
- Claassen, Ryan L. (2005), Professor, Ph.D., University of California-Davis, 2005
- Dzordzormenyoh, Michael K. (2022), Assistant Professor, Ph.D., University Of South Dakota, 2019
- Ensley, Michael J. (2009), Professor, Ph.D., Duke University, 2002
- Hawes, Daniel P. (2008), Professor, Ph.D., Texas A&M University, Main Campus, 2008
- McLaughlin, Danielle (2022), Assistant Professor, Ph.D., University of Cincinnati, 2021
- Miller, Patrick R. (2023), Associate Professor, Ph.D., University of North Carolina-Chapel Hill, 2010
- Molina, Anthony D. (2013), Associate Professor, Ph.D., Cleveland State University, 2004
- Paar-Jakli, Gabriella (1991), Associate Professor, Ph.D., Kent State University, 2010
- Schmidt, Sarah (2015), Assistant Professor, Ph.D., Kent State University, 2023

Department of Psychological Sciences Faculty

- Black, Sarah R. (2023), Assistant Professor, Ph.D., Stony Brook University, 2015
- Blasiman, Rachael N. (2010), Associate Professor, Ph.D., Case Western Reserve University, 2010
- Casto, Kathleen V. (2023), Assistant Professor, Ph.D., Emory University, 2016
- Ciesla, Jeffrey (2007), Associate Professor, Ph.D., University at Albany-SUNY, 2004
- Ciesla, Shannon N. (2007), Associate Professor, Ph.D., Kent State University, 2013
- Coifman, Karin G. (2010), Professor, Ph.D., Columbia University, 2008
- Cremeans-Smith, Julie K. (1998), Professor, Ph.D., Kent State University, 2004
- Delahanty, Douglas L. (1997), Professor, Ph.D., University of Pittsburgh, 1997
- Evey, Julie A. (2018), Associate Professor, Ph.D., Kent State University, 1998
- Flessner, Christopher A. (2011), Professor, Ph.D., University of Wisconsin, Milwaukee, 2008
- Folk, Jocelyn R. (1999), Associate Professor, Ph.D., University of South Carolina, Columbia, 1997
- Frey, Katelyn T. (2023), Assistant Professor, M.A., University of Akron, 2021
- Galati, Ashley R. (2013), Associate Professor, Ph.D., University of Kentucky, 2013
- Gere, Judith (2013), Associate Professor
- Gilman, Tracy L. (2020), Assistant Professor, Ph.D., Penn State University, 2013
- Gunstad, John J. (2005), Professor, Ph.D., Ohio University, 2002
- Hamrick, Phillip M. (2013), Associate Professor, Ph.D., Georgetown University, 2013
- Himmelstein, Mary S. (2019), Assistant Professor, Ph.D., Rutgers University, 2016
- Hughes, Joel W. (2003), Professor, Ph.D., The Ohio State University, 2001
- Jones, Bryan A. (2010), Associate Professor, Ph.D., State University of New York-Stony Brook, 2007
- Joynes, Robin L. (2000), Professor, Ph.D., Texas A&M University-Main Campus, 1998
- Keiller, Scott W. (1989), Associate Professor, Ph.D., Kent State University, 1997
- Larwin, David A. (1985), Senior Lecturer, M.A., Kent State University, 1989
- Lechner, William (2017), Associate Professor, Ph.D., Oklahoma State University, 2015

- Miller, Eric D. (1999), Associate Professor, Ph.D., University of Iowa, 1999
- Neal-Barnett, Angela M. (1989), Professor, Ph.D., DePaul University, 1988
- Sato, Amy F. (2012), Professor, Ph.D., University of Wisconsin-Milwaukee, 2009
- Sciartelli, Sharon M. (2007), Professor, Ph.D., Kent State University, 1995
- Sefcek, Jon A. (2011), Associate Professor, Ph.D., University of Arizona, 2007
- Shepherd, James B. (1986), Assistant Professor, Ph.D., Kent State University, 1996
- Spitznagel, Mary Beth (2009), Professor, Ph.D., Ohio University, 2003
- Tabak, Melanie A. (2003), Professor, Ph.D., Kent State University, 2008
- Taber, Jennifer M. (2016), Associate Professor
- Thompson, Clarissa A. (2014), Professor, Ph.D., The Ohio State University, 2008
- Tomich, Patricia L. (1994), Professor, Ph.D., Kent State University, 2000
- Updegraff, Alanna S. (2012), Professor, Ph.D., University of California-Los Angeles, 2003
- Updegraff, John A. (2004), Professor, Ph.D., University of California-Los Angeles, 2002
- Was, Christopher A. (2005), Professor, Ph.D., University of Utah, 2005
- Weigold, Arne (2019), Professor, Ph.D., Texas Tech University, 2008
- Williams, Trevor F. (2024), Assistant Professor, Ph.D., University at Buffalo-SUNY, 2020
- Zaragoza, Maria S. (1984), Professor, Ph.D., Johns Hopkins University, 1984

Department of Sociology and Criminology Faculty

- Adams, Richard E. (2007), Professor, Ph.D., Indiana University-Bloomington, 1989
- Bloch, Katrina R. (2008), Professor, Ph.D., North Carolina State University, 2009
- Campbell, Beth A. (2005), Professor, Ph.D., University of Akron, 2018
- Catto, Rebecca (2016), Associate Professor
- Chopko, Brian A. (2007), Professor, Ph.D., University of Akron, 2007
- Dum, Christopher (2014), Associate Professor, Ph.D., University at Albany-SUNY, 2014
- Fisk, Susan R. (2015), Associate Professor, Ph.D., Stanford University, 2015
- Foster, Michelle L. (2010), Associate Professor, M.A., Kent State University, 2011
- Gallagher, Mary N. (2001), Associate Professor, Ph.D., Kent State University, 2012
- Gibson, Gregory C. (2012), Professor, Ph.D., Purdue University, 2008
- Goar, Carla D. , Professor
- Graff, David R. (1994), Senior Lecturer, M.S., Mercyhurst College, 1984
- Haas, Anne E. (1996), Professor, Ph.D., The Ohio State University, 2005
- Jones, Adrian M. (2001), Associate Professor, Ph.D., Kent State University, 2012
- Kalkhoff, William W. (2002), Professor, Ph.D., University of Iowa, 2002
- Kunkle, Susan M. (2004), Professor, Ph.D., Kent State University, 2011
- Leveto, Jessica A. (2005), Associate Professor, Ph.D., Kent State University, 2012
- Licuanan-Galela, Maria N. (1995), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 1995
- Lowery, Allen (2014), Assistant Professor
- Marcussen, Kristen A. (2000), Professor, Ph.D., University of Iowa, 2000
- Mastriacovo, Paul A. (1982), Senior Lecturer, J.D., University of Akron, 1978
- Nader, Elias (2021), Assistant Professor, Ph.D., University Of Massachusetts-Lowell, 2019
- Nasheri, Hedieh (1990), Professor, Ph.D., Case Western Reserve, 1992
- Pai, Manacy (2008), Associate Professor, Ph.D., Florida State University, 2008
- Pollock, Joshua W. (2014), Associate Professor, Ph.D., University of Akron, 2014
- Ray, Kasey (2015), Associate Professor, Ph.D., University of Akron, 2015
- Robison, Kristenne M. (2019), Assistant Professor, Ph.D., Syracuse University, 2010
- Rose, Lydia (2010), Associate Professor, Ph.D., Purdue University, 1997
- Rose, Norman R. (2007), Associate Professor
- Roxburgh, Susan J. (1994), Professor, Ph.D., University of Toronto, 2020
- Schiller, J. Zach (2006), Assistant Professor, Ph.D., University of California-Davis, 2005
- Shura, Robin A. (2018), Associate Professor, Ph.D., Case Western Reserve, 2010
- Solomon, Starr (2018), Associate Professor, Ph.D., University of Nebraska Omaha, 2018
- Stacey, Clare L. (2006), Associate Professor, Ph.D., University of California-Davis, 2004
- Taylor, Tiffany L. (2008), Professor, Ph.D., North Carolina State University at Raleigh, 2008
- Tontodonato, Pamela (1987), Associate Professor, Ph.D., University of Pennsylvania, 1986
- Vander Horst, Anthony (2011), Professor, The Ohio State University, 2012
- Warren, Deirdre M. (2009), Associate Professor, Ph.D., Sam Houston State University, 2009
- Wilson, Mary G. (1998), Professor, Ph.D., Kent State University, 2010

School of Multidisciplinary Social Sciences and Humanities Faculty

- Barnes, Andrew S. (2001), Associate Professor, Ph.D., Princeton University, 1999
- Bartell, Denise S. (2022), Professor
- Holt, Suzanne L. (1984), Professor, Ph.D., Kent State University, 1994
- Kim, Jung-Yeup (2008), Associate Professor, Ph.D., University of Hawaii-Manoa, 2008
- Mazzei, Julie M. (2004), Associate Professor, Ph.D., American University, 2006
- Odell-Scott, David (1990), Professor, Ph.D., Vanderbilt University, 1989
- Paar Conroy, Amanda M. (2013), Associate Professor, J.D., Cleveland State University, 2005
- Peterson, Mary S. (2016), Associate Professor, J.D., Bowling Green State University, 1987

- Stacher, Joshua A. (2008), Professor
- Vachon, Lauren (2012), Associate Professor, M.F.A., Kent State University, 2013

School of Peace and Conflict Studies Faculty

- Arai, Tatsushi (2019), Associate Professor, Ph.D., George Mason University, 2005
- Bleak, Jacquelyn K. (2014), Associate Lecturer, M.S., George Mason University, 2012
- Cooper, Neil (2019), Professor
- Cunningham, Karen D. (1990), Professor, J.D., Washington and Lee University, 1986
- Hancock, Landon E. (2006), Professor, Ph.D., George Mason University, 2003
- Hsiao, Elaine C. (2021), Assistant Professor
- Koopman, Sara (2017), Associate Professor, Ph.D., University of British Columbia, 2012
- Merryman, Molly B. (1996), Associate Professor, Ph.D., Bowling Green State University, 2007
- Nickels, Ashley E. (2016), Associate Professor, Ph.D., Rutgers University, 2016
- Solomon, Johanna A. (2017), Assistant Professor, Ph.D., University of California, Irvine, 2015

College of Arts and Sciences

Biotechnology (BTEC)

BTEC 10210 INTRODUCTION TO BIOTECHNOLOGY 3 Credit Hours
Basic principles and applications of modern biotechnology, including recombinant DNA technology, microbial technology, fermentation, genetic engineering, plant and animal tissue culture and medical biotechnology. Lecture three hours weekly.
Prerequisite: BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BTEC 40191 SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY 1 Credit Hour
Recent developments in biotechnology explored through the presentation and discussion of research articles and reviews in the biotechnology literature.
Prerequisite: BTEC 10210; BSCI 30140, 30171, 30156; CHEM 30284.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

BTEC 40192 INTERNSHIP IN BIOTECHNOLOGY (ELR) 2-9 Credit Hours
(Repeatable for credit)Work experience in a biotechnology laboratory. Registration requires approval of program director and is dependent on availability of internship sites. Written report of activities required.
Prerequisite: Biotechnology major.
Schedule Type: Practical Experience
Contact Hours: 2-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

BTEC 40196 INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR) 2-9 Credit Hours
(Repeatable for credit)Research experience in biotechnology. Registration requires approval of program director and research director. Written report required.
Prerequisite: Biotechnology major.
Schedule Type: Individual Investigation
Contact Hours: 2-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

BTEC 40210 CASE STUDIES IN BIOTECHNOLOGY (WIC) 3 Credit Hours
Case studies used to explore biotechnology practice and the application of various technologies in industry and medicine. Emphasis placed on developing problem solving, information gathering, inductive reasoning and technical communication skills.
Prerequisite: BSCI 30140 and BSCI 30156 and BSCI 30171 and BSCI 40158 and BTEC 10210 and CHEM 30284.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

BTEC 40220 BIOINFORMATICS 3 Credit Hours
(Cross-listed with BSCI 40220, BSCI 50220 and BSCI 70220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.
Prerequisite: BSCI 30140 and BSCI 30156 and BSCI 40158.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BTEC 40463 MEDICAL BIOTECHNOLOGY 3 Credit Hours
(Cross-listed with BSCI 40463, BSCI 50463 and BSCI 70463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Data Science (DATA)

DATA 69099 CAPSTONE PROJECT 3,6 Credit Hours
(Repeatable for credit) The course is an integrative experience that brings together all components of Master's nonthesis graduate program in an applied, hands-on real-world setting. The course is 3 credit hours when taken once in conjunction with DATA 69192. However, DATA 69192 can be substituted by additional 3 credit hours of DATA 69099 making capstone project 6 credit hours (taken twice).
Prerequisite: Graduate standing and special approval.
Schedule Type: Project or Capstone
Contact Hours: 0 lecture, 0 lab, 3-6 other
Grade Mode: Standard Letter-IP

DATA 69192 GRADUATE INTERNSHIP 1-3 Credit Hours
(Repeatable for credit) Supervised experience in the Master program in Data Science. Since this work will be outside the department, a report and a final presentation will be required.
Prerequisite: Graduate Standing and special approval.
Schedule Type: Practical Experience
Contact Hours: 0 lecture, 0 lab, 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

DATA 69199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

DATA 69299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: DATA 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Materials Science (MTSC)

MTSC 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a single semester or distributed over two semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MTSC 60299 THESIS II 2 Credit Hours
Thesis students must continually register each semester until all degree requirements are met.
Prerequisite: MTSC 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MTSC 60498 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward meeting degree requirements with department approval. Prerequisite: Graduate standing; and special approval
Schedule Type: Research
Contact Hours: 3-45 other
Grade Mode: Satisfactory/Unsatisfactory

MTSC 62241 STATISTICAL MECHANICS OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 72241) Lectures on order, disorder and phase transitions in soft matter. Materials include magnets, gases, liquids, crystalline and amorphous solids and liquid crystals. Theoretical concepts include order parameters to describe broken symmetry, mean-field theory, Landau theory for uniform and nonuniform systems, elasticity of orientational order and topological defects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 62242 CHARACTERIZATION OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 72242) Course provides students with the fundamentals of the most commonly used techniques for the study and understanding of soft matter at the macroscopic and microscopic level, especially at the nanometer scale. The advancement in basic soft matter research is generally driven by the experimental techniques available and the interdisciplinary knowledge among condensed matter physicists, biologists, synthetic and physical chemists, as well as chemical and polymer engineers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 62245 FUNDAMENTALS OF LIQUID CRYSTAL SCIENCE 4 Credit Hours
(Slashed with MTSC 72245) Basic liquid crystals structures and their main physical properties, such as visco-elastic, electric, magnetic and optical properties, except the nature of their phase transitions. Also discussed are their interactions with surfaces and the structural defects that they can form.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MTSC 62248 LIQUID CRYSTAL OPTICS AND PHOTONICS 4 Credit Hours
(Slashed with MTSC 72248) Optics of cholesterics, liquid crystalline photonic bandgap materials, nonlinear optics of liquid crystals; optomechancial effects in liquid crystal elastomers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MTSC 62249 LABVIEW FOR DATA ACQUISITION AND INSTRUMENT CONTROL 1 Credit Hour
(Slashed with MTSC 72249) Introduction to laboratory data acquisition and instrument control using LabVIEW software.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

MTSC 62335 ADVANCED LIQUID CRYSTALLINE AND POLYMERIC MATERIALS 4 Credit Hours
(Slashed with MTSC 72335) Course introduce students to recent advances in liquid crystals and polymers with emphasis on structure-property relationships, physical and optical properties, and their applications. Liquid crystals and polymers are soft matters of two important disciplines of science and technology. They both have a similar history and are rich in physical and optical properties useful for fundamental and applied research.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 62450 LIQUID CRYSTAL OPTICS I: THEORY 2 Credit Hours
(Slashed with MTSC 72450) Provides an introduction to optical phenomena with an emphasis on liquid crystals, from geometrical optics to Maxwell's equations. Basic principles are used to analyze and solve optics problems arising in liquid crystal engineering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 62452 LIQUID CRYSTAL OPTICS II: OPTICAL SYSTEMS 2 Credit Hours
(Slashed with MTSC 72452) Focuses on the study of practical optical systems with an emphasis on liquid crystals. Students study the principles of optical system design starting with the understanding of basic optical components such as lenses, mirrors, filters and polarizers. Practical concepts and techniques for the implementation of optical instruments and displays are mastered through lectures and lab work.
Prerequisite: MTSC 62450; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 62460 LIQUID CRYSTAL MATERIALS SCIENCE 2 Credit Hours
(Slashed with MTSC 72460) Familiarizes students with the basic, underlying chemical concepts in liquid crystal science. These concepts include molecular structures and properties of liquid crystal molecules, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds including heterocycles and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, and chirality. Other aspects covered in later sections of this course relate to auxiliary and novel materials used in liquid crystal devices such as polymers, carbon nanomaterials, metal and semiconductor nanoparticles and photo-responsive organic materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 62462 LIQUID CRYSTAL SCIENCE: PHYSICAL PROPERTIES 3 Credit Hours
(Slashed with MTSC 72462) Basics of liquid crystal defects and their behavior in magnetic and electric fields.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 62640 LIQUID CRYSTAL, POLYMER AND COLLOID COMPOSITES 4 Credit Hours
(Slashed with MTSC 72640) Interdisciplinary science of systems consisting of liquid crystal, polymer and colloid. Statistical physics of composite systems, mixing free energy, phase separation principle, phase diagrams and phase separation dynamics. States, structures and free energies of liquid crystal, polymer and colloidal systems. Polymer dispersed liquid crystals (PDLC), polymer stabilized liquid crystals (PSCT) and their applications. Laboratory experiments on composite systems and fabrication of PDLC and PSCT light shutters.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 62643 ELECTRO-OPTICS OF LIQUID CRYSTALS: MODELING AND DEVICE DESIGN 3 Credit Hours
(Slashed with MTSC 72643) Apply knowledge of liquid crystals and optics to the design of liquid crystal electro-optical devices. Emphasis is on modeling of devices and the use of that modeling to optimize device characteristics. Several particular device designs are considered to familiarize students with the state of the art in electro-optical applications of liquid crystals and to prepare them to advance the art in future designs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 62647 STRUCTURED FLUIDS 3 Credit Hours
(Slashed with MTSC 72647) The basics of fluids having internal structures, such as long range orientational order and or one and two dimensional positional order. Materials include thermotropic smetic, lamellar lyotropic and columnar liquid crystals, soap films, fluid foams, fluid fibers and Langmuir monolayers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 62650 COMPUTATIONAL MATERIALS SCIENCE 3 Credit Hours
(Slashed with MTSC 72650) Materials modeling at the classical (i.e. non-quantum) level. Monte Carlo methods; molecular dynamics simulation; mesoscale models; numerical methods; case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 62651 NANOBIOTECHNOLOGY 3 Credit Hours
(Slashed with MTSC 72651) Course presents the concepts, principles and the state-of-the-arts of nanotechnologies and their applications in biological and biomedical science and engineering. Focus is on the fundamental physical principles and engineering technologies of device miniaturization and system integration for bioapplications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 63000 PHYSICS OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 73000) Students learn the basics of physics of soft matter, including polymers, liquid crystals, colloids, reduced dimensionality fluids and active matter. Course provides students a coherent and deep understanding of the most important concepts and scientific results of soft matter, such as nano-, and microscopic structures, mechanical, electrical and optical properties.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 63010 LYOTROPIC LIQUID CRYSTALS 3 Credit Hours
(Slashed with MTSC 73010) Course covers the fundamentals and the chemical aspects of different types of lyotropic liquid crystals (organic, inorganic, composites) leading to a discussion of phase diagrams and a comprehensive discussion of the characterization techniques of lyotropic liquid crystals. Focuses on some key aspects related to the use of lyotropic liquid crystals in pharmacological and medical applications such as drug delivery and the use of lyotropic liquid crystals as templates or 'reactors' for nanoscale synthesis and mesoscale manufacturing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 63015 CHEMISTRY OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 73015) Course familiarizes students with the basic underlying chemical concepts in soft matter science, focusing on the most important chemical building blocks in soft matter, IUPAC rules for naming them, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds, including heterocyclic and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, structure-property relationships and all levels of chirality (molecular to supramolecular). Other topics focus on specific types of materials explored in soft matter such as polymers, liquid crystals, carbon nanomaterials, metal and semiconductor nanoparticles and light-responsive organic materials, gels, foams and colloids.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 63020 APPLICATIONS OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 73020) Course covers the applications of soft matter that include electro-optical, sensor and biological applications. Recent developments related to emerging applications are covered.
Prerequisite: MTSC 63000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 63025 ACTIVE MATTER 2 Credit Hours
(Slashed with MTSC 73025) The course is designed to teach the science of active matter which embraces a broad range of dynamic out-of-equilibrium systems comprised of interacting units that are capable of converting stored energy or the energy of the environment into systematic motion. Examples include colloids powered by an electric field, swimming bacteria and living liquid crystals. Theoretical models considered are Vicsek model and Toner-Tu model. The course will provide a coherent picture of the dynamic out-of-equilibrium phenomena.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 63100 EMERGING DISPLAY TECHNOLOGIES 2 Credit Hours
(Slashed with MTSC 73100) This course focuses on the fundamentals and applications of latest display technologies in transmissive, reflective and emissive displays as well as free-space display technologies. This course is aimed for students who wish to learn more, not limited to liquid crystal devices and applications, but also wide ranges of current and future display technologies, and will intergrate among materials science, physics and engineering with display technologies ranging from direct-view, flexible, wearable and free-space displays.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 64491 SEMINAR: LIQUID CRYSTALS 1 Credit Hour
(Repeatable for credit) (Slashed with MTSC 74491) Discussion of current literature or original research in liquid crystals. Participation by students, faculty and guests.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

MTSC 64495 SPECIAL TOPICS IN CHEMICAL PHYSICS 1-3 Credit Hours
(Repeatable for credit)(Slashed with MTSC 74495) Topic varies per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MTSC 65006 LIQUID CRYSTAL DEVICE PROTOTYPING 2 Credit Hours
(Slashed with MTSC 75006) Liquid crystal device prototyping; introduction to liquid crystal device manufacturing methods.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 65008 LIQUID CRYSTAL DEVICE CONSTRUCTION 1 Credit Hour
(Slashed with MTSC 75008) Students acquire the knowledge and experience in basic techniques and procedures for the construction of liquid crystal cells. Students are prepared for successive lab courses and the capstone project based on the clean-room techniques, ITO glass handling, film deposition, surface alignment treatment and cell assembly experienced.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MTSC 65032 SCIENTIFIC COMMUNICATION 1 Credit Hour
(Slashed with MTSC 75032) Course aims to help graduate students in STEM fields improve their skills in scientific writing and presentations. Activities include a mock panel review of scientific proposals. Students produce a final paper that could serve as the introductory chapter of a thesis or dissertation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MTSC 72241 STATISTICAL MECHANICS OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 62241) Lectures on order, disorder and phase transitions in soft matter. Materials include magnets, gases, liquids, crystalline and amorphous solids and liquid crystals. Theoretical concepts include order parameters to describe broken symmetry, mean-field theory, Landau theory for uniform and nonuniform systems, elasticity of orientational order and topological defects.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 72242 CHARACTERIZATION OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 62242) Course provides students with the fundamentals of the most commonly used techniques for the study and understanding of soft matter at the macroscopic and microscopic level, especially at the nanometer scale. The advancement in basic soft matter research is generally driven by the experimental techniques available and the interdisciplinary knowledge among condensed matter physicists, biologists, synthetic and physical chemists, as well as chemical and polymer engineers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 72245 FUNDAMENTALS OF LIQUID CRYSTAL SCIENCE 4 Credit Hours
(Slashed with MTSC 62245) Basic liquid crystals structures and their main physical properties, such as visco-elastic, electric, magnetic and optical properties, except the nature of their phase transitions. Also discussed are their interactions with surfaces and the structural defects that they can form.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MTSC 72248 LIQUID CRYSTAL OPTICS AND PHOTONICS 4 Credit Hours
(Slashed with MTSC 62248) Optics of cholesterics, liquid crystalline photonic bandgap materials, nonlinear optics of liquid crystals; optomechancial effects in liquid crystal elastomers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MTSC 72249 LABVIEW FOR DATA ACQUISITION AND INSTRUMENT CONTROL 1 Credit Hour
(Slashed with MTSC 62249) Introduction to laboratory data acquisition and instrument control using LabVIEW software.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

MTSC 72335 ADVANCED LIQUID CRYSTALLINE AND POLYMERIC MATERIALS 4 Credit Hours
(Slashed with MTSC 62335) Course introduce students to recent advances in liquid crystals and polymers with emphasis on structure-property relationships, physical and optical properties, and their applications. Liquid crystals and polymers are soft matters of two important disciplines of science and technology. They both have a similar history and are rich in physical and optical properties useful for fundamental and applied research.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 72450 LIQUID CRYSTAL OPTICS I: THEORY 2 Credit Hours
(Slashed with MTSC 62450) Provides an introduction to optical phenomena with an emphasis on liquid crystals, from geometrical optics to Maxwell's equations. Basic principles are used to analyze and solve optics problems arising in liquid crystal engineering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 72452 LIQUID CRYSTAL OPTICS II: OPTICAL SYSTEMS 2 Credit Hours
(Slashed with MTSC 62452) Focuses on the study of practical optical systems with an emphasis on liquid crystals. Students study the principles of optical system design starting with the understanding of basic optical components such as lenses, mirrors, filters and polarizers. Practical concepts and techniques for the implementation of optical instruments and displays are mastered through lectures and lab work.
Prerequisite: MTSC 72450; and doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 72460 LIQUID CRYSTAL MATERIALS SCIENCE 2 Credit Hours
(Slashed with MTSC 62460) Familiarizes students with the basic, underlying chemical concepts in liquid crystal science. These concepts include molecular structures and properties of liquid crystal molecules, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds including heterocycles and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, and chirality. Other aspects covered in later sections of this course relate to auxiliary and novel materials used in liquid crystal devices such as polymers, carbon nanomaterials, metal and semiconductor nanoparticles and photo-responsive organic materials.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 72462 LIQUID CRYSTAL SCIENCE: PHYSICAL PROPERTIES 3 Credit Hours
(Slashed with MTSC 62462) Basics of liquid crystal defects and their behavior in magnetic and electric fields.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 72640 LIQUID CRYSTAL, POLYMER AND COLLOID COMPOSITES 4 Credit Hours
(Slashed with MTSC 62640) Interdisciplinary science of systems consisting of liquid crystal, polymer and colloid. Statistical physics of composite systems, mixing free energy, phase separation principle, phase diagrams and phase separation dynamics. States, structures and free energies of liquid crystal, polymer and colloidal systems. Polymer dispersed liquid crystals (PDLC), polymer stabilized liquid crystals (PSLC) and their applications. Laboratory experiments on composite systems and fabrication of PDLC and PSLC light shutters.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 72643 ELECTRO-OPTICS OF LIQUID CRYSTALS: MODELING AND DEVICE DESIGN 3 Credit Hours
(Slashed with MTSC 62643) Apply knowledge of liquid crystals and optics to the design of liquid crystal electro-optical devices. Emphasis is on modeling of devices and the use of that modeling to optimize device characteristics. Several particular device designs are considered to familiarize students with the state of the art in electro-optical applications of liquid crystals and to prepare them to advance the art in future designs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 72647 STRUCTURED FLUIDS 3 Credit Hours
(Slashed with MTSC 62647) The basics of fluids having internal structures, such as long range orientational order and or one and two dimensional positinal order. Such materials include thermotropic smetic, lamellar lyotropic and columnar liquid crystals, soap films, fluid foams, fluid fibers and Langmuir monolayers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 72650 COMPUTATIONAL MATERIALS SCIENCE 3 Credit Hours
(Slashed with MTSC 62650) Materials modeling at the classical (i.e. non-quantum) level. Monte Carlo methods; molecular dynamics simulation; mesoscale models; numerical methods; case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 72651 NANOBIOTECHNOLOGY 3 Credit Hours
(Slashed with MTSC 62651) Course presents the concepts, principles and the state-of-the-arts of nanotechnologies and their applications in biological and biomedical science and engineering. Focus is on the fundamental physical principles and engineering technologies of device miniaturization and system integration for bioapplications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 73000 PHYSICS OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 63000) Students learn the basics of physics of soft matter, including polymers, liquid crystals, colloids, reduced dimensionality fluids and active matter. Course provides students a coherent and deep understanding of the most important concepts and scientific results of soft matter, such as nano-, and microscopic structures, mechanical, electrical and optical properties.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 73010 LYOTROPIC LIQUID CRYSTALS 3 Credit Hours
(Slashed with MTSC 63010) Course covers the fundamentals and the chemical aspects of different types of lyotropic liquid crystals (organic, inorganic, composites) leading to a discussion of phase diagrams and a comprehensive discussion of the characterization techniques of lyotropic liquid crystals. Focuses on some key aspects related to the use of lyotropic liquid crystals in pharmacological and medical applications such as drug delivery and the use of lyotropic liquid crystals as templates or 'reactors' for nanoscale synthesis and mesoscale manufacturing.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 73015 CHEMISTRY OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 63015) Course familiarizes students with the basic underlying chemical concepts in soft matter science, focusing on the most important chemical building blocks in soft matter, IUPAC rules for naming them, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds, including heterocyclic and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, structure-property relationships and all levels of chirality (molecular to supramolecular). Other topics focus on specific types of materials explored in soft matter such as polymers, liquid crystals, carbon nanomaterials, metal and semiconductor nanoparticles and light-responsive organic materials, gels, foams and colloids.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 73020 APPLICATIONS OF SOFT MATTER 3 Credit Hours
(Slashed with MTSC 63020) Course covers the applications of soft matter that include electro-optical, sensor and biological applications. Recent developments related to emerging applications are covered.
Prerequisite: MTSC 73000; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MTSC 73025 ACTIVE MATTER 2 Credit Hours
(Slashed with MTSC 63025) The course is designed to teach the science of active matter which embraces a broad range of dynamic out-of-equilibrium systems comprised of interacting units that are capable of converting stored energy or the energy of the environment into systematic motion. Examples include colloids powered by an electric field, swimming bacteria and living liquid crystals. Theoretical models considered are Vicsek model and Toner-Tu model. The course will provide a coherent picture of the dynamic out-of-equilibrium phenomena.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 73100 EMERGING DISPLAY TECHNOLOGIES 2 Credit Hours
(Slashed with MTSC 63100)This course focuses on the fundamentals and applications of latest display technologies in transmissive, reflective and emissive displays as well as free-space display technologies. This course is aimed for students who wish to learn more, not limited to liquid crystal devices and applications, but also wide ranges of current and future display technologies, and will intergrate among materials science, physics and engineering with display technologies ranging from direct-view, flexible, wearable and free-space displays.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MTSC 74491 SEMINAR: LIQUID CRYSTALS 1 Credit Hour
(Repeatable for credit) (Slashed with MTSC 64491) Discussion of current literature or original research in liquid crystals. Participation by students, faculty and guests.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

MTSC 74495 SPECIAL TOPICS IN CHEMICAL PHYSICS 1-3 Credit Hours
(Repeatable for credit)(Slashed with MTSC 64495) Topic varies per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MTSC 75006 LIQUID CRYSTAL DEVICE PROTOTYPING 2 Credit Hours
(Slashed with MTSC 65006) Liquid crystal device prototyping; introduction to liquid crystal device manufacturing methods.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MTSC 75008 LIQUID CRYSTAL DEVICE CONSTRUCTION 1 Credit Hour
(Slashed with MTSC 65008) Students acquire the knowledge and experience in basic techniques and procedures for the construction of liquid crystal cells. Students are prepared for successive lab courses and the capstone project based on the clean-room techniques, ITO glass handling, film deposition, surface alignment treatment and cell assembly experienced.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MTSC 75032 SCIENTIFIC COMMUNICATION 1 Credit Hour
(Slashed with MTSC 65032) Course aims to help graduate students in STEM fields improve their skills in scientific writing and presentations. Activities include a mock panel review of scientific proposals. Students produce a final paper that could serve as the introductory chapter of a thesis or dissertation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MTSC 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun, and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MTSC 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: MTSC 80199 and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MTSC 80498 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral student who has not yet passed candidacy exam. Credit earned may be applied toward degree.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3-45 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Neuroscience (NEUR)

NEUR 10100 SEMINAR IN NEUROSCIENCE 1 Credit Hour
Course provides an overview of the neuroscience field, including areas of neuroscience research, foundational principles in neuroscience, current questions and techniques, career possibilities and examples of research being conducted by neuroscience faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

NEUR 30100 NEUROSCIENCE I 3 Credit Hours
(Crosslisted with BSCI 30100) Course covers basic principles in neuroscience, from the cellular to systems levels. Provides students a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems and motor pathways.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NEUR 30200 NEUROSCIENCE II 3 Credit Hours
(Cross-listed with BSCI 30200) Course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. Course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control and higher order cognitive functioning.
Prerequisite: NEUR 30100 or BSCI 30100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NEUR 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour
(Cross-listed with BSCI 30300) Accompanying laboratory for NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception. .
Prerequisite: NEUR 30100 or BSCI 30100 with minimum C grade.
Pre/corequisite: NEUR 30200 or BSCI 30200.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

NEUR 30889 BEAUTY AND THE BRAIN: EXPLORING FLORENCE THROUGH THE SENSES (DIVG) (ELR) 3 Credit Hours
(Cross-listed with BSCI 30889) This is an introductory sensory neuroscience course for undergraduate students. By exploring the sensory richness of Florence, Italy, students delve into the biology of their sensory systems. Through a combination of field trips, laboratory exercises, lectures and presentations, students learn how our sensory systems function to change diverse environmental signals into information that can be interpreted by the brain. Site visits are used to highlight specific sensory systems and laboratories/lectures provide the conceptual framework. Together, these experiences lay the foundation for students' understanding of vision, taste, smell, touch and hearing in the unique environment of Florence, Italy.
Prerequisite: Special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

NEUR 40192 INTERNSHIP IN NEUROSCIENCE (ELR) 3-12 Credit Hours
Work experience and training in neuroscience under the supervision of appropriate personnel in a government agency, nonprofit organization or business.
Prerequisite: NEUR 30200; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-36 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NEUR 40195 SPECIAL TOPICS IN NEUROSCIENCE 1-3 Credit Hours
Topics in neuroscience vary per course offering.
Prerequisite: NEUR 30200.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-3 lecture, 2-6 lab
Grade Mode: Standard Letter

NEUR 40196 INDIVIDUAL INVESTIGATION IN NEUROSCIENCE 1-3 Credit Hours
(Repeatable for credit) Research study under the guidance of a neuroscience faculty member and under the direction of a Biological Sciences faculty mentor.
Prerequisite: NEUR 30200; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

NEUR 40385 CURRENT TOPICS IN NEUROSCIENCE 3 Credit Hours
(Cross-listed with BSCI 40385)(Slashed with BSCI 50385 and BSCI 70385) This is a discussion- and readings-based course that focuses on cellular and molecular mechanisms underpinning functions of the central nervous system. Topics covered include synaptic plasticity; neuron-glia interactions; gene-environment interactions involved in learning, memory and disease; big data in neuroscience; and more. During this course, students develop knowledge and understanding of communication between brain cells; how gene-environment interactions impact learning and memory, behavior and disease; and modern techniques used in neuroscience research. Students read, summarize and discuss primary research papers in the context of neuroscience-related topics.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NEUR 40429 NEURAL CONTROL OF REPRODUCTIVE FUNCTION 2 Credit Hours
(Cross-listed with BSCI 40429) (Slashed with BSCI 50429 and BSCI 70429) Course explores the role of the brain in regulating functions that are essential to ensure successful reproduction. Topics covered include an overview of the endocrine and neuroendocrine systems involved in reproduction, as well as regulation of puberty, fertility, pregnancy and lactation. The course also explores disorders, such as polycystic ovary syndrome, affecting the central regulation of reproduction.
Prerequisite: BSCI 30130 or BSCI 40430 or NEUR 30100.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NEUR 47387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours
(Cross-listed with PSYC 47387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. This course introduces students to the behavioral effects of psychoactive therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Department of Africana Studies

Africana Studies (AFS)

AFS 15200 INTRODUCTION TO WEST AFRICAN CULTURES 3 Credit Hours
Students will study the history, culture, geography, ecology, and historical specifics of the region of West Africa from the 9th to the 19th centuries.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 20001 INTRODUCTION TO AFRICANA STUDIES 3 Credit Hours
This course uses an interdisciplinary approach to introduce students to the discipline and field of Africana Studies. Using primary source materials from literature, film and various art forms, students will be exposed to concepts, critical issues, events and major thinkers that have shaped the global Black world. Emphasis will be placed on the relationship between Peoples of African descent, Latin and Indigenous Peoples. Selected course materials represent the ways in which Peoples of African descent have demonstrated resiliency, activism and agency.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 20101 KISWAHILI III 3 Credit Hours
Continuation of Kiswahili II, aimed at developing knowledge competence and recognition of Kiswahili usage in all forms of Kiswahili literature.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 20102 KISWAHILI IV 3 Credit Hours
Continuation of Kiswahili III, aimed at developing knowledge, competence and recognition of Kiswahili usage in all forms of Kiswahili literature.
Prerequisite: AFS 20101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 20300 BLACK IMAGES 3 Credit Hours
Examines the historical origins and representations of racial images and anti-black perceptions through newspapers, magazines, songs, plays, literature, textbooks, radio, television, films, comic books, etc. and the role of these images in American culture past and present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 22000 CREATIVE WRITING IN THE BLACK WORLD 3 Credit Hours
Explores the major aesthetic and cultural issues that have historically shaped creative writing in the Black world since the beginning of the African Griot tradition. Students will investigate the African-American tradition in literature as an organic part of the larger Africana world. Students are expected to write, perform, critique and produce original works in the modes and performance styles of the global African world.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 22101 AFRICAN AMERICAN VISUAL ARTISTS 3 Credit Hours
The course is an Afrocentric survey of visual and aural artistry. The course also examines context and perspectives, mediums of expression, form, style, content and patronage of African American artists from 1800.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 22200 INTRODUCTION TO THE AFRICAN ARTS 3 Credit Hours
This course investigates the function of creative forms of artistic expression particular to experiences of the Africana community at home and abroad.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 23001 BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM) 3 Credit Hours
This course examines the African experience prior to and following the arrival of Africans in the New World. It explores the contributions of Africans in the areas of state formation, arts/architectural designs, scientific explorations, religion and other great human achievements. Discussion will also focus on major historical events such as the Trans-Saharan trade, Trans-Atlantic Slave trade, Middle Passage, and Slavery in America. The experiences of people of African descent in North and South America as well as the Caribbean will be examined.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities

AFS 23002 BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM) 3 Credit Hours
This course covers the Black Experience from 1865 to the present, including events, ideas and persons in Africa, North and South America, and the Caribbean. The course will also examine slavery in America, the struggles for freedom, the Civil War, Reconstruction and Jim Crow eras, Black politics, culture, and society. The contributions of African Americans to the American society will also be examined.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Humanities

AFS 23095 SPECIAL TOPICS IN PAN-AFRICAN LITERATURE AND COMMUNICATION SKILLS 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) Introduction to a current and specialized topic in Pan-African Literature and/or communication skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AFS 23310 NATIVE AMERICAN STUDIES 3 Credit Hours
Study and analysis of Native American history, sovereignty and civil rights. Ensures an understanding of self-determination in the context of colonization, decolonization and neocolonization, through the use of Native American literature, philosophy, politics and other cultural outlets. Being that we all live in a broader community, students also examine historical and contemporary relationships with the African American community and other ethnic communities in the US.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 24407 INTRODUCTION TO CARIBBEAN STUDIES (DIVG) 3 Credit Hours
This course examines the histories, social and political frameworks, cultural and religious traditions of Caribbean regions from the pre-colonial era to the present. The course focuses in particular on the experience of people of African descent in the Caribbean.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

AFS 26010 BLACK LIVES MATTER: THE CONTINUED STRUGGLE FOR BLACK LIBERATION 3 Credit Hours
This course examines the historical, cultural and sociopolitical development of the global #BlackLivesMatter movements. By linking the current movements for Black liberation to past and current resistance movements, this course explores the intersectional relationship between identity development and the anti-blackness of state sanctioned violence through strategies and tactics of various movements and individuals who represent the legacy of the Black Radical Tradition.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 30001 CULTURAL EXPRESSIONS I 3 Credit Hours
Exploration of African creative endeavors and cultures through traditionally integrated forms of music, dance and song. Some emphasis on the study of design, color and fashion merged with family, food and environment, as well as traditional African societies. The class strives to foster in the student, through song and dance and through plastic arts, an aesthetic appreciation of the traditional African society such as the Yoruba people, the Dan, Dogon, Bambura, Mandingo and Senufu and many more.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 30310 BLACK HOLLYWOOD 3 Credit Hours
Examines the complexities of race relations in the film industry and the need for "Hollywood" and Black filmmakers to create films for mainstream audiences with a multitude of themes from the African American experience in America and the Black experience around the world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 30311 HIP HOP: THE SOCIAL, POLITICAL AND ECONOMIC INFLUENCES 3 Credit Hours
Examines the social, political and economic influences of and on Hip-hop and analyzes the historical and current relationships between Hip-hop and mainstream America, including the role that corporate America has played. In-depth history of the culture and major pioneers and contributors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 32001 AFRICAN-AMERICAN LITERATURE TO 1900 3 Credit Hours
(Cross-listed with ENG 33010) Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Walker, Truth, Garnet, Douglass, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnutt and Dunbar.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 32002 MODERN AFRICAN-AMERICAN LITERATURE 3 Credit Hours
Study of African-American literature from the early twentieth century to the present. The authors include Toomer, Hughes, Larsen, Wright, Baldwin, Hansberry, Jones, Lorde, Walker, Morrison, Mosley, Youngblood and Carter.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 32050 AFRICAN LITERATURES (DIVG) 3 Credit Hours
(Cross-listed with ENG 33015) Examines works of major 20th-century African, African American and Caribbean writers and intellectuals. Authors include Niane, Achebe, Emecheta, Prince, Hurston, Hughes, Cesaire, Senghor, Soyinka and many others.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

AFS 33110 BLACK WOMEN, CULTURE AND SOCIETY: HISTORICAL PERSPECTIVES (DIVD) 3 Credit Hours
This course surveys the experiences of Black women throughout various periods of history, and their roles in shaping the social, economic, political and cultural development of their societies.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

AFS 33120 THE BLACK MAN: HISTORICAL PERSPECTIVES 3 Credit Hours
This course will investigate both the historical as well as the cultural evolution of the African man in America. We will consider the Black man's development within the larger context of the African experience in the United States. It will focus primary attention on the cultural, social, economic and political aspects of African community development and the impact of Black men on that development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 33130 GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA 3 Credit Hours
Using lectures, videos, discussions, readings and application this course explores ways in which gender and sexuality in Africa and the African Diaspora have and can be constructed, performed, articulated and researched. Attention is also paid to the existence of LGBTQ identities within the global black community.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 33171 AFRICAN-AMERICAN COMMUNITIES (DIVD) 3 Credit Hours
This course explores the challenges facing African-American communities through historical and contemporary perspectives. Issues such as geography, black/demography, public administration, health, transportation, socio-economic/finance as well as education, civil rights, crime/justice will be covered. The course will also explore contemporary social movement issues and implications on these communities.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

AFS 33310 AFRO-LATINX COMMUNITIES IN THE U.S. (DIVD) 3 Credit Hours
Introduction to the social, cultural, and political experiences of Afro-Latinx communities in the U.S. The communities include Afro-Mexican, Puerto Rican, Afro-Cuban, Dominican, Garifuna, etc.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

AFS 34000 INTRODUCTION TO AFRICAN WORLD VIEW (DIVG) 3 Credit Hours
This course will introduce students to the basic features of the Traditional African Worldview. We will identify and examine those concepts that all African peoples hold in common. It will provide a working context within which to discuss fundamental aspects of Traditional African identity and culture. In addition, we will consider the transformation of the African Worldview in the so-called New World.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

AFS 37000 ORAL AND WRITTEN DISCOURSES IN AFRICANA STUDIES (WIC) 3 Credit Hours
This course examines foundational text, speech and cultural expressions in the Africana World. Students will develop their writing skills and learn new techniques to improve their oral and written communication.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

AFS 37001 THEORETICAL APPROACHES TO AFRICANA STUDIES 3 Credit Hours
A critical analysis of the diverse approaches to the underlying principles of Africana Studies.This course aims to expose students to various theoretical perspectives and models that scholars use to explore and understand the Africana experience. The course has a multi-disciplinary and inter-disciplinary scope that allows for a thorough investigation of the political, socio-economic and cultural significance of the unity, self-determination and resistance forged by People of African Descent.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 37010 RESEARCH METHODS IN AFRICANA STUDIES (ELR) 3 Credit Hours
This course will expose students to the basic components on interdisciplinary research methods used in Africana Studies. Students will learn about research concepts, paradigms, models and perspectives in the design of African-centered research projects.
Prerequisite: AFS 37000 and AFS 37001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AFS 37020 THE MODEL AFRICAN UNION (ELR) 3 Credit Hours
Students examine role, structure and performance of the African Union in the search for solutions to key economic, social and political-security issues facing Africa. Students attend the annual meeting of the Model African Union Conference in Washington D.C., which is a simulation of proceedings of the African Union, augmented by briefings at African Embassies. Participants gain an understanding of the various determinants, capabilities and constraints shaping the domestic and foreign policies of African countries.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AFS 37100 AFRICANA WOMEN'S LITERATURE (DIVG) 3 Credit Hours
(Cross-listed with ENG 33013). This course introduces students to literary works by Africana women. The course will explore concerns and issues impacting Africana women including but not limited to the intersections of psychological, social, historical and political issues of race and gender.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

AFS 37150 SECRET AND MAROON SOCIETIES IN THE STRUGGLE AGAINST THE INSTITUTION OF SLAVERY 3 Credit Hours
This course examines secret and maroon societies including but not limited to the Underground Railroad, the Quilombos of Brazil, Black Seminoles of Florida, and other maroon communities in the Africana world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 37200 AFRICAN-AMERICAN WOMEN'S LITERATURE 3 Credit Hours
(Cross-listed with ENG 33014) Introduces students to literary works by African-American women.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 40001 CULTURAL EXPRESSIONS II 3 Credit Hours
This course continues Cultural Expressions I in greater depth and sophistication: Exploration of African creative endeavors and cultures through traditionally integrated forms of music, dance and song. Some emphasis on the study of design, color and fashion merged with family, food and environment, as well as traditional African societies. The class strives to foster in the student, through song and dance and through plastic arts, an esthetic appreciation of the traditional African society such as the Yoruba people, the Dan, Dogon, Bambara, Mandingo, Su Su, Senufu and many more.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 41192 PRACTICUM IN AFRICANA COMMUNITIES (ELR) 1-12 Credit Hours
(Repeatable for credit) This practicum provides students with hands-on experience in community service and engagement. In coordination with a selected faculty member, students will have the opportunity to work in government agencies, public and private schools, non-profit organizations, etc.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 3-36 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

AFS 43095 SPECIAL TOPICS IN PAN-AFRICAN LITERATURE, ARTS AND CULTURES 3 Credit Hours
(Repeatable for credit) Broadens upper division offerings in holistic study and performance in Pan-African literatures, arts and cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 43100 RACE, CLASS AND FEMINIST THOUGHT 3 Credit Hours
(Slashed with AFS 53100) Explores issues of race, class and gender through the lens of Black women and feminists of color. This course also examines how gender, race, and class intersect in the construction of identity, institutional formations and social movements in the African world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 43200 MALCOLM AND MARTIN 3 Credit Hours
A critical study of the major ideas and doctrines, including religious and theological beliefs, of Malcolm X and Martin L. King and their roles in American history.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 44095 SPECIAL TOPICS IN CONTEMPORARY AFRICA 3 Credit Hours
(Repeatable for a total of 12 credit hours when topic varies) Study of selected topics related to contemporary Africa.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 47095 SPECIAL TOPICS IN THEORETICAL AND APPLIED RESEARCH 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Selected topics in the intellectual, cultural, political and historical development of Pan-Africanism, its diverse theoretical approaches and multiple applications including the Organization of African Unity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 47099 SENIOR SEMINAR IN AFRICANA STUDIES (ELR) (WIC) 3 Credit Hours
This upper-division course is designed to provide AFS students the opportunity/framework to critically review and reflect on their academic and experiential learning experiences and other academic undertakings before graduation. In addition to reviewing relevant topical/contemporary issues of interest in the field of Africana Studies or the Pan-African world, students will develop individual research papers on these topical issues for presentation before the departmental faculty, students and the general public.
Prerequisite: AFS 37010.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

AFS 47100 RACE, GENDER AND SOCIAL JUSTICE 3 Credit Hours
(Slashed with AFS 57100) This senior level course introduces students to the interconnected fields of race, gender and social justice in America and the rest of the world. Students will explore the intersectionality of these fields and how they shape our understanding of social justice issues. The course will enhance the knowledge and understanding of students on critical issues of race, gender, sexuality/other categories. Drawing on interdisciplinary approach/perspective, students will study and develop a global understanding of the complex intersectional systems of oppression that shape the lives of people of African descent, including other people of color. Discussions will focus on issues of civic engagement, public policy, policy advocacy, and the practice/methodology of activism.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 47122 SEMINAR IN ACTIVISM AND SOCIAL CHANGE 3 Credit Hours
(Slashed with AFS 57122) This senior level seminar course will provide students the opportunity to gain knowledge and understanding of activism and social change. Discussion will focus on strategies and methods of social change through community activism, policy advocacy, community organizing and development. Students will engage in readings, discussions, and analyses of relevant works on issues of activism, race, gender and social change. In addition to reviewing major theoretical and methodological approaches, students will develop a theory-driven research paper on a topical issue of interest on race, gender, and social justice by the end of the semester.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 47144 BLACK SOCIAL AND POLITICAL THOUGHT 3 Credit Hours
(Slashed with AFS 57144) This course explores the evolution of Black social and political thought and leadership within the global Black world. Drawing on the concepts of leadership and liberatory practices, the course will discuss the changing trends of Black social and political thought, strategies, ideologies, race, class, gender, conflict, competition and future prospects of Black political mobilization and leadership.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 49093 VARIABLE TITLE WORKSHOP IN PAS 2-6 Credit Hours
(Repeatable for credit)
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory

AFS 49095 SELECTED TOPICS 2,3 Credit Hours
(Repeatable for credit) Scheduled topic announced. Intended to encourage further study in areas not treated adequately in standard courses. Offered irregularly by available or visiting faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter-IP

AFS 49096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable once for credit) Research in areas of interest not available in departmental courses. Approval by faculty member or chairperson necessary prior to registration.
Prerequisite: Junior or senior standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

AFS 53100 RACE, CLASS AND FEMINIST THOUGHT 3 Credit Hours
(Slashed with AFS 43100) This graduate level course explores issues of race, class and gender through the lens of Black women and feminists of color. This course also examines how gender, race, and class intersect in the construction of identity, institutional formations and social movements in the African world.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 57100 RACE, GENDER AND SOCIAL JUSTICE 3 Credit Hours
(Slashed with AFS 47100) This graduate level course introduces students to the fields of race, gender and social justice in America and the rest of the world. Students will explore the intersectionality of these fields and how they shape our understanding of critical social justice issues. The course is designed for M.A. and/or PhD students who wish to complement and strengthen their research and pedagogical framework in their degree program, and those who are interested in working towards equity with regard to race, gender, sexuality/other categories. Drawing on interdisciplinary approach/perspective, students will study and develop a global understanding of the complex intersectional systems of oppression that shape the lives of people of African descent, including other people of color. Discussions will focus on issues of civic engagement, public policy, policy advocacy, and the practice/methodology of activism. The knowledge of students in the interdisciplinary field of Africana Studies will also be broadened after taking this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 57122 SEMINAR IN ACTIVISM AND SOCIAL CHANGE 3 Credit Hours
(Slashed with AFS 47122) This graduate seminar course is designed to provide students the opportunity to undertake a critical overview of their graduate minor program in Race, Gender and Social Justice with a focus on strategies and methods of social change through community activism. Discussions will focus on critical issues of policy advocacy, community organizing and development. Students will engage in readings, discussions, and analyses of relevant works on issues of activism, race, gender and social change. In addition to reviewing major theoretical and methodological approaches, students will develop a theory-driven research paper on a topical issue of interest on race, gender, and social justice by the end of the semester.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 57144 BLACK SOCIAL AND POLITICAL THOUGHT 3 Credit Hours
(Slashed with AFS 47144) This graduate level course explores the evolution of Black social and political thought and leadership within the global Black world. Drawing on the concepts of leadership and liberatory practices, the course will discuss the changing trends of Black social and political thought, strategies, ideologies, race, class, gender, conflict, competition and future prospects of Black political mobilization and leadership.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Department of Anthropology

Anthropology (ANTH)

ANTH 18095 SPECIAL TOPICS ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) Special Topics in Anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 18210 INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS) 3 Credit Hours
This introductory course in cultural anthropology examines the culture concept, the diverse ways of life found in communities around the world, and attempts by anthropologists and other social scientists to understand the commonalities underlying our diversity. It explores how individual lives are shaped by broader cultural and social forces, how people create meaning, and the nature of power relations. Students will gain insight into the potential of anthropological findings to help resolve contemporary human problems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

ANTH 18230 INTRODUCTION TO FORENSIC ANTHROPOLOGY 3 Credit Hours
Forensic anthropology is the application of biological anthropology in a medico-legal context. The tools of archaeology and biological anthropology are used to discover, recover and identify human remains. Topics include human osteology, determining the biological profile (sex, age, ancestry and stature), facial reconstruction, establishing a positive I.D., trauma to bone, stages of decomposition, the role of insects in decomposition, and issues of mass graves.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 18420 INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS) 3 Credit Hours
Archaeology is the study of the human past using material remains. The themes of time change and human diversity will be emphasized as students learn about ancient societies and how they teach us about ourselves. We will survey prehistoric and ancient human existence, from our earliest bipedal ancestors between 5 and 10 million years ago until the beginnings of complex society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

ANTH 18630 HUMAN EVOLUTION (KBS) 3 Credit Hours
Introduction to basic evolutionary theory with a focus on the emergence and progressive development of the human species during the last five million years. Includes related topics such as primate behavior and human variation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Social and Behavioral Sciences, Transfer Module Natural Sciences

ANTH 18631 ISSUES IN HUMAN EVOLUTION (KBS) (KLAB) 1 Credit Hour
Laboratory study of primate and human anatomy; human paleontology; Mendelian, molecular and human genetics; and primate behavior, ecology and conservation.
Pre/corequisite: ANTH 18630.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

ANTH 28095 SPECIAL TOPICS ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) Special Topics in Anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 28300 INTRODUCTION TO FORENSIC GENETICS 3 Credit Hours
Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them; for example, whose DNA is on a gun trigger? This is the first in a two-course series. This course provides a foundation in basic genetic principles and methods relevant to criminal investigation and victim identification. Topics include introduction and history of molecular forensics, crime scene evidence, serology (blood, semen, saliva), blood spatter, chromosome structure, principles of inheritance, linkage and crossing over, microsatellites (STRs), DNA extraction methods, standard PCR, capillary electrophoresis, mitochondrial DNA, sex chromosomes, basic population genetics, and CODIS database.
Prerequisite: ANTH 18230 or ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: Junior standing or above.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38096 INDIVIDUAL INVESTIGATION IN ANTHROPOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit)Readings and/or research supervised by a member of the anthropology staff.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ANTH 38440 QUANTITATIVE ANTHROPOLOGY 3 Credit Hours
Introduces the quantitative description of numerical data, provides an understanding of the basis of probability theory and statistical inference and acquaints the student with the role of computers in anthropology.
Prerequisite: ANTH 18420 or ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38480 ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) 3 Credit Hours
Methods necessary for the description and laboratory analysis of prehistoric remains. Course will include laboratory exercises as well as class lectures.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ANTH 38490 QUANTITATIVE ANTHROPOLOGY 3 Credit Hours
Introduces the quantitative description of numerical data, provides an understanding of the basis of probability theory and statistical inference and acquaints the student with the role of computers in anthropology.
Prerequisite: ANTH 18420 or ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38680 PRIMATE SOCIETIES 3 Credit Hours
This course will be a survey of the behavior of living primates. Topics covered include reproductive and foraging strategies, social structure and primate conservation. Antecedent human behavior will also be considered.
Prerequisite: ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38789 FACES: HUMAN HEAD ANATOMY WITH A FORENSIC ART FOCUS (DIVG) (ELR) 3 Credit Hours
Summer Florence Institute course: Renaissance artists became anatomists in order to create more life-like portrayals of the human figure, and Italy was in the forefront of these developments. Our course begins with studying works by these artist/anatomists: Antonio Pollaiuolo, Leonardo da Vinci, Michelangelo, and others, through visits to the Galleria dell'Accademia and Museum of the Bargello and lectures. We will examine drawings, paintings and sculptures of faces by these artists, and gain an appreciation for how well they understood human anatomy. We will also visit La Specola Anatomical Collection (exquisite wax models copied from real corpses during the 17th century) since we are studying anatomy. In the classroom, students will study human skulls, and learn the form and function of the muscles of facial expression and mastication. We will pay close attention to features of the skull that ultimately give each face its unique qualities, and study the areas that indicate age and sex of the individual. Each student will sculpt the facial bones of a skull, using an exact replica cast as a model. In the last part of the course students learn the techniques of two-dimensional forensic facial reconstruction. Using knowledge of head anatomy, and tissue depth data from the literature, each student will prepare detailed sketches (one man, one woman) based on a photograph of his and her skull. We will also learn about changes to the face over the life span, and make sketches of older people based on photographs of them when young.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ANTH 48001 QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 58001) This course covers the qualitative research methods employed by anthropologists to collect and analyze data. Students will gain skills in ethnography, research design and analysis, and the ethical responsibilities associated with data collection and storage.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48010 NORTH AMERICA'S ICE AGE HUNTERS 3 Credit Hours
(Slashed with ANTH 58010) This class is an in-depth study of the Clovis people, their culture, their technology, their ancestors, and their progeny. The Clovis culture represents the first peoples of North America during the Pleistocene (Ice Age), over 13,000 years ago. These first Americans were colonizers to the New World, and tackled a dangerous and unfamiliar landscape.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48092 FORENSIC ARCHAEOLOGY FIELD SCHOOL (ELR) 3 Credit Hours
(Slashed with ANTH 58092) This course provides students with practical experience in archaeological fieldwork in the context of a mock crime scene. Students will excavate a complex burial feature. Surface survey, excavation and recording techniques, field drawing, and processing of bones and artifacts will be taught.
Prerequisite: ANTH 18230 or ANTH 18630.
Schedule Type: Laboratory, Lecture, Practical Experience
Contact Hours: 1 lecture, 3 lab, 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ANTH 48093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY 1-6 Credit Hours
(Repeatable for credit)Classroom discussions and field study activity focused on professional and disciplinary concerns. Specific content varies with workshop group.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ANTH 48095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with ANTH 58095) Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled.
Prerequisite: ANTH 18210 or 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48150 RELIGION: A SEARCH FOR A MEANING 3 Credit Hours
(Slashed with ANTH 58150) This course teaches students the anthropological approaches to the study of religious beliefs and practices, as well as the role of religion in bringing about social change. Topics covered include: ritual, myth, witchcraft, sorcery, shamanism, syncretism, secularism and fundamentalism. Students will appreciate the diversity of ways in which religion is manifested cross-culturally and understand the different roles that religious beliefs play in human life. Students with Junior standing or above may request that the prerequisite be waived.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48214 POLITICS OF CULTURE (ELR) (WIC) 3 Credit Hours
(Slashed with ANTH 58214) Addresses the way in which culture has been politicized, and looks at such issues as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ANTH 48220 CULTURAL ECOLOGY AND SUSTAINABILITY 3 Credit Hours
(Slashed with ANTH 58220) Exploration of the dynamic relationship between socio-cultural systems and physical-biological environment through Anthropology's comparative perspective on the crucial contemporary need to foster a sustainable society.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48225 ARCHAEOLOGY OF DEATH (ELR) (WIC) 3 Credit Hours
(Slashed with ANTH 58225) Archaeologists study cemeteries to learn how societies treat their dead, as well as work at mass disaster scenes, and clandestine graves. They aid law enforcement in many situations where human remains have been skeletonized. This course will provide students with an understanding of the processes and procedures involved in each.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ANTH 48242 ARCHAEOLOGICAL CERAMICS 3 Credit Hours
(Slashed with ANTH 58242) This course will provide students with essential archaeological knowledge of ceramic materials via lecture and hands-on learning activities. Pottery will be addressed in a holistic manner, starting with its geochemical origins, through the various ways humans have sourced and manipulated this versatile raw material, as well as standard archaeological methods for study and interpretation. Ceramic materials from cultures all around the world will be discussed in depth to reveal both functional and social significance.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48245 PSYCHOLOGICAL ANTHROPOLOGY (DIVG) 3 Credit Hours
(Slashed with ANTH 58245) Overview of psychological anthropology. Includes comparative cross-cultural socialization and personality development; group and national character; relationship of personality to politics, social and occupational roles, and recent explorations of the relationship between culture and cognition. Examines contributions by leading figures, from Freud, Boas, Benedict, and Whorf through modern studies of spatial cognition and navigation.
Prerequisite: ANTH 18210 or PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ANTH 48250 MEDICAL ANTHROPOLOGY (DIVG) 3 Credit Hours
(Slashed with ANTH 58250) This course teaches students the central concepts and methods of medical anthropology, treating illness and healing as biocultural, political and experiential phenomena. The course considers both the specificity of local medical cultures and the complex interactions among the environment, human behavior and political and economic policies that shape them. The course will sensitize students to cultural issues in sickness and health care, and provide some critical analytic concepts and tools. Students with JUNIOR standing or above may request that the prerequisite be waived.
Prerequisite: ANTH 18210 or ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ANTH 48262 PEOPLES AND CULTURES OF AMAZONIA (DIVG) 3 Credit Hours
(Slashed with ANTH 58262) This course introduces students to the cultural traditions of Lowland South American peoples. Through a variety of ethnographic readings and films students will explore key anthropological themes such as the relationship between 'nature' and 'culture', gender relations, violence, anthropological ethics and the impacts of colonialism and globalization. Topics covered include: cosmology, personhood, ritual practices, sorcery, shamanism, gender and indigenous activism. Students with Junior standing or above may request that the prerequisite be waived.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ANTH 48280 BEING HUMAN: SIGNS AND SYMBOLS 3 Credit Hours
An exploration of semiotic anthropology, the study of the production and communication of meaning through signs and symbols in human life, from both a humanistic and a scientific perspective. Special emphasis is on what it means to be human from a spatial as well as an evolutionary perspective as it relates to our sustainability crisis. The topic is crucial to our species, and to life on earth more generally, given the current globalization of modernity and the propagation of its non-sustainable definition of human being.
Prerequisite: Sophomore standing or above.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48295 SPECIAL TOPICS IN CULTURAL ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48300 ADVANCED FORENSIC GENETICS 3 Credit Hours
(Slashed with ANTH 58300) Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them. This is the second in a two-course series, and it focuses on the analysis and interpretation of molecular forensic data, as used in criminal investigations. Topics include quantitative PCR, capillary electrophoresis and electrophoretic artifacts, NRC and ISFG recommendations, CODIS database, familial searches, low-copy DNA, mixture deduction, forensic statistics, missing persons, paternity tests, mass disaster identifications, quality control, accreditations and validations, courtroom testimony, legal challenges to DNA typing, and new approaches and technologies.
Prerequisite: ANTH 28300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48330 PRIMATE ENDOCRINOLOGY 3 Credit Hours
(Slashed with ANTH 58330) This course provides a comprehensive overview of primate behavioral endocrinology, with an emphasis on primate adaptation to maximize reproductive fitness. We learn to identify the major taxonomic groups and their behavioral and physiological diversity, and explore how hormones contribute to shape different primate societies. Throughout the course, we explore hormonal influences on sexual behavior, aggression and dominance, stress and energetic balance, social bonding and parental care, as well as field and laboratory techniques to study nonhuman primates in their natural habitat.
Prerequisite: ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48440 ARCHAEOLOGY OF ANCIENT OHIO 3 Credit Hours
(Slashed with ANTH 58440) Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000 year period from initial occupation to the beginning of European written history.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48450 ANCIENT CIVILIZATIONS 3 Credit Hours
(Slashed with ANTH 58450) This course will explore the mechanisms involved in the development of early complex societies around the globe. Students will be introduced to cross-cultural comparative analysis to explore theories regarding the rise of the state in various ecological environments, as well as other causal explanations and organizational parameters associated with ancient state formation and maintenance.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48492 ARCHAEOLOGICAL FIELD METHODS (ELR) 3 Credit Hours
(Repeatable for credit) (Slashed with ANTH 58492) Field and laboratory techniques in archaeological research.
Prerequisite: Special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.66 lecture, 4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ANTH 48495 SPECIAL TOPICS IN ARCHAEOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48550 FORENSIC SCIENCE IN THE COURTROOM 3 Credit Hours
(Slashed with ANTH 58550) This course will provide Students with an understanding of the types of biological forensic data utilized in court, and the strengths and weaknesses of these data. Though multiple types of analyses will be discussed, emphasis will be placed on DNA (STR) data, as it is the predominant type of biological evidence used today. The course will also cover the steps required to determine whether a new type of analysis is admissible at trial. Basic courtroom procedures, biases in data interpretation and presentation, case studies, and moot courts will be included.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48623 HUMAN VARIATION 3 Credit Hours
(Slashed with ANTH 58623) A detailed anthropological examination of the causes and extent of modern human variability.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48810 HUMAN PALEONTOLOGY 3 Credit Hours
(Slashed with ANTH 58810) Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors.
Prerequisite: ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48820 HUMAN MUSCULO-SKELETAL SYSTEM 3 Credit Hours
(Slashed with ANTH 58820) A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy biomechanics and estimation of age and sex from isolated bones.
Prerequisite: Junior standing or above.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48835 PRIMATE ECOLOGY AND CONSERVATION 3 Credit Hours
(Slashed with ANTH 58835) Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes and human and climatic effects on their long-term survival.
Prerequisite: ANTH 18630 or ANTH 38680 or BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48850 NATURAL SELECTION ACCORDING TO DARWIN 3 Credit Hours
(Slashed with ANTH 58850) Darwin's Origin of Species transformed our understanding of the natural world. Although he was not aware of the biological constituents of inheritance (i.e. genetics and the modern synthesis), his three ingredients for a system of descent with modification – variation, inheritance, and sorting – were wildly influential. This course will not only explore how Darwin understood his monumental theory, but also show that Darwin's original proposal explains both biological and cultural evolution. Students will gain an understanding of how Darwin's theory provided a foundation for modern anthropological thought and continues to inform anthropological queries.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48889 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Slashed with ANTH 58889)(Repeatable for credit) Faculty-led study abroad experiences.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 3-12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ANTH 58001 QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 48001) This course covers the qualitative research methods employed by anthropologists to collect and analyze data. Students will gain skills in ethnography, research design and analysis, and the ethical responsibilities associated with data collection and storage.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58010 NORTH AMERICA'S ICE AGE HUNTERS 3 Credit Hours
(Slashed with ANTH 48010) This class is an in-depth study of the Clovis people, their culture, their technology, their ancestors, and their progeny. The Clovis culture represents the first peoples of North America during the Pleistocene (Ice Age), over 13,000 years ago. These first Americans were colonizers to the New World, and tackled a dangerous and unfamiliar landscape.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58092 FORENSIC ARCHAEOLOGY FIELD SCHOOL 3 Credit Hours
(Slashed with ANTH 48092) This course provides students with practical experience in archaeological fieldwork in the context of a mock crime scene. Students will excavate a complex burial feature. Surface survey, excavation and recording techniques, field drawing, and processing of bones and artifacts will be taught.
Prerequisite: Graduate Standing.
Schedule Type: Laboratory, Lecture, Practical Experience
Contact Hours: 1 lecture, 3 lab, 3 other
Grade Mode: Standard Letter

ANTH 58095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with ANTH 48095) Offered irregularly when unusual resources and/or opportunities permit.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58150 RELIGION: A SEARCH FOR MEANING 3 Credit Hours
(Slashed with ANTH 48150) This course teaches students anthropological approaches to the study of religious beliefs and practices, as well as the role of religion in bringing about social change. Topics covered include: ritual, myth, witchcraft, sorcery, shamanism, syncretism, secularism and fundamentalism. Students will appreciate the diversity of ways in which religion is manifested cross-culturally and understand the different roles that religious beliefs play in human life.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58214 POLITICS OF CULTURE 3 Credit Hours
(Slashed with ANTH 48214) This course will address the way in which culture has been politicized. It will look at issues such as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58220 CULTURAL ECOLOGY AND SUSTAINABILITY 3 Credit Hours
(Slashed with ANTH 48220) Exploration of the dynamic relationship between socio-cultural systems and the physical-biological environment through Anthropology's comparative perspective on the crucial contemporary need to foster a sustainable society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58225 ARCHAEOLOGY OF DEATH 3 Credit Hours
(Slashed with ANTH 48225) Archaeologists study cemeteries to learn how societies treat their dead, as well as work at mass disaster scenes, and clandestine graves. They aid law enforcement in many situations where human remains have been skeletonized. This course will provide students with an understanding of the processes and procedures involved in each.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58242 ARCHAEOLOGICAL CERAMICS 3 Credit Hours
(Slashed with ANTH 48242) This course will provide students with essential archaeological knowledge of ceramic materials via lectures and hands-on learning activities. Pottery will be addressed in a holistic manner, starting with its geochemical origins, through the various ways humans have sourced and manipulated this versatile raw material, as well as standard archaeological methods for study and interpretation. Ceramic materials from cultures all around the world will be discussed in depth to reveal both functional and social significance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58245 PSYCHOLOGICAL ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 48245) Overview of psychological anthropology. Includes comparative cross-cultural socialization and personality development; group and national character; relationship of personality to politics, social and occupational roles, and recent explorations of the relationship between culture and cognition. Examines contributions by leading figures, from Freud, Boas, Benedict, and Whorf through modern studies of spatial cognition and navigation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58250 MEDICAL ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 48250) This course teaches students the central concepts and methods of medical anthropology, treating illness and healing as biocultural, political and experiential phenomena. The course considers both the specificity of local medical cultures and the complex interactions among the environment, human behavior and political and economic policies that shape them. The course will sensitize students to cultural issues in sickness and health care, and provide some critical analytic concepts and tools.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58262 PEOPLES AND CULTURES OF AMAZONIA 3 Credit Hours
(Slashed with ANTH 48262) This course introduces students to the cultural traditions of Lowland South American peoples. Through a variety of ethnographic readings and films students will explore key anthropological themes such as the relationship between 'nature' and 'culture', gender relations, violence, anthropological ethics and the impacts of colonialism and globalization. Topics covered include: cosmology, personhood, ritual practices, sorcery, shamanism, gender and indigenous activism.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58295 SPECIAL TOPICS IN CULTURAL ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58300 ADVANCED FORENSIC GENETICS 3 Credit Hours
(Slashed with ANTH 48300) Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them. This is the second in a two-course series, and it focuses on the analysis and interpretation of molecular forensic data, as used in criminal investigations. Topics include quantitative PCR, capillary electrophoresis and electrophoretic artifacts, NRC and ISFG recommendations, CODIS database, familial searches, low-copy DNA, mixture deduction, forensic statistics, missing persons, paternity tests, mass disaster identifications, quality control, accreditations and validations, courtroom testimony, legal challenges to DNA typing, and new approaches and technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58330 PRIMATE ENDOCRINOLOGY 3 Credit Hours
(Slashed with ANTH 48330) This course provides a comprehensive overview of primate behavioral endocrinology, with an emphasis on primate adaptation to maximize reproductive fitness. We learn to identify the major taxonomic groups and their behavioral and physiological diversity, and explore how hormones contribute to shape different primate societies. Throughout the course, we explore hormonal influences on sexual behavior, aggression and dominance, stress and energetic balance, social bonding and parental care, as well as field and laboratory techniques to study nonhuman primates in their natural habitat.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58440 ARCHAEOLOGY OF ANCIENT OHIO 3 Credit Hours
(Slashed with ANTH 48440) Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000 year period from initial occupation to the beginning of European written history.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58450 ANCIENT CIVILIZATIONS 3 Credit Hours
(Slashed with ANTH 48450) This course will explore the mechanisms involved in the development of early complex societies around the globe. Students will be introduced to cross-cultural comparative analysis to explore theories regarding the rise of the state in various ecological environments, as well as other causal explanations and organizational parameters associated with ancient state formation and maintenance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58492 ARCHAEOLOGICAL FIELD METHODS 3 Credit Hours
(Repeatable for credit) (Slashed with ANTH 48492) Field and laboratory techniques in archaeological research.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.66 lecture, 4 other
Grade Mode: Standard Letter

ANTH 58495 SPECIAL TOPICS IN ARCHAEOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58550 FORENSIC SCIENCE IN THE COURTROOM 3 Credit Hours
(Slashed with ANTH 48550) This course will provide students with an understanding of the types of biological forensic data utilized in court, and the strengths and weaknesses of these data. Though multiple types of analyses will be discussed, emphasis will be placed on DNA (STR) data, as it is the predominant type of biological evidence used today. The course will also cover the steps required to determine whether a new type of analysis is admissible at trial. Basic courtroom procedures, biases in data interpretation and presentation, case studies, and moot courts will be included.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58623 HUMAN VARIATION 3 Credit Hours
(Slashed with ANTH 48623) A detailed anthropological examination of the causes and extent of modern human variability.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58810 HUMAN PALEONTOLOGY 3 Credit Hours
(Slashed with ANTH 48810) Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58820 HUMAN MUSCULO-SKELETAL SYSTEM 3 Credit Hours
(Slashed with ANTH 48820) A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy, biomechanics, and estimation of age and sex from isolated bones.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58835 PRIMATE ECOLOGY AND CONSERVATION 3 Credit Hours
(Slashed with ANTH 48835) Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes and human and climatic effects on their long-term survival.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58850 NATURAL SELECTION ACCORDING TO DARWIN 3 Credit Hours
(Slashed with ANTH 48850) Darwin's Origin of Species transformed our understanding of the natural world. Although he was not aware of the biological constituents of inheritance (i.e. genetics and the modern synthesis), his three ingredients for a system of descent with modification – variation, inheritance, and sorting – were wildly influential. This course will not only explore how Darwin understood his monumental theory, but also show that Darwin's original proposal explains both biological and cultural evolution. Students will gain an understanding of how Darwin's theory provided a foundation for modern anthropological thought and continues to inform anthropological queries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58889 INTERNATIONAL EXPERIENCE 1-4 Credit Hours
(Slashed with ANTH 48889) Faculty-led study abroad experiences.
Prerequisite: Graduate standing.
Schedule Type: Field Experience, International Experience
Contact Hours: 3-12 other
Grade Mode: Standard Letter

ANTH 68095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) Offered irregularly when unusual resources and/or opportunities permit.
Prerequisite: 6 graduate hours toward MA in Anthropology; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 68096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Readings and/or research supervised by member of graduate faculty. Petition form available in the anthropology department office.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ANTH 68098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Repeated registration permitted. Petition form available in the anthropology department office.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ANTH 68199 THESIS I 2-6 Credit Hours
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester, or distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ANTH 68230 PROBLEMS IN CULTURAL ANTHROPOLOGY 3 Credit Hours
Basic graduate course in cultural anthropology required of all M.A. candidates. Course deals with major topics within this subdiscipline of anthropology.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 68299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ANTH 68199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ANTH 68430 PROBLEMS IN WORLD PREHISTORY 3 Credit Hours
Basic graduate course in prehistoric archaeology required of all M.A. candidates.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 68630 PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY 3 Credit Hours
(Cross-listed with BMS 78630) A graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates, early man.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 68637 BIOANTHROPOLOGICAL DATA ANALYSIS I 5 Credit Hours
(Cross-listed with BMS 78637) Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

ANTH 68638 BIOANTHROPOLOGICAL DATA ANALYSIS II 3 Credit Hours
(Cross-listed with BMS 78638) This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple sample problems and regression methods. It also includes computer application. Graduate standing.
Prerequisite: ANTH 68637 (same course as BMS 78638).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Department of Biological Sciences

Biological Sciences (BSCI)

BSCI 10001 HUMAN BIOLOGY (KBS) 3 Credit Hours
Study of the scientific method and life's properties, emphasizing human biology. Topics include energy, genetics, reproduction, development disease, nutrition and physical fitness in humans. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

BSCI 10002 LIFE ON PLANET EARTH (KBS) 3 Credit Hours
Explores the fascinating breadth of life on Earth including the unique ecology and survival strategies of animals, plants and microbes in their natural habitats. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

BSCI 10003 LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB) 1 Credit Hour
Introductory college-level laboratory in biology for non-majors. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Pre/corequisite: BSCI 10001 or BSCI 10002.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

BSCI 10005 SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS 4 Credit Hours
Identification of anatomy and basic physiological functions of domestic small animals: skeletal, muscles, integumentary, special sense organs, respiratory, digestive, urinary, reproductive, endocrine, nerves, circulatory and immune. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 10110 BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB) 4 Credit Hours
This introductory course examines the biodiversity of life from its origins to present day, including the evolution, ecology, behavior, form, function and reproduction of major groups of organisms. Students must earn a final grade of at least C- in order to meet prerequisites for selected upper-division BSCI courses.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

BSCI 10120 BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB) 4 Credit Hours
This introductory course examines the organization of life from subcellular biochemistry and molecular biology, to genetics, bioenergetics and system homeostasis. Three hours of lecture and three hours of lab weekly. Students must earn a final grade of at least C- in order to meet prerequisites for selected upper-division BSCI courses.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

BSCI 10195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) Selected subjects and/or themes in biology.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 3 Credit Hours
Anatomy and physiology to include organization of the human body, cells, tissues, organs and systems; integumentary, skeletal, muscular and respiratory systems; and overviews of the nervous and circulatory system. This course is taught on Kent State's regional campuses for associate degree programs. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

BSCI 11020 FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 3 Credit Hours
Anatomy and physiology of the circulatory, digestive, urinary, nervous, endocrine and reproductive systems. This course is taught on Kent State's regional campuses for associate degree programs. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 11010; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

BSCI 16001 HORTICULTURAL BOTANY 3 Credit Hours
Provides students with an understanding of the basic anatomy and physiology and growth characteristics of plants. Offered only at the Geauga and Salem campuses. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 20019 BIOLOGICAL STRUCTURE AND FUNCTION 4 Credit Hours
Basic design of human systems emphasizing the physiochemical and cellular bases of organ-system structure, function and development. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 20021 BASIC MICROBIOLOGY 3 Credit Hours
Principles of microorganisms having a direct relationship on the health and well-being of humans. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: ATTR 25057 or BSCI 10005 or BSCI 11010 or BSCI 20019 or BSCI 21010 or EXSC 25057; and CHEM 10050 or CHEM 10055 or CHEM 10058 or CHEM 10060 or CHEM 11060 or NRST 10014.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 20022 BASIC MICROBIOLOGY LABORATORY 1 Credit Hour
Laboratory experience in microbiology. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Corequisite: BSCI 20021.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

BSCI 20195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) Selected subjects and/or themes in Biology.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BSCI 20196 INTRODUCTION TO INDIVIDUAL INVESTIGATION 1-2 Credit Hours
(Repeatable for credit)Introduction to research in the biological sciences under the direction of a BSCI faculty mentor.
Prerequisite: Minimum C grade in 8 hours of BSCI courses; and departmental and faculty mentor approvals required.
Schedule Type: Individual Investigation
Contact Hours: 1-2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours
Anatomy, physiological chemistry, cytology, tissues and homeostatic mechanisms of the integumentary, skeletal, nervous, muscular and sensory systems. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

BSCI 21020 ANATOMY AND PHYSIOLOGY II 4 Credit Hours
Anatomy and physiological processes as related to the following organ systems: endocrine, circulatory, respiratory, digestive, urinary and reproductive. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 21010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: TAG Science

BSCI 26002 ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT 3 Credit Hours
Basic principles of integrated pest management, pesticide application, pest identification and environmental effects. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 16001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 26003 PLANT IDENTIFICATION AND SELECTION I 3 Credit Hours
Identification and selection of horticulturally important plant species. Emphasis on woody species, shrubs and trees. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 16001 and HORT 16003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 26004 PLANT IDENTIFICATION AND SELECTION II 3 Credit Hours
Identification and selection of horticulturally important plant species. Emphasis on herbaceous species, ground covers and vines. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 16001 and HORT 16003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30050 HUMAN GENETICS 3 Credit Hours
Modern concepts of genetics applicable to the human including examination of genetically related diseases and their societal implications. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: Minimum 8 credit hours of Biology (BSCI) courses; and 3 credit hours of Chemistry (CHEM) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30100 NEUROSCIENCE I 3 Credit Hours
(Cross-listed with NEUR 30100) Neuroscience I will cover basic principles in neuroscience from the cellular to systems levels. After completion of the course, students will have a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems, and motor pathways.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour
Orients students toward various career pathways in the biological sciences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 30130 HUMAN PHYSIOLOGY 3 Credit Hours
Integrating mechanisms, pharmacological and pathological considerations for selected organ systems.
Prerequisite: Minimum C- grade in BSCI 20019 (or BSCI 10110 and BSCI 10120); and 4 credit hours of chemistry (CHEM) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30140 CELL BIOLOGY 4 Credit Hours
Investigation of the cell as the fundamental unit of life with an emphasis on the relationship between cellular structure and function.
Prerequisite: Minimum C- grade in the following courses: BSCI 10120; and CHEM 10058 or CHEM 10060 or CHEM 11060; and CHEM 10062.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30156 ELEMENTS OF GENETICS 3 Credit Hours
Principles of organic mechanisms for expression and transmission of traits as studied in molecules, cells, organisms and populations.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and 10120; and MATH 10675 or MATH 10775 or MATH 11010 or MATH 11022 or MATH 12002 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

BSCI 30157 GENETICS LABORATORY 1 Credit Hour
Consists of hands-on experiments with modern computational and molecular biology experimental approaches.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Corequisite: BSCI 30156.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

BSCI 30158 READINGS IN GENETICS 1 Credit Hour
This course emphasizes principles covered in elements of genetics.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Corequisite: BSCI 30156.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 30171 GENERAL MICROBIOLOGY 4 Credit Hours
Fundamental principles of microbiology and organisms including their structure, physiology, genetics, pathogenicity, classification, mechanisms of cultivation and control.
Prerequisite: Minimum C- grade in the following courses: BSCI 10110 and BSCI 30140; and CHEM 10058 or CHEM 10060 or CHEM 11060; and CHEM 10059 or CHEM 10061; and CHEM 10062 and CHEM 10063.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30189 SCIENTIFIC INQUIRY AND OBSERVATION OF THE NATURAL WORLD (DIVG) (ELR) 3 Credit Hours
This course offers the overview of scientific inquiry and methods used in biological and biomedical sciences, using the wealth of biological resources available in Florence. Students actively explore these resources through field trips to biology-related lab sites, visits to science museums and walking tours of relevant sites.
Prerequisite: Special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BSCI 30200 NEUROSCIENCE II 3 Credit Hours
(Cross-listed with NEUR 30200) The course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. The course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control, and higher-order cognitive functioning.
Prerequisite: NEUR 30100 or BSCI 30100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30267 PLANT PHYSIOLOGY 4 Credit Hours
Introduction to biochemical processes in plants and plant cells and how plants grow and maintain their bodies through dynamic interactions with the environment.
Prerequisite: Minimum C- grade in the following courses: BSCI 10110 or BSCI 10120; and CHEM 10058 or CHEM 10060 or CHEM 11060; and CHEM 10062.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30270 GENERAL PLANT BIOLOGY 3 Credit Hours
Covers all topics in modern plant biology, including molecular and cellular biology, physiology, anatomy, development, ecology, evolution and diversity.
Prerequisite: Minimum C- grades in BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30271 GENERAL PLANT BIOLOGY LABORATORY 1 Credit Hour
Laboratory and greenhouse exercises in general plant biology.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Corequisite: BSCI 30270.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

BSCI 30274 FORESTRY 3 Credit Hours
Management of the forest resource within appropriate environmental constraints for sustained use relative to watershed protection, lumber production, recreation and wildlife.
Prerequisite: Minimum C- grade in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30275 LOCAL FLORA (ELR) 4 Credit Hours
Identification and field study of local plants: native, naturalized and cultivated.
Prerequisite: BSCI 10110 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 30277 ECONOMIC BOTANY 3 Credit Hours
Economic botany is the scientific study of plants that are important to humans.It considers how plants are used and how plants have shaped up past and modern cultural development.
Prerequisite: Minimum C- grades in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour
(Cross-listed with NEUR 30300) Accompanying laboratory course to NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception.
Prerequisite: Minimum C grade in NEUR 30100 or BSCI 30100.
Pre/corequisite: NEUR 30200 or BSCI 30200.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

BSCI 30360 GENERAL ECOLOGY 4 Credit Hours
Principles of ecology based on field studies of local plant and animal communities.
Prerequisite: BSCI 10110 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30361 BIOGEOGRAPHY 3 Credit Hours
Geographical distribution of biotic communities with special reference to North America and to their environmental control.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30362 INTRODUCTION TO BIOLOGY OF THE TROPICS 3 Credit Hours
Biology and conservation of tropical ecosystems and organisms.
Prerequisite: Minimum C- grade in BSCI 10110; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30370 CLIMATE CHANGE BIOLOGY 3 Credit Hours
This course focuses on the biological impacts of climate change. It includes background on the issue of the biological consequences of climate change, as well as the history of research, current impacts and projected changes discussed in the Inter-Governmental Panel on Climate Change report, and the controversies of climate-change skeptics. It also includes the biogeochemistry of climate change effects on biology, climate change, and biological interactions, vector-borne infectious diseases, rates of evolution, and Great Lakes biology.
Prerequisite: Minimum C- grade in BSCI 10110; or ENVS 22070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30517 HUMAN ANATOMY 4 Credit Hours
An intensive investigation of the anatomy and development of the human body.
Prerequisite: Senior standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30518 VERTEBRATE ANATOMY 4 Credit Hours
Concepts and methods of functional morphology. Comparative study of vertebrate organs and systems: skeletal, muscular, digestive, respiratory, circulatory, urogenital, nervous and endocrine.
Prerequisite: BSCI 10110 or BSCI 10120 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30520 INTRODUCTION TO NEUROSCIENCE 3 Credit Hours
Basic principles in neuroscience from the cellular to systems level. Covers how the nervous system is organized, how it detects sensory stimuli to create a mental representation of their environment and output pathways by which the nervous system can control movement, hormone levels and physiological processes.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30560 INVERTEBRATE ZOOLOGY 4 Credit Hours
Survey of the animal kingdom emphasizing evolutionary developments.
Prerequisite: BSCI 10110 and BSCI 10120 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30580 ENTOMOLOGY 4 Credit Hours
Classification, biology and ecology of the principal groups of insects.
Prerequisite: BSCI 10110 and BSCI 10120 with a minimum C- grade; and 10 credit hours of Biological Sciences (BIOL) courses.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30582 ORNITHOLOGY 4 Credit Hours
Field study of the natural history of local birds.
Prerequisite: BSCI 10110 and BSCI 10120 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30789 FEASTS AND PLAGUES: THE SCIENCE OF ITALIAN FOOD, WINE AND DISEASE - INTERNATIONAL EXPERIENCE (DIVG) (ELR) 3 Credit Hours
This course explores the microbial mechanisms responsible for plagues such as the Black Death as well as for their positive roles in food and wine production. These costs and benefits are explored in Florence, Italy, since each is ingrained in the city's history, culture, art and biology. Course activities include food and wine tastings and field trips to historical sites and museums in Florence and Siena. This course is designed to appeal to students with a wide array of interests in human health and society. Students analyze genomes of microbes responsible for human disease; discuss ecological and biological factors associated with disease transmission; construct cemetery life tables; discuss the impacts of disease on Italian art, architecture and culture; master knowledge of the fermentation process; and compare and contrast the microbiomes and environments of vineyards in Tuscany vs. California.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BSCI 30889 BEAUTY AND THE BRAIN: EXPLORING FLORENCE THROUGH THE SENSES (DIVG) (ELR) 3 Credit Hours
(Cross-listed with NEUR 30889) This is an introductory sensory neuroscience course for undergraduate students. By exploring the sensory richness of Florence, Italy, students delve into the biology of their sensory systems. Through a combination of field trips, laboratory exercises, lectures and presentations, students learn how our sensory systems function to change diverse environmental signals into information that can be interpreted by the brain. Site visits are used to highlight specific sensory systems and laboratories/lectures provide the conceptual framework. Together, these experiences lay the foundation for students' understanding of vision, taste, smell, touch and hearing in the unique environment of Florence, Italy.
Prerequisite: Special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BSCI 40020 BIOLOGY OF AGING 3 Credit Hours
(Slashed with BSCI 50020) Course covers theories of aging and the normal aging process, dysfunction, and diseases of the elderly categorized by body systems and how nutrition and exercise can offset those changes. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: (ATTR 25057 and ATTR 25058) or BSCI 10001 or (BSCI 11010 and BSCI 11020) or BSCI 20019 or (BSCI 21010 and BSCI 21020) or (EXSC 25057 and EXSC 25058).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40104 INTRODUCTION TO BEEKEEPING 2 Credit Hours
(Slashed with BSCI 50104) Covers basic beekeeping practices and provides students with an in-depth understanding of the honey bee colony through participation in hands-on activities, observation and experimentation.
Prerequisite: BSCI 10110 and 10120 with minimum C- grades; and junior or senior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 40141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 50141 and BSCI 70141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.
Prerequisite: BSCI 30156 and BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40142 BIOENERGETICS 3 Credit Hours
(Slashed with BSCI 50142 and BSCI 70142) Lecture and discussion of respiration and photosynthesis, their origin, development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.
Prerequisite: BSCI 30140 and CHEM 20481 or 30481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours
(Slashed with BSCI 50143 and BSCI 70143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology.
Prerequisite: BSCI 30140; and BSCI 30156 or CHEM 20481 or CHEM 30481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40146 DEVELOPMENTAL BIOLOGY 3 Credit Hours
(Slashed with BSCI 50146 and BSCI 70146) Fundamental concepts and paradigms of development as exemplified by major model organisms. Examines our modern understanding of the molecular, cellular and genetic basis of developmental biology.
Prerequisite: BSCI 30156 with a minimum C grade; and 6 additional credit hours of Biological Sciences (BIOL) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours
(Slashed with BSCI 50147 and BSCI 70147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.
Prerequisite: BSCI 30140; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours
(Slashed with BSCI 50148 and BSCI 70148) Basic principles of infectious disease with emphasis on major human pathogens, including protozoa, bacteria and viruses. Topics include infection establishment, spread within the host, pathology, immunity and host behavior.
Prerequisite: BSCI 30171 and CHEM 10061 and CHEM 10062 and CHEM 10063; and CHEM 10060 or CHEM 11060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours
(Slashed with BSCI 50150 and BSCI 70150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.
Prerequisite: BSCI 30156 and BSCI 30140; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours
(Slashed with BSCI 50151 and BSCI 70151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.
Prerequisite: BSCI 21010 or BSCI 30130 or (BSCI 30140 and NEUR 30100) or BSCI 40430; and BSCI 10120 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours
(Slashed with BSCI 50152 and BSCI 70152) Major concepts and theoretical principles underlying neurological disorders.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours
(Slashed with BSCI 50154 and BSCI 70154) Physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.
Prerequisite: BSCI 40430; or BSCI 30140 and BSCI 30130.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours
(Slashed with BSCI 50157 and BSCI 70157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.
Prerequisite: Minimum C- grades in BSCI 10110 and BSCI 10120; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40158 MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 50158 and BSCI 70158) Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.
Prerequisite: BSCI 30140 and BSCI 30156.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40159 MOLECULAR BIOLOGY LABORATORY (ELR) (WIC) 3 Credit Hours
(Slashed with BSCI 50159 and BSCI 70159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.
Prerequisite: BSCI 30140 and BSCI 30156.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

BSCI 40160 MARINE BIOLOGY 3 Credit Hours
(Slashed with BSCI 50160 and BSCI 70160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40162 SOIL BIOLOGY 3 Credit Hours
(Slashed with BSCI 50162 and BSCI 70162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40163 EVOLUTION 3 Credit Hours
(Slashed with BSCI 50163 and BSCI 70163) History of evolutionary theory, the evidences of evolution, the evolutionary forces and the products of these forces. Lecture three hours weekly.
Prerequisite: BSCI 30156; and 4 credit hours of Biological Sciences (BSCI) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours
(Slashed with BSCI 50166 and BSCI 70166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 40170 STREAM BIOLOGY 3 Credit Hours
(Slashed with BSCI 50170 and BSCI 70170) This course explores the physical, chemical and biological aspects of flowing water ecosystems. We cover topics across many levels of biological organization (individual organisms to communities) and broad geographic extents (habitat patches to global cycles), and process these ranges from simple to complex. The lecture covers basic concepts and the lab supports these concepts with field and lab measurements. The course culminates with independent projects that explore current issues related to human impacts on streams.
Prerequisite: BSCI 10110 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 40174 IMMUNOLOGY 3 Credit Hours
(Slashed with BSCI 50174 and BSCI 70174) This course covers innate and adaptive immune recognition and response, generation of diversity in antigen receptors of T cells and B cells, lymphocyte development and T cell activation and regulation pathways. It also covers immune resistance to infection, mechanisms of allergic responses, autoimmune disease, tissue and organ transplantation and cancer immunology.
Prerequisite: BSCI 30171 and CHEM 10061 and CHEM 10062 and CHEM 10063; and CHEM 10058 or CHEM 10060 or CHEM 11060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40191 SENIOR SEMINAR 1 Credit Hour
(Repeatable for credit)A capstone seminar course to examine biological topics and scientific contributions across subdisciplines. Discussion of current problems in the biological sciences related to societal needs and concerns.
Prerequisite: Biology major; and senior standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 40192 INTERNSHIP IN BIOLOGICAL SCIENCES (ELR) 3-12 Credit Hours
(Repeatable for credit) Work experience and training in the biological sciences under the supervision of appropriate personnel in a government agency, nonprofit organization or business. Maximum of 4 credit hours to count toward BSCI degrees as upper division elective hours.
Prerequisite: 18 hours of Biology; and 2.750 minimum overall GPA in Biology coursework; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 50195 and BSCI 70195) Special topics in biology.
Prerequisite: 18 hours of Biology coursework; and special approval of instructor.
Schedule Type: Laboratory, Lecture
Contact Hours: 1-3 lecture, 2-6 lab
Grade Mode: Standard Letter-IP

BSCI 40196 INDIVIDUAL INVESTIGATION (ELR) 1-3 Credit Hours
(Repeatable for credit) Research study under the direction of a BSCI faculty mentor. May be repeated; however, a maximum of 6 credit hours count toward BSCI degrees as upper-division elective hours.
Prerequisite: A minimum BSCI grade average of 2.750; and at least 18 credit hours of BSCI coursework; and departmental and faculty mentor approvals required.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

BSCI 40199 SENIOR HONORS THESIS (ELR) 1-9 Credit Hours
(Repeatable for credit) Honors thesis research project completed during the senior year with BSCI faculty mentor and research committee. Maximum of 4 credit hours to count toward BSCI degrees as upper division elective hours.
Prerequisite: Departmental faculty mentor; and honors college approval.
Schedule Type: Project or Capstone
Contact Hours: 1-9 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

BSCI 40218 INTRODUCTION TO GENOMICS 3 Credit Hours
(Slashed with BSCI 50218 and BSCI 70218) This course provides an introduction to the structure, organization and function of genomes as well as technological approaches to sequencing and analyzing genomes. Students will explore the application of genomic tools to real-world problems, such as developing sustainable food and fuel supplies, improving disease treatment, understanding biodiversity and protecting the environment.
Prerequisite: Minimum C- grade in BSCI 10110 and BSCI 10120.
Pre/corequisite: BSCI 30156.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40220 BIOINFORMATICS 3 Credit Hours
(Cross-listed with BTEC 40220) (Slashed with BSCI 50220 and BSCI 70220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics and protein structure analysis.
Prerequisite: BSCI 30140 and BSCI 30156 and BSCI 40158.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40221 ECOLOGICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 50221 and BSCI 70221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic and metatranscriptomic data.
Prerequisite: BSCI 30140; and BSCI 30156; and BSCI 30360.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40222 INVASION BIOLOGY 3 Credit Hours
(Slashed with BSCI 50222 and BSCI 70222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.
Prerequisite: BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40224 QUANTITATIVE METHODS IN BIOLOGY 4 Credit Hours
Introduction to the quantitative skills required of practicing biologists (experimental design, graphing, inference, and management of biological data). Real data from biological studies will be used to address fundamental questions in the biological sciences. Laboratory exercises will give experience with spreadsheet and statistical software used by practicing biologists.
Prerequisite: Minimum C- grade in BSCI 10110 or BSCI 10120; and minimum 55 ALEKS math score, or MATH 10675 or MATH 10775 or MATH 11010 with minimum C- grade.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 40242 SEMINAR ON MEDICAL PRACTICE FOR UNDERSERVED POPULATIONS 2 Credit Hours
(Slashed with BSCI 50242). Course will introduce students to primary care and medical practice in rural and urban settings. Physicians and other healthcare practitioners from rural and urban settings will serve as invited speakers in this seminar. Preference for registration will be given to students following the Baccalaureate-MD program with junior standing and minimum 3.500 overall GPA.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 40270 PLANT ECOLOGY 3 Credit Hours
(Slashed with BSCI 50270 and BSCI 70270) Develop knowledge of plant ecology. Learn about the abiotic and biotic effects of plant ecology. Differentiate among population ecology, metapopulation ecology and community ecology as it applies to plants. Use stage-structured population models to understand population dynamics. Learn about resource-ratio models as they apply to plant competition. Study the patterns and mechanisms of succession. BSCI 30360 and/or any courses covering plant science are recommended prior to taking this course.
Prerequisite: BSCI 10110 and BSCI 10120 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40272 PLANT ANATOMY 4 Credit Hours
(Slashed with BSCI 50272 and BSCI 70272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, lab six hours weekly.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 40273 INTRODUCTION TO MYCOLOGY 3 Credit Hours
(Slashed with BSCI 50273 and BSCI 70273) Introduces key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40274 PLANT COMMUNITIES OF OHIO 3 Credit Hours
(Slashed with BSCI 50274 and BSCI 70274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40292 INTERNSHIP IN PRIMARY CARE FOR THE UNDERSERVED (ELR) 2 Credit Hours
Students are placed in internships in urban or rural healthcare settings. Registration preference will be given to students following the Baccalaureate/M.D. pathway and who have junior standing and a minimum 3.500 overall GPA.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours
(Slashed with BSCI 50341 and BSCI 70341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40360 ICHTHYOLOGY 4 Credit Hours
Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 40363 MICROBIAL ECOLOGY 3 Credit Hours
(Slashed with BSCI 50363 and BSCI 70363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; biochemical cycles; current techniques; emphasis on bacteria in aquatic systems.
Prerequisite: BSCI 30171 or BSCI 30360.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

BSCI 40364 LIMNOLOGY 3 Credit Hours
(Slashed with BSCI 50364 and BSCI 70364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.
Prerequisite: BSCI 30360.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40365 FIELD METHODS IN ORNITHOLOGY (ELR) 3 Credit Hours
(Slashed with BSCI 50365 and BSCI 70365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.
Prerequisite: Minimum C- grade in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40368 WETLAND ECOLOGY AND MANAGEMENT (ELR) 4 Credit Hours
(Slashed with BSCI 50368 and BSCI 70368) Lecture, laboratory and field study of the principles of wetland ecology, including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management.
Prerequisite: BSCI 10110 with a minimum C- grade; and 4 credit hours of Biological Sciences (BSCI) courses.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40374 CONSERVATION BIOLOGY (ELR) 4 Credit Hours
(Slashed with BSCI 50374 and BSCI 70374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.
Prerequisite: BSCI 30360.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 50375 and BSCI 70375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.
Prerequisite: BSCI 30360.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 40376 TROPICAL FIELD BIOLOGY AND CONSERVATION (ELR) 5 Credit Hours
(Slashed with BSCI 50376 and BSCI 70376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; junior or senior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 6 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40377 PREPARATION FOR FIELD COURSE TO SOUTH AFRICA 1 Credit Hour
(Slashed with BSCI 50377 and BSCI 70377) Introduction to major issues in field ecology and conservation in South Africa, including the threats to the biological diversity of subtropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses. Three major biomes in South Africa will be studied: the savanna, the fynbos (macchia) and Succulent Karoo (= Cape Floral Kingdom.) Lectures will focus on the geography and history of South Africa, as well as introductions to the major South African biomes. Students will design field projects targeted to South African biomes.
Prerequisite: BSCI 10110 with a minimum C- grade; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture, 0 lab, 0 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 40378 FIELD COURSE TO SOUTH AFRICA (ELR) 4 Credit Hours
(Slashed with BSCI 50378 and BSCI 70378) This course covers all steps of the development and implementation of field-based research in South African environments, including design and analysis. Students write a report, present their research, apply data management and statistical tests appropriate for field courses (including contingency tables, basic t-tests, ANOVA and regression techniques) and develop scientific graphs and figures.
Prerequisite: BSCI 40377.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40380 BIOGEOCHEMISTRY 3 Credit Hours
(Cross-listed with ESCI 40380)(Slashed with BSCI 50380, BSCI 70380 and ESCI 50380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Minimum C grade in the following courses: (BSCI 10110 and BSCI 10120) or (ESCI 11041 or ESCI 11043); and (CHEM 10058 or CHEM 10060) and CHEM 10062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40385 CURRENT TOPICS IN NEUROSCIENCE 3 Credit Hours
(Cross-listed with NEUR 40385)(Slashed with BSCI 50385 and BSCI 70385) This is a discussion- and readings-based course that focuses on cellular and molecular mechanisms underpinning functions of the central nervous system. Topics covered include synaptic plasticity; neuron-glia interactions; gene-environment interactions involved in learning, memory and disease; big data in neuroscience; and more. During this course, students develop knowledge and understanding of communication between brain cells; how gene-environment interactions impact learning and memory, behavior and disease; and modern techniques used in neuroscience research. Students read, summarize and discuss primary research papers in the context of neuroscience-related topics.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40389 ECOLOGY AND NATURAL HISTORY OF MEDITERRANEAN ECOSYSTEMS (DIVG) (ELR) 3 Credit Hours
The Mediterranean basin is a hotspot of diversity made of plant and animal species adapted to survive to hot dry summers and cool wet winters. The origin and drivers of the today's Mediterranean diversity will be examined through this course, and the ecology of this biome will be investigated through textbooks, videos and up-to-date research papers. Impacts of climate change and of human-practices will be considered both on terrestrial and marine ecosystems to give a wide view of the ongoing processes in the considered habitats and conservation strategies will be critically analyzed through discussion.
Prerequisite: BSCI 10110.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BSCI 40429 NEURAL CONTROL OF REPRODUCTIVE FUNCTION 2 Credit Hours
(Cross-listed with NEUR 40429)(Slashed with BSCI 50429 and BSCI 70429) Course explores the role of the brain in regulating functions that are essential to ensure successful reproduction. Topics covered include an overview of the endocrine and neuroendocrine systems involved in reproduction, as well as regulation of puberty, fertility, pregnancy and lactation. The course also explores disorders, such as polycystic ovary syndrome, affecting the central regulation of reproduction.
Prerequisite: BSCI 30130 or BSCI 40430 or NEUR 30100.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 40430 ANIMAL PHYSIOLOGY 3 Credit Hours
Physiologic principles and concepts.
Prerequisite: Minimum C- grade in the following courses: BSCI 10110 and BSCI 10120; and (CHEM 10058 or CHEM 10060) and (CHEM 10059 or CHEM 10061).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40431 NEUROENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 50431 and BSCI 70431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.
Prerequisite: BSCI 30130 or BSCI 40430 or BSCI 40460 or NEUR 30100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40432 ENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 50432 and BSCI 70432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems.
Prerequisite: (BSCI 21010 and BSCI 21020) or BSCI 30130 or (BSCI 30140 and NEUR 30100 and NEUR 30200) or BSCI 40430.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40450 BIOLOGICAL CLOCKS 2 Credit Hours
(Slashed with BSCI 50450 and BSCI 70450) Topics covered include the characteristics of biological clocks; their ecology, molecular biology and neurobiology; the function and organization of sleep; and the medical implications of biological rhythmicity.
Prerequisite: BSCI 30156; and BSCI 30520 or BSCI 40430 or PSYC 41363.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 40460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours
(Slashed with BSCI 50460 and BSCI 70460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.
Prerequisite: BSCI 30140; and junior standing.
Corequisite: BSCI 40462.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour
(Slashed with BSCI 50462 and BSCI 70462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.
Prerequisite: BSCI 30140; and junior standing.
Corequisite: BSCI 40460.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 40463 MEDICAL BIOTECHNOLOGY 3 Credit Hours
(Slashed with BSCI 50463 and BSCI 70463) (Cross-listed BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours
(Slashed with BSCI 50466 and BSCI 70466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40515 ANIMAL BEHAVIOR 3 Credit Hours
(Slashed with BSCI 50515 and BSCI 70515) Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.
Prerequisite: Minimum C- grade in BSCI 10110 and BSCI 10120; and 6 additional credit hours of Biological Sciences (BSCI) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40517 MEDICAL HISTOLOGY 3 Credit Hours
(Slashed with BSCI 50517 and BSCI 70517) Study of the microscopic and submicroscopic structure of the human body in relation to function.
Prerequisite: Minimum C- grade in the following courses: BSCI 10110 and BSCI 10120 and BSCI 30140.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 40519 HORMONES AND BEHAVIOR 3 Credit Hours
(Slashed with BSCI 50519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40520 BEHAVIORAL EVOLUTION (WIC) 3 Credit Hours
(Slashed with BSCI 50520 and BSCI 70520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals.
Prerequisite: BSCI 40163.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

BSCI 40525 WILDLIFE RESOURCES (ELR) 3 Credit Hours
(Slashed with BSCI 50525 and BSCI 70525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic, economic and environmental values are discussed. Lecture three hours weekly.
Prerequisite: Minimum C- grade in BSCI 10110; plus 4 hours of Biology coursework.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40556 VERTEBRATE ZOOLOGY 4 Credit Hours
(Slashed with BSCI 50556 and BSCI 70556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours, lab and field three hours weekly.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 4 hours of Biology coursework.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 40558 MAMMALOGY 3 Credit Hours
(Slashed with BSCI 50558 and BSCI 70558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.
Prerequisite: Minimum C- grade in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40560 HERPETOLOGY 3 Credit Hours
(Slashed with BSCI 50560 and BSCI 70560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.
Prerequisite: Minimum C- grade in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40581 ANIMAL PARASITOLOGY 4 Credit Hours
(Slashed with BSCI 50581) Morphology, physiology, life-histories, systematics and economic importance of parasites. Lecture two hours lab, six hours weekly.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 4 hours of Biology coursework.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES (WIC) 1 Credit Hour
Writing-intensive course taken with a 3- or 4-credit-hour upper-division biology course. This course may be used to satisfy the writing-intensive course requirement with approval of major department.
Prerequisite: Biology major; and junior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

BSCI 40621 ISLAND BIOLOGY: STUDY OF NATURAL LABORATORIES 2 Credit Hours
Islands have long been regarded as important "natural laboratories" that have contributed to the advancements of many scientific disciplines, including evolution, ecology and conservation biology. Although islands comprise only 5% of the world's land surface, they support 30% of the world's biodiversity hotspots, which include rare and recently extinct species. This course provides students with an introduction to island biology and focuses on the following four areas: (1) defining islands and biodiversity, (2) identifying characteristics of islands and their implications for ecology, evolution of biodiversity, (3) understanding dynamics of spatially subsidized food webs on islands, and (4) identifying conservation and management concerns of island biotas. The goal of the course is to increase student awareness and appreciation of islands and associated biodiversity. This course is for students pursuing careers in any biological field including ecology, evolutionary biology, conservation biology, invasive ecology, wildlife management and pre-professional fields.
Prerequisite: BSCI 10110; and junior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 41110 BIOPHOTONICS 3 Credit Hours
(Cross-listed with CHEM 41010 and PHY 41010)(Slashed with BSCI 51110, CHEM 51010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microcopy.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 41120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours
(Slashed with BSCI 51120 and BSCI 71120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50020 BIOLOGY OF AGING 3 Credit Hours
(Slashed with BSCI 40020) Course covers theories of aging and the normal aging process, dysfunction, and diseases of the elderly categorized by body systems and how nutrition and exercise can offset those changes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50104 INTRODUCTION TO BEEKEEPING 2 Credit Hours
(Slashed with BSCI 40104) Covers basic beekeeping practices and provides students with an in-depth understanding of the honey bee colony through participation in hands-on activities, observation and experimentation. This course may not be used to fulfill degree requirements in the MS or MA Biology programs.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 50105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour
This course orients students to graduate studies and to various career pathways in the biological sciences. Students will learn about a variety of possible careers, and prepare application materials needed to enter the workforce or apply to additional graduate programs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 50141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 40141 and BSCI 70141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50142 BIOENERGETICS 3 Credit Hours
(Slashed with BSCI 40142 and BSCI 70142) Lecture and discussion of respiration and photosynthesis, their origin development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.
Prerequisite: BSCI 40430; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40143 and BSCI 70143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50146 DEVELOPMENTAL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40146 and BSCI 70146) Fundamental concepts and paradigms of development as exemplified by major model organisms. Examines our modern understanding of the molecular, cellular and genetic basis of developmental biology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours
(Slashed with BSCI 40147 and BSCI 70147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours
(Slashed with BSCI 40148 and BSCI 70148) Basic principles of infectious disease with emphasis on major human pathogens, including protozoa, bacteria and viruses. Topics include infection establishment, spread within the host, pathology, immunity and host behavior.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours
(Slashed with BSCI 40150 and BSCI 70150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours
(Slashed with BSCI 40151 and BSCI 70151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours
(Slashed with BSCI 40152 and BSCI 70152) Major concepts and theoretical principles underlying neurological disorders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours
(Slashed with BSCI 40154 and BSCI 70154) This course covers physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours
(Slashed with BSCI 40157 and BSCI 70157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50158 MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 40158 and BSCI 70158) Molecular genetics, DNA and RNA structure, chromosomes DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.
Prerequisite: BSCI 30156; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50159 MOLECULAR BIOLOGY LABORATORY 3 Credit Hours
(Slashed with BSCI 40159 and BSCI 70159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.
Prerequisite: Graduate standing; and special approval from instructor.
Schedule Type: Laboratory
Contact Hours: 9 lab
Grade Mode: Standard Letter

BSCI 50160 MARINE BIOLOGY 3 Credit Hours
(Slashed with BSCI 40160 and BSCI 70160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours weekly.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50162 SOIL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40162 and BSCI 70162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50163 EVOLUTION 3 Credit Hours
(Slashed with BSCI 40163 and BSCI 70163) Discussion of the history of evolutionary theory, the evidence of evolution the evolutionary forces and the products of those forces.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours
(Slashed with BSCI 40166 and BSCI 70166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 50170 STREAM BIOLOGY 3 Credit Hours
(Slashed with BSCI 40170 and BSCI 70170) This course explores the physical, chemical and biological aspects of flowing water ecosystems. We cover topics across many levels of biological organization (individual organisms to communities) and broad geographic extents (habitat patches to global cycles), and process these ranges from simple to complex. The lecture covers basic concepts and the lab supports these concepts with field and lab measurements. The course culminates with independent projects that explore current issues related to human impacts on streams.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50174 IMMUNOLOGY 3 Credit Hours
(Slashed with BSCI 40174 and BSCI 70174) This course covers innate and adaptive immune recognition and response, generation of diversity in antigen receptors of T cells and B cells, lymphocyte development and T cell activation and regulation pathways. It also covers immune resistance to infection, mechanisms of allergic responses, autoimmune disease, tissue and organ transplantation and cancer immunology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 40195 and BSCI 70195) Special topics in biology.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Laboratory, Lecture
Contact Hours: 1-3 lecture, 2-6 lab
Grade Mode: Standard Letter-IP

BSCI 50218 INTRODUCTION TO GENOMICS 3 Credit Hours
(Slashed with BSCI 40218 and BSCI 70218) This course provides an introduction to the structure, organization and function of genomes as well as technological approaches to sequencing and analyzing genomes. Students will explore the application of genomic tools to real-world problems, such as developing sustainable food and fuel supplies, improving disease treatment, understanding biodiversity and protecting the environment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50220 BIOINFORMATICS 3 Credit Hours
(Slashed with BSCI 40220, BSCI 70220 and BTEC 40220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50221 ECOLOGICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 40221 and BSCI 70221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic, and metatranscriptomic data.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50222 INVASION BIOLOGY 3 Credit Hours
(Slashed with BSCI 40222 and BSCI 70222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50242 SEMINAR ON MEDICAL PRACTICE FOR UNDERSERVED POPULATIONS 2 Credit Hours
(Slashed with BSCI 40242). Course will introduce students to primary care and medical practice in rural and urban settings. Physicians and other healthcare practitioners from rural and urban settings will serve as invited speakers in this seminar. Preference for registration will be given to students following the MA-MD program.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 50270 PLANT ECOLOGY 3 Credit Hours
(Slashed with BSCI 40270 and BSCI 70270) Develop knowledge of plant ecology. Learn about the abiotic and biotic effects of plant ecology. Differentiate among population ecology, metapopulation ecology and community ecology as it applies to plants. Use stage-structured population models to understand population dynamics. Learn about resource-ratio models as they apply to plant competition. Study the patterns and mechanisms of succession.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50272 PLANT ANATOMY 4 Credit Hours
(Slashed with BSCI 40272 and BSCI 70272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, laboratory six hours weekly.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 1 lab
Grade Mode: Standard Letter

BSCI 50273 INTRODUCTION TO MYCOLOGY 3 Credit Hours
(Slashed with BSCI 40273 and BSCI 70273) Introduces the key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50274 PLANT COMMUNITIES OF OHIO 3 Credit Hours
(Slashed with BSCI 40274 and BSCI 70274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours
(Slashed with BSCI 40341 and BSCI 70341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50360 ICHTHYOLOGY 4 Credit Hours
(Slashed with BSCI 40360 and 70360) Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50363 MICROBIAL ECOLOGY 3 Credit Hours
(Slashed with BSCI 40363 and BSCI 70363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50364 LIMNOLOGY 3 Credit Hours
(Slashed with BSCI 40364 and BSCI 70364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50365 FIELD METHODS IN ORNITHOLOGY 3 Credit Hours
(Slashed with BSCI 40365 and BSCI 70365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50368 WETLAND ECOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 40368 and BSCI 70368) Lecture, laboratory and field study of the principles of wetland ecology, including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50374 CONSERVATION BIOLOGY 4 Credit Hours
(Slashed with BSCI 40374 and BSCI 70374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.
Prerequisite: BSCI 30360; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 50375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 40375 and BSCI 70375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 50376 TROPICAL FIELD BIOLOGY AND CONSERVATION 5 Credit Hours
(Slashed with BSCI 40376 and BSCI 70376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 50377 PREPARATION FOR FIELD COURSE TO SOUTH AFRICA 1 Credit Hour
(Slashed with BSCI 40377 and BSCI 70377) Introduction to major issues in field ecology and conservation in South Africa, including the threats to the biological diversity of subtropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses. Three major biomes in South Africa will be studied: the savanna, the fynbos (macchia) and Succulent Karoo (= Cape Floral Kingdom.) Lectures on the geography and history of South Africa, as well as introductions to the major South African biomes will be covered. Students will design field projects targeted to South African biomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 50378 FIELD COURSE TO SOUTH AFRICA 4 Credit Hours
(Slashed with BSCI 40378 and BSCI 70378) This course covers all steps of the development and implementation of field-based research in South African environments, including design and analysis. Students write a report, present their research, apply data management and statistical tests appropriate for field courses (including contingency tables, basic t-tests, ANOVA and regression techniques) and develop scientific graphs and figures.
Prerequisite: BSCI 50377; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 50380 BIOGEOCHEMISTRY 3 Credit Hours
(Cross-listed with ESCI 50380)(Slashed with BSCI 40380, BSCI 70380 and ESCI 40380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50385 CURRENT TOPICS IN NEUROSCIENCE 3 Credit Hours
(Slashed with BSCI 40385, BSCI 70385 and NEUR 40385) This is a discussion- and readings-based course that focuses on cellular and molecular mechanisms underpinning functions of the central nervous system. Topics covered include synaptic plasticity; neuron-glia interactions; gene-environment interactions involved in learning, memory and disease; big data in neuroscience; and more. During this course, students develop knowledge and understanding of communication between brain cells; how gene-environment interactions impact learning and memory, behavior and disease; and modern techniques used in neuroscience research. Students read, summarize and discuss primary research papers in the context of neuroscience-related topics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50429 NEURAL CONTROL OF REPRODUCTIVE FUNCTION 2 Credit Hours
(Slashed with BSCI 40429, BSCI 70429 and NEUR 40429) Course explores the role of the brain in regulating functions that are essential to ensure successful reproduction. Topics covered include an overview of the endocrine and neuroendocrine systems involved in reproduction, as well as regulation of puberty, fertility, pregnancy and lactation. The course also explores disorders, such as polycystic ovary syndrome, affecting the central regulation of reproduction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 50431 NEUROENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 40431 and BSCI 70431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50432 ENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 40432 and BSCI 70432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems.
Prerequisite: BSCI 40430; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50450 BIOLOGICAL CLOCKS 2 Credit Hours
(Slashed with BSCI 40450 and BSCI 70450) Topics covered include the characteristics of biological clocks; their ecology, molecular biology and neurobiology; the function and organization of sleep; and the medical implications of biological rhythmicity. Students enrolling at the graduate level should have some background in neurobiology and genetics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 50460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours
(Slashed with BSCI 40460 and BSCI 70460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.
Prerequisite: Graduate standing.
Corequisite: BSCI 50462.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour
(Slashed with BSCI 40462 and BSCI 70462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.
Prerequisite: Graduate standing.
Corequisite: BSCI 50460.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 50463 MEDICAL BIOTECHNOLOGY 3 Credit Hours
(Slashed with BSCI 40463, BSCI 70463 and BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours
(Slashed with BSCI 40466 and BSCI 70466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50515 ANIMAL BEHAVIOR 3 Credit Hours
(Slashed with BSCI 40515 and BSCI 70515) Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50517 MEDICAL HISTOLOGY 3 Credit Hours
(Slashed with BSCI 40517 and BSCI 70517) Study of the microscopic and submicroscopic structure of the human body in relation to function.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50519 HORMONES AND BEHAVIOR 3 Credit Hours
(Slashed with BSCI 40519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50520 BEHAVIORAL EVOLUTION 3 Credit Hours
(Slashed with BSCI 40520 and BSCI 70520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals. Students enrolled at the graduate level in the course are expected to have had a course in evolution.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50525 WILDLIFE RESOURCES 3 Credit Hours
(Slashed with BSCI 40525 and BSCI 70525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic economic and environmental values are discussed. Lecture three hours weekly.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50556 VERTEBRATE ZOOLOGY 4 Credit Hours
(Slashed with BSCI 40556 and BSCI 70556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours, laboratory and field three hours weekly.
Prerequisite: 4 hours of Biology; and graduate standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50558 MAMMALOGY 3 Credit Hours
(Slashed with BSCI 40558 and BSCI 70558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50560 HERPETOLOGY 3 Credit Hours
(Slashed with BSCI 40560 and BSCI 70560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50581 ANIMAL PARASITOLOGY 4 Credit Hours
(Slashed with BSCI 40581) Morphology, physiology, life-histories, systematics and economic importance of parasites. Lecture two hours, lab six hours weekly.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 6 other
Grade Mode: Standard Letter

BSCI 51110 BIOPHOTONICS 3 Credit Hours
(Cross-listed with CHEM 51010 and PHY 51010)(Slashed with BSCI 41110, CHEM 41010 and PHY 41010) Interdisciplinary overview of the basics of biophotonics and application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 51120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours
(Slashed with BSCI 41120 and BSCI 71120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 60104 BIOLOGICAL STATISTICS 4 Credit Hours
(Slashed with BSCI 70104) Principles of experimental design and statistical analysis and how to choose and interpret statistical tests using biological data sets.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 60105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour
This course orients students to graduate studies and to various career pathways in the biological sciences. Students will learn about a variety of possible careers, and prepare application materials needed to enter the workforce or apply to additional graduate programs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 60107 REPRODUCIBLE QUANTITATIVE METHODS FOR ECOLOGICAL DATA 4 Credit Hours
(Slashed with BSCI 80107) Using real, data driven examples from ecology and the environmental sciences, this course walks students through the process of scientific analysis and communication in a new, open, technologically enabled framework, and place technical skills in the context of reproducible research philosophy, ethics and regulations. Topics include data management and metadata, reproducible programming, and data visualization.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 60110 CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS 2 Credit Hours
(Cross-listed with BMS 60110)(Slashed with BMS 80110 and BSCI 80110) This course helps prepare graduate students for advanced careers in science. Students learn about a variety of possible careers, prepare application materials and develop their professional oral and writing skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 60144 SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY 1 Credit Hour
(Slashed with BSCI 70144) Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students.
Prerequisite: Graduate standing.
Corequisite: BSCI 50143.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 60145 MEDICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 80145) Explores the relationship and contribution of genetics and genomics to healthcare issues, including disease susceptibility and therapeutic efficacy. Up-to-date genomics concepts and their applications to health care and the challenges of personalized medicine including genetic analyses (e.g., linkage and estimating population risks), ethical issues in genetic testing and therapy, genetic basis of disease processes (e.g., neurological, cardiovascular and neoplastic diseases) and epigenetic processes (that may link the environment to the risk of chronic diseases) are covered. This course requires an understanding of genetics and physiology; students should contact the Department of Biological Sciences to determine if they have the requisite prior training.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 60184 RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES 2 Credit Hours
(Slashed with BSCI 70184) Educates biology graduate students in central aspects of the responsible and effective conduct of research and teaching. Topics include appropriate conduct in the laboratory, effective presentations and issues related to proposal and manuscript preparation and review.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 60191 SEMINAR IN BIOLOGY 1 Credit Hour
(Repeatable for credit) Departmental seminar required of all graduate students.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 70196) Individual investigation in biology.
Prerequisite: Special approval of instructor and graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BSCI 60198 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward degree requirements if department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60200 FOUNDATIONS OF NEUROSCIENCE 3 Credit Hours
(Cross-listed with BMS 60200)(Slashed with BMS 80200 and BSCI 80200) This is a graduate-level introductory neuroscience course that will survey aspects of molecular and cellular neuroscience, the biophysics of the nervous system, basic neuroanatomy, and the homeostatic regulation of the periphery. After completion of this course students should have an understanding of how cells of the nervous system work, how these cells interact with homeostatic systems important to the regulation of peripheral physiology and behavior, and the basic neuroanatomy of these regulatory systems, including major neurotransmitter and neuroendocrine systems. Upon completion of this course, students should be prepared for advanced neuroscience coursework.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: BSCI 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60370 ECOLOGICAL AND EVOLUTIONARY GENETICS 2 Credit Hours
(Slashed with BSCI 70370) Genetic and genomic approaches to studying ecology and evolution in populations and communities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 60371 EVOLUTIONARY BIOLOGY 2 Credit Hours
(Slashed with BSCI 70371) Theoretical and experimental approaches to studying evolution from genes to populations and communities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 60372 COMMUNITIES AND ECOSYSTEMS 2 Credit Hours
(Slashed with BSCI 70372) Theory and experimental approaches to studying community and ecosystem ecology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 60373 POPULATION AND COMMUNITY ECOLOGY 2 Credit Hours
(Slashed with BSCI 70373) Theory and experimental approaches to studying population and community ecology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 60391 SEMINAR IN ECOLOGY 1 Credit Hour
(Slashed with BSCI 70391)(Repeatable for credit) Seminar on topics in animal and plant ecology. Credits earned may be applied to degree if department approves.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours
(Cross-listed with BMS 60462)(Slashed with BMS 70462 and BSCI 80462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.
Prerequisite: BMS 60729 or BMS 70729; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 60491 SEMINAR IN PHYSIOLOGY 1 Credit Hour
(Repeatable for credit)(Slashed with BSCI 70491) Credits may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60630 ADVANCED WRITING IN THE BIOLOGICAL SCIENCES 2 Credit Hours
(Slashed with BSCI 80630) Graduate students will track progress on a substantive writing task (e.g., thesis, dissertation, or manuscript) and complete exercises to enhance their capacity to communicate scientific findings in written formats and overcome barriers to productive writing habits. Students who do not have a specific writing project will work with the instructor to identify a project that aligns with their scholarly development and career goals, including but not limited to grant proposals, fellowship applications, literature review articles, research reports, etc. Students will pass the course by demonstrating consistent participation through attendance, submission of reflections on writing progress, and submission of short-term, skills based writing activities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 0 lab, 0 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 70104 BIOLOGICAL STATISTICS 4 Credit Hours
(Slashed with BSCI 60104) Principles of experimental design and statistical analysis, and how to choose and interpret statistical tests using biological data sets.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 70141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 40141 and BSCI 50141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70142 BIOENERGETICS 3 Credit Hours
(Slashed with BSCI 40142 and BSCI 50142) Lecture and discussion of respiration and photosynthesis, their origin development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.
Prerequisite: BSCI 40430; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40143 and BSCI 50143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70144 SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY 1 Credit Hour
(Slashed with BSCI 60144) Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students.
Prerequisite: Doctoral standing.
Corequisite: BSCI 70143.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 70146 DEVELOPMENTAL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40146 and BSCI 50146) Fundamental concepts and paradigms of development as exemplified by major model organisms. Examines our modern understanding of the molecular, cellular and genetic basis of developmental biology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours
(Slashed with BSCI 40147 and BSCI 50147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours
(Slashed with BSCI 40148 and BSCI 50148) Basic principles of infectious disease with emphasis on major human pathogens, including protozoa, bacteria and viruses. Topics include infection establishment, spread within the host, pathology, immunity and host behavior.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours
(Slashed with BSCI 40150 and BSCI 50150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours
(Slashed with BSCI 40151 and BSCI 50151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours
(Slashed with BSCI 40152 and BSCI 50152) Major concepts and theoretical principles underlying neurological disorders.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours
(Slashed with BSCI 40154 and BSCI 50154) This course covers physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours
(Slashed with BSCI 40157 and BSCI 50157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70158 MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 40158 and BSCI 50158) Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.
Prerequisite: BSCI 30156; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70159 MOLECULAR BIOLOGY LABORATORY 3 Credit Hours
(Slashed with BSCI 40159 and BSCI 50159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.
Prerequisite: Doctoral standing; and special approval from instructor.
Schedule Type: Laboratory
Contact Hours: 9 lab
Grade Mode: Standard Letter

BSCI 70160 MARINE BIOLOGY 3 Credit Hours
(Slashed with BSCI 40160 and BSCI 50160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours weekly.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70162 SOIL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40162 and BSCI 50162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70163 EVOLUTION 3 Credit Hours
(Slashed with BSCI 40163 and BSCI 50163) Discussion of the history of evolutionary theory, the evidence of evolution, the evolutionary forces and the products of those forces.
Prerequisite: BSCI 30156; and 4 credit hours of Biological Sciences (BSCI) courses; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours
(Slashed with BSCI 40166 and BSCI 50166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70170 STREAM BIOLOGY 3 Credit Hours
(Slashed with BSCI 40170 and BSCI 50170) This course explores the physical, chemical and biological aspects of flowing water ecosystems. We cover topics across many levels of biological organization (individual organisms to communities) and broad geographic extents (habitat patches to global cycles), and process these ranges from simple to complex. The lecture covers basic concepts and the lab supports these concepts with field and lab measurements. The course culminates with independent projects that explore current issues related to human impacts on streams.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70174 IMMUNOLOGY 3 Credit Hours
(Slashed with BSCI 40174 and BSCI 50174) This course covers innate and adaptive immune recognition and response, generation of diversity in antigen receptors of T cells and B cells, lymphocyte development and T cell activation and regulation pathways. It also covers immune resistance to infection, mechanisms of allergic responses, autoimmune disease, tissue and organ transplantation and cancer immunology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70184 RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES 2 Credit Hours
(Slashed with BSCI 60184) Educates biology graduate students in central aspects of the responsible and effective conduct of research and teaching. Topics include appropriate conduct in the laboratory, effective presentations and issues related to proposal and manuscript preparation and review.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 70191 SEMINAR IN BIOLOGY 1 Credit Hour
(Repeatable for credit) Departmental seminar required of all graduate students.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 70195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 40195 and BSCI 50195)
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Laboratory, Lecture
Contact Hours: 1-3 lecture, 2-6 lab
Grade Mode: Standard Letter-IP

BSCI 70196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 60196) Individual investigation in biology.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BSCI 70218 INTRODUCTION TO GENOMICS 3 Credit Hours
(Slashed with BSCI 40218 and BSCI 50218) This course provides an introduction to the structure, organization and function of genomes as well as technological approaches to sequencing and analyzing genomes. Students will explore the application of genomic tools to real-world problems, such as developing sustainable food and fuel supplies, improving disease treatment, understanding biodiversity and protecting the environment.
Prerequisite: Doctoral Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70220 BIOINFORMATICS 3 Credit Hours
(Slashed with BSCI 40220, BSCI 50220 and BTEC 40220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70221 ECOLOGICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 40221 and BSCI 50221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic and metatranscriptomic data.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70222 INVASION BIOLOGY 3 Credit Hours
(Slashed with BSCI 40222 and BSCI 50222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70270 PLANT ECOLOGY 3 Credit Hours
(Slashed with BSCI 40270 and BSCI 50270) Develop knowledge of plant ecology. Learn about the abiotic and biotic effects of plant ecology. Differentiate among population ecology, metapopulation ecology and community ecology as it applies to plants. Use stage-structured population models to understand population dynamics. Learn about resource-ratio models as they apply to plant competition. Study the patterns and mechanisms of succession.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70272 PLANT ANATOMY 4 Credit Hours
(Slashed with BSCI 40272 and BSCI 50272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, laboratory six hours weekly.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 0 lab
Grade Mode: Standard Letter

BSCI 70273 INTRODUCTION TO MYCOLOGY 3 Credit Hours
(Slashed with BSCI 40273 and BSCI 50273) Introduces the key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70274 PLANT COMMUNITIES OF OHIO 3 Credit Hours
(Slashed with BSCI 40274 and BSCI 50274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours
(Slashed with BSCI 40341 and BSCI 50341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70360 ICHTHYOLOGY 4 Credit Hours
(Slashed with BSCI 40360 and BSCI 50360) Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70363 MICROBIAL ECOLOGY 3 Credit Hours
(Slashed with BSCI 40363 and BSCI 50363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70364 LIMNOLOGY 3 Credit Hours
(Slashed with BSCI 40364 and BSCI 50364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70365 FIELD METHODS IN ORNITHOLOGY 3 Credit Hours
(Slashed with BSCI 40365 and BSCI 50365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70368 WETLAND ECOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 40368 and BSCI 50368) Lecture, laboratory and field study of the principles of wetland ecology, including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70370 ECOLOGICAL AND EVOLUTIONARY GENETICS 2 Credit Hours
(Slashed with BSCI 60370) Genetic and genomic approaches to studying ecology and evolution in populations and communities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70371 EVOLUTIONARY BIOLOGY 2 Credit Hours
(Slashed with BSCI 60371) Theoretical and experimental approaches to studying evolution from genes to populations and communities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70372 COMMUNITIES AND ECOSYSTEMS 2 Credit Hours
(Slashed with BSCI 60372) Theory and experimental approaches to studying community and ecosystem ecology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70373 POPULATION AND COMMUNITY ECOLOGY 2 Credit Hours
(Slashed with BSCI 60373) Theory and experimental approaches to studying population and community ecology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70374 CONSERVATION BIOLOGY 4 Credit Hours
(Slashed with BSCI 40374 and BSCI 50374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.
Prerequisite: BSCI 30360; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 70375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 40375 and BSCI 50375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 70376 TROPICAL FIELD BIOLOGY AND CONSERVATION 5 Credit Hours
(Slashed with BSCI 40376 and BSCI 50376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 70377 PREPARATION FOR FIELD COURSE TO SOUTH AFRICA 1 Credit Hour
(Slashed with BSCI 40377 and BSCI 50377) Introduction to major issues in field ecology and conservation in South Africa, including the threats to the biological diversity of subtropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses. Three major biomes in South Africa will be studied: the savanna, the fynbos (macchia) and Succulent Karoo (= Cape Floral Kingdom.) Lectures on the geography and history of South Africa, as well as introductions to the major South African biomes will be covered. Students will design field projects targeted to South African biomes.
Prerequisite: Doctoral Standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 70378 FIELD COURSE TO SOUTH AFRICA 4 Credit Hours
(Slashed with BSCI 40378 and BSCI 50378) This course covers all steps of the development and implementation of field-based research in South African environments, including design and analysis. Students write a report, present their research, apply data management and statistical tests appropriate for field courses (including contingency tables, basic t-tests, ANOVA and regression techniques) and develop scientific graphs and figures.
Prerequisite: BSCI 70377; and doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 70380 BIOGEOCHEMISTRY 3 Credit Hours
(Slashed with BSCI 40380, BSCI 50380, ESCI 40380 and ESCI 50380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70385 CURRENT TOPICS IN NEUROSCIENCE 3 Credit Hours
(Slashed with BSCI 40385, BSCI 50385 and NEUR 40385) This is a discussion- and readings-based course that focuses on cellular and molecular mechanisms underpinning functions of the central nervous system. Topics covered include synaptic plasticity; neuron-glia interactions; gene-environment interactions involved in learning, memory and disease; big data in neuroscience; and more. During this course, students develop knowledge and understanding of communication between brain cells; how gene-environment interactions impact learning and memory, behavior and disease; and modern techniques used in neuroscience research. Students read, summarize and discuss primary research papers in the context of neuroscience-related topics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70391 SEMINAR IN ECOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BSCI 60391) Seminar on topics in animal and plant ecology. Credits earned may be applied to degree if department approves.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 70429 NEURAL CONTROL OF REPRODUCTIVE FUNCTION 2 Credit Hours
(Slashed with BSCI 40429, BSCI 50429 and NEUR 40429) Course explores the role of the brain in regulating functions that are essential to ensure successful reproduction. Topics covered include an overview of the endocrine and neuroendocrine systems involved in reproduction, as well as regulation of puberty, fertility, pregnancy and lactation. The course also explores disorders, such as polycystic ovary syndrome, affecting the central regulation of reproduction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70431 NEUROENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 40431 and BSCI 50431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70432 ENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 40432 and BSCI 50432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems.
Prerequisite: BSCI 40430; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70450 BIOLOGICAL CLOCKS 2 Credit Hours
(Slashed with BSCI 40450 and BSCI 50450) Topics covered include the characteristics of biological clocks; their ecology, molecular biology and neurobiology; the function and organization of sleep; and the medical implications of biological rhythmicity. Students enrolling at the graduate level should have some background in neurobiology and genetics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours
(Slashed with BSCI 40460 and BSCI 50460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.
Prerequisite: Doctoral standing.
Corequisite: BSCI 70462.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour
(Slashed with BSCI 40462 and BSCI 50462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.
Prerequisite: Doctoral standing.
Corequisite: BSCI 70460.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 70463 MEDICAL BIOTECHNOLOGY 3 Credit Hours
(Slashed with BSCI 40463, BSCI 50463 and BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours
(Slashed with BSCI 40466 and BSCI 50466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70491 SEMINAR IN PHYSIOLOGY 1 Credit Hour
(Repeatable for credit)(Slashed with BSCI 60491) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 70515 ANIMAL BEHAVIOR 3 Credit Hours
(Slashed with BSCI 40515 and BSCI 50515) Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70517 MEDICAL HISTOLOGY 3 Credit Hours
(Slashed with BSCI 40517 and BSCI 50517) Study of the microscopic and submicroscopic structure of the human body in relation to function.
Prerequisite: 4 credit hours of Biological Sciences (BSCI) courses; and doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70519 HORMONES AND BEHAVIOR 3 Credit Hours
(Slashed with BSCI 40519 and BSCI 50519) Current concepts of hormone and behavior interactions across species.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70520 BEHAVIORAL EVOLUTION 3 Credit Hours
(Slashed with BSCI 40520 and BSCI 50520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals. Students enrolled at the graduate level will be expected to have had a course in evolution.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70525 WILDLIFE RESOURCES 3 Credit Hours
(Slashed with BSCI 40525 and BSCI 50525)Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic economic and environmental values are discussed. Lecture three hours weekly.
Prerequisite: 4 hours of Biology; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70556 VERTEBRATE ZOOLOGY 4 Credit Hours
(Slashed with BSCI 40556 and BSCI 50556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours laboratory and field three hours weekly.
Prerequisite: 4 hours of Biology; and doctoral standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70558 MAMMALOGY 3 Credit Hours
(Slashed with BSCI 40558 and BSCI 50558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70560 HERPETOLOGY 3 Credit Hours
(Slashed with BSCI 40560 and BSCI 50560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 71120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours
(Slashed with BSCI 41120 and BSCI 51120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 80107 REPRODUCIBLE QUANTITATIVE METHODS FOR ECOLOGICAL DATA 4 Credit Hours
(Slashed with BSCI 60107) Using real, data driven examples from ecology and the environmental sciences, this course walks students through the process of scientific analysis and communication in a new, open, technologically enabled framework, and place technical skills in the context of reproducible research philosophy, ethics and regulations. Topics include data management and metadata, reproducible programming, and data visualization.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 80110 CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS 2 Credit Hours
(Cross-listed with BMS 80110)(Slashed with BMS 60110 and BSCI 60110) This course helps prepare graduate students for advanced careers in science. Students learn about a variety of possible careers, prepare application materials and develop their professional oral and writing skills.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 80145 MEDICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 60145) Explores the relationship and contribution of genetics and genomics to healthcare issues, including disease susceptibility and therapeutic efficacy. Up-to-date genomics concepts and their applications to health care and the challenges of personalized medicine including genetic analyses (e.g., linkage and estimating population risks), ethical issues in genetic testing and therapy, genetic basis of disease processes (e.g., neurological, cardiovascular and neoplastic diseases) and epigenetic processes (that may link the environment to the risk of chronic diseases) are covered. This course requires an understanding of genetics and physiology; students should contact the Department of Biological Sciences to determine if they have the requisite prior training.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 80198 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed candidacy examination.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Special approval; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 80200 FOUNDATIONS OF NEUROSCIENCE 3 Credit Hours
(Cross-listed with BMS 80200)(Slashed with BMS 60200 and BSCI 60200) This is a graduate-level introductory neuroscience course that will survey aspects of molecular and cellular neuroscience, the biophysics of the nervous system, basic neuroanatomy, and the homeostatic regulation of the periphery. After completion of this course students should have an understanding of how cells of the nervous system work, how these cells interact with homeostatic systems important to the regulation of peripheral physiology and behavior, and the basic neuroanatomy of these regulatory systems, including major neurotransmitter and neuroendocrine systems. Upon completion of this course, students should be prepared for advanced neuroscience coursework.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: BSCI 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 80462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours
(Cross-listed with BMS 70462)(Slashed with BMS 60462 and BSCI 60462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.
Prerequisite: BMS 60729 or BMS 70729; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 80630 ADVANCED WRITING IN THE BIOLOGICAL SCIENCES 2 Credit Hours
(Slashed with BSCI 60630) Graduate students will track progress on a substantive writing task (e.g., thesis, dissertation, or manuscript) and complete exercises to enhance their capacity to communicate scientific findings in written formats and overcome barriers to productive writing habits. Students who do not have a specific writing project will work with the instructor to identify a project that aligns with their scholarly development and career goals, including but not limited to grant proposals, fellowship applications, literature review articles, research reports, etc. Students will pass the course by demonstrating consistent participation through attendance, submission of reflections on writing progress, and submission of short-term, skills based writing activities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 0 lab, 0 other
Grade Mode: Satisfactory/Unsatisfactory

Clinical Laboratory Sciences (CLS)

CLS 49010 CLINICAL MICROBIOLOGY: THEORY 4 Credit Hours
Theoretical consideration of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 8 other
Grade Mode: Standard Letter-IP

CLS 49011 CLINICAL MICROBIOLOGY: APPLICATIONS 4 Credit Hours
Applied and practical considerations of theoretical aspects of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 8 other
Grade Mode: Standard Letter-IP

CLS 49012 CLINICAL IMMUNOLOGY: THEORY 1 Credit Hour
Theoretical considerations of laboratory practices involving quantitation and detection of antigens and antibodies and the significance of these findings in pathological states.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49013 CLINICAL IMMUNOLOGY: APPLICATIONS 1 Credit Hour
Applied and practical consideration of laboratory practices in immunology and serology relating to diagnosis of disease states.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49014 CLINICAL MYCOLOGY: THEORY AND APPLICATIONS 1 Credit Hour
Theoretical, applied and practical consideration of the isolation, identification and characterization of pathogenic fungi and their relation to human disease states.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49015 CLINICAL PARASITOLOGY: THEORY AND APPLICATIONS 1 Credit Hour
Theoretical, applied and practical considerations of the isolation identification and characterization of human parasites and their relations to pathologic conditions.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49020 CLINICAL CHEMISTRY: THEORY 4 Credit Hours
Theoretical considerations of the principles of clinical chemistry relating to the identification and quantitation of biologically important substances in blood and other body fluids.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 8 other
Grade Mode: Standard Letter-IP

CLS 49021 CLINICAL CHEMISTRY: APPLICATIONS 3 Credit Hours
Applied and practical considerations of clinical chemistry principles relating to significant changes in body fluids as the result of pathologic conditions.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 6 other
Grade Mode: Standard Letter-IP

CLS 49022 URINALYSIS: THEORY 1 Credit Hour
Theoretical considerations of the physiological activities of the renal system together with laboratory principles of analysis of urine and other body fluids.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49023 URINALYSIS: APPLICATIONS 1 Credit Hour
Applied and practical considerations of laboratory practices in urine and other body fluid analysis as aids in diagnosis of disease.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49030 IMMUNOHEMATOLOGY: THEORY 2 Credit Hours
Theoretical consideration of laboratory procedures involved in blood grouping and typing; identification of blood group antigens and antibodies collection and preparation of blood for transfusion.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

CLS 49031 IMMUNOHEMATOLOGY: APPLICATIONS 2 Credit Hours
Applied and practical consideration of laboratory methods for the administration of blood and its components.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

CLS 49032 COAGULATION: THEORY AND APPLICATIONS 1 Credit Hour
Theoretical consideration of the coagulation mechanism and its relation to pathological states; identification of abnormalities and deficiencies.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49033 CLINICAL HEMATOLOGY: THEORY 2 Credit Hours
Theoretical considerations of the development of formed elements; identification of marrow and blood cells; study of normal and abnormal cellular blood components.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

CLS 49034 CLINICAL HEMATOLOGY: APPLICATIONS 2 Credit Hours
Applied and practical consideration of laboratory methods and procedures in identification and enumeration of normal and abnormal formed elements of blood.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

CLS 49040 TOPICS IN LABORATORY MANAGEMENT 1 Credit Hour
Consideration of topics relating to safety, education, personnel, budgeting, scheduling and medical legal problems. Repeatable for a total of 4 hours.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49095 SPECIAL TOPICS IN MEDICAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for a maximum of 4 credit hours) Topical consideration of special techniques encountered in nuclear medicine, cytology, cytogenetics, virology, toxicology and special instrumentation.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2-8 other
Grade Mode: Standard Letter-IP

Department of Chemistry and Biochemistry

Chemistry (CHEM)

CHEM 00020 INTRODUCTION TO CHEMISTRY 2 Credit Hours
Problem-based introduction to the fundamentals of chemistry including significant figures, unit conversions, measurement, structure of matter, energy, composition of matter, atomic structure, the periodic table, introduction to bonding, and the formulas and names of both ionic and covalent compounds. Course does not count toward graduation.
Prerequisite: Math ACT score of 18; or ALEKS math assessment score of 45; or minimum C grade in any MATH course.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 10030 CHEMISTRY IN OUR WORLD (KBS) 3 Credit Hours
A course for non-science majors that utilizes environmental and consumer topics to introduce chemical principles and develop critical-thinking skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

CHEM 10031 CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB) 1 Credit Hour
Discovery-based experiments to introduce chemical principles and develop critical-thinking skills. A course for non-science majors; includes chemistry that is related to environmental and consumer issues.
Pre/corequisite: CHEM 10030.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) 3 Credit Hours
Basic concepts of chemistry (including atomic structure, chemical bonding and reactions) necessary for courses in elementary organic chemistry and physiological chemistry. Students may only receive credit toward graduation for one of the following: CHEM 10050; or CHEM 10060 and CHEM 10061; or CHEM 10970 and CHEM 10971.
Prerequisite: Minimum 16 ACT math score or MATH 10675 or MATH 11009 or MATH 11010 or MATH 11012 or MATH 12002 or MATH 12011 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

CHEM 10055 MOLECULES OF LIFE (KBS) 3 Credit Hours
An integrated introduction to molecular systems and their participation in the processes of life.
Pre/corequisite: MATH 10040 or MATH 10041 or MATH 10772 or MATH 10775 with a minimum C grade or any course between MATH 11009 to MATH 49998; or minimum 55 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences

CHEM 10058 GENERAL CHEMISTRY FOR LIFE SCIENCES I 4 Credit Hours
This is a chemistry course for non-chemistry majors and those who are not on the premed/pre-pharm track. It focuses on fundamental concepts and the development of problem-solving strategies. Students are introduced to a variety of concepts in modern chemistry, emphasizing stoichiometry, introduction to chemical reactions, thermochemistry, periodicity, molecular structure, chemical bonding and behavior of gases. Classroom time is divided into lectures, discussions and problem-solving activities to enable students to develop foundational knowledge. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10058 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Prerequisite: MATH 10675 or MATH 10772 with a minimum C grade; or a pre/co-requisite of MATH 10775 or MATH 11009 or MATH 11010 and minimum 45 ALEKS math score.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 10059 GENERAL CHEMISTRY FOR LIFE SCIENCES II 4 Credit Hours
Continuation of CHEM 10058, emphasizing intermolecular forces, properties of mixtures, kinetics, equilibrium, main group chemistry, acid-base chemistry, thermodynamics and electrochemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10059 or CHEM 10061 or CHEM 10971.
Prerequisite: Minimum C grade in the following courses: CHEM 10058 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 10060 GENERAL CHEMISTRY I (KBS) 4 Credit Hours
(Equivalent to CHEM 11060) This course is a college-level chemistry course for science majors, focusing on fundamental concepts and the development of problem-solving strategies and critical thinking. Students will be introduced to a variety of concepts in modern chemistry, emphasizing stoichiometry, introduction to chemical reactions, thermochemistry, atomic structure, periodicity, molecular structure, chemical bonding, and behavior of gases. Classroom time will be divided into lectures, discussions, and problem-solving activities to enable students to develop both foundational knowledge and analytical skills. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Prerequisite: Minimum 67 ALEKS math score or higher; or ACT MATH score of 27 or higher; or minimum C grade in the following courses: MATH 11010 or MATH 10775 or MATH 10675 or MATH 11009 or MATH 10772.
Pre/corequisite: MATH 11022 or MATH 12002 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science

CHEM 10061 GENERAL CHEMISTRY II (KBS) 4 Credit Hours
Continuation of CHEM 10060, emphasizing intermolecular forces, properties of mixtures, main group chemistry, kinetics, equilibrium, acid-base chemistry, thermodynamics and electrochemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10061 or CHEM 10971.
Prerequisite: Minimum C grade in either CHEM 10060 or CHEM 10970 or CHEM 11060.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science

CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) 1 Credit Hour
Laboratory covering pertinent aspects of CHEM 10060.
Pre/corequisite: CHEM 10058 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB) 1 Credit Hour
Laboratory covering pertinent aspects of CHEM 10061, including qualitative analysis.
Prerequisite: CHEM 10062.
Pre/corequisite: CHEM 10059 or CHEM 10061 or CHEM 10971.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

CHEM 10970 HONORS GENERAL CHEMISTRY I (KBS) 4 Credit Hours
Rigorous general chemistry course for qualified students. Stoichiometry, equilibrium, thermochemistry, atomic structure and chemical bonding, descriptive inorganic and nuclear chemistry.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences

CHEM 10971 HONORS GENERAL CHEMISTRY II (KBS) 4 Credit Hours
A continuation of CHEM 10970. Topics include properties of mixtures, properties of the elements, periodic patterns, organic compounds, kinetics, equilibrium, thermodynamics and electrochemistry.
Prerequisite: Minimum C grade in CHEM 10970.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences

CHEM 11060 GENERAL CHEMISTRY I BOOST (KBS) 6 Credit Hours
(Equivalent to CHEM 10060) This course is a college-level chemistry course for science majors with extended time devoted to fundamental concepts and the development of problem-solving strategies and critical thinking. Students will be introduced to a variety of concepts in modern chemistry, emphasizing stoichiometry, introduction to chemical reactions, thermochemistry, atomic structure, periodicity, molecular structure, chemical bonding, and behavior of gases. This course includes 5 lecture sessions and 1 recitation session. Classroom time will be divided into lectures, discussions, and problem-solving activities to enable students to develop both foundational knowledge and analytical skills. Recitation sessions will include problem-solving with an emphasis on developing core skills. The endpoint of this course is identical to that of CHEM 10060. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Prerequisite: ALEKS math score of 45 or higher and a pre/co-requisite of MATH 11010 or MATH 10775 or MATH 11009; or a prerequisite of MATH 10675 with a minimum C grade or MATH 10772 with a minimum C grade.
Schedule Type: Lecture, Recitation
Contact Hours: 5 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences

CHEM 20095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Selected topics in chemistry.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 20098 INTRODUCTION TO CHEMICAL RESEARCH (ELR) 1-3 Credit Hours
Research experience for freshmen and sophomores. Registration requires prior approval of the research director. Does not count toward the electives for the BS or BA chemistry degree. A written report is required.
Prerequisite: Minimum overall 2.500 GPA in Chemistry and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CHEM 20481 BASIC ORGANIC CHEMISTRY I 4 Credit Hours
Survey of the structure, preparation and reactions (including mechanisms) of organic compounds emphasizing the chemistry of biologically important functional groups. Students may only receive credit toward graduation for one of the following courses: CHEM 10055 or CHEM 20481 or CHEM 30481.
Prerequisite: Minimum C grade in the following courses: CHEM 10059 or CHEM 10061 or CHEM 10971.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 20482 BASIC ORGANIC CHEMISTRY II 2 Credit Hours
Continuation of CHEM 20481, emphasizing the chemistry of functional groups prevalent in biological chemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10055 or CHEM 20482 or CHEM 30482.
Prerequisite: Minimum C grade in CHEM 20481.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 30051 CAREER PATHWAYS IN CHEMISTRY 1 Credit Hour
Designed to introduce students to the wide range of career pathways available in chemistry. Students learn different strategies for identifying and pursuing career opportunities, and develop their communication skills through writing assignments and oral presentations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 30105 ANALYTICAL CHEMISTRY I 3 Credit Hours
Covers the fundamental theory, experimental methods, and applications of analytical chemistry principles in chemistry as well as other related disciplines such as life sciences and environmental science. It covers analytical measurements, experimental error, statistics, chemical equilibrium and titration, spectrometry as well as analytical separation techniques.
Prerequisite: CHEM 10061 or CHEM 10971.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 30106 ANALYTICAL CHEMISTRY II 2 Credit Hours
Covers the theoretical basis and experimental methods of analytical chemistry not considered in Analytical Chemistry I (CHEM 30105), such as noise reduction, advanced chemical equilibria and titrations, electrochemistry, atomic spectroscopy, instrumental design, and sample preparation.
Prerequisite: CHEM 30105.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 30107 ANALYTICAL CHEMISTRY LABORATORY I (WIC) 1 Credit Hour
Fundamental laboratory class for analytical chemistry. Provides hands-on experience to students on the subjects including data treatment, volumetric analysis, spectrophotometry, separation techniques and mass spectroscopy.
Prerequisite: CHEM 10063.
Pre/corequisite: CHEM 30105.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

CHEM 30108 ANALYTICAL CHEMISTRY LABORATORY II (WIC) 2 Credit Hours
Advanced analytical chemistry laboratory class which covers a broad range of modern analytical techniques, including ion-selective electrodes, voltammetry, atomic spectroscopy, mass-spectrometry and capillary electrophoresis. Unlike Analytic Chemistry Laboratory I (CHEM 30107) this class focuses on forensic rather than bioanalytical applications.
Prerequisite: CHEM 30105.
Pre/corequisite: CHEM 30107.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY 4 Credit Hours
Chemistry and metabolism of biochemically important compounds; nature of enzyme action; metabolic regulation and bioenergetics.
Prerequisite: CHEM 20481; or CHEM 30481 and CHEM 30482.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 30301 INORGANIC CHEMISTRY I 3 Credit Hours
Chemistry of hydrogen, ions in aqueous solution, redox reactions, coordination complexes: d-block chemistry, crystal field model, electronic spectra and magnetism, introduction to organometallic chemistry, periodic trends for p-block elements.
Prerequisite: CHEM 10061 or CHEM 10971.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 30475 ORGANIC CHEMISTRY LABORATORY I (ELR) 1 Credit Hour
Practical experience in organic laboratory techniques on both micro- and macroscale: physical methods for purification and characterization of organic compounds, introduction to organic reactions.
Prerequisite: CHEM 10063.
Pre/corequisite: CHEM 20481 or 30481.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, TAG Science

CHEM 30476 ORGANIC CHEMISTRY LABORATORY II 1 Credit Hour
Continuation of CHEM 30475, involving multi-step organic experiments that utilize techniques introduced in CHEM 30475.
Prerequisite: CHEM 30475.
Pre/corequisite: CHEM 20482 or 30482.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 30481 ORGANIC CHEMISTRY I 3 Credit Hours
Introduction to organic chemistry from structural, mechanistic and synthetic viewpoints with an emphasis on the chemistry of biologically relevant functional groups. Students may only receive credit toward graduation for one of the following courses: CHEM 10055 or CHEM 20481 or CHEM 30481.
Prerequisite: Minimum C grade in CHEM 10061 or CHEM 10971.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 30482 ORGANIC CHEMISTRY II 3 Credit Hours
Continuation of CHEM 30481; organic chemistry from mechanistic and synthetic viewpoints; IR and NMR spectroscopy; mass spectrometry. Students may only receive credit toward graduation for one of the following courses: CHEM 10055 or CHEM 20482 or CHEM 30482.
Prerequisite: Minimum C grade in CHEM 30481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 40092 INTERNSHIP IN CHEMISTRY AND BIOCHEMISTRY (ELR) 1-9 Credit Hours
(Repeatable for credit) Workplace experience in chemistry or biochemistry relevant to a student's career objectives. Includes career advising and job search strategies. Comprehensive written report and presentation of activities required after completion of internship.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CHEM 40093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours
(Repeatable for credit) Variable titled workshop in chemistry.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CHEM 40099 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours
(Repeatable for credit)For departmental honors may be started summer prior to senior year. Register each semester during senior year. Minimum total credit 5-hours.
Prerequisite: Departmental and honors college approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 1-10 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

CHEM 40109 BIOANALYTICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50109 and CHEM 70109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. Provides an overview of the fundamental biological targets for bioanalytical assays, such as lipids, peptides, proteins, nucleic acids and cells. Briefly introduces traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Discusses approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.
Prerequisite: CHEM 30105.
Pre/corequisite: CHEM 30284 or CHEM 40245 or CHEM 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40113 CHEMICAL SEPARATIONS 3 Credit Hours
(Cross-listed with CHEM 50113 and CHEM 70113) Theory, instrumentation and applications of chemical separations for chemical analysis with an emphasis on gas and liquid chromatography.
Prerequisite: CHEM 30106.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40115 APPLICATIONS OF SPECTROSCOPY AND IMAGING 3 Credit Hours
(Slashed with CHEM 50115 and CHEM 70115) This course covers the fundamentals of optics, recent developments in spectroscopy and microscopy and their applications in chemistry. Included are methods of optical microscope-based spectroscopy and imaging in relation to analytical chemistry, biochemistry and polymer chemistry research; such as principles and applications of fluorescence spectroscopy, atomic force microscopy, optical tweezer and patch clamp.
Prerequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40195 SPECIAL TOPICS IN ANALYTICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50195 and CHEM 70195) (Repeatable for credit) In depth examination of current topics in analytical chemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40245 BIOCHEMICAL FOUNDATIONS OF MEDICINE 4 Credit Hours
(Slashed with CHEM 50245) Chemistry and metabolism of biologically important compounds; enzyme catalysis; metabolic regulation, inborn and induced errors of metabolism. Does not count toward the B.S. Biochemistry major.
Prerequisite: CHEM 30481.
Pre/corequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 40248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50248 and CHEM 70248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.
Prerequisite: CHEM 30284 or CHEM 40245.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40251 ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC) 2 Credit Hours
Practical experience in the characterization of biomolecules; recombinant DNA technology; electrophoretic separation of macromolecules, affinity purification; mass spectrometric approaches; protein folding; RNA structure, interactions and catalytic mechanisms.
Pre/corequisite: CHEM 40262.
Schedule Type: Lecture
Contact Hours: 6 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

CHEM 40261 BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION 3 Credit Hours
(Slashed with CHEM 50261 and CHEM 70261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphasis on enzymes, membranes and bioenergetics.
Prerequisite: CHEM 20481 or CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40262 BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION 3 Credit Hours
(Slashed with CHEM 50262 and CHEM 70262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, post-translational modification.
Prerequisite: CHEM 30284 OR CHEM 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40263 PHYSICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 50263 and CHEM 70263) Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems, spectroscopy, structure and properties of biological molecules.
Prerequisite: CHEM 40555 or CHEM 40567; and CHEM 30284 or CHEM 40245 or CHEM 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40264 MEDICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 50264 and CHEM 70264) The course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.
Prerequisite: CHEM 40262 or BSCI 40143.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40295 SPECIAL TOPICS IN BIOCHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50295 and CHEM 70295) (Repeatable for credit) In depth examination of current topics in biochemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40302 INORGANIC CHEMISTRY II 2 Credit Hours
(Slashed with CHEM 50302) Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nanomaterials, nanoscience and nanotechnology.
Prerequisite: CHEM 30301.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 40303 INORGANIC CHEMISTRY III 2 Credit Hours
(Slashed with CHEM 50303) Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedra complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends of Groups 1 and 2 and d-block, bioinorganic chemistry.
Prerequisite: CHEM 40302.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 40352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50352 and CHEM 70352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.
Prerequisite: CHEM 40302.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40364 INTERMEDIATE INORGANIC CHEMISTRY LAB 1 Credit Hour
A laboratory course providing experience in the synthesis of significant inorganic compounds and the techniques of various experimental and spectroscopic methods and chromatographic separations.
Prerequisite: CHEM 40302.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

CHEM 40365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50365 and CHEM 70365) Physical methods, s-block metals, metal ion-induced folding, electron transfer proteins, oxidoreductases, substrate binding and activation by non-redox mechanisms, biomineralization, group-atom transfer and metals in medicine.
Prerequisite: CHEM 30301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40395 SPECIAL TOPICS IN INORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50395 and CHEM 70395) (Repeatable for credit) In depth examination of current topics in inorganic chemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50451 and CHEM 70451) Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials.
Prerequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours
(Slashed with CHEM 50476 and CHEM 70476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR, and mass spectrometric data through lectures and problem solving.
Prerequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 40477 INTERMEDIATE ORGANIC CHEMISTRY LABORATORY 1 Credit Hour
(Slashed with CHEM 50477) Continuation of CHEM 30476, including hands-on use of a high-field NMR spectrometer; single and multistep organic syntheses.
Prerequisite: CHEM 30476 and CHEM 40483.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

CHEM 40483 INTERMEDIATE ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 50483 and CHEM 70483) Continuation of CHEM 30482; organic chemistry from mechanistic and synthetic viewpoints, including synthetic design, organotransition metal chemistry and free radical chemistry.
Prerequisite: CHEM 30482 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CHEM 40485 PHYSICAL ORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50485 and CHEM 70485) This course presents a modern view of organic chemistry through the study of organic reaction mechanisms, advanced chemical bonding theories, high-energy intermediates and reactivity patterns common to organic chemical reactions. Emphasis is placed on synthetic organic chemistry with a focus on chemical structure, reactivity, chemical kinetics, thermodynamics, physical and chemical behavior and reaction mechanisms. Central to these investigations is understanding the use of molecular spectroscopy and molecular modeling software as investigative tools. A specific goal of this course is to introduce students to concepts necessary to solving mechanistic organic problems encountered in the research laboratory. The course covers common organic reaction mechanisms, experimental techniques and theoretical approaches to understanding reaction mechanisms. All topics are approached from a structural and mechanistic perspective. Emphasis is also placed on the importance of organic chemistry in biochemical systems. Classroom time is divided into lectures, discussions and problem solving sessions to enable students to develop both advanced knowledge and problem solving skills in organic chemistry.
Prerequisite: Minimum C grade in CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40495 SPECIAL TOPICS IN ORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50495 and CHEM 70495) (Repeatable for credit) In depth examination of current topics in organic chemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50541 and CHEM 70541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.
Prerequisite: CHEM 40556.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40555 PHYSICAL CHEMISTRY I 3 Credit Hours
(Slashed with CHEM 50555 and CHEM 70555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences.
Prerequisite: Minimum C grade in CHEM 10061 or CHEM 10971; and a minimum C grade in MATH 12003; and PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40556 PHYSICAL CHEMISTRY II 3 Credit Hours
(Slashed with CHEM 50556 and CHEM 70556) A continuation of CHEM 40555. Areas covered include quantum mechanics, atomic and molecular structure, spectroscopy, statistical mechanics, theories of reaction rates and the solid state.
Prerequisite: CHEM 40555 or PHY 45301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours
(Slashed with CHEM 50557 and CHEM 70557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data.
Prerequisite: CHEM 40556.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

CHEM 40559 NANOMATERIALS 3 Credit Hours
(Slashed with CHEM 50559 and CHEM 70559) Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.
Prerequisite: CHEM 10061 or CHEM 10971 and; CHEM 40555 or CHEM 40567.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40563 QUANTUM CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50563 and CHEM 70563) This course builds on the physical chemistry course sequence and introduces advanced topics of quantum mechanics and their applications in chemistry and towards understanding the electronic structure of atoms and molecules.
Prerequisite: CHEM 40556.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40564 COMPUTATIONAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50564 and CHEM 70564) The course introduces the theoretical foundations and practical techniques of computational chemistry research.
Pre/corequisite: CHEM 40556 or CHEM 40567.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40567 PHYSICAL CHEMISTRY FOR LIFE SCIENCES 4 Credit Hours
Traditional aspects of physical chemistry with minimal calculus treatment. Applications to the health sciences emphasized.
Prerequisite: Minimum C grade in CHEM 10061 or CHEM 10971; and MATH 12002 or MATH 12021.
Pre/corequisite: PHY 13002 or PHY 23102.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 40568 ELEMENTARY PHYSICAL CHEMISTRY LABORATORY 1 Credit Hour
Provides hands-on experience with calorimetry, viscosimetry and spectroscopic techniques.
Prerequisite: CHEM 40555 or CHEM 40567.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

CHEM 40571 SURFACE CHEMISTRY 2 Credit Hours
(Slashed with CHEM 50571 and CHEM 70571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized. Two hours lecture weekly.
Prerequisite: CHEM 40555 or CHEM 40567.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 40595 SPECIAL TOPICS IN PHYSICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50595 and CHEM 70595) (Repeatable for credit) In depth examination of current topics in physical chemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40795 CURRENT TOPICS IN CHEMICAL EDUCATION 1-3 Credit Hours
(Slashed with CHEM 50795) (Repeatable for credit) Recent advances in chemical research, instrumentation and theory important to chemical educators.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 40796 INDIVIDUAL INVESTIGATION 1-8 Credit Hours
(Repeatable for credit) Registration requires prior approval of the research director. Written report required. Maximum of two hours may be applied to the four hour CHEM 40000 elective requirement for the chemistry concentration within the B.S. in Chemistry.
Prerequisite: Minimum 2.500 overall GPA in Chemistry; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 41010 BIOPHOTONICS 3 Credit Hours
(Slashed with CHEM 51010) (Cross-listed with BSCI 41110 and BSCI 51110 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

CHEM 50093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours
(Repeatable for credit) Variable titled workshop in chemistry.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CHEM 50109 BIOANALYTICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40109 and CHEM 70109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. The course will provide an overview of the fundamental biological targets for the bioanalytical assays, such as lipids, peptides, proteins, nucleic acids, and cells. The course will then briefly introduce traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Finally, the course will discuss approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.
Prerequisite: CHEM 30105; and graduate standing; and special approval.
Corequisite: CHEM 30284 or 40245 or 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50113 CHEMICAL SEPARATIONS 3 Credit Hours
(Slashed with CHEM 40113 and CHEM 70113) Theory, instrumentation and applications of chemical separations for chemical analysis. Emphasis on gas and liquid chromatography.
Prerequisite: CHEM 30106; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50115 APPLICATIONS OF SPECTROSCOPY AND IMAGING 3 Credit Hours
(Slashed with CHEM 40115 and CHEM 70115) This course covers the fundamentals of optics, recent developments in spectroscopy and microscopy and their applications in chemistry. Included are methods of optical microscope-based spectroscopy and imaging in relation to analytical chemistry, biochemistry and polymer chemistry research; such as principles and applications of fluorescence spectroscopy, atomic force microscopy, optical tweezer and patch clamp.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50166 PRINCIPLES AND APPLICATIONS IN ANALYTICAL CHEMISTRY 2 Credit Hours
Survey of important principles and concepts and their application in Analytical Chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50195 SPECIAL TOPICS IN ANALYTICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40195 and CHEM 70195) (Repeatable for credit) In depth examination of current topics in analytical chemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50245 BIOCHEMICAL FOUNDATIONS OF MEDICINE 4 Credit Hours
(Slashed with CHEM 40245) Introduction to chemistry and metabolism of important compounds in biological systems; enzymes and characteristics of enzyme catalysis; regulation of metabolism at molecular, cellular and organism levels; inborn and induced errors of metabolism. Designed and scheduled for and priority given to students in integrated life sciences program.
Prerequisite: CHEM 30481; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 50248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40248 and CHEM 70248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50261 BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION 3 Credit Hours
(Slashed with CHEM 40261 and CHEM 70261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50262 BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION 3 Credit Hours
(Slashed with CHEM 40262 and CHEM 70262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, and post-translational modification.
Prerequisite: CHEM 50261 or CHEM 70261; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50263 PHYSICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 40263 and CHEM 70263) Principles and techniques of physical chemistry used in studying biomacro-molecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules.
Prerequisite: Graduate standing in Chemistry.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50264 MEDICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 40264 and CHEM 70264) Course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50266 PRINCIPLES AND APPLICATIONS IN BIOCHEMISTRY 2 Credit Hours
Survey of important principles and concepts and their application in biochemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

CHEM 50295 SPECIAL TOPICS IN BIOCHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40295 and CHEM 70295) (Repeatable for credit) In depth examination of current topics in biochemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50302 INORGANIC CHEMISTRY II 2 Credit Hours
(Slashed with CHEM 40302) Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nanomaterials, nanoscience and nanotechnology.
Prerequisite: CHEM 30301; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50303 INORGANIC CHEMISTRY III 2 Credit Hours
(Slashed with CHEM 40303) Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedral complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends Groups 1 and 2 and d-block, bioinorganic chemistry.
Prerequisite: CHEM 50302; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40352 and CHEM 70352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40365 and CHEM 70365) Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50366 PRINCIPLES AND APPLICATIONS IN INORGANIC CHEMISTRY 2 Credit Hours
Survey of important principles and concepts and their application in inorganic chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50395 SPECIAL TOPICS IN INORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40395 and CHEM 70395) (Repeatable for credit) In depth examination of current topics in inorganic chemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40451 and CHEM 70451) Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50466 PRINCIPLES AND APPLICATIONS IN ORGANIC CHEMISTRY 2 Credit Hours
Survey of important principles and concepts and their application in Organic Chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours
(Slashed with CHEM 40476 and CHEM 70476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR and mass spectrometric data through lectures and problem solving.
Prerequisite: CHEM 30482; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50477 INTERMEDIATE ORGANIC CHEMISTRY LABORATORY 1 Credit Hour
Continuation of CHEM 30476, including hands-on use of a high-field NMR spectrometer; single and multistep organic syntheses.
Prerequisite: CHEM 50483 and graduate standing.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

CHEM 50483 INTERMEDIATE ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 40483 and CHEM 70483) Organic chemistry from mechanistic and synthetic viewpoints, including synthetic design, organotransition metal chemistry and free radical chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CHEM 50485 PHYSICAL ORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40485 and CHEM 70485) This course presents a modern view of organic chemistry through the study of organic reaction mechanisms, advanced chemical bonding theories, high-energy intermediates and reactivity patterns common to organic chemical reactions. Emphasis is placed on synthetic organic chemistry with a focus on chemical structure, reactivity, chemical kinetics, thermodynamics, physical and chemical behavior and reaction mechanisms. Central to these investigations is understanding the use of molecular spectroscopy and molecular modeling software as investigative tools. A specific goal of this course is to introduce students to concepts necessary to solving mechanistic organic problems encountered in the research laboratory. The course covers common organic reaction mechanisms, experimental techniques and theoretical approaches to understanding reaction mechanisms. All topics are approached from a structural and mechanistic perspective. Emphasis is also placed on the importance of organic chemistry in biochemical systems. Classroom time is divided into lectures, discussions and problem solving sessions to enable students to develop both advanced knowledge and problem solving skills in organic chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50495 SPECIAL TOPICS IN ORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40495 and CHEM 70495) (Repeatable for credit) In depth examination of current topics in organic chemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40541 and CHEM 70541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.
Prerequisite: CHEM 50556; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50555 PHYSICAL CHEMISTRY I 3 Credit Hours
(Slashed with CHEM 40555 and CHEM 70555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing application in chemistry and the biological sciences.
Prerequisite: Graduate standing in Chemistry.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50556 PHYSICAL CHEMISTRY II 3 Credit Hours
(Slashed with CHEM 40556 and CHEM 70556) A continuation of CHEM 50555. Areas covered are chemical kinetics, quantum chemistry and the solid state.
Prerequisite: CHEM 50555 or PHY 45301; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours
(Slashed with CHEM 40557 and CHEM 70557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data.
Prerequisite: Graduate standing.
Pre/corequisite: CHEM 50555 and CHEM 50556.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

CHEM 50559 NANOMATERIALS 3 Credit Hours
(Slashed with CHEM 40559 and CHEM 70559). Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50563 QUANTUM CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40563 and CHEM 70563) This course builds on the physical chemistry course sequence and introduces advanced topics of quantum mechanics and their applications in chemistry and towards understanding the electronic structure of atoms and molecules.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50564 COMPUTATIONAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40564 and CHEM 70564) The course introduces the theoretical foundations and practical techniques of computational chemistry research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50566 PRINCIPLES AND APPLICATIONS IN PHYSICAL CHEMISTRY 2 Credit Hours
Survey of key principles and concepts and their application in Physical Chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50571 SURFACE CHEMISTRY 2 Credit Hours
(Slashed with CHEM 40571 and CHEM 70571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized.
Prerequisite: CHEM 40555 or 40567; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50595 SPECIAL TOPICS IN PHYSICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40595 and CHEM 70595) (Repeatable for credit) In depth examination of current topics in physical chemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50795 CURRENT TOPICS IN CHEMICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CHEM 40795) Designed to present recent advances in chemical research, instrumentation and theory to chemistry educators.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 51010 BIOPHOTONICS 3 Credit Hours
(Slashed with CHEM 41010) (Cross-listed with BSCI 41110 and BSCI 51110 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

CHEM 60099 MASTERS CAPSTONE PROJECT 3-6 Credit Hours
Capstone project in the form of literature reviews or research projects on topics in chemistry, biochemistry, or chemical education.
Prerequisite: Graduate standing.
Schedule Type: Master's Project
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 60254 BIOMEMBRANES 2 Credit Hours
(Slashed with CHEM 70254) Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 60291 SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 70291) Presentation and discussion of research papers from current biochemistry literature. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 60299 THESIS II 2 Credit Hours
Thesis students must continue registration until all degree requirements are met.
Prerequisite: CHEM 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 60327 MODERN INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 70327) Synthesis, structure and reactivity of inorganic compounds including transition metal and organometallic complexes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 60391 SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 70391) Presentation and discussion of research papers from current inorganic chemistry literature. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 60472 ADVANCED ORGANIC CHEMISTRY-SYNTHETIC ASPECTS 3 Credit Hours
(Slashed with CHEM 70472) Disconnection approach to organic synthesis. Modern methods for carbon-carbon bond formation and functional group interconversion, and their application to natural product synthesis.
Prerequisite: CHEM 30482; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 60473 STEREOSELECTIVE ORGANIC SYNTHESIS 3 Credit Hours
(Slashed with CHEM 70473) Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis.
Prerequisite: CHEM 30482; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 60541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours
Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.
Prerequisite: CHEM 50556; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 60591 SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 70591) Presentation and discussion of research papers from current physical chemistry literature. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 60691 SEMINAR: RECENT DEVELOPMENTS IN INDUSTRIAL CHEMISTRY 1 Credit Hour
Presentation and discussion of research papers from the current industrial chemistry field. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

CHEM 60894 COLLEGE TEACHING OF CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 70894) Experience in teaching of chemistry at college level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 60898 MASTERS RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research for master's students. Credits earned may be applied toward degree if department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 61191 SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 71191) Problem solving in analytical chemistry, including chemical analysis methods, instrumentation, sample preparation, and data handling.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 61491 SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 71491) Practical experience in the solving of current problems of synthesis, spectroscopy, and mechanism in organic chemistry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62191 SEMINAR: ANALYTICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72191) Student and faculty presentations on topics in analytical chemistry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62291 SEMINAR: BIOCHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72291) Student and faculty presentations on topics in biochemistry
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62391 SEMINAR: INORGANIC CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72391) Student and faculty presentations on topics in inorganic chemistry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62491 SEMINAR: ORGANIC CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72491) Presentation of topics from the recent literature on aspects of organic chemistry including synthesis, spectroscopy, mechanism, and materials properties.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62591 SEMINAR: PHYSICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72591) Student and faculty presentations on topics in physical chemistry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62691 SEMINAR: INDUSTRIAL CHEMISTRY 1 Credit Hour
Presentation of current research in industrial chemistry. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

CHEM 62791 SEMINAR: CHEMICAL EDUCATION 1 Credit Hour
Presentation of current research in chemical education. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

CHEM 70093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours
(Repeatable for credit)Variable title workshop in Chemistry.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CHEM 70109 BIOANALYTICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40109 and CHEM 50109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. The course will provide an overview of the fundamental biological targets for the bioanalytical assays, such as lipids, peptides, proteins, nucleic acids, and cells. The course will then briefly introduce traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Finally, the course will discuss approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.
Prerequisite: CHEM 30105; and doctoral standing; and special approval.
Corequisite: CHEM 30284 or CHEM 40245 or CHEM 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70113 CHEMICAL SEPARATIONS 3 Credit Hours
(Slashed with CHEM 40113 and CHEM 50113) Theory, instrumentation and applications of chemical separations for chemical analysis. Emphasis on gas and liquid chromatography.
Prerequisite: CHEM 30106; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70115 APPLICATIONS OF SPECTROSCOPY AND IMAGING 3 Credit Hours
(Slashed with CHEM 40115 and CHEM 50115) This course covers the fundamentals of optics, recent developments in spectroscopy and microscopy and their applications in chemistry. Included are methods of optical microscope-based spectroscopy and imaging in relation to analytical chemistry, biochemistry and polymer chemistry research; such as principles and applications of fluorescence spectroscopy, atomic force microscopy, optical tweezer and patch clamp.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70195 SPECIAL TOPICS IN ANALYTICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40195 and CHEM 50195) (Repeatable for credit) In depth examination of current topics in analytical chemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40248 and CHEM 50248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70254 BIOMEMBRANES 2 Credit Hours
(Slashed with CHEM 60254) Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 70261 BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION 3 Credit Hours
(Slashed with CHEM 40261 and CHEM 50261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70262 BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION 3 Credit Hours
(Slashed with CHEM 40262 and CHEM 50262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, and post-translational modification.
Prerequisite: CHEM 50261 or CHEM 70261; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70263 PHYSICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 40263 and CHEM 50263) Principles and techniques of physical chemistry used in studying biomacro-molecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules.
Prerequisite: Doctoral standing in Chemistry.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70264 MEDICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 40264 and CHEM 50264) The course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70291 SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY 1 Credit Hour
(Slashed with CHEM 60291)(Repeatable for credit) Presentation and discussion of research papers from current biochemistry literature. Participation by students and faculty.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 70295 SPECIAL TOPICS IN BIOCHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40295 and CHEM 50295) (Repeatable for credit) In depth examination of current topics in biochemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70327 MODERN INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 60327) Synthesis, structure and reactivity of inorganic compounds including transition metal and organometallic complexes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40352 and CHEM 50352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40365 and CHEM 50365) Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine.
Prerequisite: CHEM 30301; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70391 SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 60391)(Repeatable for credit) Presentation and discussion of research papers from current inorganic chemistry literature. Participation by students and faculty.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 70395 SPECIAL TOPICS IN INORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40395 and CHEM 50395) (Repeatable for credit) In depth examination of current topics in inorganic chemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40451 and CHEM 50451) Broad survey of the synthesis, properties characterization and applications of organic and polymeric materials.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70472 ADVANCED ORGANIC CHEMISTRY-SYNTHETIC ASPECTS 3 Credit Hours
(Slashed with CHEM 60472) Disconnection approach to organic synthesis. Modern methods for carbon-carbon bond formation and functional group interconversion, and their application to natural product synthesis. Doctoral standing.
Prerequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70473 STEREOSELECTIVE ORGANIC SYNTHESIS 3 Credit Hours
(Slashed with CHEM 60473) Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis.
Prerequisite: CHEM 30482; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours
(Slashed with CHEM 40476 and CHEM 50476) Strategies for structural elucidation of organic compounds from analysis of infraret, proton and carbon NMR, and mass spectrometric data through lectures and problem solving.
Prerequisite: CHEM 30482; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 70483 INTERMEDIATE ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 40483 and CHEM 50483) Organic chemistry from mechanistic and synthetic viewpoints, including synthetic design, organotransition metal chemistry and free radical chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CHEM 70485 PHYSICAL ORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40485 and CHEM 50485) This course presents a modern view of organic chemistry through the study of organic reaction mechanisms, advanced chemical bonding theories, high-energy intermediates and reactivity patterns common to organic chemical reactions. Emphasis is placed on synthetic organic chemistry with a focus on chemical structure, reactivity, chemical kinetics, thermodynamics, physical and chemical behavior and reaction mechanisms. Central to these investigations is understanding the use of molecular spectroscopy and molecular modeling software as investigative tools. A specific goal of this course is to introduce students to concepts necessary to solving mechanistic organic problems encountered in the research laboratory. The course covers common organic reaction mechanisms, experimental techniques and theoretical approaches to understanding reaction mechanisms. All topics are approached from a structural and mechanistic perspective. Emphasis is also placed on the importance of organic chemistry in biochemical systems. Classroom time is divided into lectures, discussions and problem solving sessions to enable students to develop both advanced knowledge and problem solving skills in organic chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70495 SPECIAL TOPICS IN ORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40495 and CHEM 50495) (Repeatable for credit) In depth examination of current topics in organic chemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40541 and CHEM 50541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70555 PHYSICAL CHEMISTRY I 3 Credit Hours
(Slashed with CHEM 40555 and CHEM 50555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences.
Prerequisite: Doctoral standing in Chemistry.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70556 PHYSICAL CHEMISTRY II 3 Credit Hours
(Slashed with CHEM 40556 and CHEM 50556) Fundamental concepts of physical chemistry of current interest. Included are biological and medical aspects of physical chemistry. Graduate credit given to nonchemistry and nonphysics majors and with permission to certain chemistry majors.
Prerequisite: CHEM 50555 or 70555; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours
(Slashed with CHEM 40557 and CHEM 50557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data correlation of results with theory and an introduction to the computer treatment of data.
Prerequisite: Doctoral standing.
Pre/corequisite: CHEM 70555 and CHEM 70556.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

CHEM 70559 NANOMATERIALS 3 Credit Hours
(Slashed with CHEM 40559 and CHEM 50559) Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70563 QUANTUM CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40563 and CHEM 50563) This course builds on the physical chemistry course sequence and introduces advanced topics of quantum mechanics and their applications in chemistry and towards understanding the electronic structure of atoms and molecules.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70564 COMPUTATIONAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40564 and CHEM 50564) The course introduces the theoretical foundations and practical techniques of computational chemistry research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70571 SURFACE CHEMISTRY 2 Credit Hours
(Slashed with CHEM 40571 and CHEM 50571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized.
Prerequisite: CHEM 40555 or CHEM 40567; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 70591 SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY 1 Credit Hour
(Slashed with CHEM 60591)(Repeatable for credit) Presentation and discussion of research papers from current physical chemistry literature. Participation by students and faculty.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 70595 SPECIAL TOPICS IN PHYSICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40595 and CHEM 50595) (Repeatable for credit) In depth examination of current topics in physical chemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70894 COLLEGE TEACHING OF CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 60894) Experience in teaching of chemistry at college level.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 71191 SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY 1 Credit Hour
(Slashed with CHEM 61191)(Repeatable for credit) Problem solving in analytical chemistry, including chemical analysis methods, instrumentation, sample preparation, and data handling.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 71491 SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 61491)(Repeatable for credit) Practical experience in the solving of current problems of synthesis, spectroscopy, and mechanism in organic chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72191 SEMINAR: ANALYTICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 62191) Student and faculty presentations on topics in analytical chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72291 SEMINAR: BIOCHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 62291) Student and faculty presentations on topics in biochemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72391 SEMINAR: INORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 62391)(Repeatable for credit) Student and faculty presentations on topics in inorganic chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72491 SEMINAR: ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 62491)(Repeatable for credit) Presentation of topics from the recent literature on aspects of organic chemistry including synthesis, spectroscopy, mechanism, and materials properties.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72591 SEMINAR: PHYSICAL CHEMISTRY 1 Credit Hour
(Slashed with CHEM 62591)(Repeatable for credit) Student and faculty presentations on topics in physical chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: CHEM 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 80898 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree if department approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Department of Computer Science

Computer Science (CS)

CS 10001 COMPUTER LITERACY 3 Credit Hours
Introduction to history, language, procedures, applications, abuses and impact of computers. Hands-on experience with microcomputers. Not open to students with previous experience.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

CS 10051 COMPUTER SCIENCE PRINCIPLES (KMCR) 4 Credit Hours
An introductory, broad and hands-on coverage of aspects of computer science, including algorithms, problem solving, operating systems concepts, computer architecture, programming languages and modern applications.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

CS 10062 PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES 4 Credit Hours
Solving problems in a science frequently requires a knowledge of programming. This course provides an introduction to using programs to solve problems. It is designed for majors and non-majors who have had little or no prior programming experience. The course emphasizes a hands-on, team-based approach to learning programming and problem solving.
Prerequisite: Minimum 55 ALEKS math score or minimum C grade in either MATH 11009 (or MATH 10772) or MATH 11010 (or MATH 10775 or MATH 10675).
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 13001 COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING 4 Credit Hours
Computer science concepts, including algorithm development and problem-solving strategies focused on procedural abstraction. High-level programming concepts, including data types, expressions, program structures, functions, parameter passing, scope, extent, arrays, introduction to recursion and an introduction to object oriented-concepts.
Prerequisite: MATH 11022 or MATH 12002 or MATH 12011; or minimum C grade in one of the following courses: MATH 10675 or MATH 10775 or MATH 11010; or minimum 67 ALEKS math score.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 13011 COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING 2 Credit Hours
Computer science concepts, including algorithm development and problem-solving strategies focused on programming abstractions. High-level programming concepts, including variables, branching, iteration and functions.
Prerequisite: MATH 11022 or MATH 12002 or MATH 12011; or minimum C grade in one of the following courses: MATH 10675 or MATH 10775 or MATH 11010; or minimum 67 ALEKS math score.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

CS 13012 COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING 2 Credit Hours
Computer science concepts, including algorithm development and problem-solving strategies focused on programming abstractions. High-level programming concepts, including introduction to recursion and object-oriented concepts.
Prerequisite: CS 13011 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

CS 19995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Special topics from all areas of computer science.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 20062 ADVANCED PROGRAMMING WITH PYTHON 4 Credit Hours
This course introduces students to advanced computer programming design and development with the main focus on data structures and abstraction using Python. Students learn basic object-oriented and GUI programming and graph algorithm applications.
Prerequisite: CS 10062 or CS 13001 or CS 13012.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 23001 COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION 4 Credit Hours
Advanced computer programming design, and development with a primary focus on data structures and abstraction using an object oriented programming language.
Prerequisite: Minimum C grade in CS 13001 or CS 13012.
Corequisite: CS 23022.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE 3 Credit Hours
(Cross-listed with MATH 23022) Discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling. Specific topics include propositional and predicate logic and logical modeling using Boolean algebra and logical gates, information representation using binary system, sets, functions, relations, logical argumentation and proof techniques, recursion and recursive modeling, sequences and summation, arithmetic and geometric progressions, algorithms, iterative vs recursive algorithms, mathematical and structural induction, recursive structures, counting, permutation and combination, binomial expansion, matrices and matrix-operations, graphs and trees and their traversal, probability and Bayes' theorem, finite state machines, their modeling and applications, Regular grammar, basics of number theory, modeling computation and Turing machines, decidability and halting problem.
Prerequisite: Minimum C grade in MATH 11009 or MATH 11010 or MATH 11022, or ALEKS score of 78.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 23301 ROBOTICS AND EMBEDDED SYSTEMS LABORATORY I 1 Credit Hour
This course provides a team based, hands-on introduction to linking and programming robotic and embedded systems. Students in this course work with junior and senior level students on projects building devices that require linking and programming robotic and embedded systems.
Prerequisite: Minimum C grade in CS 13001 or CS 13012.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

CS 23302 ROBOTICS AND EMBEDDED SYSTEMS LABORATORY II 2 Credit Hours
This course is the second computer science course on linking and programming robotic and embedded systems in a team based, hands-on environment. Students in this course work with junior and senior level students on projects building devices that require linking and programming robotic and embedded systems.
Prerequisite: CS 23001 and CS 23301 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

CS 29995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Special topics from all areas of computer science.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 30062 PYTHON FOR DATA SCIENCE 3 Credit Hours
This course will introduce basic topics in the field of data science, including data collection, storage, manipulation, and visualization, as well as the area of machine learning. Specifically, students will learn how to use Python to import, clean, analyze, visualize, and learn data for real-world applications.
Prerequisite: CS 20062 or CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 32301 HUMAN INTERFACE COMPUTING 3 Credit Hours
Foundations of human computer interaction including interaction design. Foundations of graphics and visualization. Basic concepts in security and secure design including cryptography. Introduction to intelligent systems including basic knowledge representation and basic machine learning.
Prerequisite: Minimum C grade in CS 20062 or CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33007 INTRODUCTION TO DATABASE SYSTEM DESIGN 3 Credit Hours
An introduction to the basic theoretical aspects of database systems, file organization, search methodologies, language design and performance evaluation techniques, initial modeling concepts and their use in hierarchical, network, relational and object-oriented database designs.
Prerequisite: Minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33011 SPEED PROGRAMMING TECHNIQUES 3 Credit Hours
Discussion and practice of pertinent aspects related to programming under time constraints.
Prerequisite: CS 23001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

CS 33092 SPEED PROGRAMMING PRACTICUM (ELR) 2 Credit Hours
(Repeatable for credit) Practice of pertinent aspects from CS 33011.
Prerequisite: CS 33011.
Schedule Type: Practical Experience
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CS 33101 STRUCTURE OF PROGRAMMING LANGUAGES 3 Credit Hours
Introduction to grammar, discrete and data structure concepts, syntax, semantics, abstraction, Advanced Programming Constructs, implementation model for imperative languages, dynamic memory management, type theory, concurrent programming, functional programming, logic programming, object oriented programming, event driven programming.
Prerequisite: Minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33192 INTERNSHIP IN COMPUTER SCIENCE (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience in computer science. Since this work will be outside the department a report and final presentation will be required; a site visit might also be necessary.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CS 33211 OPERATING SYSTEMS 3 Credit Hours
Introduction to operating systems, processes and threads, CPU scheduling, mutual exclusion and synchronization, deadlock, memory management, file systems, security, networking and distributed systems and current topics. systems.
Prerequisite: Minimum C grade in CS 23001.
Pre/corequisite: CS 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33223 UNIX TOOLS 3 Credit Hours
Course will cover UNIX operating system environment topics that will make the user more productive. Topics will include the user environment, shells, files, the file system, editors, scripting languages, document processing, processes, remote access and documentation.
Prerequisite: CS 13001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33301 EMBEDDED SYSTEM PROGRAMMING 3 Credit Hours
An embedded system is a combination of computer hardware and software specifically designed for a particular function. Embedded systems have been playing important roles in various application areas such as industrial machines, automobiles, medical equipment, cameras, household appliances, airplanes, vending machines, toys and other uses. Students will learn fundamental concepts of designing and programming embedded computer systems, including requirements specifications, architectural and detailed design, and implementation, focusing on real-time aspects of programming languages, operating system kernels, and hardware architectures.
Prerequisite: Minimum C grade in CS 23001.
Corequisite: CS 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33302 INTRODUCTION TO INTELLIGENT ROBOTICS 3 Credit Hours
This course introduces students to the basic knowledge of programming of robotic systems, including algorithmic modeling and design, geometric motion planning and robot operating systems, all for making intelligent robots. Computer science is an integral part of robotics as it includes areas such as computer algorithms, computational geometry, artificial intelligence, machine learning and image processing. The material covered in this course consists of a brief description of the intrinsic geometry, kinematics, statics, mechanics and controls of robotic systems and goes deeper into developing algorithms and useful software libraries. In addition, this course introduces practical examples and performance results using them with hands-on experience in a lab setting.
Prerequisite: CS 20062 or CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33901 SOFTWARE ENGINEERING 3 Credit Hours
An introduction to software engineering concepts: life cycle models; modeling languages; requirements analysis; specification; design; testing; validation; project management and maintenance.
Prerequisite: Minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 35101 COMPUTER ORGANIZATION 3 Credit Hours
Computer system organization, including performance measures, instruction sets, computer arithmetic, central processing unit, pipelining, memory hierarchy and parallel processors.
Prerequisite: Minimum C grade in the following courses: CS 10062 or CS 13001; or CS 13011 and CS 13012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 35201 COMPUTER COMMUNICATION NETWORKS 3 Credit Hours
An introduction to net-centric systems, data communication protocols, network architectures, routing protocols, network management, congestion control, network security, compression techniques, mobile and wireless networks and WWW as an example of a client-server system.
Prerequisite: CS 20062 or CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 38101 INTRODUCTION TO GAME PROGRAMMING 3 Credit Hours
Game engine scripting, event driven and data driven programming, game engine data structures, basic game related graphics and AI concepts, a short game development project.
Prerequisite: Minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 39995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Special topics from all areas of computer science.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 40510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with MCLS 40510)(Slashed with CS 50510, CS 70510, MCLS 50510 and MCLS 70510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 41038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with MATH 41038 and PHIL 41038)(Slashed with MATH 51038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics.
Prerequisite: Computer Science major or minor; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 42201 NUMERICAL LINEAR ALGEBRA 3 Credit Hours
(Cross-listed with MATH 42201)(Slashed with CS 52201 and MATH 52201) Fundamentals of numerical linear algebra; solving linear systems; QR factorization and least squares; iterative methods for eigenvalue problems.
Prerequisite: Minimum C grade in the following courses CS 13001 or (CS 13011 and CS 13012); and MATH 12003 or MATH 12013; and MATH 21001 or MATH 21002 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 42202 NUMERICAL APPROXIMATION AND OPTIMIZATION 3 Credit Hours
(Cross-listed with MATH 42202)(Slashed with CS 52202 and MATH 52202) This course introduces numerical methods for solving nonlinear equations, optimizing functions, performing interpolation, computing differentiation and integration and solving differential equations.
Prerequisite: Minimum C grade in the following courses: (MATH 22005 and MATH 32044) or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43016 BIG DATA ANALYTICS 3 Credit Hours
This course will introduce the state-of-art computing platforms with the focus on how to utilize them in processing (managing and analyzing) massive datasets. The course will utilize several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank, and massive graph analytics as the case study for large scale data processing.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43105 DATA MINING TECHNIQUES 3 Credit Hours
Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining, covering a set of interesting topics, including association rule mining, clustering, classification, web mining, etc. It covers the basics of some important theoretical foundations for data mining, including linear regression, Bayesian inferences, information theory, and markov chain random walk.
Prerequisite: CS 33007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43118 GRAPH AND SOCIAL NETWORK ANALYSIS 3 Credit Hours
(Slashed with CS 53118 and CS 73118) Catalog Description: This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph database.
Prerequisite: CS 33007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43202 SYSTEMS ADMINISTRATION 3 Credit Hours
(Slashed with CS 53202) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX, together with the analysis of problems which can arise in these activities.
Prerequisite: CS 33211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43203 SYSTEMS PROGRAMMING 3 Credit Hours
(Slashed with CS 53203) This course provides an in-depth exploration of the Unix/Linux operating system's structure while teaching students how to write system and network programs. It is ideal for those interested in developing system software for Unix/Linux or gaining a deeper understanding of a multi-tasking, multi-user operating system. The course covers key topics, including the file system, terminal and device input/output, multi-tasking, inter-process communication, video display management and network programming. Theoretical concepts are integrated with practical examples of how Unix implements them. By the end of the course, students have the skills to understand how most Unix commands function and are capable of drafting their own versions of many common commands.
Prerequisite: CS 33211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43301 SOFTWARE DEVELOPMENT FOR ROBOTICS 3 Credit Hours
(Slashed with CS 53301) Robots are being used in multiple places that are not easily accessible for humans to support the lack of available labor and gain extra precision, and for cost-effective manufacturing processes, monitoring, space exploration, precision surgery and artificial limb support for elderly and physically challenged persons. Computer science is an integral part of robotics as it includes areas such as computer algorithms, artificial intelligence and image processing, which are essential aspects of robotics. This first course on robotics teaches students various motions of rigid robots; mathematics and algorithms related to these motions; motion planning; obstacle avoidance; and intelligent path planning, including the use of various sensors. In addition, students learn Robot Operating System (ROS) and ROS programming which provide a structured, modular and well-supported environment that facilitates understanding and experimentation in the field of robotics.
Prerequisite: Minimum C grade in the following courses: CS 23001; and CS 33301 or CS 33302.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43302 ALGORITHMIC ROBOTICS 3 Credit Hours
(Slashed with CS 53302 and CS 73302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.
Prerequisite: CS 33301 and CS 43301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43303 INTERNET OF THINGS 3 Credit Hours
(Slashed with CS 53303 and CS 73303) This course will provide a comprehensive an understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.
Prerequisite: CS 33301 or CS 45231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43305 ADVANCED DIGITAL DESIGN 3 Credit Hours
(Slashed with CS 53305) This course describes techniques in the design of digital systems. Topics covered include combinational and sequential logic, gate-level minimization, registers and counters, memory and programmable logic, hardware description languages, digital communication including serial and parallel and synchronous and asynchronous methods.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43334 HUMAN-ROBOT INTERACTION 3 Credit Hours
(Slashed with CS 53334 and CS 73334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.
Prerequisite: CS 33301 and CS 43301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43401 SECURE PROGRAMMING 3 Credit Hours
Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and cryptography, random number generators.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44001 COMPUTER SCIENCE III - PROGRAMMING PATTERNS 4 Credit Hours
(Slashed with CS 54001) Extends students' knowledge of object-oriented programming, and improves their C++ programming skills. Specifically, the course covers procedural and object-based programming, inheritance, polymorphism, popular design patterns and generic programming.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 44003 MOBILE APPS IN IOS PROGRAMMING 3 Credit Hours
(Slashed with CS 54003) Students are introduced to mobile applications programming in the iOS environment using model, view, controller paradigms. Other topics include swift, programming using on board devices like GPS, cameras, motion detectors, and screen touches.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44004 DRONE PROGRAMMING 3 Credit Hours
(Slashed with CS 54004) This course describes the design, programming and control of autonomous drones. Topics covered include drone software and hardware architecture, use case models, interoperability, trajectory programming, flight control programming and sensors. Students apply this knowledge in the context of programming assignments with a drone simulator. Subsequently, students develop custom programs designed to control and fly autonomous drones.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44105 WEB PROGRAMMING I 3 Credit Hours
(Slashed with CS 54105) This course is the first of a two-course sequence on Web Programming covering from basic to advanced topics on Web Programming based on open standards and best practices. Topics covered include the HyperText Markup Language (HTML), specifying look and feel using Cascading Style Sheets (CSS), client side programming in Javascript, server side programming in PHP, and the Hypertext Transfer Protocol (HTTP).
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44106 WEB PROGRAMMING II 3 Credit Hours
(Slashed with CS 54106) This course is the second of a two-course sequence on Web Programming covering advanced topics on Web Programming based on open standards and best practices. This is a project course exploring advanced aspects of Web programming. Topics covered include advanced server side programming in PHP; database driven websites; structured query language (SQL) and MySQL; E-commerce; web hosting using Apache, PHP and MySQL; basic and digest authentication; web security, encryption and digital certificates; Extensible Markup Language (XML) for the web, AJAX and web services; scalable vector graphics (SVG); mobile websites.
Prerequisite: CS 44105.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44201 ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CS 54201) Computational intelligence concepts and methods such as modeling real-world problems as state-space search problems; heuristics, local and meta-heuristics search; game playing and adversarial search; constraint-based problem solving and optimization; automated machine learning theory and techniques; Knowledge based systems including logical inference techniques, fuzzy logic and case-based reasoning; probabilistic and uncertainty-based reasoning; ontology and semantic networks, and planning
Prerequisite: CS 23001 and CS 23022.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44202 MACHINE LEARNING AND DEEP LEARNING 3 Credit Hours
(Slashed with CS 54202) This course provides an overview of some fundamental concepts, techniques and algorithms in machine learning and deep learning, and will give students a basic understanding (ideas and intuitions) of how modern machine learning works. Specifically, there are three main objectives: 1. To help student get familiar with the fundamental mathematical tools (linear algebra, probability theory, statistical inference, numerical optimization, and learning theory) which lays the foundation of machine learning algorithms and techniques; 2. To introduce the core machine learning concepts and topics, such as linear regression, classification, SVM, and neural networks (and its deep variants); in addition, we will utilize the recommendation system for students to learn how real world machine system works; 3. Teach students how to program and use the latest machine learning packages, such as Tensorflow.
Prerequisite: CS 23001 and MATH 21002 and MATH 20011 and MATH 12013.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44901 SOFTWARE DEVELOPMENT PROJECT (ELR) (WIC) 4 Credit Hours
With the supervision of the instructor, students work in teams to design and implement a realistic software project similar to projects they would encounter in the workplace.
Prerequisite: CS 33901; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CS 44902 SOFTWARE REQUIREMENTS ENGINEERING 3 Credit Hours
(Slashed with CS 54902) Students will learn a systematic approach to requirements elicitation, envisioning, requirements engineering, while leveraging design-based ideation and validation. Topics include software and systems requirements engineering, interface design and modeling, systems architecture, performance engineering, ethics, systems verification and testing.
Prerequisite: CS 33901.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 45102 CENTRAL PROCESSING UNIT (CPU) ARCHITECTURES 3 Credit Hours
(Slashed with CS 55102) This course explores CPU architectures and concepts, focusing mostly on general purpose CPUs. It begins by examining the x86 architecture, the origins of reduced instruction set computers, and how those diverse concepts were reconciled. It looks at superscalar execution, out-of-order execution, branch prediction, and speculative execution, and their use in the Intel Pentium Pro and Pentium II. Finally, it concludes by exploring some contemporary CPU architectures such as embedded processors, graphics processors, and the open-source RISC-V architecture.
Prerequisite: CS 35101; and CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 45203 COMPUTER NETWORK SECURITY 3 Credit Hours
(Slashed with CS 55203) Overview of network security including attacks and vulnerabilities and defense measures, secure network design, network and transport layers security, intrusion detection techniques, defense against denial of service attacks, network hardware, software, and applications attacks and their defense, security policies, legal and ethical issues in cyber and computer crimes.
Prerequisite: CS 35201 and; MATH 20011 or MATH 30011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 45231 INTERNET ENGINEERING 3 Credit Hours
Design fundamentals and working principles of internet systems at the IP layer and above. DNS, inter-domain routing, internet client server programming, application level protocols (HTTP, XML,etc.) web server architecture, browser internet security and multimedia serving.
Prerequisite: CS 23001, 33211 and 35201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 46101 DESIGN AND ANALYSIS OF ALGORITHMS 3 Credit Hours
(Slashed with CS 56101) Introduction to algorithmic concepts, design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.
Prerequisite: MATH 12003 or MATH 12013; and minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47101 COMPUTER GRAPHICS 3 Credit Hours
Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man-machine communications.
Prerequisite: CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47102 COMPUTER HAPTICS 3 Credit Hours
(Slashed with CS 57102 and CS 77102) This course introduces students to computer haptics which is the study of touch with a focus on computing, developing algorithms and designing new user interfaces, innovatively enhancing existing human-computer systems. This course is organized into modules that include fundamental concept and theory lectures and practical programming assignments, including a term project with real haptic (touch feedback) devices combined with virtual reality display devices.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47205 INFORMATION SECURITY 3 Credit Hours
(Slashed with CS 57205) An introduction to concepts and methodology useful for information security, as specified by the NSTISSI NO. 4011 standard from the NSA.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47206 DATA SECURITY AND PRIVACY 3 Credit Hours
(Slashed with CS 57206) The goal of the course is to familiarize the students with basic concepts of security and privacy, their definitions, applications and current advances in research community and industry. This course addresses the security and privacy issues in legacy systems and also studies security and privacy policies and legislations. This course also reviews current research projects in the area of security and privacy.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47207 DIGITAL FORENSICS 3 Credit Hours
(Slashed with CS 57207) This course addresses the need for digital forensics, best practices for general incidence response, legal aspects of forensics, tools and techniques to perform a full computer forensic investigation.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47221 INTRODUCTION TO CRYPTOLOGY 3 Credit Hours
This is a course on the modern science of Cryptology; that is, the process of hiding information by converting it, through a reversible process, into something unrecognizable. Of course, only the recipient should be able to reverse the “hiding” or encrypting process. As far as usage in life is concerned, this course will help you to set up cryptosystems in many different environments. This skill is highly employable; from the NSA, to banks, to anybody who needs to encrypt information is looking for people with knowledge in Cryptology.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 48101 GAME ENGINE CONCEPTS 3 Credit Hours
Introduction to 3D game engine design, game memory management, multithreading in games, sprites and bitmap animation level design, path finding, audio-visual effects, AI and physical modeling in games, networked gaming.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 48102 GAME DEVELOPMENT PRACTICUM (ELR) (WIC) 4 Credit Hours
With the supervision of the instructor, students will work in teams to design and implement a computer game or 3D interactive learning environment using a game engine in a professional setup.
Prerequisite: CS 33007 and CS 33901 and CS 35201; and CS 48101 or CS 38101; and junior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CS 49995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-4 Credit Hours
(Repeatable for credit) (Slashed with CS 59995) Special topics from all areas of computer science.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CS 49996 INDIVIDUAL STUDY 1-4 Credit Hours
(Repeatable for credit).
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

CS 49998 RESEARCH (ELR) 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with computer science under the supervision of a faculty member. The work for this course should result in a technical report, paper, presentation or some other appropriate product.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CS 49999 CAPSTONE PROJECT (ELR) (WIC) 4 Credit Hours
This course is an integrative experience that brings together all components of the undergraduate computer science curriculum in an applied, hands-on real-world setting.
Prerequisite: CS 33007 and CS 33901 and CS 35201.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab, Project or Capstone
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CS 50510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with MCLS 50510)(Slashed with CS 40510, CS 70510, MCLS 40510 and MCLS 70510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 52201 NUMERICAL LINEAR ALGEBRA 3 Credit Hours
(Cross-listed with MATH 52201)(Slashed with CS 42201 and MATH 42201) Fundamentals of numerical linear algebra; solving linear systems; QR factorization and least squares; iterative methods for eigenvalue problems.
Prerequisite: Computer Science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 52202 NUMERICAL APPROXIMATION AND OPTIMIZATION 3 Credit Hours
(Cross-listed with MATH 52202)(Slashed with CS 42202 and MATH 42202) This course introduces numerical methods for solving nonlinear equations, optimizing functions, performing interpolation, computing differentiation and integration and solving differential equations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53118 GRAPH AND SOCIAL NETWORK ANALYSIS 3 Credit Hours
(Slashed with CS 43118 and CS 73118) This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph databases.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53202 SYSTEMS ADMINISTRATION 3 Credit Hours
(Slashed with CS 43202) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX together with the analysis of problems which can arise in these activities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53203 SYSTEMS PROGRAMMING 3 Credit Hours
(Slashed with CS 43203) This course provides an in-depth exploration of the Unix/Linux operating system's structure while teaching students how to write system and network programs. It is ideal for those interested in developing system software for Unix/Linux or gaining a deeper understanding of a multi-tasking, multi-user operating system. The course covers key topics, including the file system, terminal and device input/output, multi-tasking, inter-process communication, video display management and network programming. Theoretical concepts are integrated with practical examples of how Unix implements them. By the end of the course, students have the skills to understand how most Unix commands function and are capable of drafting their own versions of many common commands.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53301 SOFTWARE DEVELOPMENT FOR ROBOTICS 3 Credit Hours
(Slashed with CS 43301) Robots are being used in multiple places that are not easily accessible for humans to support the lack of available labor and gain extra precision, and for cost-effective manufacturing processes, monitoring, space exploration, precision surgery and artificial limb support for elderly and physically challenged persons. Computer science is an integral part of robotics as it includes areas such as computer algorithms, artificial intelligence and image processing, which are essential aspects of robotics. This first course on robotics teaches students various motions of rigid robots; mathematics and algorithms related to these motions; motion planning; obstacle avoidance; and intelligent path planning, including the use of various sensors. In addition, students learn Robot Operating System (ROS) and ROS programming which provide a structured, modular and well-supported environment that facilitates understanding and experimentation in the field of robotics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53302 ALGORITHMIC ROBOTICS 3 Credit Hours
(Slashed with CS 43302 and CS 73302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53303 INTERNET OF THINGS 3 Credit Hours
(Slashed with CS 43303 and CS 73303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53305 ADVANCED DIGITAL DESIGN 3 Credit Hours
(Slashed with CS 43305) This course describes techniques in the design of digital systems. Topics covered include combinational and sequential logic, gate-level minimization, registers and counters, memory and programmable logic, hardware description languages, digital communication including serial and parallel and synchronous and asynchronous methods.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53334 HUMAN-ROBOT INTERACTION 3 Credit Hours
(Slashed with CS 43334 and CS 73334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53401 SECURE PROGRAMMING 3 Credit Hours
Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and cryptography, random number generators.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54001 COMPUTER SCIENCE III - PROGRAMMING PATTERNS 4 Credit Hours
(Slashed with CS 44001) Extends students' knowledge of object-oriented programming, and improves their C++ programming skills. Specifically, the course covers procedural and object-based programming, inheritance, polymorphism, popular design patterns and generic programming.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 54003 MOBILE APPS IN IOS PROGRAMMING 3 Credit Hours
Students are introduced to mobile applications programming in the iOS environment using model, view, controller paradigms. Other topics include swift, programming using on board devices like GPS, cameras, motion detectors, and screen touches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54004 DRONE PROGRAMMING 3 Credit Hours
(Slashed with CS 44004) This course describes the design, programming and control of autonomous drones. Topics covered include drone software and hardware architecture, use case models, interoperability, trajectory programming, flight control programming and sensors. Students apply this knowledge in the context of programming assignments with a drone simulator. Subsequently, students develop custom programs designed to control and fly autonomous drones.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54105 WEB PROGRAMMING I 3 Credit Hours
(Slashed with CS 44105) This course is the first of a two-course sequence on Web Programming covering from basic to advanced topics on Web Programming based on open standards and best practices. Topics covered include the HyperText Markup Language (HTML), specifying look and feel using Cascading Style Sheets (CSS), client side programming in Javascript, server side programming in PHP, and the Hypertext Transfer Protocol (HTTP).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54106 WEB PROGRAMMING II 3 Credit Hours
(Slashed with CS 44106) This course is the second of a two-course sequence on Web Programming covering advanced topics on Web Programming based on open standards and practices. This is a project course exploring advanced aspects of Web programming. Topics covered include advanced server side programming in PHP; database driven websites; structured query language (SQL) and MySQL; E-commerce; web hosting using Apache, PHP MySQL; basic and digest authentication; web security, encryption and digital certificates; Markup Language (XML) for the web, AJAX and web services; scalable vector graphics (SVG); websites.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54201 ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CS 44201) Computational intelligence concepts and methods such as modeling real-world problems as state-space search problems; heuristics and meta-heuristics search; game playing and adversarial search; constraint-based optimization and search; automated machine learning such as clustering, neural networks, regression analysis, decision trees, Markov models and HMM; Deep neural networks and its application in speech and image understanding; logical inference techniques, fuzzy systems, case-based reasoning and uncertainty based reasoning; Knowledge-based systems; planning techniques and systems
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54202 MACHINE LEARNING AND DEEP LEARNING 3 Credit Hours
(Slashed with CS 44202) This course provides an overview of some fundamental concepts, techniques and algorithms in machine learning and deep learning, and will give students a basic understanding (ideas and intuitions) of how modern machine learning works. Specifically, there are three main objectives: 1. To help student get familiar with the fundamental mathematical tools (linear algebra, probability theory, statistical inference, numerical optimization, and learning theory) which lays the foundation of machine learning algorithms and techniques; 2. To introduce the core machine learning concepts and topics, such as linear regression, classification, SVM, and neural networks (and its deep variants); in addition, we will utilize the recommendation system for students to learn how real world machine system works; 3. Teach students how to program and use the latest machine learning packages, such as Tensorflow.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54902 SOFTWARE REQUIREMENTS ENGINEERING 3 Credit Hours
(Slashed with CS 44902) Students will learn a systematic approach to requirements elicitation, envisioning, requirements engineering, while leveraging design-based ideation and validation. Topics include software and systems requirements engineering, interface design and modeling, systems architecture, performance engineering, ethics, systems verification and testing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 55102 CENTRAL PROCESSING UNIT (CPU) ARCHITECTURES 3 Credit Hours
(Slashed with CS 45102) This course explores CPU architectures and concepts, focusing mostly on general purpose CPUs. It begins by examining the x86 architecture, the origins of reduced instruction set computers, and how those diverse concepts were reconciled. It looks at superscalar execution, out-of-order execution, branch prediction, and speculative execution, and their use in the Intel Pentium Pro and Pentium II. Finally, it concludes by exploring some contemporary CPU architectures such as embedded processors, graphics processors, and the open-source RISC-V architecture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 55203 COMPUTER NETWORK SECURITY 3 Credit Hours
(Slashed with CS 45203) Overview of network security including attacks and vulnerabilities and defense measures, secure network design, network and transport layers security, intrusion detection techniques, defense against denial of service attacks, network hardware, software, and applications attacks and their defense, security policies, legal and ethical issues in cyber and computer crimes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 55231 INTERNET ENGINEERING 3 Credit Hours
(Slashed with CS 45231) Design fundamentals and working principles of internet systems at the IP layer and above. DNS, inter-domain routing, internet client server programming, application level protocols (HTTP, XML,etc.) Web server architecture, browser, internet security, and multimedia serving.
Prerequisite: CS 23001 and CS 55201; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 56101 DESIGN AND ANALYSIS OF ALGORITHMS 3 Credit Hours
(Slashed with CS 46101) Introduction to algorithmic concepts, design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57101 COMPUTER GRAPHICS 3 Credit Hours
(Slashed with CS 47101) Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man-machine communications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57102 COMPUTER HAPTICS 3 Credit Hours
(Slashed with CS 47102 and CS 77102) This course introduces students to computer haptics which is the study of touch with a focus on computing, developing algorithms and designing new user interfaces, innovatively enhancing existing human-computer systems. This course is organized into modules that include fundamental concept and theory lectures and practical programming assignments, including a term project with real haptic (touch feedback) devices combined with virtual reality display devices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57205 INFORMATION SECURITY 3 Credit Hours
(Slashed with CS 47205) An introduction to concepts and methodology useful for information security, as specified by the NSTISSI NO. 4011 standard from the NSA.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57206 DATA SECURITY AND PRIVACY 3 Credit Hours
(Slashed with CS 47206) The goal of the course is to familiarize the students with basic concepts of security and privacy, their definitions, applications and current advances in research community and industry. This course addresses the security and privacy issues in legacy systems and also studies security and privacy policies and legislations. This course also reviews current research projects in the area of security and privacy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57207 DIGITAL FORENSICS 3 Credit Hours
(Slashed with CS 47207) This course addresses the need for digital forensics, best practices for general incidence response, legal aspects of forensics, tools and techniques to perform a full computer forensic investigation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57221 INTRODUCTION TO CRYPTOLOGY 3 Credit Hours
(Slashed with CS 47221) This is a course on the modern science of Cryptology; that is, the process of hiding information by converting it, through a reversible process, into something unrecognizable. Of course, only the recipient should be able to reverse the “hiding” or encrypting process. As far as usage in life is concerned, this course will help you to set up cryptosystems in many different environments. This skill is highly employable; from the NSA, to banks, to anybody who needs to encrypt information is looking for people with knowledge in Cryptology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 59893 VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE 1-6 Credit Hours
(Repeatable for credit) Studies in special topics in computer science.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CS 59995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with CS 49995) Various special courses will be announced in the schedule of classes under this title.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 60093 VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Studies of special topics in computer science. Not acceptable for credit toward a graduate degree in computer science without approval of the student's adviser.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CS 61002 ALGORITHMS AND PROGRAMMING I 4 Credit Hours
This course is designed for graduate students with little knowledge of the undergraduate computer science curriculum. It is suitable for students with a background in engineering, physics, biology, geography, etc. This course is designed to introduce students to mapping scientific problems in their field of study into the computational framework. The primary purpose of this course is to help students become skillful in making the computer do what they want it to do. This course provides students with hands-on tools to develop computational methods for data modeling and analysis using Python packages such as Numpy and Matplotlib.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CS 61003 ALGORITHMS AND PROGRAMMING II 4 Credit Hours
Further exploration into the tools used in computer science. This course provides an introduction to algorithmic concepts and covers the design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.
Prerequisite: CS 61002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CS 61004 OPERATING SYSTEMS AND ARCHITECTURE 4 Credit Hours
This course introduces the fundamentals of modern computing systems. It covers the basic architecture, operating system that manages the underlying hardware and basic network that now enables building of networked computing systems. Students learn about key hardware and software components that make up computer and network internals and their essential functions, and learn how these work together as a whole to make computing systems that run efficiently, reliably and securely. This course is suitable for students who may not have an undergraduate degree in computer science or closely related areas.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CS 61092 PRACTICUM IN CS FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT 1-5 Credit Hours
(Repeatable for credit)This course is an alternative to IAKM 60198 for students interested in pursuing a CS thesis. Credit for IAKM 60198 or any other project course is not allowed.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 61199 THESIS I FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours. No credit for CS students.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 61299 THESIS II FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT STUDENTS 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CS 61199.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 62263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours
(Slashed with CS 72263) (Cross-listed with MATH 62263 and MATH 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.
Prerequisite: MATH 51021 and CS 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 62264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours
(Slashed with CS 72264) (Cross-listed MATH 62264 and MATH 72264) Construction and analysis of numerical methods for systems of non linear algebraic equations and optimization problems. Numerical implementation and software.
Prerequisite: MATH 52041 and CS 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63005 ADVANCED DATABASE SYSTEMS DESIGN 3 Credit Hours
(Slashed with CS 73005) Introduction to a variety of advanced database topics and on-going trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63015 DATA MINING TECHNIQUES 3 Credit Hours
(Slashed with CS 73015) Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63016 BIG DATA ANALYTICS 3 Credit Hours
(Slashed with CS 73016) Introduces computing platforms with focus on how to use them in processing, managing and analyzing massive datasets. Utilizes several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank and massive graph analytics as the case study for large scale data processing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63017 BIG DATA MANAGEMENT 3 Credit Hours
This course will cover a series of important Big-Data-related problems and their solutions. Specifically, we will introduce the characteristics and challenges of the Big Data, state-of-the-art computing paradigm sand platforms (e.g., MapReduce), big data programming tools (e.g., Hadoop and MongoDB), big data extraction and integration, big data storage, scalable indexing for big data, big graph processing, big data stream techniques and algorithms, big probabilistic data management, big data privacy, big data visualizations, and big data applications (e.g., spatial, finance, multimedia, medical, health, and social data).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63018 PROBABILISTIC DATA MANAGEMENT 3 Credit Hours
(Slashed with CS 73018) This course addresses the fundamental concepts and techniques for probabilistic data management in the area of databases. Probabilistic data are pervasive in many real-world applications, such as sensor networks, GPS system, location-based services, mobile computing, multimedia databases, data extraction and integration, trajectory data analysis, semantic web, privacy preserving, and so on. This class also covers major research topics such as probabilistic or uncertain data models, probabilistic queries, probabilistic query answering techniques, and data quality issues in databases.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63100 COMPUTATIONAL HEALTH INFORMATICS 3 Credit Hours
(Slashed with CS 73100) The course describes computational techniques and software tools for managing and transmitting health related information and automated analysis of medical and biosignal data.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63201 ADVANCED OPERATING SYSTEMS 3 Credit Hours
(Slashed with CS 73201) Introduction to distributed systems, interprocess communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63301 PARALLEL AND DISTRIBUTED COMPUTING 3 Credit Hours
(Slashed with CS 73301) Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using SIMD, SPMD, MIMD and associative computing; parallel and distributed architecture using existing machines as case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63304 CLUSTER COMPUTING 3 Credit Hours
(Slashed with CS 73304) This course will investigate clusters of computers as a computing platform, hardware and software trade-offs for clusters and application performance and programming of clusters.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63305 MULTICORE COMPUTING 3 Credit Hours
(Slashed with CS 73305) Starting about 2005, hardware architects began putting more than one processing core on a single chip, leading to the recent rapid advancements in multicore processor architectures. This shift has changed almost everything ranging from memory hierarchy and consistency to programming those architectures. The goal of this course is to study multicore processor architectures from the perspective of hardware, software and algorithm design, the challenges, and the technologies that are relevant to those architectures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63306 EMBEDDED COMPUTING 3 Credit Hours
(Slashed with CS 73306) Computational issues structuring programs for processors embedded in other devices, such as those found in automobiles and biological and chemical sample processing devices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63901 SOFTWARE ENGINEERING METHODOLOGIES 3 Credit Hours
(Slashed with CS 73901) Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation; reuse; and metrics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63902 SOFTWARE EVOLUTION 3 Credit Hours
(Slashed with CS 73902) Methods and techniques supporting later lifecycle activities, including software testing and maintenance, reuse and reverse engineering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 64201 ADVANCED ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CS 74201) Advanced topics in AI such as Nature inspired meta-heuristics and their applications in real-world optimization problems; Bayesian networks and probabilistic reasoning over time with applications; Utility theory and decision networks and their applications; game theory and multi-agent systems and their applications; Advanced learning theory such as statistical learning, reinforced learning, probabilistic learning, deep convolution neural network, recurrent neural network, Long Short-term Memory (LSTM), transfer learning, federated learning, transformers, and their application to vision and speech understanding; introduction to object recognition, scene analysis and object tracking; introduction to speech understanding; Context-based discourse and conversation analysis; multi-modal emotion recognition.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 64401 IMAGE PROCESSING 3 Credit Hours
(Slashed with CS 74401) This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 64402 MULTIMEDIA SYSTEMS AND BIOMETRICS 3 Credit Hours
(Slashed with CS 74402) This course discusses computational techniques for the fusion of multimedia data recorded by sensors for human-identification using automated analysis of biometric signals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 65101 ADVANCED COMPUTER ARCHITECTURE 3 Credit Hours
(Slashed with CS 75101) System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 65202 ADVANCED COMMUNICATION NETWORKS 3 Credit Hours
(Slashed with CS 75202) This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and internet routing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 65203 WIRELESS AND MOBILE COMMUNICATION NETWORKS 3 Credit Hours
(Slashed with CS 75203) Examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. Course covers the architecture and the interactions among different functional units in wireless and mobile systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 66101 ADVANCED TOPICS IN ALGORITHMS 3 Credit Hours
(Slashed with CS 76101) Advanced algorithms, fast fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, gcd, factoring, numerical and symbolic computational algorithms, Risch integration algorithm, pattern matching.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 66105 PARALLEL AND DISTRIBUTED ALGORITHMS 3 Credit Hours
(Slashed with CS 76105) Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation, using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 66110 COMPUTATIONAL GEOMETRY 3 Credit Hours
(Slashed with CS 76110) Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational geometry studies algorithms for geometric problems.
Prerequisite: Graduate Standing
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 67101 ADVANCED COMPUTER GRAPHICS 3 Credit Hours
(Slashed with CS 77101) In-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 67301 SCIENTIFIC VISUALIZATION 3 Credit Hours
(Slashed with CS 77301) Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 67302 INFORMATION VISUALIZATION 3 Credit Hours
(Slashed with CS 77302) Information visualization is the science that unveils the underlying structure of data sets using visual representations that utilize the powerful processing capabilities of the human visual perceptual system. In this class, we will study algorithms and systems for visually exploring, understanding, and analyzing large, complex data sets. Information visualization focuses on abstract data such as symbolic, tabular, networked, hierarchical, or textual information sources. The objectives of the course are to learn the principles involved in information visualization and a variety of existing techniques and systems. The students will also gain backgrounds and skills that will aid the design of new, innovative visualizations in realistic applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 69098 RESEARCH 1-5 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if grade of "S" is given.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69099 CAPSTONE PROJECT 3,6 Credit Hours
(Repeatable for credit) This course is an integrative experience that brings together all components of the master's non-thesis graduate program in an applied, hands-on, real-world setting.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory

CS 69191 MASTER'S SEMINAR 1-2 Credit Hours
(Repeatable for credit) Seminar for masters students to present and discuss computer science related research and academics. Masters students are required to take at least 2 credit hours for completion of degree and make at least one presentation of project work or research. Only two credits count towards the masters degree.
Prerequisite: Computer Science major within the Master of Arts or Master of Science degree.
Schedule Type: Seminar
Contact Hours: 1-2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69192 GRADUATE INTERNSHIP 1-3 Credit Hours
(Repeatable for credit) Supervised experience in the chosen graduate program. Since this work will be outside the department, a report and a final presentation will be required.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69199 THESIS I 2-6 Credit Hours
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CS 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with CS 79995) Special topics in computer science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 70510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with MCLS 70510)(Slashed with CS 40510, CS 50510, MCLS 40510 and MCLS 50510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 72263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours
(Slashed with CS 62263) (Cross-listed with MATH 62263 and MATH 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.
Prerequisite: MATH 51021 and CS 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 72264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours
(Slashed with CS 62264) (Cross-listed with MATH 62264 and MATH 72264) Construction and analysis of numerical methods for systems of non linear algebraic equations and optimization problems. Numerical implementation and software.
Prerequisite: MATH 52041 and CS 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73005 ADVANCED DATABASE SYSTEMS DESIGN 3 Credit Hours
(Slashed with CS 63005) Introduction to a variety of advanced database topics and on-going trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73015 DATA MINING TECHNIQUES 3 Credit Hours
(Slashed with CS 63015) Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73016 BIG DATA ANALYTICS 3 Credit Hours
Introduces computing platforms with the focus on how to utilize them in processing, managing and analyzing massive datasets. The course will utilize several key data processing tasks, including simple statistics, data aggrefation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank, and massive graph analytics as the case study for large scale data processing.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73017 BIG DATA MANAGEMENT 3 Credit Hours
This course will cover a series of important Big-Data-related problems and their solutions. Specifically, we will introduce the characteristics and challenges of the Big Data, state-of-the-art computing paradigm sand platforms (e.g., MapReduce), big data programming tools (e.g., Hadoop and MongoDB), big data extraction and integration, big data storage, scalable indexing for big data, big graph processing, big data stream techniques and algorithms, big probabilistic data management, big data privacy, big data visualizations, and big data applications (e.g., spatial, finance, multimedia, medical, health, and social data).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73018 PROBABILISTIC DATA MANAGEMENT 3 Credit Hours
(Slashed with CS 63018) This course addresses the fundamental concepts and techniques for probabilistic data management in the area of databases. Probabilistic data are pervasive in many real-world applications, such as sensor networks, GPS system, location-based services, mobile computing, multimedia databases, data extraction and integration, trajectory data analysis, semantic web, and privacy preserving. This class also covers major research topics such as probabilistic or uncertain data models, probabilistic queries, probabilistic query answering techniques, and data quality issues in databases.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73100 COMPUTATIONAL HEALTH INFORMATICS 3 Credit Hours
(Slashed with CS 63100) The course describes computational techniques and software tools for managing and transmitting health related information and automated analysis of medical and biosignal data.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73118 GRAPH SOCIAL NETWK ANALYSIS 3 Credit Hours
(Slashed with CS 43118 and CS 53118) This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph database.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73201 ADVANCED OPERATING SYSTEMS 3 Credit Hours
(Slashed with CS 63201) Introduction to distributed systems, interprocess communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73301 PARALLEL AND DISTRIBUTED COMPUTING 3 Credit Hours
(Slashed with CS 63301) Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using simd spmd mimd and,associative computing parallel and distributed architecture using existing machines as case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73302 ALGORITHMIC ROBOTICS 3 Credit Hours
(Slashed with CS 43302 and CS 53302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73303 INTERNET OF THINGS 3 Credit Hours
(Slashed with CS 43303 and CS 53303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73304 CLUSTER COMPUTING 3 Credit Hours
(Slashed with CS 63304) This course will investigate clusters of computers as a computing platform, hardware and software tradeoffs for clusters and application performance and programming of clusters.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73305 MULTICORE COMPUTING 3 Credit Hours
(Slashed with CS 63305) Starting about 2005, hardware architects began putting more than one processing core on a single chip, leading to the recent rapid advancements in multicore processor architectures. This shift has changed almost everything ranging from memory hierarchy and consistency to programming those architectures. The goal of this course is to study multicore processor architectures from the perspective of hardware, software, and algorithm design, the challenges, and the technologies that are relevant to those architectures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73306 EMBEDDED COMPUTING 3 Credit Hours
(Slashed with CS 63306) Computational issues structuring programs for processors embedded in other devices such as those found in automobiles and biological chemical sample processing devices.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73334 HUMAN-ROBOT INTERACTION 3 Credit Hours
(Slashed with CS 43334 and CS 53334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73901 SOFTWARE ENGINEERING METHODOLOGIES 3 Credit Hours
(Slashed with CS 63901) Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation reuse; and metrics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73902 SOFTWARE EVOLUTION 3 Credit Hours
(Slashed with CS 63902) Methods and techniques supporting later lifecycle activities, including software testing and maintenance reuse and reverse engineering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 74201 ADVANCED ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CS 64201) Advanced topics in AI such as Nature inspired meta-heuristics and their applications in real-world optimization problems; Bayesian networks and probabilistic reasoning over time with applications; Utility theory and decision networks and their applications; game theory and multi-agent systems and their applications; Advanced learning theory such as statistical learning, reinforced learning, probabilistic learning, deep convolution neural network, recurrent neural network, Long Short-term Memory (LSTM), transfer learning, federated learning, transformers, and their application to vision and speech understanding; introduction to object recognition, scene analysis and object tracking; introduction to speech understanding; Context-based discourse and conversation analysis; multi-modal emotion recognition.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 74401 IMAGE PROCESSING 3 Credit Hours
(Slashed with CS 64401) This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 74402 MULTIMEDIA SYSTEMS AND BIOMETRICS 3 Credit Hours
(Slashed with CS 64402) This course discusses computational techniques for fusion of multimedia data collected by sensors for human-identification using automated analysis of biometric signals.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 75101 ADVANCED COMPUTER ARCHITECTURE 3 Credit Hours
(Slashed with CS 65101) System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 75202 ADVANCED COMMUNICATION NETWORKS 3 Credit Hours
(Slashed with CS 65202) This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and internet routing.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 75203 WIRELESS AND MOBILE COMMUNICATION NETWORKS 3 Credit Hours
(Slashed with CS 65203) Examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. Course covers the architecture and the interactions among different functional units in wireless and mobile systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 76101 ADVANCED TOPICS IN ALGORITHMS 3 Credit Hours
(Slashed with CS 66101) Advanced algorithms, fast Fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, GCD, factoring, numerical and symbolic computational algorithms, Rischintegration algorithm, pattern matching.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 76105 PARALLEL AND DISTRIBUTED ALGORITHMS 3 Credit Hours
(Slashed with CS 66105) Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation, using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 76110 COMPUTATIONAL GEOMETRY 3 Credit Hours
(Slashed with CS 66110) Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational geometry studies algorithms for geometric problems.
Prerequisite: Doctoral Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 77101 ADVANCED COMPUTER GRAPHICS 3 Credit Hours
(Slashed with CS 67101) In-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 77102 COMPUTER HAPTICS 3 Credit Hours
(Slashed with CS 47102 and CS 57102) This course introduces students to computer haptics which is the study of touch with a focus on computing, developing algorithms and designing new user interfaces, innovatively enhancing existing human-computer systems. This course is organized into modules that include fundamental concept and theory lectures and practical programming assignments, including a term project with real haptic (touch feedback) devices combined with virtual reality display devices.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 77301 SCIENTIFIC VISUALIZATION 3 Credit Hours
(Slashed with CS 67301) Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 77302 INFORMATION VISUALIZATION 3 Credit Hours
(Slashed with CS 67302) Information visualization is the science that unveils the underlying structure of data sets using visual representations that utilize the powerful processing capabilities of the human visual perceptual system. In this class, we will study algorithms and systems for visually exploring, understanding, and analyzing large, complex data sets. Information visualization focuses on abstract data such as symbolic, tabular, networked, hierarchical, or textual information sources. The objectives of the course are to learn the principles involved in information visualization and a variety of existing techniques and systems. The students will also gain backgrounds and skills that will aid the design of new, innovative visualizations in realistic applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 79995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with CS 69995) Special topics in computer science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 89098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. The work for this course should result in a paper, presentation or some other appropriate product.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 89191 DOCTORAL SEMINAR 1-2 Credit Hours
(Repeatable for credit) Seminar for doctoral students to present and discuss computer science related research and academics. Doctoral students are required to take at least 3 credit hours for completion of degree and make at least two presentations of project work or research. Only two credits count towards the doctoral degree.
Prerequisite: Computer Science major within the Doctor of Philosophy degree.
Schedule Type: Seminar
Contact Hours: 1-2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 89199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 89299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: CS 89199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 89991 RESEARCH SEMINAR IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Research seminar on current research in computer science.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Department of Earth Sciences

Earth Science (ESCI)

ESCI 11040 HOW THE EARTH WORKS (KBS) 3 Credit Hours
Explores processes that shape Earth's landscapes (e.g., volcanism, flooding, landslides, sea-level rise, mountain building) and that are of vital interest to humans (e.g., earthquakes, groundwater, energy and mineral resources, climate change).
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

ESCI 11041 HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) 1 Credit Hour
Students study earth materials (e.g., mineral crystals, common and unusual rock specimens) and Google Earth images. Students conduct experiments demonstrating processes at earth's surface such as groundwater pollution, flooding and earthquakes.
Pre/corequisite: ESCI 11040.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences, TAG Natural Science Lab

ESCI 11042 EARTH AND LIFE THROUGH TIME (KBS) 3 Credit Hours
Explores major events in the history of Earth, including mass extinctions, Snowball Earth hypothesis, birth and death of oceans, growth of continents, explosion of life, dinosaurs and the inter-relatedness of earth and life processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

ESCI 11043 EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB) 1 Credit Hour
Students conduct lab experiments involving fossils, rocks and sedimentary features, a river process simulator and the concept of deep time.
Pre/corequisite: ESCI 11042.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences, TAG Natural Science Lab

ESCI 21062 ENVIRONMENTAL EARTH SCIENCE (KBS) 3 Credit Hours
Application of Earth science to environmental problems, including natural resource extraction, water supply, pollution, waste disposal, landslides, floods and land use planning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

ESCI 21080 ALL ABOUT THE OCEANS (KBS) 3 Credit Hours
Explores the many fascinating (and some still little known) features and processes of the Earth's oceans, including mid-ocean ridges, hydrothermal vents, tsunamis, tides, rogue waves, marine life and the role of the ocean in climate change.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

ESCI 22000 DEGREE AND CAREER PATHS IN EARTH SCIENCES (ELR) 1 Credit Hour
Provides students with an overview of career paths and opportunities in the Geology and Earth Science majors. Components of the course include a journal club; informational presentations by geoscientists in industry, government and academia; and skills training needed for the majors. Required overnight field trip.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ESCI 23063 EARTH MATERIALS I 4 Credit Hours
Occurrence, associations, characteristics, crystallography and crystal chemistry of common minerals. Laboratory identification emphasizing physical properties. Required field trip.
Prerequisite: ESCI 11041 or ESCI 11043.
Pre/corequisite: CHEM 10060.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Science

ESCI 31070 EARTH MATERIALS II (WIC) 4 Credit Hours
Occurrence and origin of igneous, sedimentary and metamorphic rocks. Laboratory identification, description and classification of hand specimens. Required field trip.
Prerequisite: ESCI 23063.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ESCI 31080 STRUCTURAL GEOLOGY 4 Credit Hours
Mechanical principles of rock deformation. Structures in sedimentary igneous and metamorphic rocks. Required field trip.
Prerequisite: ESCI 11041 or ESCI 11043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 32066 GEOMORPHOLOGY 4 Credit Hours
Earth's surface features as functions of geological structures, processes and time. Landform analysis using topographic maps and some stereographic aerial photos. Trigonometry recommended.
Prerequisite: ESCI 11041 or ESCI 11043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 33025 WATER AND THE ENVIRONMENT 3 Credit Hours
How water moves on the surface and in the subsurface, with an emphasis on societal issues such as pollution, the conservation and management of water resources, and the impacts of environmental change.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 34061 PRINCIPLES OF PALEONTOLOGY 4 Credit Hours
Concepts applied to study of commonly preserved invertebrate organisms; identification of common North American fossils. Required field trip.
Prerequisite: BSCI 10002 or BSCI 10110 or ESCI 11043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 40095 SELECTED TOPICS IN EARTH SCIENCES 1-3 Credit Hours
(Slashed with ESCI 50095) (Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ESCI 40096 INDIVIDUAL INVESTIGATION IN EARTH SCIENCES 1-3 Credit Hours
(Repeatable for credit) Directed field, laboratory and/or library research. Written report required. Maximum 3 credit hours applied toward bachelor's degree.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ESCI 40380 BIOGEOCHEMISTRY 3 Credit Hours
(Cross-listed with BSCI 40380)(Slashed with BSCI 50380, BSCI 70380 and ESCI 50380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Minimum C grade in the following courses: (BSCI 10110 and BSCI 10120) or (ESCI 11041 or ESCI 11043); and CHEM 10060 and CHEM 10062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41025 GENERAL GEOPHYSICS 3 Credit Hours
(Slashed with ESCI 51025) Course explores how di#erent geophysical signals are generated by, or propagate through, the Earth, and how geophysical data is collected, processed and interpreted in order to answer questions about the Earth’s interior. Techniques covered include seismic reflection, seismic refraction, gravity and magnetism. Strong emphasis on worked examples and case studies.
Prerequisite: ESCI 31080 and MATH 12002; and PHY 13001 or PHY 23101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41073 GEOLOGY OF OHIO 3 Credit Hours
(Slashed with ESCI 51073) Minerals, rocks, fossils, structural geology, physiography, environmental geology and geologic resources. Required field trips. Does not count toward the Geology major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41077 GEOLOGY OF THE NATIONAL PARKS 3 Credit Hours
(Slashed with ESCI 51077) Introduction to the geology of selected major national parks, emphasizing basic geological principles and the processes that have produced the spectacular scenery, rocks and fossils in each park. Does not count toward the Geology major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41079 ALL ABOUT DINOSAURS 3 Credit Hours
Dinosaurs (and some relatives) and their world, emphasizing how to interpret evidence concerning their history, biology and evolutionary relationships. Does not count toward the Geology major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41080 TECTONICS AND OROGENY 3 Credit Hours
(Slashed with ESCI 51080) This course examines the forces that drive plate motions and mountain building, techniques for reconstructing those motions over a range of timescales, and how the lithosphere deforms and drives rock creation and destruction at plate boundaries, particularly in the Western United States and the Appalachians. Required field trip to the Appalachians.
Prerequisite: ESCI 31080.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41085 MASS EXTINCTIONS: CAUSES AND CONSEQUENCES 3 Credit Hours
Investigation of the causes and consequences of extinction in marine and terrestrial ecosystems using paleontological, geochemical, sedimentological and stratigraphical information; emphasizing an Earth System Science approach to the Big Five mass extinctions as well as the possible sixth extinction occurring now.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41092 SUMMER FIELD CAMP (ELR) 6 Credit Hours
(Repeatable for credit) (Slashed with ESCI 51092) Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in the Black Hills of South Dakota.
Prerequisite: ESCI 31070 and ESCI 31080.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ESCI 42030 REMOTE SENSING 3 Credit Hours
(Cross-listed with GEOG 49230, GEOG 59230, GEOG 79230) (Slashed with ESCI 52030, ESCI 72030) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 42035 DATA ANALYSIS IN THE EARTH SCIENCES 3 Credit Hours
(Slashed with ESCI 52035) Application of scientific methods to geologic data in the field and laboratory, including methods for collection, analysis, modelling and presentation of data, within the framework of formulation and testing of scientific hypotheses. Provides the background necessary for upper-division earth science courses.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 42036 PHYSICAL HYDROGEOLOGY LABORATORY 1 Credit Hour
(Slashed with ESCI 52036) Laboratory course offering fundamental training for professional hydrogeologists in field, laboratory and analytical techniques. Required weekend field trip.
Prerequisite: Junior standing.
Corequisite: ESCI 42066.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ESCI 42060 EARTH OBSERVING 3 Credit Hours
(Slashed with ESCI 52060 and ESCI 72060) Students are introduced to visible, thermal and LiDAR remote sensing methods. Visible and near infrared multispectral and hyperspectral data sets are used for a wide variety of research including land use change, water quality research and agricultural remote and proximal sensing. Thermal remote sensing can be used to characterize surface temperature changes, earth materials and thermal stresses on plants. LiDAR provides the ability to measure variations in surface topography and can "see" through clouds and jungle canopy and even penetrate aquatic environments to measure algal biomass and suspended sediment. Remote sensing is the use of instrumentation to obtain spectral and spatial information about an object or surface without direct contact. All matter interacts with electromagnetic energy through thermal emittance, absorption, transmittance, reflectance and/or scattering. Different materials have distinct electromagnetic signatures depending on their composition, structure and the nature of the energy with which the material is interacting. This course focuses primarily on multispectral and hyperspectral visible remote sensing, but the field of remote sensing makes use of information throughout the electromagnetic spectrum to sense the environment around us. Note that most of the data sets that are examined and analyzed in this course are multispectral Landsat images. Students are encouraged to explore various topics or geographic regions for their class project. It is recommended that students take an introductory GIS class prior to enrollment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 42065 WATERSHED HYDROLOGY 3 Credit Hours
(Slashed with ESCI 52065) Watershed hydrology is the study of water movement, storage and transformation across landscapes. Course covers such basic questions like: "Where does water go when it rains?" and "What pathways does water take to the stream channel?". Students examine the processes of precipitation, evapotranspiration, infiltration, streamflow generation and streamflow. They learn about how they are measured, how to analyze the data and how these hydrologic processes are regulated by landscape characteristics, human activities and climate dynamics.
Prerequisite: MATH 11022 and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 42066 PHYSICAL HYDROGEOLOGY 3 Credit Hours
(Slashed with ESCI 52066) Principles of water flow in hydrologic cycle, soil and aquifer hydraulic properties, groundwater flow, surface water–groundwater interactions and geochemical evolution of groundwater. Application of principles for evaluation of water resources; emphasizing utilization, conservation and management of groundwater resources in a changing environment.
Prerequisite: MATH 12002 or any higher level MATH course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 42068 CONTAMINANT HYDROLOGY AND HYDROGEOLOGY 3 Credit Hours
(Slashed with ESCI 52068) An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems.
Prerequisite: MATH 12002 or any higher level MATH course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43001 WICKED PROBLEMS: TACKLING GLOBAL ISSUES IN THE 21ST CENTURY 3 Credit Hours
(Cross-listed with GEOG 43070 and POL 43001) This course provides an overview and analysis of the United Nations Sustainable Development Goals (SDG), as well as strategies that can be used for tackling them. The SDGs address the most serious problems faced by humankind today. These include poverty, hunger, inequality, climate change, economic development and environmental sustainability. A key characteristic of the SDGs is that they are known as "wicked problems." Wicked problems are complex issues that resist conventional approaches to problem solving, and for which existing solutions often create unintended consequences that only make the original problem worse. Emphasis is placed on problems of collective action, evidence-based public policies and interdisciplinary approaches to addressing global issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43040 PRINCIPLES OF GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 53040) Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the Earth and laws governing these distributions.
Prerequisite: CHEM 10060 and CHEM 10061 and ESCI 31070 and MATH 12002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 53042 and ESCI 73042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.
Prerequisite: CHEM 10060 and CHEM 10061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43043 ENVIRONMENTAL MINERALOGY 3 Credit Hours
(Slashed with ESCI 53043) Explores reactions between minerals and aqueous solutions, focusing on their role in chemical weathering, contaminant mobility, microbe-mineral interactions and an understanding of mineral-water interface processes and mechanisms at the molecular level. Through a series of case studies, the course explores the societal impacts of environmental contaminants and the potential role of remediation.
Prerequisite: ESCI 23063.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43044 ENVIRONMENTAL ISOTOPES 3 Credit Hours
(Slashed with ESCI 53044 and ESCI 73044) Stable isotope geochemistry can be used as a tool to explore a wide array of processes across the Earth and environmental sciences. Course begins by focusing on traditional applications of oxygen, hydrogen, carbon and sulfur stable isotopes to understand the water and carbon cycles. Subsequently, students are introduced to emerging stable isotope techniques and non-traditional stable isotope systems. Lectures are supplemented with exercises that incorporate real data and discussions based on the recent scientific literature.
Prerequisite: CHEM 10060 and CHEM 10061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43500 ENVIRONMENTAL SOIL SCIENCE 3 Credit Hours
(Slashed with ESCI 53500) Soil is a critical natural resource that sustains human life. In this course, students explore the geochemical composition of soils and the physical, biological and chemical processes involved in rock weathering, soil formation and the environmental transport of nutrients and toxic elements.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 44025 GEOLOGIC HAZARDS AND DISASTERS 3 Credit Hours
(Slashed with ESCI 54025) Explores the geological processes that drive a broad range of different natural hazards (including earthquakes, volcanoes, landslides and floods), and how they interact with human behavior to produce geologic risks and disasters. Through discussion of historical and topical events, students focus on the dual challenges of combining uncertain and incomplete information from various geological and historical sources into realistic assessments of future risks; and the communication of accurate, relevant, actionable information about these risks to the public and authorities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 44040 EARTH'S ENERGY TRANSITION 3 Credit Hours
(Slashed with ESCI 54040 and ESCI 74040) Society is faced with a growing climate crisis but has most of the tools and technological knowhow needed to address the problems. This class explores mitigation and adaptation approaches necessary for a successful energy transformation by assessing Earth energy sources from a systems perspective.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ESCI 44070 SEDIMENTOLOGY AND STRATIGRAPHY 4 Credit Hours
(Slashed with ESCI 54070) Course explores the processes that control the production, transport, deposition and alteration of sediments. Students learn how to reconstruct past environments, ranging from mountain streams to the deep ocean, based on the physical and geochemical characteristics of sedimentary rocks. Techniques to document and interpret spatial patterns in sediment deposition are covered and tied into various modern-day challenges, such as climate and sea level change. Lectures are integrated with in-class activities, examples from cutting-edge research, laboratory exercises and a field trip.
Pre/corequisite: ESCI 31070.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 44072 MARINE PROCESSES 3 Credit Hours
(Slashed with ESCI 54072) This course is an exploration of the mechanisms (geological, physical, chemical and biological) through which the ocean operates, and how it influences climate on seasonal, inter-annual, glacial-interglacial and over deep time. Emphasis is placed on understanding the relative importance of these processes and how they have varied through time, and the potential outcomes of human-induced changes to these processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 44074 PALEOCEANOGRAPHY 3 Credit Hours
(Slashed with ESCI 54074) A broad spectrum of geological approaches, including paleontology, geochemistry and stratigraphy, are employed to interpret the history of the Earth's oceans.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 50095 SELECTED TOPICS IN EARTH SCIENCES 1-3 Credit Hours
(Slashed with ESCI 40095)(Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ESCI 50380 BIOGEOCHEMISTRY 3 Credit Hours
(Cross-listed with BSCI 50380)(Slashed with BSCI 40380, BSCI 70380 and ESCI 40380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51025 GENERAL GEOPHYSICS 3 Credit Hours
(Slashed with ESCI 41025) This course will explore how di#erent geophysical signals are generated by, or propagate through, the Earth, and how geophysical data is collected, processed and interpreted in order to answer questions about the Earth's interior. Techniques covered include seismic reflection, seismic refraction, gravity, and magnetism. There will be a strong emphasis on worked examples and case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51073 GEOLOGY OF OHIO 3 Credit Hours
(Slashed with ESCI 41073) Minerals, rocks, fossils, structural geology, physiography, environmental geology and geologic resources. Required field trips. Does not count toward the Geology major.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51077 GEOLOGY OF THE NATIONAL PARKS 3 Credit Hours
(Slashed with ESCI 41077) Introduction to the geology of selected major national parks, emphasizing basic geological principles and the processes that have produced the spectacular scenery, rocks and fossils in each park. Does not count toward the Geology major.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51080 TECTONICS AND OROGENY 3 Credit Hours
(Slashed with ESCI 41080) This course examines the forces that drive plate motions and mountain building, techniques for reconstructing those motions over a range of timescales, and how the lithosphere deforms and drives rock creation and destruction at plate boundaries, particularly in the Western United States and the Appalachians. Required field trip to the Appalachians.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51092 SUMMER FIELD CAMP 6 Credit Hours
(Repeatable for credit) (Slashed with ESCI 41092) Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in the Black Hills of South Dakota.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

ESCI 52030 REMOTE SENSING 3 Credit Hours
(Cross-listed with GEOG 59230) (Slashed with ESCI 42030, ESCI 72030, GEOG 49230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 52035 DATA ANALYSIS IN THE EARTH SCIENCES 3 Credit Hours
(Slashed with ESCI 42035) Application of scientific methods to geologic data in the field and laboratory, including methods for collection, analysis, modelling and presentation of data, within the framework of formulation and testing of scientific hypotheses. Provides the background necessary for upper-division earth science courses.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 52036 PHYSICAL HYDROGEOLOGY LABORATORY 1 Credit Hour
(Slashed with ESCI 42036) Laboratory course offering fundamental training for professional hydrogeologists. Required weekend field trip.
Prerequisite: Graduate standing.
Corequisite: ESCI 52066.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ESCI 52060 EARTH OBSERVING 3 Credit Hours
(Slashed with ESCI 42060 and ESCI 72060) Students are introduced to visible, thermal and LiDAR remote sensing methods. Visible and near infrared multispectral and hyperspectral data sets are used for a wide variety of research including land use change, water quality research and agricultural remote and proximal sensing. Thermal remote sensing can be used to characterize surface temperature changes, earth materials and thermal stresses on plants. LiDAR provides the ability to measure variations in surface topography and can "see" through clouds and jungle canopy and even penetrate aquatic environments to measure algal biomass and suspended sediment. Remote sensing is the use of instrumentation to obtain spectral and spatial information about an object or surface without direct contact. All matter interacts with electromagnetic energy through thermal emittance, absorption, transmittance, reflectance and/or scattering. Different materials have distinct electromagnetic signatures depending on their composition, structure and the nature of the energy with which the material is interacting. This course focuses primarily on multispectral and hyperspectral visible remote sensing, but the field of remote sensing makes use of information throughout the electromagnetic spectrum to sense the environment around us. Note that most of the data sets that are examined and analyzed in this course are multispectral Landsat images. Students are encouraged to explore various topics or geographic regions for their class project. It is recommended that students take an introductory GIS class prior to enrollment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 52065 WATERSHED HYDROLOGY 3 Credit Hours
(Slashed with ESCI 42065) Watershed hydrology is the study of water movement, storage and transformation across landscapes. This course will answer basic questions like: "Where does water go when it rains?" and "What pathways does water take to the stream channel?". Students will examine the processes of precipitation, evapotranspiration, infiltration, streamflow generation, and streamflow. They will learn about how they are measured, how to analyze the data, and how these hydrologic processes are regulated by landscape characteristics, human activities and climate dynamics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 52066 PHYSICAL HYDROGEOLOGY 3 Credit Hours
(Slashed with ESCI 42066) Principles of water flow in hydrologic cycle, soil and aquifer hydraulic properties, groundwater flow, surface water–groundwater interactions and geochemical evolution of groundwater. Application of principles for evaluation of water resources; emphasizing utilization, conservation and management of groundwater resources in a changing environment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 52068 CONTAMINANT HYDROLOGY AND HYDROGEOLOGY 3 Credit Hours
(Slashed with ESCI 42068) An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53040 PRINCIPLES OF GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 43040) Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the Earth and laws governing these distributions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 43042 and ESCI 73042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53043 ENVIRONMENTAL MINERALOGY 3 Credit Hours
(Slashed with ESCI 43043) Explores reactions between minerals and aqueous solutions, focusing on their role in chemical weathering, contaminant mobility, microbe-mineral interactions and an understanding of mineral-water interface processes and mechanisms at the molecular level. Through a series of case studies, the course explores the societal impacts of environmental contaminants and the potential role of remediation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53044 ENVIRONMENTAL ISOTOPES 3 Credit Hours
(Slashed with ESCI 43044 and ESCI 73044) Stable isotope geochemistry can be used as a tool to explore a wide array of processes across the Earth and Environmental Sciences. This course will begin by focusing on traditional applications of oxygen, hydrogen, carbon, and sulfur stable isotopes to understand the water and carbon cycles. Subsequently, students will be introduced to emerging stable isotope techniques and non-traditional stable isotope systems. Lectures will be supplemented with exercises that incorporate real data and discussions based on the recent scientific literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53500 ENVIRONMENTAL SOIL SCIENCE 3 Credit Hours
(Slashed with ESCI 43500) Soil is a critical natural resource that sustains human life. In this course, students explore the geochemical composition of soils and the physical, biological and chemical processes involved in rock weathering, soil formation and the environmental transport of nutrients and toxic elements.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 54025 GEOLOGIC HAZARDS AND DISASTERS 3 Credit Hours
(Slashed with ESCI 44025) Explores the geologic processes that drive a broad range of different natural hazards (including earthquakes, volcanoes, landslides and floods), and how they interact with human behavior to produce geological risks and disasters. Through discussion of historical and topical events, students focus on the dual challenges of combining uncertain and incomplete information from various geological and historical sources into realistic assessments of future risks; and the communication of accurate, relevant, actionable information about these risks to the public and authorities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 54040 EARTH'S ENERGY TRANSITION 3 Credit Hours
(Slashed with ESCI 44040 and ESCI 74040) Society is faced with a growing climate crisis but has most of the tools and technological knowhow needed to address the problems. This class explores mitigation and adaptation approaches necessary for a successful energy transformation by assessing Earth energy sources from a systems perspective.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ESCI 54070 SEDIMENTOLOGY AND STRATIGRAPHY 4 Credit Hours
(Slashed with ESCI 44070) This course explores the processes that control the production, transport, deposition, and alteration of sediments. Students will learn how to reconstruct past environments ranging from mountain streams to the deep ocean based on the physical and geochemical characteristics of sedimentary rocks. Techniques to document and interpret spatial patterns in sediment deposition will be covered and tied into various modern day challenges, such as climate and sea level change. Lectures are integrated with in-class activities, examples from cutting-edge research, laboratory exercises and a fieldtrip.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab, 1 other
Grade Mode: Standard Letter

ESCI 54072 MARINE PROCESSES 3 Credit Hours
(Slashed with ESCI 44072) This course is an exploration of the mechanisms (geological, physical, chemical and biological) through which the ocean operates, and how it influences climate on seasonal, inter-annual, glacial-interglacial and over deep time. Emphasis is placed on understanding the relative importance of these processes and how they have varied through time, and the potential outcomes of human-induced changes to these processes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 54074 PALEOCEANOGRAPHY 3 Credit Hours
(Slashed with ESCI 44074) A broad spectrum of geological approaches, including paleontology, geochemistry and stratigraphy, are employed to interpret the history of the Earth's oceans.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 60084 GEOLOGY GRADUATE STUDENT ORIENTATION 1 Credit Hour
(Slashed with ESCI 70084) Introduction to departmental resources, procedures and expectations, as well as approaches to successfully conduct research at a graduate level. Training and experience in presentation of data and college teaching of applied geology, as well as a discussion forum on professional ethics and responsibilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

ESCI 60085 DATA ANALYSIS AND PRESENTATION 1 Credit Hour
This course focuses on the skills and issues surrounding data production and analysis in the earth sciences. It provides students the opportunity to familiarize themselves with strategies for managing and presenting data that they generate as part of their graduate studies. The course requires a commitment to regular readings and discussions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ESCI 60086 FIELD METHODS IN THE EARTH SCIENCES 1 Credit Hour
This course focuses on the skills necessary for sample and data collection in the field. Additionally, it provides strategies for successfully leading safe, inclusive field work both within academia and other career sectors. The course requires a commitment to weekly readings and discussions.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

ESCI 60087 WRITING IN THE EARTH SCIENCES 1 Credit Hour
(Slashed with ESCI 70087) Focuses on the strategies for achieving regular and productive academic writing and the craft of writing for the scientific literature. The course is designed for students who have a major writing project that will take most or all of the semester, such as a dissertation, thesis or dissertation proposal. The course requires commitment to weekly writing progress and provides weekly opportunities for peer review and peer support.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ESCI 60091 SEMINAR 1-2 Credit Hours
(Repeatable for credit)(Slashed with ESCI 70091) Topics in geology and earth science; varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-2 other
Grade Mode: Standard Letter

ESCI 60095 SELECTED TOPICS IN EARTH SCIENCES 1-3 Credit Hours
(Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ESCI 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's level students. Credits earned may be applied toward degree if department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ESCI 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 60391 GEOCHEMINAR 1 Credit Hour
(Repeatable for credit) In this course, students gain understanding of advanced techniques in geochemistry by presenting information from primary literature and discussing data processing and analysis of their research.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

ESCI 70084 GEOLOGY GRADUATE STUDENT ORIENTATION 1 Credit Hour
(Slashed with ESCI 60084) Introduction to departmental resources, procedures and expectations, as well as approaches to successfully conduct research at a graduate level. Training and experience in presentation of data and college teaching of applied geology, as well as discussion forum on professional ethics and responsibilities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

ESCI 70087 WRITING IN THE EARTH SCIENCES 1 Credit Hour
(Slashed with ESCI 60087) Focuses on the strategies for achieving regular and productive academic writing and the craft of writing for the scientific literature. The course is designed for students who have a major writing project that will take most or all of the semester, such as a dissertation, thesis or dissertation proposal. The course requires commitment to weekly writing progress and provides weekly opportunities for peer review and peer support.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ESCI 70091 SEMINAR 1-2 Credit Hours
(Repeatable for credit)(Slashed with ESCI 60091) Topics in geology and earth science; varies per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-2 other
Grade Mode: Standard Letter

ESCI 72030 REMOTE SENSING 3 Credit Hours
(Cross-listed with GEOG 79230) (Slashed with ESCI 42030, ESCI 52030, GEOG 49230, GEOG 59230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 72060 EARTH OBSERVING 3 Credit Hours
(Slashed with ESCI 42060 and ESCI 52060) Students are introduced to visible, thermal and LiDAR remote sensing methods. Visible and near infrared multispectral and hyperspectral data sets are used for a wide variety of research including land use change, water quality research and agricultural remote and proximal sensing. Thermal remote sensing can be used to characterize surface temperature changes, earth materials and thermal stresses on plants. LiDAR provides the ability to measure variations in surface topography and can "see" through clouds and jungle canopy and even penetrate aquatic environments to measure algal biomass and suspended sediment. Remote sensing is the use of instrumentation to obtain spectral and spatial information about an object or surface without direct contact. All matter interacts with electromagnetic energy through thermal emittance, absorption, transmittance, reflectance and/or scattering. Different materials have distinct electromagnetic signatures depending on their composition, structure and the nature of the energy with which the material is interacting. This course focuses primarily on multispectral and hyperspectral visible remote sensing, but the field of remote sensing makes use of information throughout the electromagnetic spectrum to sense the environment around us. Note that most of the data sets that are examined and analyzed in this course are multispectral Landsat images. Students are encouraged to explore various topics or geographic regions for their class project. It is recommended that students take an introductory GIS class prior to enrollment.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 73042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 43042 and ESCI 53042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 73044 ENVIRONMENTAL ISOTOPES 3 Credit Hours
(Slashed with ESCI 43044 and ESCI 53044) Stable isotope geochemistry can be used as a tool to explore a wide array of processes across the Earth and Environmental Sciences. This course will begin by focusing on traditional applications of oxygen, hydrogen, carbon, and sulfur stable isotopes to understand the water and carbon cycles. Subsequently, students will be introduced to emerging stable isotope techniques and non-traditional stable isotope systems. Lectures will be supplemented with exercises that incorporate real data and discussions based on the recent scientific literature.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 74040 EARTH'S ENERGY TRANSITION 3 Credit Hours
(Slashed with ESCI 44040 and ESCI 54040) Society is faced with a growing climate crisis but has most of the tools and technological knowhow needed to address the problems. This class explores mitigation and adaptation approaches necessary for a successful energy transformation by assessing Earth energy sources from a systems perspective.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ESCI 80095 ADVANCED TOPICS IN EARTH SCIENCES 1-3 Credit Hours
(Repeatable for credit) Advanced topics presented by visiting professors or one-time offerings presented by regular faculty.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ESCI 80098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree with departmental approval.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Admission to candidacy for doctoral degree; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration is required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met.
Prerequisite: ESCI 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Department of English

English (ENG)

ENG 01001 INTRODUCTION TO COLLEGE WRITING-STRETCH 3 Credit Hours
Introduces the instruction and experiences necessary for students to acquire college-level literacy, with an emphasis on reading and writing college level texts. Course does not count toward graduation.
Prerequisite: ACT English score of 0-17; or SAT Evidence Based Reading and Writing score of 200-470; or WritePlacer score of 0-3; or Accuplacer Reading Comprehension score of 200-249 and WritePlacer score of 4.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02008 ESL GRAMMAR AND WRITING BEGINNER 1 3 Credit Hours
Students learn and apply the rules of elementary grammar in their spoken and written English at a beginner level. Students learn to produce simple paragraphs with beginner-level control of grammar on familiar topics using the writing process. Course culminates with writing a paragraph on a familiar topic with organization, grammar, vocabulary, spelling, punctuation and capitalization appropriate for a beginner level. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02009 ESL GRAMMAR AND WRITING BEGINNER 2 3 Credit Hours
Students apply rules of elementary grammar in spoken and written English at exiting beginner level. Topics from ENG 02008 are expanded upon. Students improve their ability to write simple paragraphs on familiar topics. Course culminates with improved ability to write a five-sentence paragraph on familiar topic with level-appropriate organization, grammar, vocabulary, spelling, punctuation and capitalization. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02010 ESL GRAMMAR AND WRITING PRE-INTERMEDIATE 1 3 Credit Hours
Students learn and apply the rules of grammar in spoken and written English at an initial pre-intermediate level. Focus is on writing well-developed, level-appropriate paragraphs on familiar topics using the writing process. Course culminates in writing one double-spaced page of organized paragraphs on familiar topics at the initial pre-intermediate level. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02011 ESL GRAMMAR AND WRITING PRE-INTERMEDIATE 2 3 Credit Hours
Students learn and apply the rules of grammar in spoken and written English at an exiting pre-intermediate level. Skills from ENG 02010 are reviewed and expanded upon in this course. Course culminates in writing organized and well developed paragraphs on familiar topics. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02012 ESL WRITING AND GRAMMAR INTERMEDIATE 1 3 Credit Hours
Students develop writing skills and expand and apply their knowledge of grammar at an initial intermediate level. Focus is on developing and organizing ideas in writing for different purposes and audiences with control of vocabulary choice, grammar, sentence variety and punctuation. Course culminates in using writing process for at least two short compositions to compare and contrast ideas and express an opinion. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02013 ESL GRAMMAR AND WRITING INTERMEDIATE 2 3 Credit Hours
Students apply the rules of grammar in written English at an exiting intermediate level. Topics from previous levels are reviewed and expanded upon in this course. Focus is on writing for different purposes and audiences with greater control of vocabulary choice, grammar, sentence variety, organization and development. Course culminates in writing a short problem solution essay and reflection at the intermediate level. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02014 ESL ACADEMIC WRITING 1 3 Credit Hours
Students develop the writing skills needed for participation in academic coursework at an initial high-intermediate level. Focus is on writing essays that are well-developed, organized, grammatically accurate and cohesive and cite source material. Course culminates in writing reflection compositions and cause-and-effect essays at the initial high-intermediate level. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02108 ESL READING AND VOCABULARY BEGINNER 1 3 Credit Hours
Students develop reading proficiency at a beginner level, establishing a basic vocabulary for everyday living which they can recognize in written and spoken English. Focus is on noticing grammar, increasing vocabulary knowledge, recognizing organizational patterns and learning new information with beginner texts. Course introduces students to different reading strategies and encourages independent reading habits. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02109 ESL READING AND VOCABULARY BEGINNER 2 3 Credit Hours
Students develop reading proficiency at an exiting beginner level, establishing a basic vocabulary for everyday living which they can recognize in written and spoken English. Topics from ENG 02108 are reinforced and expanded. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02110 ESL READING AND VOCABULARY PRE-INTERMEDIATE 1 3 Credit Hours
Students develop skill understanding and producing spoken English at an initial pre-intermediate level. Focus is on listening comprehension skills for short texts on a wide range of familiar and simplified academic topics and the development of interpersonal communication skills and habits that encourage independent listening in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02111 ESL READING AND VOCABULARY PRE-INTERMEDIATE 2 3 Credit Hours
Students develop skill understanding and producing spoken English at an exiting pre-intermediate level. Focus is on improving listening comprehension skills for short texts on a wide range of familiar and simplified academic topics, refining interpersonal communication skills on everyday topics and encouraging independent listening in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02112 ESL READING AND VOCABULARY INTERMEDIATE 1 3 Credit Hours
Students develop reading proficiency at an initial intermediate level. Focus is on building vocabulary knowledge of abstract and academic topics, applying reading strategies, learning how to summarize level-appropriate readings and becoming independent readers in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02113 ESL READING AND VOCABULARY INTERMEDIATE 2 3 Credit Hours
Students develop reading proficiency at an exiting intermediate level. Topics from previous courses are reviewed and expanded upon in this course. Focus is on expanding vocabulary knowledge of abstract and academic topics, applying reading strategies, scaffolded text annotation and summary writing, responding critically to reading texts and independent reading in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02114 ESL ACADEMIC READING 1 3 Credit Hours
Students develop proficiency in critical reading skills for academic study at an initial high-intermediate level. Focus is on applying reading strategies to authentic reading texts, academic vocabulary development, paraphrasing, summarizing, participating in classroom discussion and independent reading in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02208 ESL LISTENING AND SPEAKING BEGINNER 1 3 Credit Hours
Students develop listening and speaking skills at a beginner level. Focus is on participating in verbal exchanges in English related to everyday life and starting to develop independent listening habits. Students begin to recognize and use simple present, simple past and future references in statements, questions and answers. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02209 ESL LISTENING AND SPEAKING BEGINNER 2 3 Credit Hours
Students develop listening and speaking skills at an exiting beginner level. Focus is on more skillful participation in verbal exchanges in English related to everyday life and developing independent listening habits. Students refine ability to recognize and use simple present, simple past and future references in statements, questions and answers. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02210 ESL LISTENING AND SPEAKING PRE-INTERMEDIATE 1 3 Credit Hours
Students develop skill understanding and producing spoken English at an initial pre-intermediate level. Students develop listening comprehension skills for short texts on a wide range of familiar and simplified academic topics. Students become increasingly competent at understanding fast spoken English on everyday topics. Students practice interpersonal communication skills, including short presentations about themselves, and are guided in habits that encourage independent listening in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02211 ESL LISTENING AND SPEAKING PRE-INTERMEDIATE 2 3 Credit Hours
Students develop skill understanding and producing spoken English at an exiting pre-intermediate level. Topics from ENG 02210 are reviewed for reinforcement. Focus is on comprehension skills for short texts on a wide range of familiar and some simplified academic topics, competence at understanding fast spoken English on everyday topics, interpersonal communication skills and independent listening in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02212 ESL LISTENING AND SPEAKING INTERMEDIATE 1 3 Credit Hours
Students develop skill understanding and producing spoken English at an initial intermediate level. Listening focus is on applying comprehension strategies, vocabulary development and note taking on short academic lectures and level-appropriate authentic listening materials. Speaking focus is on summarizing, classroom discussion and associated skills and short presentations. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02213 ESL LISTENING AND SPEAKING INTERMEDIATE 2 3 Credit Hours
Students develop skill understanding and producing spoken English at an exiting intermediate level. Topics from ENG 02212 are reviewed and expanded upon in this course. Listening focus is on applying strategies, vocabulary development, note taking, paraphrasing and summary writing. Speaking focus is on refining classroom discussion skills and making short presentations. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02214 ESL ACADEMIC LISTENING AND SPEAKING 1 3 Credit Hours
Students develop skill understanding and producing spoken English for academic study at an initial high-intermediate level. Listening focus is on academic vocabulary development, note taking strategies and summarizing authentic and academic listening texts. Speaking focus is on developing communicative competence in academic discussion. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02500 ESL PRONUNCIATION 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Study of English pronunciation with practice in segmental and suprasegmental features (sounds, sound combinations, syllables, stress, rhythm, and intonation). Students are placed in the appropriate course based on test score. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 1.4 lecture
Grade Mode: Standard Letter

ENG 11002 COLLEGE WRITING-STRETCH (KCMP) 3 Credit Hours
Continues the instruction and practice necessary to write for college, with emphasis on the reading, thinking, writing and technological skills necessary for writing college level texts.
Prerequisite: Minimum C grade in ENG 01001; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Composition, Transfer Module Composition

ENG 11011 COLLEGE WRITING (KCMP) 3 Credit Hours
The study and practice of academic writing, including an introduction to rhetorical principles, the writing process, critical reading, research and technology. Students who do not meet the prerequisites but have a minimum 2.8 high school GPA or a score of 165 on the GED Reasoning Through Language Arts should contact the department for approval to register.
Prerequisite: ACT English score of 18-25; or SAT Evidence Based Reading and Writing score of 480-590; or Accuplacer Reading Comprehension score of 250 or higher and WritePlacer score of 4; or WritePlacer score of 5 or higher.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Composition, Transfer Module Composition

ENG 12011 ESL ACADEMIC WRITING 2 3 Credit Hours
Students apply writing skills needed for participation in academic coursework at an exiting high-intermediate level. Topics from previous courses are reviewed and expanded upon. Focus is on writing cause-effect essays and summary responses that are well-developed, organized, grammatically accurate and cohesive and skillfully use source material.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12012 ESL WRITING FOR ACADEMIC DISCIPLINES 1 3 Credit Hours
Students develop writing skills needed for participation in academic coursework at the initial advanced level. Focus is on composing an annotated bibliography and guided research paper in each student's intended field of study, using library resources and skillfully working with source material. Students learn to independently outline, revise and edit their own work.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12013 ESL WRITING FOR ACADEMIC DISCIPLINES 2 3 Credit Hours
Students refine writing skills needed for participation in academic coursework at the initial advanced level. Focus is on composing critical responses to academic literature in each student's intended field of study, using library resources and skillfully working with source material. Students develop skills to independently outline, revise and edit their own work.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12014 ESL ACADEMIC READING 2 3 Credit Hours
Students develop proficiency in critical reading skills for academic study at an exiting high-intermediate level. Topics from previous courses are reviewed and expanded upon in this course. Focus is on critical evaluation of authentic reading texts, academic vocabulary development, paraphrasing, summarizing, participating in classroom discussion and independent reading in English.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12095 SPECIAL TOPICS IN ENGLISH AS SECOND LANGUAGE 1-3 Credit Hours
(Repeatable for credit) Overview of skills related to a special topic in second language learning.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ENG 12111 ESL ADVANCED ACADEMIC READING 1 3 Credit Hours
Students develop skills to understand and analyze reading texts at the advanced level. Focus is on noticing genre features of academic writing, applying reading strategies, increasing reading speed and independence and composing critical responses to reading texts in students' majors.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12112 ESL ADVANCED ACADEMIC READING 2 3 Credit Hours
Students further develop skills to understand and analyze reading texts at the advanced level. Focus is on noticing genre features of academic writing, applying reading strategies, increasing reading speed and independence and composing critical responses to reading texts in students' majors.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12211 ESL ACADEMIC LISTENING AND SPEAKING 2 3 Credit Hours
Students develop skill understanding and producing spoken English for academic study at an exiting high-intermediate level. Listening focus is on academic vocabulary development, note taking strategies and critically responding to academic listening texts. Speaking focus is on developing extending communicative competence in academic discussion. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12212 ESL ADVANCED ACADEMIC SPEAKING AND LISTENING 1 3 Credit Hours
Students develop skill understanding and producing spoken English for academic purposes at an initial advanced level. Focus is on note taking, summarizing, independent listening, communicating critical responses, presentation skills and skillfully participating in classroom discussion.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12213 ESL ADVANCED ACADEMIC SPEAKING AND LISTENING 2 3 Credit Hours
Students refine skills in understanding and producing spoken English for academic purposes at an advanced level. Focus is on note taking, summarizing, independent listening, communicating critical responses, presentation skills and skillfully participating in classroom discussion.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12507 ESL DEBATE 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Practice of skills for persuasive speaking, making effective arguments and active listening. Engagement in formal and informal debates and presentations. Must score minimum level 7 on proficiency test.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 1.4 lecture
Grade Mode: Standard Letter

ENG 12508 ESL PUBLIC SPEAKING 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Preparation for continued academic study and professional advancement, including effective techniques for speaking in public. Design and analysis of speeches and presentations. Must score minimum level 8 on proficiency test.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 1.4 lecture
Grade Mode: Standard Letter

ENG 12605 ESL AMERICAN CULTURE I 2 Credit Hours
Overview of basic American values and beliefs related to history, immigration, diversity, and geography. Must score minimum level 5 on proficiency test.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 2.33 lecture
Grade Mode: Standard Letter

ENG 12606 ESL AMERICAN CULTURE II 2 Credit Hours
Overview of basic American values and beliefs related to education, holidays, government and politics, the criminal justice system, America in the 21st century, etc. Must score minimum level 6 on proficiency test.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 2.33 lecture
Grade Mode: Standard Letter

ENG 12707 ESL BUSINESS ENGLISH I 2 Credit Hours
Overview of business communication, business writing strategies, and computer skills in the workplace. Must score minimum level 7 on proficiency test.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

ENG 12708 ESL BUSINESS ENGLISH II 2 Credit Hours
Development of oral and written business communication skills.
Prerequisite: ENG 12707 with a minimum C- grade; and special approval.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

ENG 12801 ESL ACADEMIC SUCCESS 1 Credit Hour
This class will provide transitional support for students preparing to enter an undergraduate or graduate course of study from the ESL Center. Students will focus on the social, cultural, and academic skills needed to be competent and successful in an American university setting including understanding university policies, academic expectations, and cultural norms.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENG 20002 INTRODUCTION TO TECHNICAL WRITING 3 Credit Hours
Introduction to communication practices within technical communities. Planning, drafting, revising and editing. Process descriptions, object descriptions, instructional texts, technical correspondence, problem reports, critical reflection.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or minimum C- grade in ENG 11002, ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 20021 INTRODUCTION TO CREATIVE WRITING 3 Credit Hours
Practice in various forms of creative writing with some emphasis on student interests and on sources of creativity.
Prerequisite: Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002, or ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 21001 INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD) 3 Credit Hours
Study of selected ethnic American writers; may include works by African, Asian, Hispanic, Jewish, Native Americans and other groups.
Prerequisite: Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002 or ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 21002 INTRODUCTION TO WOMEN'S LITERATURE (DIVD) 3 Credit Hours
Introduction to works by women writing in English, and to literary and gender issues they raise.
Prerequisite: Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002 or ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 21003 INTRODUCTION TO LGBT LITERATURE (DIVD) 3 Credit Hours
Introduction to lesbian, gay, bisexual and transgender literature in English and to issues of gender, sexuality and culture raised by this literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 21011 RESEARCH WRITING (KCMP) 3 Credit Hours
Continuation of college-level writing instruction with emphasis on research and inquiry, culminating in a lengthy written and/or multimodal project.
Prerequisite: Minimum C- grade in ENG 11002 or ENG 11011 or HONR 10197; or ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Composition, Transfer Module Composition

ENG 21054 INTRODUCTION TO SHAKESPEARE (KHUM) 3 Credit Hours
Study of representative plays and poems in the context of Shakespeare's age, his language and his cultural influence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Humanities, Transfer Module Humanities

ENG 22071 STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM) 3 Credit Hours
Great works of world literature read in English, from ancient world to 1700, covering a wide range of ethnic and national voices, genres and traditions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Humanities, Transfer Module Humanities

ENG 22072 STORIES TO SAVE THE WORLD: LITERATURE AND THE FUTURE OF HUMANITY (KHUM) 3 Credit Hours
Great works of world literature read in English, from 1700 to today, covering a wide range of ethnic and national voices, genres and traditions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

ENG 22073 MAJOR MODERN WRITERS: BRITISH AND UNITED STATES (KHUM) 3 Credit Hours
Introduction to British and U.S. writers of the 20th and 21st centuries; study of their works in their literary and cultural contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Humanities, Transfer Module Humanities

ENG 24001 INTRODUCTION TO LITERARY STUDY 3 Credit Hours
Introduction to techniques for reading and writing about literature, with emphasis on reading strategies for prose, poetry and drama. Literary terms, composition of interpretive essays, and literary research is also studied.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 24002 INTRODUCTION TO COMPOSITION THEORY 3 Credit Hours
Provides an introduction to composition theory, research in writing studies and pedagogical practices for academic writing. Students learn different methods of teaching writing by producing essays and projects within different genres and by applying different approaches to composition to their own work. Students examine writing, as well as research and teaching about writing, as socially, politically and historically situated activities.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 25001 LITERATURE IN ENGLISH I 3 Credit Hours
British literature written before 1800 studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 25002 LITERATURE IN ENGLISH II 3 Credit Hours
British literature written since 1800 studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 25004 LITERATURE IN THE UNITED STATES I 3 Credit Hours
U.S. literature from the colonial period until 1865 studies within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 25005 LITERATURE IN THE UNITED STATES II 3 Credit Hours
U.S. literature from 1865 to the present studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 26001 POPULAR FORMS OF LITERATURE 3 Credit Hours
Introduction to popular forms of literature such as the western, the detective story, science fiction, fantasy, the war story and others.
Prerequisite: Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002; or ENG 11011; or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 26095 SOPHOMORE SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) In-depth study of a particular writer, theme or literary movement, such as literature and film, gothic novels.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30050 WRITING AND RHETORIC IN A DIGITAL AGE 3 Credit Hours
Writing course with a focus on learning and using a variety of tools available within contemporary digital composing environments.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30051 WRITING, RHETORIC AND NEW MEDIA 3 Credit Hours
Rhetorical principles for multimodal writing to produce rhetorically effective professional, scholarly, personal, and civic texts that integrate some blend of written word, visuals, images, audio and video.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30053 WRITING FOR VIDEO GAMES 3 Credit Hours
Video Game Writing, a fast-paced and dynamic discipline, encompasses ever-evolving skills and techniques from many areas, including fiction writing, script crafting, game design, and storytelling. Particular attention will be given to writing skills connected with the development of characters, plots, and worlds. In addition, this course will focus on specific techniques drawn from these writing and design areas, highlighting materials from writers and designers involved in the industry.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

ENG 30062 PRINCIPLES OF TECHNICAL WRITING 3 Credit Hours
Introduces theoretical principles of technical communication. Extensive practice in the use, evaluation and production of complex technical documents including research reports/research proposals. Emphasis on oral, written and electronic communication.
Prerequisite: Minimum C- grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30063 PROFESSIONAL WRITING 3 Credit Hours
Practice norms and strategies of effective workplace communication.
Prerequisite: Minimum C- grade in ENG 21011 or HONR 10297; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

ENG 30064 ARGUMENTATIVE PROSE WRITING 3 Credit Hours
Practice in writing argumentative essays, with emphasis on discussion of student work.
Prerequisite: Minimum C- grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30065 EXPOSITORY PROSE WRITING 3 Credit Hours
Practice in prose composition with emphasis on exposition and discussion of student work.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30066 WRITING IN THE PUBLIC SPHERE (ELR) 3 Credit Hours
Writing course focusing on a multimodal service-learning project collaborating with peer and community partners in an online, hybrid or face-to-face delivery system.
Prerequisite: Minimum C- grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 30067 FICTION WRITING I 3 Credit Hours
Instruction and practice in writing fiction with specific models and discussions of student work on a weekly basis.
Prerequisite: ENG 20021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30068 FICTION WRITING II 3 Credit Hours
Continued instruction and practice in writing of fiction with specific models and discussion of student work on a weekly basis.
Prerequisite: ENG 30067.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30069 POETRY WRITING I 3 Credit Hours
Instruction in and practice of writing poetry with specific models and discussion of student work on a weekly basis.
Prerequisite: ENG 20021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30070 POETRY WRITING II 3 Credit Hours
Continued practice in writing of poetry with specific models and discussion of student work on a weekly basis.
Prerequisite: ENG 30069.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30071 CREATIVE NONFICTION 3 Credit Hours
Instruction and practice in writing creative nonfiction with specific models and discussions of student work on a weekly basis.
Prerequisite: Minimum C grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30074 GRAMMAR FOR EDITING 3 Credit Hours
Course focuses on editing practices that require knowledge of the rules of grammar, usage, and stylistic conventions in a variety of professional fields.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30075 STARTING A NOVEL 3 Credit Hours
Studies aspects of novel writing, building toward a final project in which students develop a chapter of their own novels.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30095 JUNIOR SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)An opportunity to focus on important issues in literature, writing, criticism or cultural studies.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31001 FUNDAMENTAL ENGLISH GRAMMAR 3 Credit Hours
Study of grammatical structures and matters of usage and style in edited U.S. English.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31002 HISTORY OF THE ENGLISH LANGUAGE 3 Credit Hours
Study of the development of the English language from the Indo-European period to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31003 LINGUISTICS 3 Credit Hours
Survey of language study including linguistic tools of analysis such as phonetics, morphology and syntax, and selected topics in applied linguistics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31004 LEXICOLOGY/LEXICOGRAPHY 3 Credit Hours
In-depth study of the lexicon in language use and the reasons for its expansion and continuous change. Study of tools in lexicography and analysis of the role of lexicography in language education.
Prerequisite: ENG 31003.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31005 CHILD SECOND LANGUAGE ACQUISITION 3 Credit Hours
Explores theory, research and teaching/learning applications of second language acquisition in children.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31006 WORLD ENGLISHES (DIVG) (WIC) 3 Credit Hours
Explores English varieties in the context of world languages, examining language politics with a focus on first/second language education and literacy in an electronic age.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Writing Intensive Course

ENG 31007 PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours
Theoretical bases, approaches, techniques of second language pedagogy at the elementary and secondary levels. Inquiry into English as a Second Language methods, materials and lesson planning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31008 GRAMMAR FOR TEACHING ENGLISH AS A SECOND/ FOREIGN LANGUAGE 3 Credit Hours
Introduces students to grammars of spoken and written English and pedagogical grammar. Topics include parts of speech, tense and aspect, clause and phrase types, grammar in genre and pedagogical applications relevant to the English as a second/foreign language profession.
Prerequisite: ENG 31001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31009 ADULT SECOND LANGUAGE ACQUISITION 3 Credit Hours
Explores theory, research, teaching, and learning applications of second language acquisition in adult populations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31010 THE BILINGUAL MENTAL LEXICON 3 Credit Hours
Course investigates word memory, meaning and change within language acquisition and teaching. Questions addressed include what it means to 'know' a word, how much vocabulary is needed for different language proficiency levels, the implications of cognates and false cognates and how language change over time may affect vocabulary learning and use. Research tools of corpus linguistics are applied and practiced, including the use of academic and other word lists, concordances in lexical frequency and collocational analyses and data driven learning for second language discovery and acquisition.
Prerequisite: ENG 31003.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31012 GENDER AND LANGUAGE 3 Credit Hours
This course applies linguistic concepts to examine gendered language in written and oral discourse, focusing on the definition of gender and how we experience it in our lives.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31095 SPECIAL TOPICS IN LINGUISTICS 3 Credit Hours
(Repeatable for credit) Study of specific topics in linguistics such as sociolinguistics, phonetics and phonology or bi- and multi-lingualism.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 32001 CHILDREN'S LITERATURE 3 Credit Hours
Survey of children's literature from Mother Goose rhymes and picture books through modern realistic fiction.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 32002 LITERATURE FOR YOUNG ADULTS 3 Credit Hours
Study of literature appropriate to young adults.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33001 U.S. LITERATURE TO 1865 3 Credit Hours
U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the Colonial period through the Civil War.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33002 U.S. LITERATURE FROM 1865 TO 1945 3 Credit Hours
U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the close of the Civil War through World War II.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33003 U.S. LITERATURE FROM 1945 TO PRESENT 3 Credit Hours
U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the close of World War II to the present.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33005 NATIVE AMERICAN LITERATURE (DIVD) 3 Credit Hours
This course explores Native American literature from regions of the U.S., including Alaska and Hawaii. Students learn approaches to traditional and contemporary forms of storytelling and song/poetry as well as recent fiction and memoir. Course prepares students to enter dialogue about key elements of Indigenous perspectives as informed readers.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 33010 AFRICAN-AMERICAN LITERATURE TO 1900 3 Credit Hours
(Cross-listed with AFS 32001) Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Walker, Truth, Garnet, Douglass, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnutt and Dunbar.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33012 MODERN AFRICAN-AMERICAN LITERATURE 3 Credit Hours
(Cross-listed with AFS 32002) Study of African-American literature from the early twentieth century to the present. The authors include Toomer, Hughes, Larsen, Wright, Baldwin, Hansberry, Jones, Lorde, Walker, Morrison, Mosley, Youngblood and Carter.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33013 AFRICANA WOMEN'S LITERATURE (DIVG) 3 Credit Hours
(Cross-listed with AFS 37100) Introduces students to literary works by African and Caribbean women.
Prerequisite: ENG 11011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ENG 33014 AFRICAN-AMERICAN WOMEN'S LITERATURE 3 Credit Hours
(Cross-listed with AFS 37200) Introduces students to literary works by African-American women.
Prerequisite: ENG 11011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33015 AFRICAN LITERATURES (DIVG) 3 Credit Hours
(Cross-listed with AFS 32050) Examines works of major 20th-century African, African American and Caribbean writers and intellectuals. Authors include Niane, Achebe, Emecheta, Prince, Hurston, Hughes, Cesaire, Senghor, Soyinka and many others.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ENG 34001 MEDIEVAL LITERATURE 3 Credit Hours
Medieval literary themes, genres, and authors studied in their historical and cultural contexts. Selections from Anglo-Saxon and Middle English literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34002 BRITISH LITERATURE, 1500-1660 3 Credit Hours
British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Renaissance and Reformation literature through the English Civil War.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34003 BRITISH LITERATURE, 1660-1800 3 Credit Hours
British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Restoration, Augustan and early Romantic literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34004 BRITISH LITERATURE, 1800-1900 3 Credit Hours
British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Romantic and Victorian literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34005 BRITISH AND IRISH LITERATURE, 1900-PRESENT 3 Credit Hours
British and Irish literary themes, genres and authors studied in their historical and cultural contexts. Selections from modern and post modern literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34011 WORLD LITERATURE IN ENGLISH (DIVG) 3 Credit Hours
An examination of selected writings in English by postcolonial authors from Africa, Asia, the Caribbean and other parts of the world.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ENG 34021 WOMEN'S LITERATURE (DIVD) 3 Credit Hours
Critical and theoretical consideration of gender issues concerning British and U.S. women writers studied in their historical and cultural contexts.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 34031 SHORT STORY 3 Credit Hours
Critical analysis of short stories written by important world authors. Selections include stories originally written in English and stories translated into English.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34041 FAIRY TALES 3 Credit Hours
Study of classic fairy tales by Perrault, Grimms, Andersen and others as fundamental texts of Western culture worthy of literary criticism.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34055 SHAKESPEARE 3 Credit Hours
Study of plays representing Shakespeare's entire career, including Henry IV parts I and II, The Merchant of Venice, Measure for Measure, Hamlet, Othello and The Tempest.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34065 CHAUCER 3 Credit Hours
Close study of Chaucer's Canterbury Tales, with some attention to courtly poems and/or selected lyrics.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34070 KNIGHTS AND OUTLAWS IN LITERATURE AND CULTURE 3 Credit Hours
This course invites students to explore literary representations of iconic medieval figures while examining the historical and cultural contexts that produced them. The focus is on Arthurian literature along with the "Matter of the Greenwood" (medieval outlaw literature). Course lectures cover the origins of these figures and trace their representation from the Middle Ages to the present. Emphasis is placed on the changes the figures/stories have undergone and how this is reflective of different periods/cultures. Students critically engage the material and produce their own analysis of the literature set within a historical/cultural context.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34090 SHAKESPEARE IN PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for credit) Course is designed around a field trip to the American Shakespeare Center in Staunton, VA, during which students attend performances of plays and participate in workshops. Students also attend at least one performance of an early modern play staged in Northeast Ohio. Students formally study all the plays before attending performances of them.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture, Study Away
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 34095 SPECIAL TOPICS:MAJOR AUTHOR STUDIES 3 Credit Hours
(Repeatable for credit when topics varies) Intensive study of one or more authors from the English-speaking world.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 35105 LITERATURE, CULTURE AND ENVIRONMENT 3 Credit Hours
Studies literature and other cultural artifacts in the context of environment and nonhuman entities more generally, including plants, animals, landscapes, buildings, roads, and more. Investigates such issues as ecological crisis, climate change, species extinctions, the impacts of geography on culture, urban environments, space and place, nonhuman lives, wilderness, and more. Courses may focus on a single national literature, or on a particular time period, or they may be thematically, regionally, or otherwise organized.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 35201 THE BIBLE AS LITERATURE 3 Credit Hours
Study of Bible as a great book subject to literary criticism and as a main document of Western culture. Old and New Testaments read.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 35301 LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD) 3 Credit Hours
Study of theory, language and other aspects of lesbian, gay, bisexual and transgendered literature and culture.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 35401 SCIENCE FICTION 3 Credit Hours
Study of the origins, history, themes and major works of science fiction drawn from a variety of national literatures, as well as the adaptation of literary works into film, television, graphic novels, video games, and other forms.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 36005 FILM AND NARRATIVE 3 Credit Hours
Studies film as narrative, as story. Emphases will range from thematically oriented courses to courses organized by historical period, national context, or other criteria. Courses may investigate literary texts (such as novels or plays) made into films or the relationship between literature and film in other ways.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 37001 CLASSICAL RHETORIC 3 Credit Hours
Ancient approaches to rhetoric studied in their historical and cultural contexts. Selections from Greek and Roman thinkers such as the Sophists, Plato, Aristotle, Cicero and Quintilian.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 38001 CRITICAL THEORY AND READING 3 Credit Hours
Introduction to major interpretive paradigms in literary studies, from American New Criticism to the present, with emphasis on strategies for analyzing poetry, drama and narrative fiction.
Prerequisite: ENG 21011 or HONR 10297; and ENG 24001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 38002 RHETORIC AND WRITING STUDIES 3 Credit Hours
Introduction to theories and scholarship that have shaped the disciplinary study of rhetoric and writing, including key figures and concepts from classical and modern rhetoric that continue to influence contemporary writing scholarship and pedagogy.
Prerequisite: ENG 21011 or HONR 10297; and ENG 24001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 38895 SPECIAL TOPICS IN WRITING 3 Credit Hours
(Repeatable for credit) Topics vary with an emphasis on writing may. Topics include editing, publishing and grammar.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39095 SPECIAL TOPICS IN LITERARY HISTORY 3 Credit Hours
(Repeatable for credit) Topics vary in the study of selected literary histories such as the travel narrative, the fairy tale, the detective story and postcolonial literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39495 SPECIAL TOPICS IN LITERATURE 3 Credit Hours
(Repeatable for credit) Special topics include but are not limited to drama, poetry, fiction, ethnic literature, women's literature and comparative literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39595 SPECIAL TOPICS IN LITERARY CRITICISM 3 Credit Hours
(Repeatable for credit) Study of selected topics in literary criticism such as reader response criticism, psychoanalytic methodologies or Marxist approaches.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39895 SPECIAL TOPICS IN RHETORIC, COMPOSITION AND WRITING 3 Credit Hours
(Repeatable for credit) Study of selected topics in rhetoric, composition and writing such as historical and contemporary studies of political and professional discourse.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39995 SPECIAL TOPICS CULTURAL STUDIES 3 Credit Hours
(Repeatable for credit) Study of selected topics in cultural studies organized around a particular mode or methodology of cultural analysis.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 40072 HOW TO EDIT PROFESSIONALLY 3 Credit Hours
Provides students with an overview and practical experience of the editing and proofreading process for the professional publishing industry. Provides instruction, practice and feedback on editing documents academic and nonacademic, digital and print, often including fact-checking, proofreading, working with social media and more.
Prerequisite: ENG 21011 or HONR 10297; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 40073 HOW TO PUBLISH: BOOKS AND BEYOND 3 Credit Hours
Students learn how to undertake the publishing process for books, articles and more. Addresses how to conceive of publishable work, create the content, locate publishing venues, communicate with those venues, market products and other elements of publishing. Students have the opportunity to submit their work for actual publication as part of this course.
Prerequisite: ENG 21011 or HONR 10297; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 40089 INTERNATIONAL EXPERIENCE: THEMES IN STUDY ABROAD (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) This course invites students to explore English themes while traveling abroad. Students learn about the course material within a particular/relevant geographic/cultural setting. Course lectures and discussion prior to the class trip prepare students to situate the material within the geographic/cultural context, thus prompting students to be critically engaged during the travel dates. After the study abroad portion of the course, students are required to evaluate the course material/travel via a final project that draws connections between both.
Prerequisite: ENG 21011 or HONR 10297; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ENG 40099 WRITING PORTFOLIO (ELR) 2 Credit Hours
Directed practice in constructing a portfolio of original writing, which may be creative, expository, technical, or preprofessional in nature.
Prerequisite: Creative Writing minor or Professional and Technical Writing minor; and junior standing.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ENG 41001 SOCIOLINGUISTICS IN SCHOOLING (DIVD) (WIC) 3 Credit Hours
Examines the interactions between society and language. Explores pedagogical implications of language variation.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Writing Intensive Course

ENG 41003 LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT 3 Credit Hours
Advanced inquiry into English as a Second Language teaching methods, curriculum design, and materials selection, use and design. Assessment of learners in a student-centered ESL or language curriculum.
Prerequisite: ENG 31007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 41092 ESL PRACTICUM IN INTENSIVE ENGLISH PROGRAMS (ELR) 3 Credit Hours
(Repeatable for credit) Provides opportunities for students to observe, assist, and or teach English as a second language in the ESL Center, including 70 fieldwork hours. Participating ESL Center classes are held Monday through Friday.
Pre/corequisite: ENG 31007.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41093 VARIABLE TITLE WORKSHOP IN ENGLISH 1-6 Credit Hours
(Repeatable for credit) An opportunity to focus on concerns of the discipline and on new developments in writing, criticism, literature and career opportunities.
Prerequisite: Junior standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 41094 COLLEGE TEACHING ASSISTANT (ELR) 1-3 Credit Hours
(Repeatable for credit) An opportunity to assist in the development and delivery of a college course in English. Expectations may include group and class leadership, selection of materials, development of classroom inquiry techniques, and multimedia support.
Prerequisite: Senior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Open to advanced undergraduate students in English or TESL. Only 3 hours of individual investigation count toward the English major.
Prerequisite: Junior standing; and special approval of instructor and department.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ENG 41098 GUIDED RESEARCH IN ENGLISH (ELR) 1-3 Credit Hours
(Repeatable for credit) Independent student research with faculty guidance.
Prerequisite: Junior standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41192 ESL PRACTICUM IN A P-12 SETTING (ELR) 3 Credit Hours
(Repeatable for credit) Provides students seeking educational licensure opportunities to observe, assist, and or teach English as a second language in P-12 schools, including 70 field-clinical hours. Students must complete the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at the assigned school-agency before the first day of Practicum.
Prerequisite: ENG 31005.
Pre/corequisite: ENG 31007.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41194 TUTORING OF WRITING 3 Credit Hours
Provides training and professional development for writing center tutors. Course covers writing center theory and practice, the history writing centers, composition pedagogy, writing across the curriculum, tutoring ESL students, assessing writing center services, and the development of outreach programming.
Prerequisite: Minimum C grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 41198 RESEARCH ASSISTANT IN ENGLISH (ELR) 1-3 Credit Hours
(Repeatable for credit) An opportunity to assist a faculty member on faculty initiated research in criticism and literary analysis, rhetoric and composition, or applied language acquisition and teaching.
Prerequisite: Junior standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41292 TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM (ELR) 3,6 Credit Hours
(Repeatable for a maximum of 12 credits) Students observe, participate and teach in a number of school contexts in Florence, Italy, from primary to secondary, community and higher education. Course gives students authentic practice teaching English in the foreign language context.
Pre/corequisite: ENG 31007.
Schedule Type: Practical Experience
Contact Hours: 5-10 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41392 STUDENT TEACHING (ELR) 9 Credit Hours
Full-time student teaching over 13 weeks in English as a second language in grades P-12. Background check by the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) required to be presented to authorized personnel at the assigned school agency before the first day of student teaching. To be enrolled in the course, students must have official valid certification of child safety training, approved basic life support and ALICE training presented to the campus office of clinical experience.
Prerequisite: CULT 29535 and EPSY 29525 and ETEC 39525; and eligibility for student teaching; and special approval.
Corequisite: ENG 41525.
Schedule Type: Practical Experience
Contact Hours: 27.733 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ENG 41525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ENG 51525) Preparation for student teaching of English as a second language, grades K-12.
Prerequisite: CULT 29535 and EPSY 29525 and ETEC 39525.
Corequisite: ENG 41392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 42092 WRITING INTERNSHIP (ELR) 1-3 Credit Hours
(Repeatable for credit) Guided internship in professional writing, editing, or publishing. Possible placements include the KSU Press, Institute for Bibliography and Editing, and WICK Poetry Center.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ENG 42192 SERVICE LEARNING IN ENGLISH STUDIES (ELR) 3 Credit Hours
(Repeatable for credit) Provides guided opportunities for completing service-learning related to English Studies. Service placements meet a community need and provide practice in such areas as writing, editing, publishing, teaching, and tutoring.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 43092 TEACHING POETRY IN THE SCHOOLS (ELR) 3 Credit Hours
(Repeatable for credit) Exploration of various approaches to teaching poetry writing, poetry appreciation, and poetry performance in school contexts. Study of creative writing as a means of developing literacy and promoting human growth.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 49091 SENIOR SEMINAR (ELR) (WIC) 3 Credit Hours
(Repeatable for credit) Intensive study of in English studies. Students complete a long writing project during the semester.
Prerequisite: ENG 38001 or ENG 38002; and English major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENG 49095 SENIOR AND GRADUATE SPECIAL TOPICS 3 Credit Hours
(Slashed with ENG 59095)(Repeatable for credit) Intensive study of topics that vary each semester.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 51525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ENG 41525) Preparation for student teaching of English as a second language, grades K-12.
Prerequisite: Graduate standing.
Corequisite: ENG 53392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 53392 STUDENT TEACHING 6 Credit Hours
Full-time student teaching over 13 weeks in English as a second language in grades P-12. Background check by the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) required to be presented to authorized personnel at the assigned school agency before the first day of student teaching. To be enrolled in the course, students must have official valid certification of child safety training, approved basic life support and ALICE training presented to the campus office of clinical experience.
Prerequisite: Eligibility for student teaching; graduate standing; and special approval.
Corequisite: ENG 51525.
Schedule Type: Practical Experience
Contact Hours: 27.733 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 59095 SENIOR AND GRADUATE SPECIAL TOPICS 3 Credit Hours
(Slashed with ENG 49095)(Repeatable for credit) Intensive study of topics that vary each semester.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 61000 INTRODUCTION TO RESEARCH AND PEDAGOGY IN CRITICAL READING 3 Credit Hours
Introduction to contemporary methods of literary and cultural criticism and to the profession of teaching English in college.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 61094 INTRODUCTION TO RESEARCH IN THE TEACHING OF COLLEGE WRITING 3 Credit Hours
(Repeatable for credit)Using the Kent program as an example, the focus will be on teaching composition, literature and language along with the needed planning and evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 62291 SEMINAR:BRITISH LITERATURE 1800 TO PRESENT 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 72291) In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 63001 METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours
(Slashed with ENG 73001) The theory and methodology of teaching English as a second language.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63033 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Cross-listed with MCLS 60661) (Slashed with ENG 73033) This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63034 SOCIOLINGUISTICS 3 Credit Hours
(Cross-listed with MCLS 60625)(Slashed with ENG 73034) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63038 TEACHING LITERATURE AND CULTURE 3 Credit Hours
(Cross-listed with MCLS 60622) Students explore theories of literature and culture teaching as well as strategies for teaching literature and culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63039 SECOND LANGUAGE CURRICULUM AND ASSESSMENT 3 Credit Hours
(Cross-listed with MCLS 60663) Students study second language curriculum and assessment design and current issues, including oral proficiency testing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63040 LINGUISTICS FOR THE LANGUAGE PROFESSIONS 3 Credit Hours
(Cross-listed with MCLS 60601) Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63041 DESCRIPTIVE GRAMMAR OF ENGLISH 3 Credit Hours
This course provides a description of English syntax and morphology. Presentation of material will be through rules and exposure to grammatical forms in meaningful contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63043 SECOND LANGUAGE WRITING 3 Credit Hours
(Cross-listed with MCLS 60665) Theory and practice in teaching second language writing. Topics will include current and historic approaches to second language writing, approaches to tutoring international students in writing centers, teacher and peer response, error correction, and technology in second language writing instruction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63044 SECOND LANGUAGE READING 3 Credit Hours
(Cross-listed with MCLS 60664) Addresses a wide variety of topics related to second language reading, including theoretical perspectives, the process of learning to read, models of how reading happens, comprehension, fluency, discourse structures, strategy use, and vocabulary acquisition. Teaching issues related to second language reading will also be addressed directly, namely assessment and curriculum building.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63045 ENGLISH FOR SPECIFIC PURPOSES 3 Credit Hours
Examination of academic, workplace, and vocational language in the design of second language instructional materials and curriculum. Discourse domains from medical to agricultural to business are analyzed through applied linguistic tools. Curriculum and instructional materials are studied and designed.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 63046 SECOND LANGUAGE LISTENING AND SPEAKING 3 Credit Hours
Theory and practice in second language listening and speaking. Topics will include current approaches to second language speech perception and production, issues in teaching and assessing second language listening and speaking, and phonetic, phonological, and acoustic analyses for language teachers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63047 HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING 3 Credit Hours
(Cross-listed with MCLS 60624) Theory and practice in language education of heritage language speakers. Ethnic, minority, ancestral, and community languages and language practices will be explored with implications for second and additional language learning in English, foreign language, bilingual education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63048 SOCIOCULTURAL THEORY AND FOREIGN AND SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Cross-listed with MCLS 60623) The foundations of sociocultural theory and its applications to the second and foreign language classroom.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63049 SECOND LANGUAGE RESEARCH METHODS 3 Credit Hours
(Cross-listed with MCLS 63049) This course provides students with skills for reading, interpreting and conducting research studies investigating second/foreign language teaching, learning and/or use. Students learn about quantitative and qualitative research methods commonly used in second language research. Students also conduct a research project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63391 SEMINAR: LINGUISTICS 3 Credit Hours
(Repeatable for credit) (Cross-listed with ENG 73391) In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 64070 WRITING POETRY 3 Credit Hours
(Cross-listed with ENG 74070) Advanced workshop in creative writing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 64071 WRITING FICTION 3 Credit Hours
(Slashed with ENG 74071) Advanced workshop in the writing of fiction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65012 READING AND INTERPRETING RESEARCH ON WRITING 3 Credit Hours
(Slashed with ENG 75012) Course focuses on how to read critically and interpret published research by examining the principle means through which "knowledge" is constructed in writing research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65022 RHETORICAL THEORY:GREEK AND ROMAN 3 Credit Hours
(Slashed with ENG 75022) Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65023 RHETORICAL THEORY:18TH, 19TH AND 20TH CENTURIES 3 Credit Hours
(Slashed with ENG 75023) Course surveys 18th-, 19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65027 ROLE OF COMPOSITION 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 75027) Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 65035 LINGUISTICS FOR RHETORICIANS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 75035) Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 65051 LITERACY:FUNCTIONS, PRACTICES AND HISTORY 3 Credit Hours
(Slashed with ENG 75051) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project. Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ("adaptation," "power," "grace") those studies employ.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65052 WRITING ACTIVITY AS SOCIAL PRACTICE 3 Credit Hours
(Slashed with ENG 75052) Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65053 WRITING TECHNOLOGIES 3 Credit Hours
(Slashed with ENG 75053) Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66051 SHAKESPEARE 3 Credit Hours
(Slashed with ENG 76051) Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66101 LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR 3 Credit Hours
(Slashed with ENG 76101) Broad, synchronic study of U.S. literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66103 ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours
(Slashed with ENG 76103) An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66104 AFRICAN-AMERICAN LITERATURE 3 Credit Hours
(Slashed with ENG 76104) An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture identity or history.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66302 POST-COLONIAL LITERATURE IN ENGLISH 3 Credit Hours
(Slashed with ENG 76302) An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66401 LITERARY MOVEMENTS 3 Credit Hours
(Slashed with ENG 76401) An examination of one particular movement in literary history via its writers, artists benefactors, thinkers, political demagogues and critics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66501 NARRATIVE LITERATURE 3 Credit Hours
(Slashed with ENG 76501) Close readings of selected novels, short stories biographies autobiographies life writing journals and other forms of narrative and verse by British American and other writers in English from one or more periods in literary history.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66502 DRAMATIC LITERATURE 3 Credit Hours
(Slashed with ENG 76502) Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States from one or more periods in literary history.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66592 PRACTICUM IN TUTORING WRITING 1 Credit Hour
(Repeatable for credit)Practical training and experience in tutoring composition.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENG 66595 SPECIAL TOPICS:AUTHORS AND AUTHORSHIP 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76595) Research-based study of problems in the theory or practice of authorship. Typical courses include "The Creative Process," "Authors and Printers," "Faulkner in Hollywood".
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66705 NARRATIVE FUNCTIONS AND CONSEQUENCES 3 Credit Hours
(Slashed with ENG 76705) Identifies and studies the multifarious ways that narratives of all shapes and sizes permeate and structure one's perception, thinking, feeling, understanding, beliefs, values, ideals and actions in all areas of people's personal and collective lives.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66706 UNDERSTANDING RESEARCH METHODS AND DESIGN IN LITERATURE AND WRITING STUDIES 3 Credit Hours
(Slashed with ENG 76706) Analytical reading and interpretation of published research and criticism, its assumptions, trends and controversies; students identify and contextualize present opportunities for research in field.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66707 PRACTICING NARRATIVE RESEARCH METHODS AND DESIGN 3 Credit Hours
(Slashed with ENG 76707) Engages students in a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 66791 SEMINAR:BRITISH AND IRISH LITERATURE 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76791) In-depth treatment of various topics from Old English literature, Beowulf, Middle English literature and Chaucer.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 66891 SEMINAR:LITERATURE OF THE UNITED STATES 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76891) This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 66895 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76895) Study of selected special topics in literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66991 SEMINAR:GENRE 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76991) In-depth examination of one or more kinds of texts focusing on how forms are defined historically and analytically, with special attention to current approaches.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 67101 FEMINIST THEORY AND CRITICISM 3 Credit Hours
(Slashed with ENG 77101) Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 67104 SOCIAL AND CULTURAL THEORY AND CRITICISM 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 77104) Study of important issues and concepts in Marxist, new historicist, ethnic, post- colonialist and other modes of social/cultural theory and criticism.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 67591 SEMINAR: THEORY AND CRITICISM 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 77591) In-depth study of important topics in contemporary theory and criticism.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 67691 SEMINAR:SCHOLARLY EDITING 3 Credit Hours
(Repeatable for credit when topic varies) (Slashed with ENG 77691) In-depth treatment of various topics from modern scholarly editing.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 68093 VARIABLE TITLE WORKSHOP IN ENGLISH 2-6 Credit Hours
(Repeatable for credit) (Slashed with ENG 78093) Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 68096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with ENG 78096) Intensive study of selected writer or special topic.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ENG 68098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 68392 PRACTICUM IN TEACHING COLLEGE ENGLISH 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 78392) Practical training and experience in teaching beginning composition courses.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 68492 PRACTICUM IN TEACHING INTERNATIONAL STUDENTS 3 Credit Hours
(Repeatable for credit) Practical training and experience in teaching English to international students in a university intensive English program. Field placement in the ESL Center requires 70 field-clinical hours. Participating classes are Monday through Friday.
Prerequisite: Graduate standing.
Pre/corequisite: ENG 63001.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 6 other
Grade Mode: Standard Letter

ENG 68592 PRACTICUM IN TEACHING P-12 ENGLISH LANGUAGE LEARNERS 3 Credit Hours
(Repeatable for credit) Practical training and experience in teaching English to speakers of other languages in P-12 schools including 100 field-clinical hours in an assigned P-12 school.
Prerequisite: Graduate standing in MA TESL Education Concentration.
Pre/corequisite: ENG 63001.
Schedule Type: Field Experience
Contact Hours: 2 lecture, 100 other
Grade Mode: Standard Letter

ENG 69199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 semester hours, 2 to 6 in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ENG 69299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ENG 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ENG 72291 SEMINAR:BRITISH LITERATURE 1800 TO PRESENT 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 62291) In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 73001 METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours
(Slashed with ENG 63001) The theory and methodology of teaching English as a second language.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 73033 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Slashed with ENG 63033) (Cross-listed with MCLS 60661) This course surveys the major theoretical approaches to language acquisition concentrating on second language acquisition and the relationship between acquisition learning research and second language teaching approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 73034 SOCIOLINGUISTICS 3 Credit Hours
(Slashed with ENG 63034 and MCLS 60625) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 73391 SEMINAR:LINGUISTICS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 63391) In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 74070 WRITING POETRY 3 Credit Hours
(Slashed with ENG 64070) Advanced workshop in creative writing.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 74071 WRITING FICTION 3 Credit Hours
(Slashed with ENG 64071) Advanced workshop in the writing of fiction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75012 READING AND INTERPRETING RESEARCH ON WRITING 3 Credit Hours
(Slashed with ENG 65012) Course focuses on how to read critically and interpret published research by examining the principle means through which "knowledge" is constructed in writing research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75022 RHETORICAL THEORY:GREEK AND ROMAN 3 Credit Hours
(Slashed with ENG 65022) Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75023 RHETORICAL THEORY:18TH, 19TH AND 20TH CENTURIES 3 Credit Hours
(Slashed with ENG 65023) Course surveys 18th-,19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75027 ROLE OF COMPOSITION 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 65027) Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 75035 LINGUISTICS FOR RHETORICIANS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 65035) Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 75051 LITERACY:FUNCTIONS, PRACTICES AND HISTORY 3 Credit Hours
(Slashed with ENG 65051) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project. Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ("adaptation," "power," "grace") those studies employ. Prerequisite: Doctoral standing.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75052 WRITING ACTIVITY AS SOCIAL PRACTICE 3 Credit Hours
(Slashed with ENG 65052) Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75053 WRITING TECHNOLOGIES 3 Credit Hours
(Cross-listed with ENG 65053) Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76051 SHAKESPEARE 3 Credit Hours
(Slashed with ENG 66051) Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76101 LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR 3 Credit Hours
(Slashed with ENG 66101) Broad, synchronic study of U.S. literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76103 ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours
(Slashed with ENG 66103) An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76104 AFRICAN-AMERICAN LITERATURE 3 Credit Hours
(Slashed with ENG 66104) An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture, identity or history.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76302 POST-COLONIAL LITERATURE IN ENGLISH 3 Credit Hours
(Slashed with ENG 66302) An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76401 LITERARY MOVEMENTS 3 Credit Hours
(Slashed with ENG 66401) An examination of one particular movement in literary history via its writers, artists, benefactors, thinkers, political demagogues and critics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76501 NARRATIVE LITERATURE 3 Credit Hours
(Slashed with ENG 66501) Close readings of selected novels, short stories, biographies, autobiographies, life writing, journals, and other forms of narrative and verse by British, American and other writers in English, from one or more periods in literary history.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76502 DRAMATIC LITERATURE 3 Credit Hours
(Slashed with ENG 66502) Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States, from one or more periods in literary history.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76592 PRACTICUM IN TUTORING WRITING 1 Credit Hour
(Repeatable for credit)Practical training and experience in tutoring composition.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENG 76595 SPECIAL TOPICS:AUTHORS AND AUTHORSHIP 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66595) Research-based study of problems in the theory or practice of authorship. Typical courses include "the creative process ", "authors and printers ", "Faulkner in Hollywood".
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76705 NARRATIVE FUNCTIONS AND CONSEQUENCES 3 Credit Hours
(Slashed with ENG 66705) Identifies and studies the multifarious ways that narratives of all shapes and sizes permeate and structure one's perception, thinking, feeling, understanding, beliefs, values, ideals and actions in all areas of people's personal and collective lives.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76706 UNDERSTANDING RESEARCH METHODS AND DESIGN IN LITERATURE AND WRITING STUDIES 3 Credit Hours
(Slashed with ENG 66706) Analytical reading and interpretation of published research and criticism, its assumptions, trends and controversies; students identify and contextualize present opportunities for research in field.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76707 PRACTICING NARRATIVE RESEARCH METHODS AND DESIGN 3 Credit Hours
(Slashed with ENG 66707) Engages students in a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 76791 SEMINAR:BRITISH AND IRISH LITERATURE 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66791) In-depth treatment of various topics from old English literature, Beowulf, Middle English literature, and Chaucer.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 76891 SEMINAR:LITERATURE OF THE UNITED STATES 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66891) This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 76895 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66895) Study of selected special topics in literature.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76991 SEMINAR:GENRE 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66991) In-depth examination of one or more kinds of texts focusing on how forms are defined historically and analytically, with special attention to current approaches.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 77101 FEMINIST THEORY AND CRITICISM 3 Credit Hours
(Slashed with ENG 67101) Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 77104 SOCIAL AND CULTURAL THEORY AND CRITICISM 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 67104) Study of important issues and concepts in Marxist, new historicist, ethnic, post-colonialist and other modes of social cultural theory and criticism.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 77591 SEMINAR:THEORY AND CRITICISM 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 67591) In-depth study of important topics in contemporary theory and criticism.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 77691 SEMINAR:SCHOLARLY EDITING 3 Credit Hours
(Repeatable for credit when topic varies) (Slashed with ENG 67691) In-depth treatment of various topics from modern scholarly editing.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 78093 VARIABLE TITLE WORKSHOP IN ENGLISH 2-6 Credit Hours
(Repeatable for credit) (Cross-listed with ENG 68093) Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 78096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with ENG 68096) Intensive study of selected writer or special topic.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ENG 78392 PRACTICUM IN TEACHING COLLEGE ENGLISH 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 68392) Practical training and experience in teaching beginning composition courses.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 85024 DOMAIN RHETORICS AND THE CONSTRUCTION OF KNOWLEDGE 3 Credit Hours
(Repeatable twice for credit) Course examines disciplinarity and knowledge production as historically and socially situated practices and how they are realized through linguistic, rhetorical and material processes and systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85041 FIELD RESEARCH METHODS IN WRITING 3 Credit Hours
Course focuses on qualitative methods for conducting field research in writing within communities of practice and particular contexts and for analyzing and interpreting data.
Prerequisite: 9 credit hours from the following courses: ENG 75012, ENG 75022, ENG 75023, ENG 73034, ENG 75051, ENG 75052, ENG 75053; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85042 DISCOURSE ANALYSIS 3 Credit Hours
Explores various approaches to discourse analysis (e.g., critical discourse analysis, narrative theory, systemic functional linguistics) and teaches students how to use them to conduct linguistic analyses of discourse. We will examine discourse in terms of the key functions language serves as a form of social action: to represent the world, to invoke and create social relationships, interactions, and identities, and to organize utterances into meaningful discursive events and products.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85054 STUDIES IN LITERACY AND COMMUNITY 3 Credit Hours
Course expands on ENG 75052 by examining in more detail how literacy is embedded in the activities and practices of academic, civic and professional communities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85055 THE NATURE AND RELATIONSHIP OF ACADEMIC AND NONACADEMIC LITERACY 3 Credit Hours
Course explores the relationship between academic and non-academic literacy, focusing on relationships pertaining to the school-to-work transitions that students make.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85056 INTRODUCTION TO THE STUDY OF WRITING ASSESSMENT: RESEARCH, THEORY AND PRACTICE 3 Credit Hours
Provides students with an introduction to the theory, research, and practice of writing assessment outside the classroom, as it is informed through the study of the literatures of college writing assessment and educational measurement. In addition to acquiring a basic understanding of measurement principles like reliability and validity for assessing student writing, students can complete projects of their own design for their own institutions.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85057 RHETORICAL METHODS 3 Credit Hours
Focuses on methodological practices associated with rhetorical theory and considers the epistemological and ontological underpinnings of these theories' methodologies. Course investigates how these theories know and what they deem worth knowing. The course is designed around several significant approaches to analysis, both classical and contemporary. This orientation is intended to offer background and prompt students to apply those rhetorical methodologies in their own work.
Prerequisite: 6 credit hours from ENG 75012, ENG 75022, ENG 75023; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 88098 RESEARCH DOCTORAL 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students who have not yet passed candidacy examination. Credits earned may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval of the graduate chairman.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 89199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in two semesters is required first of which will be the semester in which dissertation work is begun and continuing until completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ENG 89299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: ENG 89199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Department of Geography

Environmental Studies (ENVS)

ENVS 22070 NATURE AND SOCIETY (KSS) 3 Credit Hours
Environmental studies takes an interdisciplinary approach to studying the environment, with insights from natural sciences, social sciences and the humanities. This course introduces the discipline and explores theoretical approaches to understanding how humans interact with and perceive their environment. It applies these approaches to some of the world's greatest environmental challenges: climate change, the loss of biodiversity, urban sustainability, food and resource insecurity, and the degradation of the physical environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Social Sciences, TAG Social and Behavioral Sciences

ENVS 30000 ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT 3 Credit Hours
(Cross-listed with PLST 30000) The Federal and State environmental regulations including the National Environmental Policy Act, the Clean Air Act, the Clean Water Act, Solid and Hazardous Waste regulations (RCRA) and the Superfund Legislation require the utilization of trained environmental professionals to conduct Environmental Site Assessments (ESAs). The focus of this course is to introduce students to the methods and approaches for conducting environmental research and study of industrial sites with respect to environmental policies and regulations. The enforcement of regulations utilize environmental professionals who serve in governmental agencies, work in private environmental companies that provide assessments and consultations for industries, and who are employed by industries that seek qualified employees to conduct assessments, and provide professional guidance for industrial regulatory compliance.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENVS 30105 CAREER PATHWAYS IN ENVIRONMENTAL STUDIES 1 Credit Hour
Orients students toward various career pathways in environmental studies.
Prerequisite: ENVS 22070; and Environmental Studies major; and junior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

ENVS 32091 ENVIRONMENTAL STUDIES AND SUSTAINABILITY 2 Credit Hours
Various aspects of environmental studies are explored. Topics vary.
Prerequisite: ENVS 22070; and Environmental Studies major; and junior standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

ENVS 42099 INTEGRATIVE SENIOR PROJECT (ELR) (WIC) 3 Credit Hours
This is the capstone course for the Environmental Studies major. All students in this course learn about methods of investigation and presentation in the area of environmental studies. The course culminates in a major research project developed and written by each student.
Prerequisite: ENVS 22070 and ENVS 32091; and Environmental Studies major.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENVS 46092 INTERNSHIP IN ENVIRONMENTAL STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) (Slashed with ENVS 56092) Work experience in local, regional and national agencies or companies designed to utilize and develop academic and professional skills.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENVS 49195 SPECIAL TOPICS IN ENVIRONMENTAL STUDIES 1-3 Credit Hours
(Slashed with ENVS 49195) Special topics in Environmental Studies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3-9 lecture
Grade Mode: Standard Letter

ENVS 56092 INTERNSHIP IN ENVIRONMENTAL STUDIES 3-6 Credit Hours
(Slashed with ENVS 46092)(Repeatable for credit) Work experience in local, regional and national agencies or companies designed to utilize and develop academic and professional skills.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Standard Letter

ENVS 59195 SPECIAL TOPICS IN ENVIRONMENTAL STUDIES 1-3 Credit Hours
(Slashed with ENVS 49195) Special topics in Environmental Studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3-9 lecture
Grade Mode: Standard Letter

Geography (GEOG)

GEOG 10160 INTRODUCTION TO GEOGRAPHY 3 Credit Hours
A broad introduction to the study of geographic patterns on Earth. Course describes and explains spatial patterns of human activity and environmental processes, as well as the interaction between these two realms. Topics include weather, climate, landforms, human-environment interactions, population, culture, economy and politics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 16001 SOIL AND HORTICULTURAL MANAGEMENT 3 Credit Hours
Course provides students with an understanding of the relationship of soil, nutrients and fertilizers. Students understand how to properly plant trees, shrubs and flowers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 17063 WORLD GEOGRAPHY (DIVG) (KSS) 3 Credit Hours
An overview of the differences and similarities within and between regions of the world. Students study the impacts of spatial processes as they operate at regional, global and local scales. Course emphasizes the effects of globalization on culture, economies, geopolitical relationships, population and the environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

GEOG 17064 GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS) 3 Credit Hours
An overview of the differences and similarities within and between regions of the United States and Canada. Course focuses on social, economic, settlement and environmental patterns and processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

GEOG 20195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit) Course explores emerging topics in geography not covered in other existing courses. Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 21062 PHYSICAL GEOGRAPHY (KBS) 3 Credit Hours
Introduction to the study of the spatial characteristics of the Earth's physical environment, including how humans interact with it. Topics include weather and climate, vegetation, soils, ecosystems, landforms and land-formation processes, human impacts on Earth systems and human societal adaptations to the physical environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Social and Behavioral Sciences, Transfer Module Natural Sciences

GEOG 21063 PHYSICAL GEOGRAPHY LABORATORY (KBS) (KLAB) 1 Credit Hour
Course offers practical experience examining physical geographic processes, including the study and manipulation of map projections, Earth-sun relationships and experiments relating to the atmosphere, biosphere, lithosphere and hydrosphere. This laboratory course is taught in conjunction with the lecture and is designed to expand and reinforce concepts discussed in lecture through hands-on activities.
Corequisite: GEOG 21062.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

GEOG 22040 INTRODUCTION TO GLOBAL TOURISM (DIVG) 3 Credit Hours
(Cross-listed with RPTM 26060) Introduction to travel and tourism around the world. Students study tourism technologies and cultural and natural environments as attractions, benefits of travel, travel ethics and sustainable development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 22061 HUMAN GEOGRAPHY (DIVG) (KSS) 3 Credit Hours
Introduction to the spatial patterns and processes of human activity on Earth. Course examines how humans understand and interact with the world. Students consider how cities are structured; economic and cultural differences; the interaction between politics and identity; and the environmental consequences of human activities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

GEOG 31062 FUNDAMENTALS OF METEOROLOGY 3 Credit Hours
Analysis of weather elements emphasizing energy exchanges and controls and atmospheric circulation. Course highlights the methods of weather prediction and people's modification of weather.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 31064 CLIMATE AND THE ENVIRONMENT 3 Credit Hours
A study of the physical processes causing the distribution of world climates. Focus on local and urban climates, climatic change and societal impacts of climate.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 31070 POPULATION AND THE ENVIRONMENT 3 Credit Hours
Course examines the interrelations of population growth, resource depletion and the environment from a geographic perspective, including the principal themes of space and place.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 31080 GEOGRAPHY OF WINE 3 Credit Hours
Examines the physical environment of viticulture, including climate, soil and farm practices; the cultural tradition of wine making, consumption and trade; and regional production styles.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 31088 ENVIRONMENTAL GEOGRAPHY THROUGH FILM 3 Credit Hours
Cinema combines the art of storytelling and creation of landscape in such a way as to capture artifacts of the culture from which films emerge and as such, document in some way cultural, social and political history and experiences. In the course, films are used to examine environmental issues and processes in their social and cultural context.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 32023 FOOD AND PLACE (ELR) 3 Credit Hours
Course gives students a working knowledge in, and ability to understand and analyze, the intersections of food production, access and consumption. Course enables students to apply a critical geographic lens to compare the traditional food production system with alternatives at various scales, from local to global. Students focus on urban community gardening as one such alternative and personally interact with the Stark Campus' Flash's Food Garden as a case study in planning and preparing such a garden. Course combines lectures, discussions of scholarly publications, field trips, guest lectures and the hands-on experiential learning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GEOG 32080 POLITICS AND PLACE (DIVG) 3 Credit Hours
Spatial aspects of political behavior as manifested in boundary changes, the sizes of states, interstate relations and spatial organization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 34070 ECONOMIC GEOGRAPHY 3 Credit Hours
Examines economic patterns at global, national, regional and local scales. Focus of course goes beyond space to place, with the recognition that these patterns are socially produced and, as such, change over time. Students examine economic models and theories from a spatial perspective, but with a strong focus on real-life outcomes, debates and challenges.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 36065 CITIES AND URBANIZATION (DIVG) 3 Credit Hours
Course examines what is a city, how it has evolved over time under changing economic conditions, what is its internal structure and how this has been influenced by transportation developments. Special attention is paid to the causes and consequences of social diversity within the city and how cities differ throughout the world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37010 GEOGRAPHY OF OHIO 3 Credit Hours
Study of Ohio as a distinctive region, its environment and the varied characteristics of its population, its historical geographic development and contemporary patterns and problems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 37040 GEOGRAPHY OF AFRICA (DIVG) 3 Credit Hours
Course covers the complex geographical and cultural elements in Africa and demonstrates how the interaction of these elements has affected Africa's linkages to other continents, especially North America. Students discuss how this diversity has affected Africa's economic development and political evolution.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37045 GEOGRAPHY OF THE MIDDLE EAST 3 Credit Hours
The Middle East is a world region where the interactions between human and physical geographies have shaped its history, culture, economies and population patterns. The course uses a thematic approach to understand these interactions and how they shape the modern Middle East and its relationship with the wider world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 37066 GEOGRAPHY OF EUROPE (DIVG) 3 Credit Hours
Europe is unique in terms of its historical cultural influence around the world, but over recent decades, Europe has undergone significant change and experienced many struggles. The attempts to integrate have led to significant debates about just what it means to be "European." This course covers Europe using a systematic approach. Students study the physical, political, religious, linguistic, social and economic environments within Europe. In addition, students explore the issues that tie Europeans to each other and to the outside world. Students sum up many of these aspects with case studies of nations or regions that typify the issues that face Europe today.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37070 GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG) 3 Credit Hours
Analysis of the physical and cultural geography of East and Southeast Asia, extending from Japan and China to Burma and Indonesia.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37072 GEOGRAPHY OF CHINA 3 Credit Hours
Provides an overview of China's physical environment, natural and human resources, social, economic and cultural characteristics, and its roles in today's global environment. Offers a comprehensive view of China's historical development and contemporary trends of growth and how it impacts the United States.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 37084 GEOGRAPHY OF SOUTH AMERICA (DIVG) 3 Credit Hours
Overview of region and survey of each country emphasizes systematic similarities and differences in physical environment, culture, economic development, population, land use, politics and history.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37085 GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG) 3 Credit Hours
Latin America and the Caribbean is a traditional geographic region that has been uniquely shaped through multiple physical and cultural factors. Course takes a thematic approach to understanding the interplay of these factors and how they shape modern Latin America-Caribbean identity; the diversity of the environment and culture within the region; and how the region relates to the rest of the world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37095 SPECIAL TOPICS IN REGIONAL GEOGRAPHY 3 Credit Hours
(Repeatable for a maximum of 3 times) Special topics course in a specific region of the world. Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 39002 STATISTICAL METHODS IN GEOGRAPHY 3 Credit Hours
Explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association and regression analysis. Geographic applications are emphasized.
Prerequisite: MATH 10041 or MATH 11009 or MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 39070 MAPPING, SPACE AND POWER 3 Credit Hours
Maps serve as visual representations of space. They encapsulate the intentions and perspectives of their creators and acquire new functionalities as people interpret and use them for various purposes. This course focuses on critical cartography as it analyzes the power and influence wielded by maps. Students explore maps, the process of map creation and map interpretation. They also delve into how mapping activities are inherently political and inseparable from power dynamics. The course examines the historical and cultural development of mapping with a focus on how maps perpetuate existing power structures through their creation, distribution and interpretation. At the same time, students also focus on the power of maps to disrupt and to promote social and environmental justice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 40093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-6 Credit Hours
(Repeatable for credit) Workshop topics vary per course offering.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 40191 SEMINAR IN GEOGRAPHY (ELR) (WIC) 3 Credit Hours
(Repeatable for credit) Advanced study of the historical development of geography and of contemporary issues in the field. Emphasis on methods of geographic investigation and presentation of results.
Prerequisite: Geography major; and junior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GEOG 40192 PRACTICUM IN GEOGRAPHY (ELR) 1-3 Credit Hours
(Repeatable for credit) Practical experience in using or teaching geographic techniques and/or problem-solving. Faculty supervise the practicum.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

GEOG 40195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 50195 and GEOG 70195) Topics vary according to research interest of the instructor.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 40199 CAPSTONE IN APPLIED GEOGRAPHY (ELR) (WIC) 3 Credit Hours
This is a capstone course in the geography major. The course consists of the development of a major geography research project of the student's choice (with instructor approval), including the development of a problem statement, methodology and final report, along with a presentation of the research project and its conclusions. The central component of the course is a capstone project that students complete by the end of the course. The capstone project allows the student to apply the skills and knowledge they gained through their experiences in the geography major. The project demonstrates their ability to analyze a real-world problem using GIS and come up with a solution based upon that analysis. This may consist of a project tied into an internship or job that contributes significantly to their future professional work. For others, this project provides a demonstration to potential employers of their GIS skills.
Prerequisite: Special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GEOG 40285 FIELD EXPERIENCE IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 50285 and GEOG 70285) This course introduces students to field methods used in human and physical geography. Students spend most of the class hours outside investigating important local resources like the Cuyahoga Valley National Park, where they are introduced to geographic approaches to real world problems. Specific field methods may include: landscape interpretation; atmospheric monitoring; hydrologic sampling; terrestrial habitat analyses; human and nature interactions; food desert investigation; urban green space ratios; and traffic data collection.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 40392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS (ELR) 1-6 Credit Hours
(Repeatable for credit) Students undertake a practicum to examine newly emerging geographic topics and techniques.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

GEOG 40492 STUDY AWAY IN GEOGRAPHY (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with GEOG 50492 and GEOG 70492) Examination of geographic landscapes in the field.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GEOG 40996 INDIVIDUAL INVESTIGATION IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit) Students undertake an investigation or research on specific geographical problems.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

GEOG 41051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours
(Slashed with GEOG 51051 and GEOG 71051) This course is a study of natural disasters, the physical processes responsible for hazards, and their effects on the physical and social environment. It focuses on the science of natural hazards and how we can use our knowledge of these natural events and processes to reduce the occurrence or mitigate the effects of natural disasters. Natural disasters include earthquakes, volcanoes, tsunamis, landslides, thunderstorms and tornadoes, heatwaves and droughts, floods, coastal hazards, and wildfires. This course is taught through lecture and analysis of numerous case studies of global natural disasters.
Prerequisite: Junior standing or above.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41065 DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 51065 and GEOG 71065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) to provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.
Prerequisite: GEOG 31062 or GEOG 31064.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41066 GLOBAL CLIMATE CHANGE 3 Credit Hours
(Slashed with GEOG 51066 and GEOG 71066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41073 CONSERVATION OF NATURAL RESOURCES 3 Credit Hours
(Slashed with GEOG 51073 and GEOG 71073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41074 RESOURCE GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 51074 and GEOG 71074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41077 WATER AND SOCIETY 3 Credit Hours
(Slashed with GEOG 51077 and GEOG 71077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion based with limited lectures to ensure students understand key concepts.
Prerequisite: Junior standing or above.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41082 GEOGRAPHY OF SOILS 3 Credit Hours
(Slashed with GEOG 51082 and GEOG 71082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.
Prerequisite: ESCI 11040 or GEOG 21062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for a maximum 10 times)(Slashed with GEOG 51195 and GEOG 71195) Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 41800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours
(Slashed with GEOG 51800 and GEOG 71800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42040 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours
(Cross-listed with RPTM 46000, HTM 56000) Investigation of travel and tourism development using an interdisciplinary social science approach.
Prerequisite: RPTM 36060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42052 HEALTH GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 52052 and GEOG 72052) This course examines health/medical geography, a subdiscipline of both public health and geography, that focuses on geographic aspects of health and disease. The field deals with human-environment interactions and their influence on human health. This course offers historical context to geography and health and covers three major approaches to health/medical geographic scholarship: ecological approaches, which systematically analyzes relationships between people and their environments; social approaches, including political economy and socio-behavioral approaches; and spatial approaches.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours
(Slashed with GEOG 52053 and GEOG 72053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 52064 and GEOG 72064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours
(Slashed with GEOG 52070 and GEOG 72070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.
Prerequisite: Junior standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 42195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for maximum 10 times)(Slashed with GEOG 52195 and 72195) Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 43070 WICKED PROBLEMS: TACKLING GLOBAL ISSUES IN THE 21ST CENTURY 3 Credit Hours
(Cross-listed with ESCI 43001 and POL 43001) This course provides an overview and analysis of the United Nations Sustainable Development Goals (SDG), as well as strategies that can be used for tackling them. The SDGs address the most serious problems faced by humankind today. These include poverty, hunger, inequality, climate change, economic development and environmental sustainability. A key characteristic of the SDGs is that they are known as "wicked problems." Wicked problems are complex issues that resist conventional approaches to problem solving, and for which existing solutions often create unintended consequences that only make the original problem worse. Emphasis is placed on problems of collective action, evidence-based public policies and interdisciplinary approaches to addressing global issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 44010 GEOGRAPHIES OF GLOBAL DEVELOPMENT 3 Credit Hours
(Slashed with GEOG 54010 and GEOG 74010) This course examines the political economy of development. More narrowly, we examine the historical geography of agricultural transformations and capitalist development. We draw from case studies from different regions to interpret differential patterns of development and political-economic change. Emphasis is placed on the creation, structure, and operation of the capitalist agro-food system and its impact on small-scale farmers and landless rural workers.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 45085 URBAN TRANSPORTATION 3 Credit Hours
(Slashed with GEOG 55085 and GEOG 75085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 46060 FOOD SECURITY AND SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 56060 and GEOG 76060) This course explores the concept of food security from the standpoint of agrarian change, food regimes, agroecology, and development. In the process, we examine the various frameworks that have grounded academic and popular understandings of famine and food security, including Malthusian, environmental determinism, Food Availability Decline (FAD), entitlements, and historical materialism.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 46070 URBAN AND REGIONAL PLANNING 3 Credit Hours
(Slashed with GEOG 56070 and GEOG 76070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 46080 URBAN SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 56080 and GEOG 76080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.
Prerequisite: None.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 46081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 56081 and GEOG 76081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.
Prerequisite: Junior standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 46092 INTERNSHIP IN GEOGRAPHY AND PLANNING (ELR) 3-6 Credit Hours
(Repeatable for credit) Pre-professional work experience in local, regional and environmental planning agencies and in business designed to utilize and develop academic skills. Registration into the course is competitive based on student's skills and interests and on number of positions available.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GEOG 49070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours
(Slashed with GEOG 59070 and GEOG 79070) Introduction to theories and methods for geographic data processing, including data capture and input data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

GEOG 49072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours
(Slashed with GEOG 59072 and GEOG 79072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49073 ENVIRONMENTAL DATA ANALYSIS IN R 3 Credit Hours
(Slashed with GEOG 59073 and GEOG 79073) The course aims to teach students basic concepts, skills, and tools for working with data in R. R is an open-source (free) programming language for statistical computing and graphics that statisticians widely use, scientists, data miners, and geographers. The number of R users grows exponentially each year, contributing to a massive online community and countless free tutorials. This is a hands-on course designed for students with no programming experience. However, this course does not teach statistics: understanding of basic statistics and common statistical tests is assumed and prior coursework in statistics is encouraged. With the knowledge gained in this course, students will be ready to undertake their own data analysis in R and increase their efficiency through reproducible workflows.
Prerequisite: BSCI 40224 or GEOG 39002 or MATH 10041.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours
(Slashed with GEOG 59075 and GEOG 79075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49076 SPATIAL PROGRAMMING 3 Credit Hours
(Slashed with GEOG 59076 and GEOG 79076) Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours
(Slashed with GEOG 59078 and GEOG 79078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 59080 and GEOG 79080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 59085 and GEOG 79085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49098 RESEARCH IN GEOGRAPHIC INFORMATION TECHNOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Students undertake individual research on a topic in geographic information technology.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

GEOG 49162 CARTOGRAPHY 3 Credit Hours
(Slashed with GEOG 49162 and GEOG 79162) Introduces map design principles including base maps, typography, generalization, symbols, color scheme, and classification. Builds on students' experiences with GIS to focus on applying map design principles using geospatial and graphic design software to produce effective print and static web maps.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours
(Repeatable for maximum 10 times)(Slashed with GEOG 59195 and GEOG 79195) Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 49198 RESEARCH IN CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS (ELR) 1-3 Credit Hours
(Repeatable for credit) Students undertake individual research on a topic in cartography or geographic information science (GIS) under the direction of a faculty member.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GEOG 49230 REMOTE SENSING 3 Credit Hours
(Cross-listed with ESCI 42030)(Slashed with ESCI 52030, ESCI 72030, GEOG 59230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 50093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-5 Credit Hours
(Repeatable for credit)Variable title workshop in geography.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 50195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 40195 and GEOG 70195) Topics vary according to research interest of the instructor.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 50285 FIELD EXPERIENCE IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 40285 and GEOG 70285) This course introduces students to field methods used in human and physical geography. Students spend most of the class hours outside investigating important local resources like the Cuyahoga Valley National Park, where they are introduced to geographic approaches to real world problems. Specific field methods may include: landscape interpretation; atmospheric monitoring; hydrologic sampling; terrestrial habitat analyses; human and nature interactions; food desert investigation; urban green space ratios; and traffic data collection.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 50392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS 1-6 Credit Hours
(Repeatable for credit) Students undertake a practicum examining newly emerging geographic topics and techniques.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 50492 STUDY AWAY IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for maximum 6 attempts)(Slashed with GEOG 40492 and GEOG 70492) Examination of geographic landscapes in the field.
Prerequisite: Graduate standing.
Schedule Type: Field Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter

GEOG 51051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours
(Slashed with GEOG 41051 and GEOG 71051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations.Students learn through the analysis of numerous case studies of natural disasters.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51065 DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 41065 and GEOG 71065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) to provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51066 GLOBAL CLIMATE CHANGE 3 Credit Hours
(Slashed with GEOG 41066 and GEOG 71066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51073 CONSERVATION OF OUR NATURAL RESOURCES 3 Credit Hours
(Slashed with GEOG 41073 and GEOG 71073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51074 RESOURCE GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 41074 and GEOG 71074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51077 WATER AND SOCIETY 3 Credit Hours
(Slashed with GEOG 41077 and GEOG 71077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion-based with limited lectures to ensure students understand key concepts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51082 GEOGRAPHY OF SOILS 3 Credit Hours
(Slashed with GEOG 41082 and GEOG 71082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for a maximum 10 times)(Slashed with GEOG 41195 and GEOG 71195) Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 51800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours
(Slashed with GEOG 41800 and GEOG 71800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52052 HEALTH GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 42052 and GEOG 72052) This course examines health/medical geography, a subdiscipline of both public health and geography, that focuses on geographic aspects of health and disease. The field deals with human-environment interactions and their influence on human health. This course offers historical context to geography and health and covers three major approaches to health/medical geographic scholarship: ecological approaches, which systematically analyzes relationships between people and their environments; social approaches, including political economy and socio-behavioral approaches; and spatial approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours
(Slashed with GEOG 42053 and GEOG 72053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 42064 and GEOG 72064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours
(Slashed with GEOG 42070 and GEOG 72070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for a maximum 10 times)(Slashed with GEOG 42195 and GEOG 72195) Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 54010 GEOGRAPHIES OF GLOBAL DEVELOPMENT 3 Credit Hours
(Slashed with GEOG 44010 and GEOG 74010) This course examines the political economy of development. More narrowly, we examine the historical geography of agricultural transformations and capitalist development. We draw from case studies from different regions to interpret differential patterns of development and political-economic change. Emphasis is placed on the creation, structure, and operation of the capitalist agro-food system and its impact on small-scale farmers and landless rural workers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 55085 URBAN TRANSPORTATION 3 Credit Hours
(Slashed with GEOG 45085 and GEOG 75085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 56060 FOOD SECURITY AND SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 46060 and GEOG 76060) This course explores the concept of food security from the standpoint of agrarian change, food regimes, agroecology, and development. In the process, we examine the various frameworks that have grounded academic and popular understandings of famine and food security, including Malthusian, environmental determinism, Food Availability Decline (FAD), entitlements, and historical materialism.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 56070 URBAN AND REGIONAL PLANNING 3 Credit Hours
(Slashed with GEOG 46070 and GEOG 76070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 56080 URBAN SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 46080 and GEOG 76080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 56081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 46081 and GEOG 76081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 56092 INTERNSHIP IN GEOGRAPHY AND PLANNING 3-6 Credit Hours
(Repeatable for credit) Pre-professional work experience in local, regional and environmental planning agencies and private business designed to utilize and develop academic skills.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

GEOG 59070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours
(Slashed with GEOG 49070 and GEOG 79070) Introduction to theories and methods for geographic data processing, including data capture and input, data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

GEOG 59071 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I 3 Credit Hours
Introduction to fundamental concepts and methods for geographic data analysis, including data capture and input, data storage and management, and data analysis and display. Emphasis is on applications of GIS software to real world issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours
(Slashed with GEOG 49072 and GEOG 79072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59073 ENVIRONMENTAL DATA ANALYSIS IN R 3 Credit Hours
(Slashed with GEOG 49073 and GEOG 79073) The course aims to teach students basic concepts, skills, and tools for working with data in R. R is an open-source (free!) programming language for statistical computing and graphics that statisticians widely use, scientists, data miners, and geographers. The number of R users grows exponentially each year, contributing to a massive online community and countless free tutorials. This is a hands-on course designed for students with no programming experience. However, this course does not teach statistics: understanding of basic statistics and common statistical tests is assumed and prior coursework in statistics is encouraged. With the knowledge gained in this course, students will be ready to undertake their own data analysis in R and increase their efficiency through reproducible workflows.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours
(Slashed with GEOG 49075 and GEOG 79075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59076 SPATIAL PROGRAMMING 3 Credit Hours
(Slashed with GEOG 49076 and GEOG 79076) Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena.
Prerequisite: GEOG 59070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours
(Slashed with GEOG 49078 and GEOG 79078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 49080 and GEOG 79080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.
Prerequisite: GEOG 59070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59081 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II 3 Credit Hours
Advanced theories and techniques for handling and analyzing geographic data, analytical functions and modelling approaches. Topics covered include: two- and three-dimension processing of geographic information, detection of geographic patterns through spatial analysis and spatial statistics, network analysis, modeling of geographic processes and an overview of GIS programming tools.
Prerequisite: GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 49085 and GEOG 79085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59162 CARTOGRAPHY 3 Credit Hours
(Slashed with GEOG 49162 and GEOG 79162) Introduces map design principles including base maps, typography, generalization, symbols, color scheme, and classification. Builds on students' experiences with GIS to focus on applying map design principles using geospatial and graphic design software to produce effective print and static web maps.
Prerequisite: GEOG 49070 or GEOG 59070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours
(Repeatable for maximum 10 times)(Slashed with GEOG 49195 and GEOG 79195).Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 59230 REMOTE SENSING 3 Credit Hours
(Cross-listed with ESCI 52030)(Slashed with ESCI 42030, ESCI 72030, GEOG 49230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 60191 SEMINAR IN TOPICAL GEOGRAPHY 3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 70191) Seminar in one of the major topical fields in geography. Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: GEOG 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 60800 SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT 3 Credit Hours
(Slashed with GEOG 70800) Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 60900 QUALITATIVE RESEARCH METHODS IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 70900) Introduces qualitative methods and research applications, along with methodological considerations of these approaches. Students consider the epistemology of qualitative research and learn the mechanics of conducting this research in the field. In class, these methods are put into practice and the results are put into writing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 60996 RESEARCH IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit) Students undertake individual research problems in geography.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

GEOG 60998 RESEARCH I 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

GEOG 61998 RESEARCH II 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 67091 SEMINAR IN REGIONAL GEOGRAPHY 3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 77091) Variable content seminar on one of the major regions of world.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 69004 QUANTITATIVE METHODS IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 79004) Explores the methods and applications of some of the most common statistics found in geographic work. It explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association, correlation and regression analysis, and principal components analysis. Theory and execution of these methods are equally emphasized, and applications to geographic problems are examined within each theme.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69007 SPATIOTEMPORAL ANALYTICS 3 Credit Hours
Course equips students with essential spatiotemporal thinking and technical skills in mapping, analyzing, visualizing, communicating and simulating the spatiotemporal data. The software ArcGIS and free packages in R and Netlogo are used in the instruction.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69073 GEOGRAPHIC INFORMATION SCIENCE: GLOBAL HEALTH 3 Credit Hours
Emerging and re-emerging diseases in non-developed countries pose one of the greatest health challenges of current times. Geospatial approaches often provide one of the only information sources in data poor and challenging environments. The course exposes students to these health issues and disease environments through varied case studies, while simultaneously highlighting the geospatial methods and approaches used to understand and combat disease.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69074 GEOGRAPHIC INFORMATION SCIENCE: SPATIAL ANALYSIS FOR HEALTH GEOGRAPHY 3 Credit Hours
Spatial analysis is used to verify patterns and associations in health data maps. These results can then be used to further hone the scientific question, or help design an intervention strategy. Course introduces students to spatial analytical approaches used by health researchers and practitioners in the exploratory investigation of health data. Students are exposed to new mobile technologies that can be used to enrich more traditional spatial data sources.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69079 ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
GPS and environmental spatial data are commonly used in a variety of management and assessment plans in fields related to environmental science to achieve effective decision making and environmental resource management. Course focuses on techniques used to process, manage, visualize and analyze environmental data using GIS. Students learn how to collect and process GPS and online sources of geospatial data and how to employ techniques such as suitability modeling, measuring distributions and calculating landscape metrics.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69082 CYBERGIS 3 Credit Hours
(Slashed with GEOG 79082) Explores cyberinfrastructure-enabled geographic information systems (i.e. cyberGIS) and related technologies including a broad introduction to the use, design, and development of cyberinfrastructure, spatial data infrastructures, geographic information services, and web-enabled mapping technologies. Situates CyberGIS in the broader context of geographic information science focusing on the how synthesizing computational thinking and spatial thinking influence methodological approaches.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69083 GEODATABASES 3 Credit Hours
Course explores the essential concepts and skills needed to efficiently create a geodatabase, add data to it and realistically model the real-world spatial relationships inherent to the data. Students learn about geodatabase features that help ensure data integrity over time and about storing and managing geographic data.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69164 CARTOGRAPHIC DESIGN 3 Credit Hours
Introduces students to the principles of map design and the art of map construction. Students will become familiar with the cartographic process, especially as they apply basic mapping concepts such as scale, projections, typography, generalization, symbols, color scheme, and classification to the design and production of thematic maps. Students will also learn how to describe and manipulate spatial data and how to select an appropriate map type for a given task and data set. This course builds on students' experiences with GIS to focus on the design needed to disseminate information beyond users of the software and produce effective print and web maps. Class exercises will provide hands-on experience in using GIS and graphic software packages. Principles and experiences learned in class will equip students with the fundamental skills necessary to effectively communicate graphic information through maps.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69231 ENVIRONMENTAL REMOTE SENSING 3 Credit Hours
Introduction to the basic principles of environmental remote sensing, including the electromagnetic spectrum, spectral properties of Earth objects, aerial photograph analysis and interpretation and satellite image analysis and interpretation. Special focus will be on environmental applications, especially as they pertain to understanding vegetation, water, and land use mapping and impacts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69392 PRACTICUM IN GEOGRAPHIC INFORMATION SCIENCE 6 Credit Hours
Culminating experience for students in the MGISc program. It will be taken in place of two CarouselSpecialist courses on the schedule for the student's final semester. It is designed to provide practical experience in the application of MGISc course content in real-world professional settings. Students will select a professional project in consultation with their employer and program faculty and then will design, implement, and report on their activities in a culminating professional paper.
Prerequisite: GEOG 59070 or GEOG 59071 and GEOG 59080 or GEOG 59081 and GEOG 69164; and two additional graduate-level GEOG courses; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter-IP

GEOG 69701 RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA 3 Credit Hours
Critical discussion of techniques of geographic research and preparation and presentation of research papers.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 70093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-5 Credit Hours
(Repeatable for credit)Variable title workshop in geography.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 70191 SEMINAR IN TOPICAL GEOGRAPHY 3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 60191) Seminar in one of the major topical fields in geography. Topics vary per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 70195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 40195 and GEOG 50195) Topics vary according to research interest of the instructor.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 70285 FIELD EXPERIENCE IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 40285 and GEOG 50285) This course introduces students to field methods used in human and physical geography. Students spend most of the class hours outside investigating important local resources like the Cuyahoga Valley National Park, where they are introduced to geographic approaches to real world problems. Specific field methods may include: landscape interpretation; atmospheric monitoring; hydrologic sampling; terrestrial habitat analyses; human and nature interactions; food desert investigation; urban green space ratios; and traffic data collection.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 70392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS 1-6 Credit Hours
(Repeatable for credit) Students undertake a practicum in examining newly emerging geographic topics and techniques.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 70492 STUDY AWAY IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for maximum 6 attempts)(Slashed with GEOG 40492 and GEOG 50492) Examination of geographic landscapes in the field.
Prerequisite: Doctoral standing.
Schedule Type: Field Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter

GEOG 70800 SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT 3 Credit Hours
(Slashed with GEOG 60800) Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 70900 QUALITATIVE RESEARCH METHODS IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 60900) Introduces qualitative methods and research applications, along with methodological considerations of these approaches. Students consider the epistemology of qualitative research and learn the mechanics of conducting this research in the field. In class, these methods are put into practice and the results are put into writing.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours
(Slashed with GEOG 41051 and GEOG 51051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations.Students learn through the analysis of numerous case studies of natural disasters.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71052 GLACIERS AND GLACIATION 3 Credit Hours
Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71065 DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 41065 and GEOG 51065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) to provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71066 GLOBAL CLIMATE CHANGE 3 Credit Hours
(Slashed with GEOG 41066 and GEOG 51066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71073 CONSERVATION OF OUR NATURAL RESOURCES 3 Credit Hours
(Slashed with GEOG 41073 and GEOG 51073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71074 RESOURCE GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 41074 and GEOG 51074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71077 WATER AND SOCIETY 3 Credit Hours
(Slashed with GEOG 41077 and GEOG 51077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion-based with limited lectures to ensure students understand key concepts.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71082 GEOGRAPHY OF SOILS 3 Credit Hours
(Slashed with GEOG 41082 and GEOG 51082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for a maximum 10 times)(Slashed with GEOG 41195 and GEOG 51195) Topics vary per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 71800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours
(Slashed with GEOG 41800 and GEOG 51800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72052 HEALTH GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 42052 and GEOG 52052) This course examines health/medical geography, a subdiscipline of both public health and geography, that focuses on geographic aspects of health and disease. The field deals with human-environment interactions and their influence on human health. This course offers historical context to geography and health and covers three major approaches to health/medical geographic scholarship: ecological approaches, which systematically analyzes relationships between people and their environments; social approaches, including political economy and socio-behavioral approaches; and spatial approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours
(Slashed with GEOG 42053 and GEOG 52053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 42064 and GEOG 52064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours
(Slashed with GEOG 42070 and GEOG 52070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for maximum of 10 times)(Slashed with GEOG 42195 and GEOG 52195) Topics vary per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 74010 GEOGRAPHIES OF GLOBAL DEVELOPMENT 3 Credit Hours
(Slashed with GEOG 44010 and GEOG 54010) This course examines the political economy of development. More narrowly, we examine the historical geography of agricultural transformations and capitalist development. We draw from case studies from different regions to interpret differential patterns of development and political-economic change. Emphasis is placed on the creation, structure, and operation of the capitalist agro-food system and its impact on small-scale farmers and landless rural workers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 75085 URBAN TRANSPORTATION 3 Credit Hours
(Slashed with GEOG 45085 and GEOG 55085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 76060 FOOD SECURITY AND SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 46060 and GEOG 56060) This course explores the concept of food security from the standpoint of agrarian change, food regimes, agroecology, and development. In the process, we examine the various frameworks that have grounded academic and popular understandings of famine and food security, including Malthusian, environmental determinism, Food Availability Decline (FAD), entitlements, and historical materialism.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 76070 URBAN AND REGIONAL PLANNING 3 Credit Hours
(Slashed with GEOG 46070 and GEOG 56070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 76080 URBAN SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 46080 and GEOG 56080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 76081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 46081 and GEOG 56081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 77091 SEMINAR IN REGIONAL GEOGRAPHY 3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 67091)Variable content seminar on one of the major regions of world.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 79004 QUANTITATIVE METHODS IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 69004) Explores the methods and applications of some of the most common statistics found in geographic work. It explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association, correlation and regression analysis, and principal components analysis. Theory and execution of these methods are equally emphasized, and applications to geographic problems are examined within each theme.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours
(Slashed with GEOG 49070 and GEOG 59070) Introduction to theories and methods for geographic data processing, including data capture and input, data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

GEOG 79072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours
(Slashed with GEOG 49072 and GEOG 59072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why “health” varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79073 ENVIRONMENTAL DATA ANALYSIS IN R 3 Credit Hours
(Slashed with GEOG 49073 and GEOG 49073) The course aims to teach students basic concepts, skills, and tools for working with data in R. R is an open-source (free!) programming language for statistical computing and graphics that statisticians widely use, scientists, data miners, and geographers. The number of R users grows exponentially each year, contributing to a massive online community and countless free tutorials. This is a hands-on course designed for students with no programming experience. However, this course does not teach statistics: understanding of basic statistics and common statistical tests is assumed and prior coursework in statistics is encouraged. With the knowledge gained in this course, students will be ready to undertake their own data analysis in R and increase their efficiency through reproducible workflows.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours
(Slashed with GEOG 49075 and GEOG 59075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.
Prerequisite: GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79076 SPATIAL PROGRAMMING 3 Credit Hours
(Slashed with GEOG 49076 and GEOG 59076) Examination of the design, development and use of geographic information technologies with computer programming to model process and visualize geographic phenomena.
Prerequisite: GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours
(Slashed with GEOG 49078 and GEOG 59078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.
Prerequisite: GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 49080 and GEOG 59080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.
Prerequisite: GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79082 CYBERGIS 3 Credit Hours
(Slashed with GEOG 69082) Explores cyberinfrastructure-enabled geographic information systems (i.e. cyberGIS) and related technologies including a broad introduction to the use, design, and development of cyberinfrastructure, spatial data infrastructures, geographic information services, and web-enabled mapping technologies. Situates cyberGIS in the broader context of geographic information science focusing on the how synthesizing computational thinking and spatial thinking influence methodological approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 49085 and GEOG 59085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79162 CARTOGRAPHY 3 Credit Hours
(Slashed with GEOG 49162 and GEOG 59162) Study of the design and production of dynamic, interactive, multimedia web-based mapping. Data acquisition and processing, symbolization, composition, text and color utilization.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours
(Repeatable for maximum 10 times)(Slashed with GEOG 49195 and GEOG 59195). Topics vary per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 79230 REMOTE SENSING 3 Credit Hours
(Cross-listed with ESCI 72030)(Slashed with ESCI 42030, ESCI 52030, GEOG 49230, GEOG 59230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: GEOG 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 80998 RESEARCH I 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

GEOG 81091 RESEARCH IN PHYSICAL RESOURCES 2,3 Credit Hours
(Repeatable for credit)Research on basic processes related to formation of physical environment. Investigation of significant variables in resource utilization relevant to regional planning and development.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP

GEOG 81998 RESEARCH II 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 89092 GRADUATE FIELD CAMP 5 Credit Hours
(Repeatable for credit) Field research problems involving individual investigation of specific urban or rural region.
Prerequisite: Doctoral standing.
Schedule Type: Field Experience
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 89098 RESEARCH IN CARTOGRAPHY 1-3 Credit Hours
(Repeatable for credit)Investigations into function of map as medium of scientific expression; problem of map design in relation to human perception of graphically expressed spatial information.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Department of History

History (HIST)

HIST 11050 WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM) 3 Credit Hours
World history from early human societies through the mid-17th century.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, TAG History, Transfer Module Humanities

HIST 11051 WORLD HISTORY: MODERN (DIVG) (KHUM) 3 Credit Hours
World history from mid-17th century to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, TAG History, Transfer Module Humanities

HIST 12070 EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM) 3 Credit Hours
A survey of United States history through 1877.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Humanities, TAG History, Transfer Module Humanities

HIST 12071 MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM) 3 Credit Hours
A survey of United States history since 1877.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Humanities, TAG History, Transfer Module Humanities

HIST 30010 NEW DEAL AMERICA AND BEYOND 3 Credit Hours
Examines the impact and meaning of the Depression era, suggesting that the crisis helped to usher in a new way of imagining American society. Beginning with an overview of modernism, modernity and the modern age, the course explores how the New Deal fits into these theories, how specific programs operated under their ideals, and finally, how American society adapted and accepted this 'modern' vision.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30020 THE SIXTIES IN AMERICA 3 Credit Hours
The era of the 1960s outlined the debates and patterns of American history in the latter part of the twentieth century and continues to resonate in our contemporary world. This course examines the seminal events, persons and developments, including JFK's New Frontiers policy; Martin Luther King Jr. and Malcolm X; the March on Washington; Johnson's Great Society; the Vietnam War; the New Left; the counterculture; country music; the rise of modern conservatism; Nixon; Watergate; and the oil crisis, to get a better understanding of the meaning and significance of this crucial era to the history of the United States and the world.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30030 IDEAS IN ACTION: U.S. INTELLECTUAL HISTORY (DIVD) 3 Credit Hours
The idea forms the root of what is intellectual history. The unfolding and discussion of ideas and their application within society outline their path of study. Once the preserve of the thoughts of a select few white men, the field has broadened significantly with the cultural turn in the latter years of the twentieth century to include a more diverse number of voices and issues. Blending these ideas into practice allows us to better witness how history operates both within and outside the confines of the linear structure of time and place.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HIST 30040 NINETEENTH-CENTURY EUROPE 3 Credit Hours
Focus on industrialization and social transformation, political upheavals, intellectual thought, nationalism and foreign policy in Great Britain, France, Prussia and Austria.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30049 MODERN EUROPEAN HISTORY, 1914-1945 3 Credit Hours
Special attention paid to the two world wars, Bolshevik Revolution, rise of fascism and fate of European Jewry.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30050 MODERN EUROPEAN HISTORY: 1945-PRESENT 3 Credit Hours
This course examines Europe as it emerged from the wreckage of the Second World War and confronted the challenges of rapid reindustrialization then deindustrialization, decolonization and the emergence of the Global South, cultural upheaval and political transformation and a globe-encompassing Cold War. Central to the course are two existential questions prompted by this history: (1) what exactly is Europe and, (2) what role should it and its constituent societies play in the postwar world?
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30060 HISTORY OF GERMANY, 1871-PRESENT 3 Credit Hours
Focuses on the impact of industrialization, dilemma of the German left, rise of Nazism and emergence of two German states after 1945.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30070 THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945 3 Credit Hours
Analysis of the political, economic, social and intellectual factors leading to systematic destruction of European Jewry during World War II.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30111 JEFFERSON-JACKSON ERA, 1789-1848 3 Credit Hours
Study of the founding and development of the American nation, especially the periods of Jefferson and Jackson.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30112 THE UNITED STATES: THE WESTWARD MOVEMENT 3 Credit Hours
The process of settlement from its beginnings; consequences for American history.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31000 INTRODUCTION TO PUBLIC HISTORY 3 Credit Hours
A survey of public history including archives, editing, museums and historical agency administration; historic preservation and related skill areas (e.g. artifact analysis, oral history).
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31020 POLIS TO METROPOLIS: HISTORY OF THE EUROPEAN CITY 3 Credit Hours
This course examines urban identities in Europe from antiquity to the present including Greek and Roman cities; medieval cities, city leagues and city law; early modern planned communities, court residences, and commercial metropolises; eighteenth- and nineteenth-century resort towns, nineteenth-century capital cities and industrial cities; the devastation of the World Wars and post-war reconstruction. The course will examine cities as "windows" into the societies they serve; the fortunes and misfortunes of cities will be treated as mirrors of regional economic, political, and social trends. The thematic focus of the course will be on the political "message" encoded in architecture, design and layout and the course will interpret the outward face of cities as an expression of political identity, power, and even civic virtù. This course will be offered primarily at the Stark campus.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31022 THE GREAT POWERS IN WAR AND PEACE, 1792-1914 3 Credit Hours
This course focuses on the nineteenth-century origins of present-day international problems - from risks of unilateralism to the debt crisis of developing countries to the nationalist tendencies in the Balkans to the question of whether a united Germany is compatible with the European equilibrium. Second, this course looks at how nineteenth-century statecraft dealt with issues that still clutter the headlines today such as peacemaking and peacekeeping, the erosion of treaties, alliances among unequal partners, and crisis management. Third, the course will point to the importance of global linkages (i.e. how events in one area of the world were linked to developments in another and how the Balkans, the Middle East, Africa, and East Asia became flashpoints in the foreign relations of Great Powers. This course will be offered primarily at the Stark campus.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31023 THE GREAT POWERS IN WAR AND PEACE, 1914-1945 3 Credit Hours
This course examines the foreign policies of the great powers during and between the world wars, the domestic underpinnings of these policies and how these policies affected civilian populations. While the course examines a broad range of nations and actors, particular emphasis is placed on the emergence of Soviet Russia, Fascist Italy and Nazi Germany, and the question of whether their foreign policies constituted a radical break from or, instead, were rooted in earlier Russian, Italian and German policies.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31024 WORLD WAR II 3 Credit Hours
Survey of one of the greatest political and military events in history, focusing especially on causes, major personalities and chief political, ideological, moral, scientific and diplomatic aspects.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31025 ITALY FROM ROME TO THE RENAISSANCE 3 Credit Hours
A survey of the history of the Italian peninsula from the Roman Empire until the Renaissance, with particular emphasis on turning-point moments in politics, art, literature, theology and philosophy between the fall of Rome and the Renaissance. Throughout the course, developments on the Italian peninsula will be situated within the broader European context.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31026 ITALIAN HISTORY FROM THE RENAISSANCE TO THE ENLIGHTENMENT 3 Credit Hours
This survey course examines key developments in the history of Early Modern Europe until the Enlightenment through the lens of the Italian peninsula's central role in European exploration, thought and religion.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31031 REFORMATIONS IN EARLY MODERN CHRISTIANITY 3 Credit Hours
This course explores the origins, development and consequences of the religious reformations in early modern Europe from the late fifteenth century to the early seventeenth century, drawing on the approaches of social, cultural and intellectual history. It explores the significance of the rise of various Protestant confessions as well as the reform of the Catholic church from the perspectives of popular belief and formal doctrines. A survey of the beliefs of the major Christian confessions - such as Lutheranism, Calvinism and Catholicism - is complemented by an exploration of the intertwining of politics and religion and the social and cultural effects of religious reform.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31032 THE GLOBAL CRISIS OF THE SEVENTEENTH CENTURY 3 Credit Hours
The seventeenth century was a period of crisis especially in Europe, but around the world due to climate change, encounters between peoples from different parts of the globe, the integration of economies, religious tensions and almost constant warfare. This course explores the roots of these crises as well as their consequences. It examines environmental changes; religious tensions; and some of the shifting social, political and economic structures of seventeenth-century Europe. It compares what happened during this period in Europe to other places around the globe, and investigates the interactions between peoples from Europe, Asia, Africa and the Americas.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31033 WITCHES AND EUROPEAN HISTORY, 1500-1800 3 Credit Hours
This course explores fifteenth- through seventeenth-century European witch-hunts and their decline in the eighteenth century through lecture and class discussions of both primary and secondary sources. The course has four parts. The first investigates the development of notions of diabolical witchcraft from the ancient world, while Part two examines the intellectual, gender, religious, social and legal backgrounds that helped cause witch-hunts The final sections explore the dynamics of witchcraft trials. The final section explores the decline of witchcraft.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31034 MURDER MYSTERY AND MAYHEM: THE MEDICI DYNASTY IN FLORENCE 3 Credit Hours
This course explores the dynastic control that the infamous Medici family exerted over every aspect of Florentine life. It explores their rise to power, from the revolutionary and cunning tactics of Cosimo de' Medici, to the rich vision of Lorenzo "Il Magnifico," to Anna Maria Luisa's efforts to establish the Medici legacy forever in the city of Florence. Through an examination of this influential family, their methods of persuasion and power are revealed, which extended far beyond the boundaries of Florence to the papacy and into all corners of Europe.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31035 THE GLOBAL COLD WAR 3 Credit Hours
Explores the Cold War through a global lens. Includes political, diplomatic, cultural and social perspectives.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31036 THE TWENTIETH CENTURY WORLD 3 Credit Hours
This course explores the key political, cultural, social, and economic events that defined and shaped the twentieth century. Topics to be addressed will include imperialism, revolution and war, nationalism and decolonization, and globalization.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31040 AMERICAN HISTORY THROUGH POPULAR MUSIC 3 Credit Hours
Allows students to develop an understanding of the interconnection between the rise of popular music in the period after 1865 to the social, political, and technological changes that this period witnessed and how this helps to understand the meaning and significance of cultural identity in modern American history.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31041 SPORT HISTORY IN THE UNITED STATES 3 Credit Hours
This course will examine and interpret American sports from the colonial era to the present with particular attention to the role of sports in American life and how changes in American life have affected sports. The course also offers an exploration of American social and cultural history with an emphasis on issues such as race, class, gender, foreign policy, nationalism, religion, economics, industrialization, immigration and urbanization as they relate to sports. It is not a course of sports trivia. The main goal of the course is to use sports as a way to better understand American history and American culture. This course will be offered primarily at the Stark campus.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31045 A HISTORY OF CRIME IN THE UNITED STATES 3 Credit Hours
This course will explore the history of "living outside the law" in the nineteenth and twentieth centuries. We will read biographical and autobiographical treatments of and monographs about men and women who committed crimes in these centuries and use them as a lens through which to view the changing experiences, constraints, and self-understandings of people who committed crimes in United States history. Some sections of this course may be offered as part of the Inside Out Program in which the course will take place in a nearby prison or jail and will include students who are incarcerated.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31053 MODERN EUROPE, 1815 TO PRESENT 3 Credit Hours
Covers the political, social, and cultural history of Europe from the peace at the end of the Napoleonic wars to the present.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31055 POLITICS, CULTURE AND SOCIETY OF 20TH-CENTURY EUROPE 3 Credit Hours
This course explores the political, social, cultural and other factors that have marked the path of European history in the last century, from the origins of World War I to the end of the Cold War. The course explores not only the origins and consequences of warfare, but also the ways in which everyday life was transformed in this turbulent era. This course covers the era of "Great Wars," the "economic miracle" after the war, the challenges of the Cold War, generational rebellion, and the formation of the European Union with special attention to the political, social and cultural transformations associated with these developments. The thematic anchors of the first half of the course are "Total War" and "Rebellion against Positivism," while the thematic anchors of the second half of the course are "Rebirth" and "The Two Europes."
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31056 EUROPE IN THE RENAISSANCE 3 Credit Hours
Analysis of the various factors leading Europe from a rural, feudal, ecclesiastical society to one characterized by urbanism, trade, secularism and the state.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31057 THE FRENCH REVOLUTION AND NAPOLEON 3 Credit Hours
Analysis of the causes of revolution in France, political, ideological and social conflict in the construction of French democracy expansion of the revolution outside of France.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31061 HISTORY OF OHIO 3 Credit Hours
This course explores key events and institutions shaping the geographic region that became Ohio from prehistory to present day with an emphasis is on social, cultural, political, and the economic history of the region. Topics include the historical significance of Ohio's geography, the role and contributions of Native American peoples, the transition to statehood, and modern economic and political developments.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31071 AMERICA AND THE WORLD THROUGH 1898 3 Credit Hours
Explores the foundational period of the American interaction with the outside world. Includes consideration of the roots and principles of American international policy, continental consolidation and American incursions in the Western Hemisphere.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31072 AMERICA AND THE WORLD: 1898-1945 3 Credit Hours
Explores the evolving American world role from the Spanish-American War through World War II. Includes consideration of the expanding U.S. interest in Latin America, Asia and elsewhere, as well as the liberal international vision that impelled such interest.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31073 AMERICA AND THE WORLD SINCE 1945 3 Credit Hours
Explores the rise and fall of American global hegemony since World War II. Includes consideration of the Cold War, decolonization, détente and the post-Cold War era.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31074 HISTORY OF ESPIONAGE: FROM JOSHUA TO EDWARD SNOWDEN 3 Credit Hours
This course traces the history of intelligence gathering from the ancient world through the 21st century. The study of spy-networks provides students with an understanding of emerging intelligence systems, including both examples of espionage and counter-intelligence. The course assesses the cultural and political impact of intelligence gathering on society at large and discusses ethical issues such as the balance between privacy and security. While most of the focus is on the United States, the lectures and discussions will also cover Britain, Germany, Japan, China, Israel, and Russia, with considerable attention to World Wars I and II, and the Cold War.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31075 HISTORY OF WOMEN IN THE UNITED STATES 3 Credit Hours
(Cross-listed with WMST 30100) An exploration of the political, economic, social, intellectual and cultural forces that have shaped women's lives, women's thought, perceptions of womanhood and feminism, from 1607 to the present in what is now the United States.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31077 HISTORY OF SEXUALITY IN THE UNITED STATES 3 Credit Hours
This course explores how people living in the United States learned about sex. Together, Americans in all time periods have developed sexual cultures and norms, accommodated themselves to, ignored, creatively interpreted or defied, or changed these cultures and norms over time. We will focus on how sexual cultures and norms of were taught and enforced, and how different types of institutions and professionals (religious leaders, mental health professionals, law enforcement officers, journalists and popular cultural figures), played roles in this process.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31080 AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM 3 Credit Hours
Survey of African American history from the colonial period to 1877. Course provides a general knowledge of the social, political and cultural history of African Americans from colonial times to the end of the Reconstruction.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31082 HISTORY OF THE CIVIL RIGHTS AND BLACK POWER MOVEMENTS IN THE UNITED STATES 3 Credit Hours
This course examines Civil Rights and Black Power movements in the twentieth century and addresses a series of questions still relevant today: How do social movements begin? What leadership styles and protest tactics and strategies work? How do social movements evolve over time? This course also explores the history of the Civil Rights and Black Power movements at Kent State University. Working in the University Archives, students conduct research in original source materials and develop a collaborative digital history project based on their research.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31083 THE HISTORY OF WHITENESS IN THE UNITED STATES 3 Credit Hours
This course will survey the full sweep of the history of the United States to interrogate what exactly "whiteness" was and is and what it has meant throughout the American past. To do so, this course will examine closely a series of crucial turning points in the history of whiteness in the United States: 1) the colonial era and the creation of "whiteness" as an identity; and 2) the evolution of "whiteness" during the long nineteenth and twentieth centuries.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31084 THE INVENTION OF AMERICA: 1492-1714 (DIVD) 3 Credit Hours
Students explore the coming together of European, Native American and African peoples in the Western Hemisphere from 1492 to 1714.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HIST 31085 ALEXANDER HAMILTON'S WORLD: 18TH-CENTURY AMERICA (DIVD) 3 Credit Hours
Students explore 18th-century America, including the American Revolution and its aftermath, with special reference to the decisions and actions of Alexander Hamilton. The course focuses on how 13 disparate English colonies came together to form a new nation in North America during the 18th century. Students study not only the political narrative of this process, but also how the transformation affected society — men and women; rich and poor; and free, slave and American Indian. The life of Alexander Hamilton provides insight into all these topics.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HIST 31087 SECTIONAL CONFLICT AND CIVIL WAR 3 Credit Hours
Differences within the United States, including the controversy over slavery; the Civil War in all its aspects.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31100 RECONSTRUCTION AND THE LATER SOUTH 3 Credit Hours
Controversy during and after the Civil War as to racial and sectional relationships; the post- Reconstruction compromises and their undoing.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31101 WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865 3 Credit Hours
An examination of the impact of conflict and the military upon the society, culture, economy and diplomacy of the United States. Topics include colonial Indian wars, the Revolutionary War, the War of 1812, the Mexican-American War and the Civil War.
Prerequisite: HIST 12070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31102 WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT 3 Credit Hours
An examination of the impact of conflict and the military on the society, culture, economy and diplomacy of the United States. Topics include the frontier Army, the Spanish-American War and empire in the Pacific, the two world wars, the Cold War and the War on Terror.
Prerequisite: HIST 12071.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31104 MIGRATIONS TO AMERICA, 1607 TO PRESENT (DIVD) 3 Credit Hours
Examines the coming together of people from five continents to the United States and provides an overview of shifting patterns of migration both coerced and free to the United States. Starting in the colonial era, when slaves and servants typified the migration to America, this course then follows the migrations of pre-industrial, industrial and post-industrial immigrants; their reception by American institutions and natives; and their efforts to construct communities in a new country.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HIST 31106 PROGRESSIVE AMERICA - REFORMERS, CRUSADERS AND RADICALS: AMERICA, 1893-1929 3 Credit Hours
Major political, economic, social, cultural and diplomatic events from the crisis of the 1890s through the first World War.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31107 NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945 3 Credit Hours
Major political, economic, social, cultural and diplomatic events from the new era of the 1920s through the second World War.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31112 CHINESE CIVILIZATION 3 Credit Hours
General survey of evolution of Chinese civilization from the Bronze Age to the rise of communism.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31113 HISTORY OF JAPAN 3 Credit Hours
General survey of the development of Japan from a loose confederation of clans to a modern industrial state.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31114 TRADITION AND REVOLUTION IN SOUTHEAST ASIA (DIVG) 3 Credit Hours
Focusing on Southeast Asia, this course is organized chronologically around three broad periods: traditional states and societies (to 1800); colonial transformations and indigenous responses (1800-1945); and the emergence of modern nations (since 1945). Within these broad time frames, the course explores several themes, including the origins of indigenous states; the impact of colonial domination; responses to colonial rule; and the nature of post-colonial societies and political systems. Given the size and diversity of the region, the course concentrates on four nation-states: Burma, Thailand, the Philippines and Indonesia.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

HIST 31118 VIETNAM WAR 3 Credit Hours
Study of the causes, evolution and effects of warfare in Vietnam from 1946 to 1975 with special attention to colonialism, nationalism, communism and American intervention.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31124 HIGHLIFE HISTORIES: MODERN AFRICAN URBAN EXPERIENCE 3 Credit Hours
The term "high-life" is most often associated with a musical style originating in Ghana and Sierra Leone in the 1920s and popular to the present day. The music mixed the sounds of American, European, and Caribbean influences within African musical traditions. Just like the music, African urban life has been a mixture of Western notions of town planning, architecture, and politics with African cultural and interpersonal traditions. The history of the African city offers a useful lens into the complicated and creative mixture of African and global sources. This course will focus on this mixing over the 20th century, concentrating on cities such as Harare, Zimbabwe; Accra, Ghana; Lagos, Nigeria; and Nairobi, Kenya.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31126 HISTORY OF THE MIDDLE EAST 3 Credit Hours
A survey of Islamic civilization in Middle Eastern context from the earliest days to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31130 HISTORY OF PRE-COLONIAL AFRICA TO 1880 3 Credit Hours
This course provides a survey of cultural, political, social and economic history of Africa from antiquity to the onset of European colonialism in the 1880s. The history of the Atlantic, Saharan, and East African slave trade will be investigated, as will the contributions of African cultures to world history.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31131 HISTORY OF COLONIAL AFRICA, 1880-1994 3 Credit Hours
This course provides a survey of African experiences with colonialism from the period of formal colonialism to the period of decolonization and the end of settler colonialism in Rhodesia and South Africa. The course explores regional experiences across sub-Saharan Africa and North Africa. The course explores questions of resistance and collaboration and the foundations of post-colonial states in the colonial experience. Gender, class, ethnicity and generational differences are explored at the center of this historical survey.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31132 HISTORY OF POST-COLONIAL AFRICA 3 Credit Hours
This course seeks to challenge students to deconstruct the specific causes, meanings and consequences of political violence in 20th- and 21st-century Africa, in addition to the impact such violence has had on African democratic traditions. Students explore recent and current categories of political violence, including state violence against ethnic and regional minorities. Students also examine the positive contributions of African culture and daily life, with attention to alternative futures for Africans and others based on African experience.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31140 MODERN LATIN AMERICA (DIVG) 3 Credit Hours
This course examines modern Latin America as an historical, geographical, cultural, political and economic zone focusing on the nineteenth and twentieth centuries. It explores the similarities and differences within Latin America as well as between Latin America and other parts of the world. Topics included the impact of colonization and the experience of Indigenous populations, the causes and consequences of political and social revolutions, the success and failures of different political formations and the struggles to sustain economic development.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

HIST 31141 EARLY MODERN LATIN AMERICA (C. 1450-1820) (DIVG) 3 Credit Hours
This course examines the history of Latin America from the late fifteenth to the early nineteenth centuries. It focuses on the political, social, cultural, and economic interactions between Native Americans, Africans and Europeans from the early decades of Iberian exploration and conquest to the independence movements of the early nineteenth century. While attending to the systems of social, racial and gender hierarchy and discrimination implemented by Europeans, the course also emphasizes the significant ways in which Native Americans and Africans resisted and shaped colonization.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

HIST 31543 THE SCIENTIFIC REVOLUTION 3 Credit Hours
A survey of the major social, cultural, and historical developments in the sciences and medicine in Europe from 1500 to 1750.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31550 MEDICINE IN THE MODERN WORLD SINCE 1500 3 Credit Hours
An introduction to the main social, cultural, and intellectual developments in the history of medicine from the Renaissance to the twentieth century using an approach to the history of medicine which emphasizes the interactions between ideas, institutions, and individuals.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 32050 HISTORICAL RESEARCH METHODS 3 Credit Hours
Introduction to the study and practice of historical writing including historical methods, historiography, primary and secondary source research, critical analysis or documentary sources, historical reasoning and the preparation of written reports. Emphasis on developing effective communication skills and research procedures, record-keeping, citation and bibliography.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 37001 FLORENCE THE MYTH OF A CITY 3 Credit Hours
Florence is considered the birthplace of the Renaissance and the cradle of modern Western Civilization because, among the many Italian city-states, it experienced a cultural development that had no precedent in European history. Florentine republicanism is a political paradigm through which we, still today, trace the origins of the values of democracy, freedom, rational thought, individualism, the scientific method and the capacity for critical reflection. This course covers and analyzes different historical eras of Florence from its founding, during the Roman era, up until today. Special attention is given to periods of intensive development in Florence: the re-birth of the Middle Ages, the splendor of the Renaissance, and the crucial role of the Risorgimento, when the city was the capital of the new Kingdom of Italy (1865-1871) and became a center of culture and modern civilization. This course will be offered only in Florence.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 38495 SPECIAL TOPICS IN AREA STUDIES 3 Credit Hours
Special course with a primary focus on the history of a particular place (state, nation, region). Topic as well as chronological and geographical focus will vary by term and by instructor. Exact course titles and descriptions will be inserted into the Schedule of Classes. Repeatable for credit.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 38595 SPECIAL TOPICS IN THEMATIC STUDIES 3 Credit Hours
Special course with a primary focus on the history of a specific topic or theme. Chronological and geographical focus as well as topic will vary by term and by instructor. Exact course titles and descriptions will be inserted into the Schedule of Classes. Repeatable for credit.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 40092 INTERNSHIP IN HISTORY (ELR) 3 Credit Hours
(Repeatable for credit)Student internship at an institution related to the history major (e.g.,historical society, museum, archives, historic preservation organization).
Prerequisite: Junior standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

HIST 40093 WORKSHOP IN HISTORY 1-6 Credit Hours
(Repeatable for credit) (Cross-listed with HIST 50093) Special workshop in history. Topic will vary according to professor.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

HIST 41003 HISTORY OF ANCIENT GREECE 3 Credit Hours
(Slashed with HIST 51003) (Crosslisted with CLAS 41005 and CLAS 51005) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 41006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with CLAS 41006 and CLAS 51006) (Slashed with HIST 51006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 41034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours
(Slashed with HIST 51034 an HIST 71034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 41060 COMPARATIVE FASCISM 3 Credit Hours
(Slashed with HIST 51060 and HIST 71060) Examination of the theories and practices of fascist movements and regimes in 20th-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 49091 SENIOR SEMINAR IN HISTORY (ELR) (WIC) 3 Credit Hours
(Repeatable for credit)History majors complete a significant work of original research based on primary sources. Topics vary by instructor. Enrollment limited to senior history majors.
Prerequisite: HIST 32050 with minimum C grade; and history major; and senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

HIST 49095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours
(Repeatable for a maximum of 18 credit hours) (Slashed with HIST 59095 and HIST 79095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of classes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 49195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours
(Repeatable for maximum 18 credit hours) (Slashed with HIST 59195 and HIST 79195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 49196 INDIVIDUAL INVESTIGATION 2,3 Credit Hours
(Repeatable for credit)
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

HIST 49199 SENIOR HONORS PROJECT (ELR) 3-6 Credit Hours
(Repeatable for credit) Thesis or other independent study or creative project. Required of students seeking to graduate with honors in history.
Prerequisite: Permission (see HONR 40099).
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 3-6 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

HIST 49295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 59295 and HIST 79295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 50093 WORKSHOP IN HISTORY 1-6 Credit Hours
(Slashed with HIST 40093)(Repeatable for credit) Special workshop in history. Topic will vary according to professor.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

HIST 51003 HISTORY OF ANCIENT GREECE 3 Credit Hours
(Slashed with HIST 41003) (Cross-listed with CLAS 41005 and CLAS 51005) The course is a survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 51005 TEACHING WORLD HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 71005) To prepare graduate students to teach world history at the university level. Special focus on integrating non-Western sources and points of view into the world history curriculum, preparation of world history syllabus and justification of selected readings and topics, mastery of on-line and in-class technologies to deliver world history materials.
Prerequisite: Graduate standing in history.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 51006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with CLAS 41006 and CLAS 51006) (Slashed with HIST 41006 and HIST 71006) A survey of Roman history from its beginnings to the Fall of the Roman Empire.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 51034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours
(Slashed with HIST 41034 and HIST 71034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 51060 COMPARATIVE FASCISM 3 Credit Hours
(Slashed with HIST 41060 and HIST 71060) Examination of the theories and practices of fascist movements and regimes in 20th-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 59095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49095 and HIST 59095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Repeatable.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 59195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49195 and HIST 79195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 59295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49295 and HIST 79295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 60092 PUBLIC HISTORY INTERNSHIP 3-6 Credit Hours
(Repeatable for credit) (Slashed with HIST 70092) Students serve an internship at an institution related to their emphasis in public history (e.g.,historical society, museum, archives, historical preservation organization).
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory

HIST 61002 HISTORIOGRAPHY 3 Credit Hours
Development of historical thinking. Students will read excerpts of famous historians and prepare papers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 61070 WRITING SEMINAR IN HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 81070) Students will spend the semester conceptualizing, researching and writing an article-length piece of original historical scholarship. Basic topics to be addressed include prospectus drafting, source identification, historiography, research methods, scholarly writing and revision, oral presentation and professional critiquing. All students will be expected to supplement the guidance they receive from the seminar instructor with regular consultations with their departmental advisors.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62000 READINGS IN EARLY MODERN HISTORY 3 Credit Hours
(Slashed with HIST 82000) This course offers an overview of the major themes and problems in the historical scholarship on early modern Europe and the early modern world. It will also explore different methodological and theoretical approaches drawing from foundational and recent scholarship in intellectual history, cultural history, social history, gender history and global history. Topics may include the Renaissance, Europe's Reformations, the Scientific Revolution and the Enlightenment, the French Revolution, court culture and the rise of absolutism, popular culture and everyday life, Europe's colonial and commercial expansion, the rise of capitalism, urbanization and the emergence of industrialization.
Prerequisite: Graduate Standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62070 AMERICAN HISTORY FROM PRECONTACT NATIVE AMERICA THROUGH THE CIVIL WAR 3 Credit Hours
(Slashed with HIST 82070) This reading colloquium surveys the major aspects of American history from the arrival of Europeans in North America through the colonial period of American history and up to the Civil War and Reconstruction. Students are introduced to both historical content as well as the major historiographical currents in this segment of U.S. history. The aim of the course is to prepare students for comprehensive exams as well as to teach the first half of the U.S. survey course.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62071 AMERICAN HISTORY FROM THE CIVIL WAR TO THE PRESENT 3 Credit Hours
(Slashed with HIST 82071) This reading colloquium surveys major aspects of American history since the Civil War within the historiographical traditions through which they have been understood. The aim of the course is to prepare students for comprehensive exams as well as to teach the second half of the U.S. survey course.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62097 PUBLIC HISTORY COLLOQUIUM 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 72097) Assigned readings, discussions and papers focus on particular emphases and skill areas in public history.
Prerequisite: Graduate standing.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62285 AMERICAN INTELLECTUAL AND CULTURAL HISTORY SINCE 1877 3 Credit Hours
(Slashed with HIST 82285) This colloquium will explore American Intellectual and Cultural History after 1877 by focusing on modernity. Our readings will discuss modernity's evolution from its late nineteenth-century roots to its dismantlement in the current epoch. We will hear, see, and read about this idea and how it is applied to various manifestations within our society, from material culture to advertising, music, and film.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62300 MAJOR READINGS IN THE IMMIGRATION AND MIGRATION HISTORY OF THE UNITED STATES 3 Credit Hours
(Slashed with HIST 82300) This course focuses on immigration, or more accurately, "migration," as an important aspect of the history of the United States. It begins with an introduction to the interdisciplinary and transnational perspectives that define the study of global migration before focusing on the journeys taken by European, Latin American, Asian, and African immigrants to the United States, the often transnational lives led by these immigrants, and the communities they built within the United States. Alongside these concerns, the course will also explore how American society has historically received and reacted to immigrants.
Prerequisite: Graduate Standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62325 MAJOR READINGS IN ASIAN AMERICAN HISTORY 3 Credit Hours
(Slashed with HIST 82325) This course provides a foundational understanding of the history of Asian Americans in the United States, with special emphasis placed upon those groups whose roots in the U.S. go back to the nineteenth century. Key subjects under scrutiny in this course include emigration/immigration; the creation and continuation of ethnic ghettoes; segmented and international labor markets; diasporic and domestic political movements; racial stereotyping; global wars; and cultural changes.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62326 BETWEEN PLOWS AND SWORDS: U.S.-CHINA CULTURAL RELATIONS SINCE THE LATE 1700S 3 Credit Hours
(Slashed with HIST 82326) This seminar explores the beginning, evolution, transformation, and impact of U.S.-China cultural relations since the late 1700s. The United States and China have built a complex and dynamic relationship in the past two and a half centuries. Among the dimensions of that relationship, cultural relations were the oldest, deepest, and most consequential. While non-governmental organizations and individual Americans as well as Chinese played a crucial role in initiating and expanding cultural contacts between the two nations, government intervention and control were intensified over time, turning cultural relations into an instrument to achieve domestic as well as foreign policies goals. How did cultural contacts between the two nations begin? Who were the major players in the making of the Sino-American cultural relations? What were their major goals? How did the U.S. and the Chinese governments get involved in bilateral cultural contact and exchange? What impact did the expansion of cultural ties have on both societies? How were the U.S.-China cultural relations changed during the Cold War? What impact did the Cold War transformation have on cultural relations during and after rapprochement? By addressing these key questions, this course gives students a deeper understanding of the complexity and dynamics of U.S.- China relations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62345 IMAGES AND IDENTITIES IN US FOREIGN RELATIONS 3 Credit Hours
This graduate-level reading colloquium will explore the construction of cultural images and national identities in US foreign relations. Course readings and discussions will deal not only with the ways that Americans have “constructed” other nations but also with how other nations have “constructed” the United States. Themes to be explored include the role of intangibles such as culture in the making of policy; the accuracy or inaccuracy of cultural constructs; and the permanency or malleability of cultural ideas.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62350 REVOLUTION AND REFORM: THE DEPRESSION ERA AND THE TRANSFORMATION OF AMERICAN SOCIETY 3 Credit Hours
(Slashed with HIST 82350) The Depression Era was a transformative time in the history of the U.S. state, but also of the U.S. people. This class engages with key readings in the historical discipline that approach this era with particular sensitivity to how regular Americans experienced, responded to, and shaped this crucial period.
Prerequisite: Graduate Standing.
Schedule Type: Seminar
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

HIST 62360 MARGINALITY AND POWER: HISTORY FROM BELOW 3 Credit Hours
(Slashed with HIST 82360) Who makes history? Every historian must grapple with this question and every generation of modern historians has answered this question in a different way. One response to this question is to write "history from below" and focus on the ways in which common people and historically marginalized groups have contributed to historical changes and developments in their societies and cultures. Throughout this course, we review some of the classic scholarship and new works that engage in the task of writing "history from below." Our goal is to understand how "history from below" has developed over the last few decades and to engage with the important questions about representation and agency that this approach to history raises. A variety of assignments serve to further our exploration of the topic and help us gain some practice not just in analyzing "histories from below," but also doing "history from below."
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62385 HIGH-LIFE HISTORY: AFRICAN URBAN CULTURAL HISTORIES 3 Credit Hours
(Slashed with HIST 82385) This course explores the African city. Whether they live in the metropolises of Johannesburg, Tauba, Nairobi, or Lagos, urban Africans have built diverse landscapes and lives. This class examines those everyday lives, in a cross-cultural exploration of the history of African urban spaces.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62400 THE LENS OF WAR: AMERICAN HISTORY THROUGH THE STUDY OF THE MILITARY 3 Credit Hours
(Slashed with HIST 82400) A survey of the impact conflict and the peacetime military have had on both the history and historiography of colonial America and the United States. Thematic points of emphasis include, but are not limited to civil-military relations, race, national identity, memory, gender, western expansion, American economic development, the growth of the federal government, Cold War culture, and citizenship.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62405 NATIVE WESTS 3 Credit Hours
(Slashed with HIST 82405) This course introduces students to the major analytical frameworks historians use to understand the diverse and complicated encounters between Euro-Americans and Native Americans in what is now the United States from first contact in the sixteenth century through the forced integration of Native nations into the United States after the Civil War. These encounters will be rooted in what was called the history of the "frontier," but is now more commonly described as "western" history or the study of "borderlands." Readings will emphasize sociocultural diversity among Indian societies, Indian agency, and Euro-American policy frameworks for Indian relations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62415 RELIGION AND VIOLENCE IN THE MODERN WEST 3 Credit Hours
(Slashed with HIST 82415) This class explores the role of religion in conflict throughout the modern Atlantic World. It is commonly believed that Western societies underwent a process of secularization in the modern age. However, recent scholarship has proven that religious beliefs and behaviors have retained their power, popularity and causal agency. This course is designed to give graduate students an introduction to recent trends in the writing of the history of religion and violence. Religion will be taken as social, cultural and political history, rather than merely ecclesiastical or theological history. Violence will be taken as rhetorics and cultures of violence, as well as warfare and other acts of physical violence. We will start the class by discussion theories of religion, including "civil religion" as an alleged replacement faith in an era of secularity; sample current debates on the question of the religious causes of violence; then survey prominent monographs and articles that address this nexus historically.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62420 POLICE AND POLICED IN THE U.S. 19TH AND 20TH CENTURIES 3 Credit Hours
(Slashed with HIST 82420) This course traces (backwards, beginning with the most recent material) the historical processes through which policing took on its special character in this country beginning with slave patrols and the emergence of professional policing just before the Civil War. To trace how police transformed their work through 2001, this course explores public opinion; popular culture; technological and bureaucratic changes; relationships between state and non-state violence; and police working conditions, training and self-understandings.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62475 MARXIST REVOLUTION IN VIETNAM 3 Credit Hours
(Slashed with HIST 82475) An examination of the violent upheavals influenced by Marxist thought that overturned traditional Vietnamese political, economic, and social structures over the course of the twentieth century. Course readings explore the chronology, context, and consequences of this revolution as well as the meaning of key concepts such as revolution and modernity.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62485 THE CIVIL WAR AS EXPERIENCED AND REMEMBERED 3 Credit Hours
(Slashed with HIST 82485) This course looks at the U.S. Civil War from the point of view of the men (and occasionally women) who marched, camped, fought, suffered and died during the four years of conflict and the decades after. After giving brief attention to the causes and political issues that led to war, the course focus is on the experiences and reactions of the people called upon to fight it. Rather than concentrate on the famous leaders and generals, students look at the officers and men, civilians and enslaved people and other common folks on both sides who were thrust into the conflict. Some attention is paid to the guerrilla war, the draft, the POW experience and the participation of African Americans and Native Americans. The second part of the course looks at memory, commemoration and the effects of the war on many of these groups in the decades leading into the 20th century.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62500 REGIONAL IDENTITY AND OHIO HISTORY 3 Credit Hours
(Slashed with HIST 82500) As central as Ohio is in our national history, it is often underrepresented in standard historical narratives. This course explores the unfolding of more than two centuries of US history through the lens of the experience and understandings of residents of the State of Ohio. This changed perspective revisits many familiar themes -- indigenous histories, immigration, labor conflict, the Great Depression -- but moving our attention from the coast to the interior often places them in a revealing new light.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62505 SOCIAL MOVEMENTS IN THE 19TH-20TH CENTURY RUST BELT 3 Credit Hours
(Slashed with HIST 82505) This course explores the national and global history of social movements in the nineteenth and twentieth centuries through the lens of the great lakes region. While many social movements have focussed on the coasts, in fact the "Rust Belt" played a disproportionate role in fostering and populating radical movements from abolitionism to temperance to labor unionism as well as repressive movements like the Ku Klux Klan. Alternating between classic historical monographs and regional studies, the class interrogates the meaning of the region's sympathy to radical movements and also suggests a reconception of these movements through a new geographic focus.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 69199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 69299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: HIST 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 69399 CAPSTONE IN HISTORY 3 Credit Hours
Capstone experience required of all MA students who are not writing a thesis. Students will develop an original research project and disseminate their work either through publication or presentation. Projects should integrate primary and secondary source research.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis, Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 69499 INTERDISCIPLINARY PROJECT IN HISTORY 3,6 Credit Hours
Research experience required for all students enrolled in the Master's in History for Secondary School Teachers concentration. Students will draw on their history coursework to complete a substantial piece of research applicable to the work of a practicing teacher. It can be pedagogical in nature, exploring strategies for teaching a particular subject, topic, or historical concept, or might be documentary in nature, such as historically informed teaching materials for a given subject, topic, or concept.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 69896 INDIVIDUAL INVESTIGATION 2,3 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP

HIST 69898 RESEARCH 1-15 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 70092 PUBLIC HISTORY INTERNSHIP 3-6 Credit Hours
(Repeatable for credit) (Slashed with HIST 60092) Students serve an internship at an institution related to their emphasis in public history (e.g.,historical society, museum, archives, historical preservation organization).
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory

HIST 71005 TEACHING WORLD HISTORY 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) (Slashed with HIST 51005) To prepare graduate students to teach world history at the university level. Special focus on integrating non-Western sources and points of view into the world history curriculum, preparation of world history syllabus and justification of selected readings and topics, mastery of on-line and in-class technologies to deliver world history materials.
Prerequisite: Doctoral standing in History.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 71006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with CLAS 41006, CLAS 51006) (Slashed with HIST 41006 and HIST 51006) A survey of Roman history from its beginning to the fall of the Roman empire.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 71034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours
(Slashed with HIST 41034 and HIST 51034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 71060 COMPARATIVE FASCISM 3 Credit Hours
(Slashed with HIST 41060 and HIST 51060) Examination of the theories and practices of fascist movements and regimes in 20th-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 72097 PUBLIC HISTORY COLLOQUIUM 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 62097) Assigned readings, discussions and papers focus on particular emphases and skill areas in public history.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 79095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49095 and HIST 59095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 79195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49195 and HIST 59195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 79295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49295 and HIST 59295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 81002 HISTORIOGRAPHY 3 Credit Hours
Development of historical thinking. Students will read excerpts of famous historians and prepare papers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 81070 WRITING SEMINAR IN HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 61070) Students will spend the semester conceptualizing, researching, and writing an article-length piece of original historical scholarship. Basic topics to be addressed include prospectus drafting, source identification, historiography, research methods, scholarly writing and revision, oral presentation, and professional critiquing. All students will be expected to supplement the guidance they receive from the seminar instructor with regular consultations with their departmental advisors.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82000 READINGS IN EARLY MODERN HISTORY 3 Credit Hours
(Slashed with HIST 62000) This course offers an overview of the major themes and problems in the historical scholarship on early modern Europe and the early modern world. It will also explore different methodological and theoretical approaches drawing from foundational and recent scholarship in intellectual history, cultural history, social history, gender history and global history. Topics may include the Renaissance, Europe's Reformations, the Scientific Revolution and the Enlightenment, the French Revolution, court culture and the rise of absolutism, popular culture and everyday life, Europe's colonial and commercial expansion, the rise of capitalism, urbanization and the emergence of industrialization.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82070 AMERICAN HISTORY FROM PRECONTACT NATIVE AMERICA THROUGH THE CIVIL WAR 3 Credit Hours
(Slashed with HIST 62070) This reading colloquium surveys the major aspects of American history from the arrival of Europeans in North America through the colonial period of American history and up to the Civil War and Reconstruction. Students are introduced to both historical content as well as the major historiographical currents in this segment of U.S. history. The aim of the course is to prepare students for comprehensive exams as well as to teach the first half of the U.S. survey course.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82071 AMERICAN HISTORY FROM THE CIVIL WAR TO THE PRESENT 3 Credit Hours
(Slashed with HIST 62071) This reading colloquium surveys major aspects of American history since the Civil War within the historiographical traditions through which they have been understood. The aim of the course is to prepare students for comprehensive exams as well as to teach the second half of the U.S. survey course.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82285 AMERICAN INTELLECTUAL AND CULTURAL HISTORY SINCE 1877 3 Credit Hours
(Slashed with HIST 82285) This colloquium will explore American Intellectual and Cultural History after 1877 by focusing on modernity. Our readings will discuss modernity's evolution from its late nineteenth-century roots to its dismantlement in the current epoch. We will hear, see, and read about this idea and how it is applied to various manifestations within our society, from material culture to advertising, music, and film.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82300 MAJOR READINGS IN THE IMMIGRATION AND MIGRATION HISTORY OF THE UNITED STATES 3 Credit Hours
(Slashed with HIST 62300) This course focuses on immigration, or more accurately, "migration," as an important aspect of the history of the United States. It begins with an introduction to the interdisciplinary and transnational perspectives that define the study of global migration before focusing on the journeys taken by European, Latin American, Asian, and African immigrants to the United States, the often transnational lives led by these immigrants, and the communities they built within the United States. Alongside these concerns, the course will also explore how American society has historically received and reacted to immigrants.
Prerequisite: Doctoral Standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82325 MAJOR READINGS IN ASIAN AMERICAN HISTORY 3 Credit Hours
(Slashed with HIST 62325) This course provides a foundational understanding of the history of Asian Americans in the United States, with special emphasis placed upon those groups whose roots in the U.S. go back to the nineteenth century. Key subjects under scrutiny in this course include emigration/immigration; the creation and continuation of ethnic ghettoes; segmented and international labor markets; diasporic and domestic political movements; racial stereotyping; global wars; and cultural changes.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82326 BETWEEN PLOWS AND SWORDS: U.S.-CHINA CULTURAL RELATIONS SINCE THE LATE 1700S 3 Credit Hours
(Slashed with HIST 62326) This seminar explores the beginning, evolution, transformation, and impact of U.S.-China cultural relations since the late 1700s. The United States and China have built a complex and dynamic relationship in the past two and a half centuries. Among the dimensions of that relationship, cultural relations were the oldest, deepest, and most consequential. While non-governmental organizations and individual Americans as well as Chinese played a crucial role in initiating and expanding cultural contacts between the two nations, government intervention and control were intensified over time, turning cultural relations into an instrument to achieve domestic as well as foreign policies goals. How did cultural contacts between the two nations begin? Who were the major players in the making of the Sino-American cultural relations? What were their major goals? How did the U.S. and the Chinese governments get involved in bilateral cultural contact and exchange? What impact did the expansion of cultural ties have on both societies? How were the U.S.-China cultural relations changed during the Cold War? What impact did the Cold War transformation have on cultural relations during and after rapprochement? By addressing these key questions, this course gives students a deeper understanding of the complexity and dynamics of U.S.- China relations.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82345 IMAGES AND IDENTITIES IN US FOREIGN RELATIONS 3 Credit Hours
This graduate-level reading colloquium will explore the construction of cultural images and national identities in US foreign relations. Course readings and discussions will deal not only with the ways that Americans have “constructed” other nations but also with how other nations have “constructed” the United States. Themes to be explored include the role of intangibles such as culture in the making of policy; the accuracy or inaccuracy of cultural constructs; and the permanency or malleability of cultural ideas.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82350 REVOLUTION AND REFORM: THE DEPRESSION ERA AND THE TRANSFORMATION OF AMERICAN SOCIETY 3 Credit Hours
(Slashed with HIST 62350) The Depression Era was a transformative time in the history of the U.S. state, but also of the U.S. people. This class engages with key readings in the historical discipline that approach this era with particular sensitivity to how regular Americans experienced, responded to, and shaped this crucial period.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 0 lecture, 0 lab, 3 other
Grade Mode: Standard Letter

HIST 82360 MARGINALITY AND POWER: HISTORY FROM BELOW 3 Credit Hours
(Slashed with HIST 62360) Who makes history? Every historian must grapple with this question and every generation of modern historians has answered this question in a different way. One response to this question is to write "history from below" and focus on the ways in which common people and historically marginalized groups have contributed to historical changes and developments in their societies and cultures. Throughout this course, we review some of the classic scholarship and new works that engage in the task of writing "history from below." Our goal is to understand how "history from below" has developed over the last few decades and to engage with the important questions about representation and agency that this approach to history raises. A variety of assignments serve to further our exploration of the topic and help us gain some practice not just in analyzing "histories from below," but also doing "history from below."
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82385 HIGH-LIFE HISTORY: AFRICAN URBAN CULTURAL HISTORIES 3 Credit Hours
(Slashed with HIST 62385) This course explores the African city. Whether they live in the metropolises of Johannesburg, Tauba, Nairobi, or Lagos, urban Africans have built diverse landscapes and lives. This class examines those everyday lives, in a cross-cultural exploration of the history of African urban spaces.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82400 THE LENS OF WAR: AMERICAN HISTORY THROUGH THE STUDY OF THE MILITARY 3 Credit Hours
(Slashed with HIST 62400) A survey of the impact conflict and the peacetime military have had on both the history and historiography of colonial America and the United States. Thematic points of emphasis include, but are not limited to civil-military relations, race, national identity, memory, gender, western expansion, American economic development, the growth of the federal government, Cold War culture, and citizenship.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82405 NATIVE WESTS 3 Credit Hours
(Slashed with HIST 62405) This course introduces students to the major analytical frameworks historians use to understand the diverse and complicated encounters between Euro-Americans and Native Americans in what is now the United States from first contact in the sixteenth century through the forced integration of Native nations into the United States after the Civil War. These encounters will be rooted in what was called the history of the "frontier," but is now more commonly described as "western" history or the study of "borderlands." Readings will emphasize sociocultural diversity among Indian societies, Indian agency, and Euro-American policy frameworks for Indian relations.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82415 RELIGION AND VIOLENCE IN THE MODERN WEST 3 Credit Hours
(Slashed with HIST 62415) This class explores the role of religion in conflict throughout the modern Atlantic World. It is commonly believed that Western societies underwent a process of secularization in the modern age. However, recent scholarship has proven that religious beliefs and behaviors have retained their power, popularity and causal agency. This course is designed to give graduate students an introduction to recent trends in the writing of the history of religion and violence. Religion will be taken as social, cultural and political history, rather than merely ecclesiastical or theological history. Violence will be taken as rhetorics and cultures of violence, as well as warfare and other acts of physical violence. We will start the class by discussion theories of religion, including "civil religion" as an alleged replacement faith in an era of secularity; sample current debates on the question of the religious causes of violence; then survey prominent monographs and articles that address this nexus historically.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82420 POLICE AND POLICED IN THE U.S. 19TH AND 20TH CENTURIES 3 Credit Hours
(Slashed with HIST 62420) This course traces (backwards, beginning with the most recent material) the historical processes through which policing took on its special character in this country beginning with slave patrols and the emergence of professional policing just before the Civil War. To trace how police transformed their work through 2001, this course explores public opinion; popular culture; technological and bureaucratic changes; relationships between state and non-state violence; and police working conditions, training and self-understandings.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82475 MARXIST REVOLUTION IN VIETNAM 3 Credit Hours
(Slashed with HIST 62475) An examination of the violent upheavals influenced by Marxist thought that overturned traditional Vietnamese political, economic, and social structures over the course of the twentieth century. Course readings explore the chronology, context, and consequences of this revolution as well as the meaning of key concepts such as revolution and modernity.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82485 THE CIVIL WAR AS EXPERIENCED AND REMEMBERED 3 Credit Hours
(Slashed with HIST 62485) This course looks at the U.S. Civil War from the point of view of the men (and occasionally women) who marched, camped, fought, suffered and died during the four years of conflict and the decades after. After giving brief attention to the causes and political issues that led to war, the course focus is on the experiences and reactions of the people called upon to fight it. Rather than concentrate on the famous leaders and generals, students look at the officers and men, civilians and enslaved people and other common folks on both sides who were thrust into the conflict. Some attention is paid to the guerrilla war, the draft, the POW experience and the participation of African Americans and Native Americans. The second part of the course looks at memory, commemoration and the effects of the war on many of these groups in the decades leading into the 20th century.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82500 REGIONAL IDENTITY AND OHIO HISTORY 3 Credit Hours
(Slashed with HIST 62500) As central as Ohio is in our national history, it is often underrepresented in standard historical narratives. This course explores the unfolding of more than two centuries of US history through the lens of the experience and understandings of residents of the State of Ohio. This changed perspective revisits many familiar themes -- indigenous histories, immigration, labor conflict, the Great Depression -- but moving our attention from the coast to the interior often places them in a revealing new light.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82505 SOCIAL MOVEMENTS IN THE 19TH-20TH CENTURY RUST BELT 3 Credit Hours
(Slashed with HIST 62505) This course explores the national and global history of social movements in the nineteenth and twentieth centuries through the lens of the great lakes region. While many social movements have focussed on the coasts, in fact the "Rust Belt" played a disproportionate role in fostering and populating radical movements from abolitionism to temperance to labor unionism as well as repressive movements like the Ku Klux Klan. Alternating between classic historical monographs and regional studies, the class interrogates the meaning of the region's sympathy to radical movements and also suggests a reconception of these movements through a new geographic focus.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 89199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 89299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: HIST 89199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 89896 INDIVIDUAL INVESTIGATION 2,3 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP

HIST 89898 RESEARCH 1-15 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral Standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Department of Mathematical Sciences

Mathematics (MATH)

MATH 00020 PRE-ALGEBRA 2 Credit Hours
Course covers properties of whole numbers, fractions, decimals, percents, signed numbers and order of operations. Mental math and elementary algebraic thinking skills are emphasized. Use of calculators is not allowed. Course does not count toward graduation.
Prerequisite: 0-9 ALEKS math score.
Schedule Type: Emporium
Contact Hours: 2 other
Grade Mode: Standard Letter

MATH 00021 BASIC ALGEBRA I 2 Credit Hours
Course includes operations on integers, fractions, decimals and percents, and properties of real numbers. Introduction to variables, first degree equations and problem-solving with formulas. Equations and inequalities in one variable, linear equations, rate of change and slope, graphing in the cartesian plane. Course does not count toward graduation.
Prerequisite: Minimum 10 ALEKS math score.
Pre/corequisite: MATH 00020 with a minimum C grade.
Schedule Type: Emporium
Contact Hours: 2 other
Grade Mode: Standard Letter

MATH 00022 BASIC ALGEBRA II 2 Credit Hours
Introduction to functions, systems of linear equations, exponents, polynomial operations, scientific notation. Factoring polynomials, solving quadratics by factoring, radicals and rational exponents. Course does not count toward graduation.
Prerequisite: Minimum 25 ALEKS math score; or MATH 00021 with a minimum C grade.
Schedule Type: Emporium
Contact Hours: 2 other
Grade Mode: Standard Letter

MATH 00095 SPECIAL TOPICS IN MATHEMATICS 1-4 Credit Hours
(Repeatable for credit) Topics in mathematics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled. Course does not count toward graduation.
Prerequisite: None.
Schedule Type: Emporium
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MATH 10038 STATISTICAL THINKING 2 Credit Hours
This course is the first of a two-part sequence and provides a pathway for successful completion of MATH 10041 during the subsequent semester. Topics include graphical displays of data, measures of center and variation, linear regression and basic probability. In the context of these statistical concepts, students review basic arithmetic and algebra skills needed to succeed in MATH 10041, including computations and applications of percents and decimals, fractions, proportions, linear equations, areas of geometric figures, slope and intercepts. The development of study strategies, problem-solving skills and reading skills are interwoven throughout the semester. This course is different than basic algebra courses and MATH 10041 because it develops students' fluency within the context of statistical situations and does not cover all topics required in the TMM-011, nor does it cover them in depth. Emphasis is on skill development and foreshadowing statistical concepts through intuitive and informal development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MATH 10040 INTRODUCTORY STATISTICS PLUS (KMCR) 5 Credit Hours
(Equivalent to MATH 10041) An introduction to statistical thinking and statistical methods with a review of basic algebra. Emphasis is on statistical literacy, conceptual understanding and active learning in the classroom. This course also provides just-in-time remediation to help students achieve the same learning outcomes as MATH 10041. No credit earned for this course if a student already earned credit for MATH 10041. Students who do not meet the prerequisites but do have a minimum of 3.0 high school GPA should contact the department for approval to register.
Prerequisite: ALEKS Math score between 25 and 34; or MATH 00021 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, TAG Mathematics, Transfer Module Mathematics

MATH 10041 INTRODUCTORY STATISTICS (KMCR) 4 Credit Hours
(Equivalent to MATH 10040) An introduction to statistical thinking and statistical methods. Emphasis is on statistical literacy, conceptual understanding and active learning in the classroom. No credit earned for this course if a student already earned credit for MATH 10040. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade; or any higher level MATH course.
Schedule Type: Emporium
Contact Hours: 4 other
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 10050 QUANTITATIVE REASONING PLUS (KMCR) 5 Credit Hours
(Equivalent to MATH 10051) In the broadest sense mathematics should provide students the needed quantitative tools, logical reasoning and problem-solving skills, and a sense that quantitative modeling can be used to describe and understand developments in many areas of daily living. Since critical thinking is the primary objective and outcome for our course, in each area of concentration (numeracy, mathematical modeling, and probability and statistics) students will need to read and glean information from the problem situation, convert the information into a usable form, perform any needed routine calculations, make or draw a conclusion, and then communicate the result via explanation using quantitative reasoning by writing coherent statements and paragraphs. This course also provides just-in-time remediation to help students achieve the same learning outcomes as MATH 10051. Students who do not meet the prerequisites but do have a minimum of 3.0 high school GPA should contact the department for approval to register.
Prerequisite: ALEKS Math score between 25 and 34; or MATH 00021 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, TAG Mathematics, Transfer Module Mathematics

MATH 10051 QUANTITATIVE REASONING (KMCR) 4 Credit Hours
(Equivalent to MATH 10050) In the broadest sense, mathematics should provide students the needed quantitative tools, logical reasoning and problem solving skills, and a sense that quantitative modeling can be used to describe and understand developments in many areas of daily living. Since critical thinking is the primary objective and outcome for this course, in each area of concentration (numeracy, mathematical modeling and probability and statistics), students will read and glean information from the problem situation, convert the information into a usable form, perform any needed routine calculations, make or draw a conclusion, and then communicate the result via explanation using quantitative reasoning by writing coherent statements and paragraphs. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade; or any higher level MATH course.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 10475 ALGEBRAIC THINKING 2 Credit Hours
This course includes development of problem-solving skills, including recognizing quantities in real-world scenarios, noting dependency relationships of these quantities, creating accurate diagrams of the varying quantities in scenarios, precisely describing variables and quantities, identifying domains in context and representing the varying relationship of two quantities on a coordinate plane. Algebra skills reviewed include factoring, solving linear and non-linear equations and simplifying rational expressions and expressions with integer and rational exponents. The modeling component includes recognizing linear vs. exponential change and writing function models for linear and exponential growth and decay.
Prerequisite: MATH 00022 with a minimum C grade; or minimum 22 ACT math score; or minimum 530 SAT math score; or ALEKS math score between 35-44.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MATH 10675 ALGEBRA FOR CALCULUS BOOST (KMCR) 5 Credit Hours
(Equivalent to MATH 10775 or MATH 11010) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. The emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component. A two-week review of intermediate algebra skills is included in the course, as is extra time studying quadratic functions, absolute value functions, systems of equations and extended time on logarithms. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 22 ACT math score; or minimum 530 SAT math score; or ALEKS math score between 35-44; or MATH 00022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 10771 BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR) 5 Credit Hours
(Equivalent to MATH 14001) Course covers the development of the real-number system and its sub-systems, open sentences, numeration systems, modular arithmetic and some number theory concepts. Additional concepts covered include place value, logic, equality, properties of the real numbers, multiple representations of operations with numbers, and problem solving. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

MATH 10772 MODELING ALGEBRA PLUS (KMCR) 5 Credit Hours
(Equivalent to MATH 11009) Study of algebra arising in the context of real-world applications, including linear, polynomial, exponential and logarithmic models. Includes a review of factoring and functions. Course is intended for students not planning to take calculus. No credit earned toward a degree for this course if student already earned credit for MATH 11010. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

MATH 10775 ALGEBRA FOR CALCULUS PLUS (KMCR) 4 Credit Hours
(Equivalent to MATH 10675 or MATH 11010) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. The emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component. Skill review is included in the course, as is time studying quadratic functions, absolute value functions, systems of equations and extended time on logarithms.
Prerequisite: ALEKS math score between 45 and 54; or MATH 10772 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 11008 EXPLORATIONS IN MODERN MATHEMATICS (KMCR) 3 Credit Hours
Topics from various branches of mathematics will be chosen to introduce the student to the wide varieties of ways in which mathematics affects everyday life. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 35 ALEKS math score; or minimum 22 ACT math score; or MATH 00022 or any higher MATH course with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

MATH 11009 MODELING ALGEBRA (KMCR) 4 Credit Hours
(Equivalent to MATH 10772) Study of algebra arising in the context of real-world applications, including linear, polynomial, exponential and logarithmic models. Intended for students not planning to take calculus. No credit earned toward a degree for this course if the student already earned credit for MATH 11010.
Prerequisite: Minimum 45 ALEKS math score.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

MATH 11010 ALGEBRA FOR CALCULUS (KMCR) 3 Credit Hours
(Equivalent to MATH 10675 or MATH 10775) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. Emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component.
Prerequisite: Minimum 55 ALEKS math score; or MATH 10772 or MATH 11009 with a minimum B grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 11012 INTUITIVE CALCULUS (KMCR) 3 Credit Hours
Course is designed to give an overview of differential and integral calculus to business and life-science majors. Course does not include trigonometric functions. No credit earned toward a degree for this course if the student already earned credit for MATH 12002.
Prerequisite: Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 11022 TRIGONOMETRY (KMCR) 3 Credit Hours
Solution of triangles, trigonometric equations and identities.
Prerequisite: Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR) 5 Credit Hours
Concepts of limit, continuity and derivative, and the indefinite and definite integral for functions of one real variable. Maximization, related rates, fundamental theorem of calculus. No credit earned toward a degree for this course if the student already earned credit for MATH 12011 and MATH 12012.
Prerequisite: Minimum 78 ALEKS math score; or MATH 11022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II 5 Credit Hours
Continued study of techniques and applications of integration; trigonometric, logarithmic and exponential functions; polar coordinates; vectors; parametric equations; sequences and series.
Prerequisite: MATH 12002 or MATH 12012 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Transfer Module Mathematics

MATH 12011 CALCULUS WITH PRECALCULUS I (KMCR) 3 Credit Hours
Introduction to differential calculus with a review of algebra and trigonometry. Includes exponents, factoring, functions, graphs, tangent lines, limits, continuity, derivatives and related rates. No credit earned toward a degree for this course if the student already earned credit for MATH 12002.
Prerequisite: Minimum 67 ALEKS math score.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 12012 CALCULUS WITH PRECALCULUS II (KMCR) 3 Credit Hours
Development of integral calculus and continued study of differential calculus. Includes curve sketching optimization fundamental theorem of calculus areas between curves, exponential and logarithmic functions. No credit earned toward a degree for this course if student already earned credit for MATH 12002.
Prerequisite: MATH 12011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 12013 BRIEF CALCULUS II 3 Credit Hours
This is a condensed version of MATH 12003 to meet the needs of majors that do not require the full force of MATH 12003. The course starts with integration by parts, approximating integrals, and applications of integrals. It follows with a brief introduction to series, parametric equations and polar coordinates, and finishes with vectors and geometry of space. No credit earned toward a degree for this course if student already earned credit for MATH 12003.
Prerequisite: Minimum C grade in MATH 12002 or MATH 12012 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 12021 CALCULUS FOR LIFE SCIENCES 4 Credit Hours
Differential and integral calculus using examples and problems in life sciences.
Prerequisite: Minimum 78 ALEKS math score; or MATH 11022 or MATH 12011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 12022 PROBABILITY AND STATISTICS FOR LIFE SCIENCES 3 Credit Hours
Probability and statistics with applications in medical and biological sciences.
Prerequisite: Minimum C grade in MATH 12002 or MATH 12012 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 14001 BASIC MATHEMATICAL CONCEPTS I (KMCR) 4 Credit Hours
(Equivalent to MATH 10771) Development of the real number system and its sub-systems, open sentences, numeration systems, modular arithmetic and some number theory concepts.
Prerequisite: MATH 10675 or any higher level MATH course (except MATH 11008) with a minimum C grade; or minimum 45 ALEKS math score.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 14002 BASIC MATHEMATICAL CONCEPTS II (KMCR) 4 Credit Hours
Basic concepts of probability, statistics and geometry.
Prerequisite: MATH 10771 or MATH 14001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 19002 TECHNICAL MATHEMATICS II 4 Credit Hours
Emphasizes advanced topics in algebra and trigonometry, analytic geometry, derivatives and integrals.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 19099 FIELD EXPERIENCE IN MATHEMATICS INSTRUCTION (ELR) 1 Credit Hour
(Repeatable for credit) Learning through tutoring. A supervised lab experience in providing explanations of mathematical concepts.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MATH 20011 DECISION-MAKING UNDER UNCERTAINTY 3 Credit Hours
An introductory course on applied statistics. The course provides a hands-on approach to understanding, quantification and decision-making under various forms of uncertainty. The main topics include visualization of uncertainty, probabilistic quantification of uncertainty, Bayesian and non-Bayesian ways of decision-making under uncertainty. Class activities incorporate active learning elements, including in-classroom computation with professional-grade software for statistical analysis and simulation.
Prerequisite: MATH 12002 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 20095 SPECIAL TOPICS IN MATHEMATICS 1-5 Credit Hours
(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

MATH 21001 LINEAR ALGEBRA 3 Credit Hours
Systems of linear equations and the associated matrix operations, linear transformations, vector spaces, bases, eigenvectors.
Prerequisite: Minimum C grade in MATH 11012 or MATH 12002 or MATH 12012 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Mathematics

MATH 21002 APPLIED LINEAR ALGEBRA 3 Credit Hours
This is an introductory course in linear algebra. The goal of the course is to teach the math fundamentals of linear algebra in a way that focuses more on applications. The topics include systems of linear equations, matrix operations, vector spaces, eigenvalues and eigenvectors, singular value decompositions, and their applications.
Prerequisite: Minimum C grades in MATH 12002 or MATH 11012 or MATH 12012 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 21092 COMPUTER PRACTICUM (ELR) 2 Credit Hours
(Repeatable for credit) Supervised work experience in a computer installation.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MATH 22005 ANALYTIC GEOMETRY AND CALCULUS III 4 Credit Hours
Study of functions of several variables, including partial derivatives and multiple integrals.
Prerequisite: MATH 12003 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Mathematics

MATH 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE 3 Credit Hours
(Cross-listed with CS 23022) Discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling. Specific topics include propositional and predicate logic and logical modeling using Boolean algebra and logical gates, information representation using binary system, sets, functions, relations, logical argumentation, proof techniques, recursion and recursive modeling, sequences and summation, arithmetic and geometric progressions, algorithms, iterative vs recursive algorithms, mathematical and structural induction, recursive structures, counting, permutation and combination, binomial expansion, matrices and matrix-operations, graphs and trees and their traversal, probability and Bayes' theorem, finite state machines, their modeling and applications, Regular grammar, basics of number theory, modeling computation and Turing machines, decidability and halting problem.
Prerequisite: Minimum C grade in MATH 11009 or MATH 11010 or MATH 11022, or ALEKS score of 78.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 30011 BASIC PROBABILITY AND STATISTICS 3 Credit Hours
Analysis and representation of data. Controlled experiments and observations. Measurement errors. Correlation and regression. Sampling. Probability models and tests of models. Inference. This course cannot be used to meet the mathematics requirements for a BA in Mathematics or a BS in Applied Mathematics or Mathematics.
Prerequisite: Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010; or any course MATH 11012 to MATH 12022; or any course MATH 20000 to MATH 49999.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 30055 MATHEMATICAL THEORY OF INTEREST 3 Credit Hours
A calculus-based introduction to the mathematics of finance. Limited to deterministic analysis of interest rates annuities bonds and immunization. Emphasizes the mathematical theory of the subject matter.
Prerequisite: MATH 12003 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 31011 PROOFS IN DISCRETE MATHEMATICS 3 Credit Hours
The study of discrete mathematical structures including sets, functions and relations. The course includes an introduction to logical thinking with an emphasis on proof techniques. The course may include topics in number theory, graph theory and combinatoric.
Prerequisite: MATH 12002 with a minimum C grade.
Pre/corequisite: Minimum C grade in the following courses: MATH 21001 or MATH 21002 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 32044 ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours
An introduction to ordinary differential equations and applications. Topics include solution methods, series solutions, singular points, Laplace transforms and linear systems. Applications include population dynamics, forced oscillations and resonance.
Prerequisite: Minimum C grade in the following courses: MATH 12003 or MATH 12013; and MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Mathematics

MATH 32051 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I 4 Credit Hours
Mathematics background beyond calculus I and II for upper-division courses in the physical sciences. Topics include complex numbers and arithmetic, linear algebra, partial differentiation and multiple integrals.
Prerequisite: MATH 12003 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 32052 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II 4 Credit Hours
Additional mathematics background for upper-division courses in the physical sciences. Topics include vector analysis, Fourier series and transforms ordinary differential equations and partial differential equations.
Prerequisite: MATH 32051 with a minimum C grade; or MATH 21001 and MATH 22005 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 34001 FUNDAMENTAL CONCEPTS OF ALGEBRA 3 Credit Hours
Professionalized course in algebra for prospective secondary teachers. Postulational development of number system of algebra; other systems, related topics, applications. This course cannot be used to meet the mathematical requirements for a BA in Mathematics or a BS in either Applied Mathematics or Mathematics. No credit earned toward a degree for this course if a student already earned credit for MATH 41001.
Prerequisite: MATH 12002 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 34002 FUNDAMENTAL CONCEPTS OF GEOMETRY 3 Credit Hours
Professionalized course in geometry for secondary school teachers. Origin and development of the geometry of Euclid with modern refinements, topics, approaches. Other geometries, applications. This cannot be used to meet the mathematics requirement for a BA in Mathematics or a BS in either Applied Mathematics or Mathematics.
Prerequisite: MATH 12002 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 38001 HANDS-ON MATHEMATICS 3 Credit Hours
Students take turns learning a topic and then teach that topic to the class. No text is required; the students use web resources and materials supplied by the instructor. Many of the topics have a hands-on component. Some examples are two- and three-dimensional tiling problems, the Towers of Hanoi and other problems with an inductive solution, and 'magic tricks' with a basis in algebra, parity or modular arithmetic.
Prerequisite: MATH 12003 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40011 PROBABILITY THEORY AND APPLICATIONS 3 Credit Hours
(Slashed with MATH 50011) Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems.
Prerequisite: MATH 22005 or MATH 32051 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40012 THEORY OF STATISTICS (WIC) 3 Credit Hours
(Slashed with MATH 50012) Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods.
Prerequisite: MATH 40011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MATH 40015 APPLIED STATISTICS 3 Credit Hours
(Slashed with MATH 50015) Course is based on classical linear regression techniques with an emphasis on real data using the principles of sound data analysis. Close attention is given to issues of interpretation, diagnostics, outliers and influential points, goodness of fit and model selection. Topics include simple and multiple linear regression, transformation and modifications of covariates and responses, design matrices, variable selection and logistic regression. Students with statistics courses from other disciplines should consult with the Department of Mathematical Sciences for possible prerequisite overrides.
Prerequisite: MATH 21001 or MATH 21002 with a minimum C grade; and MATH 12022 with a minimum B grade or MATH 20011 with a minimum C grade or MATH 30011 with a minimum B grade or MATH 40012 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40024 COMPUTATIONAL STATISTICS 3 Credit Hours
(Slashed with MATH 50024) This course is about the use of computational tools to manage, explore, summarize and visualize data, as well as the computational underpinnings of fitting statistical models. It uses mostly the statistical computation language R, but also other languages like Python and Matlab. It also covers: simulation and random number generation, computationally intensive methods like the bootstrap and permutation tests, Expectation-Maximization and related algorithms and dimensionality reduction via matrix decomposition. Students with statistics courses from other disciplines should consult with the Department of Mathematical Sciences for possible prerequisite overrides.
Prerequisite: MATH 21001 or MATH 21002 with a minimum C grade; and MATH 12022 with a minimum B grade or MATH 20011 with a minimum C grade or MATH 30011 with a minimum B grade or MATH 40012 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40028 STATISTICAL LEARNING 3 Credit Hours
(Slashed with MATH 50028) This course is about the statistical foundations of modern machine learning techniques. The main focus is classification and prediction using regression-based, tree-based and kernel-based methods. Specific methods include logistic regression, classification and regression trees, random forests and support vector machines. The course also includes an introduction to unsupervised and semi-supervised learning.
Prerequisite: MATH 40015 and MATH 40024 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES 3 Credit Hours
(Slashed with MATH 50051) Topics from conditional expectations, Markov chains, Markov processes, Brownian motion and Martingales and their applications to stochastic calculus.
Prerequisite: MATH 40011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40055 ACTUARIAL MATHEMATICS I (ELR) (WIC) 4 Credit Hours
(Slashed with MATH 50055) Topics from survival models, stochastic analysis of annuities and life insurance and casualty models. .
Prerequisite: MATH 30055 and MATH 40011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 40056 ACTUARIAL MATHEMATICS II 4 Credit Hours
(Slashed with MATH 50056) Benefit premiums, benefit reserves and their analysis, decrement models, joint survivorship, risk models.
Prerequisite: MATH 40055 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 40059 STOCHASTIC ACTUARIAL MODELS 3 Credit Hours
(Slashed with MATH 50059) Topics from investment risk, mean variance analysis, CAPM, financial derivatives, binomial pricing model, stochastic calculus, Black-Scholes pricing model and Greeks.
Prerequisite: MATH 40011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40093 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-6 Credit Hours
(Repeatable for credit) Studies special topics in mathematics. Not acceptable for credit toward a major or minor in math without approval of student's adviser.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 41001 MODERN ALGEBRA I (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 51001) Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms.
Prerequisite: MATH 22005 or MATH 32051 with a minimum C grade; and MATH 31011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 41002 MODERN ALGEBRA II (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 51002) A continuation of MATH 41001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructability.
Prerequisite: Minimum C grade in MATH 41001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 41021 THEORY OF MATRICES 3 Credit Hours
(Slashed with MATH 51021) A rigorous study of the topics introduced in matrix algebra. Topics included are vector space preliminaries, canonical forms of matrices, diagonalizability criteria.
Prerequisite: MATH 21001 and MATH 22005 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 41038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with CS 41038 and PHIL 41038)(Slashed with MATH 51038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics.
Prerequisite: Actuarial Mathematics major or Applied Mathematics major or Applied Mathematics minor or Applied Statistics minor or Mathematics major or Mathematics minor; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42001 ANALYSIS I (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 52001) Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers, continuity, differentiation and Riemann integration.
Prerequisite: MATH 22005 or MATH 32051 with a minimum C grade; and MATH 31011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 42002 ANALYSIS II (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 52002) Topics include further development of integration theory, infinite series, uniform convergence, several variable calculus and metric spaces.
Prerequisite: MATH 42001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 42011 MATHEMATICAL OPTIMIZATION 3 Credit Hours
(Slashed with MATH 52011) Analytic and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered.
Prerequisite: Minimum C grade in MATH 21001 and MATH 22005 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42021 GRAPH THEORY AND COMBINATORICS 3 Credit Hours
(Slashed with MATH 52021) Fundamentals and applications of combinatorial mathematics. Topics include traversability, colorability, networks, inclusion and exclusion, matching and designs.
Prerequisite: Minimum C grade in MATH 12003 or MATH 12013; and MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42024 NUMBERS AND GAMES 3 Credit Hours
(Slashed with MATH 52024) The study of partisan and impartial combinatorial games, games as numbers and Grundy-Sprague theory.
Prerequisite: Minimum C grade in MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS 3 Credit Hours
(Slashed with MATH 52031) Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization, dynamical systems and probability are developed and applied. Modern software tools are utilized.
Prerequisite: Minimum C grade in the following courses: MATH 22005 and MATH 32044; or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42039 MODELING PROJECTS (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 52039) Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports are required.
Prerequisite: MATH 42031 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 42041 ADVANCED CALCULUS 3 Credit Hours
(Slashed with MATH 52041) The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus. Applications to field theories, electricity and magnetism and fluid flow.
Prerequisite: MATH 21001 with a minimum C grade; and MATH 22005 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42045 PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 52045) An introduction to Fourier series, Fourier transforms and partial differential equations. Wave, heat and potential equations of mathematical physics. Additional topics include Green's functions and the method of characteristics for wave equations.
Prerequisite: Minimum C grade in the following courses: MATH 22005 and MATH 32044; or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42048 COMPLEX VARIABLES 3 Credit Hours
(Slashed with MATH 52048) Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications.
Prerequisite: MATH 22005 or MATH 32051 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42201 NUMERICAL LINEAR ALGEBRA 3 Credit Hours
(Cross-listed with CS 42201)(Slashed with CS 52201 and MATH 52201) Fundamentals of numerical linear algebra; solving linear systems; QR factorization and least squares; iterative methods for eigenvalue problems.
Prerequisite: Minimum C grade in the following courses: CS 13001 or (CS 13011 and CS 13012); and MATH 12003 or MATH 12013; and MATH 21001 or MATH 21002 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42202 NUMERICAL APPROXIMATION AND OPTIMIZATION 3 Credit Hours
(Cross-listed with CS 42202)(Slashed with CS 52202 and MATH 52202) This course introduces numerical methods for solving nonlinear equations, optimizing functions, performing interpolation, computing differentiation and integration and solving differential equations.
Prerequisite: Minimum C grade in the following courses: (MATH 22005 and MATH 32044) or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 45011 DIFFERENTIAL GEOMETRY 3 Credit Hours
(Slashed with MATH 55011) Analytic and metric differential geometry of curves and surfaces.
Prerequisite: MATH 22005 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 45021 EUCLIDEAN GEOMETRY 3 Credit Hours
(Slashed with MATH 55021) Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: cross-ratio, groups, constructions, geometric generalizations and inversion.
Prerequisite: Minimum C grade in MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 45022 LINEAR GEOMETRY 3 Credit Hours
(Slashed with MATH 55022) Use of transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry.
Prerequisite: Minimum C grade in MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 46001 ELEMENTARY TOPOLOGY 3 Credit Hours
(Slashed with MATH 56001) Metric spaces, introduction to topological spaces, separation axioms.
Prerequisite: MATH 22005 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 47011 THEORY OF NUMBERS 3 Credit Hours
(Slashed with MATH 57011) Divisibility properties of the integers, prime numbers, congruences, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions and rational approximations.
Prerequisite: Minimum C grade in MATH 12003 or MATH 12013.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 47021 HISTORY OF MATHEMATICS 3 Credit Hours
(Slashed with MATH 57021) Survey from Babylonian and Egyptian mathematics to 20th century mathematics with emphasis on the development of algebra, geometry, calculus, number theory.
Prerequisite: MATH 23022 or higher with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 49992 INTERNSHIP IN MATHEMATICS (ELR) 1-3 Credit Hours
Supervised work experience and training in the mathematical sciences. Since this work will be outside the department a report and final presentation will be required.
Prerequisite: Special Approval.
Schedule Type: Practical Experience
Contact Hours: 0 lecture, 0 lab, 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MATH 49995 SELECTED TOPICS IN MATHEMATICS AND ITS APPLICATIONS 1-4 Credit Hours
(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

MATH 49996 INDIVIDUAL STUDY 1-4 Credit Hours
(Repeatable for credit) Individual investigation in mathematics.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MATH 49998 RESEARCH (ELR) 1-15 Credit Hours
(Repeatable for credit) Research in mathematics.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MATH 50011 PROBABILITY THEORY AND APPLICATIONS 3 Credit Hours
(Slashed with MATH 40011) Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50012 THEORY OF STATISTICS 3 Credit Hours
(Slashed with MATH 40012) Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods.
Prerequisite: MATH 40011 or MATH 50011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50015 APPLIED STATISTICS 3 Credit Hours
(Slashed with MATH 40015) Course is based on classical linear regression techniques with an emphasis on real data using the principles of sound data analysis. Close attention is given to issues of interpretation, diagnostics, outliers and influential points, goodness of fit and model selection. Topics include simple and multiple linear regression, transformation and modifications of covariates and responses, design matrices, variable selection and logistic regression.
Prerequisite: Applied Mathematics major or Data Science major or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50024 COMPUTATIONAL STATISTICS 3 Credit Hours
(Slashed with MATH 40024) This course is about the use of computational tools to manage, explore, summarize and visualize data, as well as the computational underpinnings of fitting statistical models. It uses mostly the statistical computation language R, but also other languages like Python and Matlab. It also covers: simulation and random number generation, computationally intensive methods like the bootstrap and permutation tests, Expectation-Maximization and related algorithms and dimensionality reduction via matrix decomposition.
Prerequisite: Applied Mathematics major or Data Science major or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50028 STATISTICAL LEARNING 3 Credit Hours
(Slashed with MATH 40028) This course is about the statistical foundations of modern machine learning techniques. The main focus is classification and prediction using regression-based, tree-based and kernel-based methods. Specific methods include logistic regression, classification and regression trees, random forests and support vector machines. The course also includes an introduction to unsupervised and semi-supervised learning.
Prerequisite: MATH 40015 or MATH 50015; and MATH 40024 or MATH 50024; and Applied Mathematics major or Data Science major or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES 3 Credit Hours
(Slashed with MATH 40051) Topics from conditional expectations, Markov chains, Markov processes, Brownian Motion and Martingales and their applications to stochastic calculus.
Prerequisite: MATH 50011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50055 ACTUARIAL MATHEMATICS I 4 Credit Hours
(Slashed with MATH 40055) Topics from survival models, stochastic analysis of annuities and life insurance and casualty models.
Prerequisite: MATH 30055 and MATH 50011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 50056 ACTUARIAL MATHEMATICS II 4 Credit Hours
(Slashed with MATH 40056) Benefit premiums, benefit reserves and their analysis; decrement models, joint survivorship, risk models.
Prerequisite: MATH 50055; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 50059 STOCHASTIC ACTUARIAL MODELS 3 Credit Hours
(Slashed with MATH 40059) Topics from investment risk, mean variance analysis, CAPM, financial derivatives, binomial pricing model, stochastic calculus, Black-Scholes pricing model and Greeks.
Prerequisite: MATH 40011 or MATH 50011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 51001 MODERN ALGEBRA I 3 Credit Hours
(Slashed with MATH 41001) Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms.
Prerequisite: MATH 21001 and MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 51002 MODERN ALGEBRA II 3 Credit Hours
(Slashed with MATH 41002) A continuation of MATH 51001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructibility.
Prerequisite: MATH 41001 or MATH 51001; and applied mathematics or pure mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 51021 THEORY OF MATRICES 3 Credit Hours
(Slashed with MATH 41021) A rigorous study of the topics introduced in matrix algebra. Topics included are: canonical forms of matrices, diagonalizability criteria.
Prerequisite: MATH 21001 and MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 51038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with PHIL 51038)(Slashed with CS 41038, MATH 41038 and PHIL 41038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52001 ANALYSIS I 3 Credit Hours
(Slashed with MATH 42001) Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers ,continuity, differentiation and Riemann integration.
Prerequisite: Applied mathematics or pure mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52002 ANALYSIS II 3 Credit Hours
(Slashed with MATH 42002) Topics include further development of integration theory infinite series, uniform convergence, several variable calculus and metric spaces.
Prerequisite: MATH 42001 or MATH 52001; and applied mathematics or pure mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52011 MATHEMATICAL OPTIMIZATION 3 Credit Hours
(Slashed with MATH 42011) Analytical and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered.
Prerequisite: MATH 21001 and MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52021 GRAPH THEORY AND COMBINATORICS 3 Credit Hours
(Slashed with MATH 42021) Fundamentals and applications of combinatorial mathematics. Topics include transversability, colorability, networks, inclusion and exclusion, matching and designs.
Prerequisite: MATH 12003 and MATH 21001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52024 NUMBERS AND GAMES 3 Credit Hours
(Slashed with MATH 42024) The study of partisan and impartial combinatorial games, games as numbers and Grundy-Sprague theory.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS 3 Credit Hours
(Slashed with MATH 42031) Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization, dynamical systems and probability are developed and applied. Modern software tools are utilized.
Prerequisite: MATH 32044; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52039 MODELING PROJECTS 3 Credit Hours
(Slashed with MATH 42039) Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports required.
Prerequisite: MATH 52031 with a minimum C grade; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MATH 52041 ADVANCED CALCULUS 3 Credit Hours
(Slashed with MATH 42041) The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus. Applications to field theories, electricity and magnetism and fluid flow.
Prerequisite: MATH 21001 and MATH 22005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52045 PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 42045) An introduction to Fourier series, Fourier transforms and partial differential equations. Wave, heat and potential equations of mathematical physics. Additional topics include Green's functions and the method of characteristics for wave equations.
Prerequisite: Applied Mathematics or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52048 COMPLEX VARIABLES 3 Credit Hours
(Slashed with MATH 42048) Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications.
Prerequisite: Applied mathematics or pure mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52201 NUMERICAL LINEAR ALGEBRA 3 Credit Hours
(Cross-listed with CS 52201)(Slashed with CS 42201 and MATH 42201) Fundamentals of numerical linear algebra; solving linear systems; QR factorization and least squares; iterative methods for eigenvalue problems.
Prerequisite: Applied Mathematics or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52202 NUMERICAL APPROXIMATION AND OPTIMIZATION 3 Credit Hours
(Cross-listed with CS 52202)(Slashed with CS 42202 and MATH 42202) This course introduces numerical methods for solving nonlinear equations, optimizing functions, performing interpolation, computing differentiation and integration and solving differential equations.
Prerequisite: Applied Mathematics or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 55011 DIFFERENTIAL GEOMETRY 3 Credit Hours
(Slashed with MATH 45011) Analytic and metric differential geometry of curves and surfaces.
Prerequisite: MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 55021 EUCLIDEAN GEOMETRY 3 Credit Hours
(Slashed with MATH 45021) Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: cross-ratio, groups, constructions, geometric generalizations and inversion.
Prerequisite: MATH 21001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 55022 LINEAR GEOMETRY 3 Credit Hours
(Slashed with MATH 45022) Use of transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry.
Prerequisite: MATH 21001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 56001 ELEMENTARY TOPOLOGY 3 Credit Hours
(Slashed with MATH 46001) Metric spaces, introduction to topological spaces, separation axioms.
Prerequisite: MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 57011 THEORY OF NUMBERS 3 Credit Hours
(Slashed with MATH 47011) Divisibility properties of the integers, prime numbers, congruences, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions and rational approximations.
Prerequisite: MATH 12003; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 57021 HISTORY OF MATHEMATICS 3 Credit Hours
(Slashed with MATH 47021) Survey from Babylonian and Egyptian mathematics to 20th-century mathematics with emphasis on the development of algebra, geometry, calculus, number theory.
Prerequisite: One course MATH 23022 or higher; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 57095 SPECIAL TOPICS: MATHEMATICS AND ITS APPLICATIONS 1-3 Credit Hours
(Repeatable for credit) Offered periodically with different topics and different faculty involved.
Prerequisite: Graduate standing or special approval.
Schedule Type: Lecture
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 59893 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-6 Credit Hours
(Repeatable for credit) Studies in special topics in pure and applied mathematics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 60051 PROBABILITY I 4 Credit Hours
(Slashed with MATH 70051) Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers.
Prerequisite: MATH 40011 or MATH 42002 or MATH 50011 or MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 60052 PROBABILITY II 3 Credit Hours
(Slashed with MATH 70052) Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion.
Prerequisite: MATH 60051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 60061 MATHEMATICAL STATISTICS I 4 Credit Hours
(Slashed with MATH 70061) Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems.
Prerequisite: MATH 42002 or MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 60062 MATHEMATICAL STATISTICS II 3 Credit Hours
(Slashed with MATH 70062) Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Non-parametric procedures.
Prerequisite: MATH 60061; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 60070 FINANCIAL MATHEMATICS 3 Credit Hours
(Slashed with MATH 70070) Topics from replication of trading strategies, arbitrage, completeness, Martingale representation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing.
Prerequisite: MATH 50051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 60091 SEMINAR IN STATISTICS AND PROBABILITY 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in statistics and probability.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 60093 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-3 Credit Hours
(Repeatable for credit) Studies of special topics in mathematics. Not acceptable for credit toward a graduate degree in mathematics without approval of the student's adviser.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 60194 COLLEGE TEACHING OF MATHEMATICS--LAB 1 Credit Hour
Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 0 lecture, 2 lab, 0 other
Grade Mode: Standard Letter

MATH 61051 ABSTRACT ALGEBRA I 4 Credit Hours
(Slashed with MATH 71051) Advanced topics in group theory including Sylow Theorems, finite Abelian groups, divisible groups and related concepts. Includes one hour problem session each week.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 61052 ABSTRACT ALGEBRA II 3 Credit Hours
(Slashed with MATH 71052) Advanced topics, commutative ring theory and field theory, including polynomial rings, unique factorization domains, matrix rings, Galois theory.
Prerequisite: MATH 61051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 61091 SEMINAR IN ALGEBRA 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in algebra.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 62041 METHODS OF APPLIED MATHEMATICS I 3 Credit Hours
(Slashed with MATH 72041) Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations).
Prerequisite: MATH 51021 and MATH 52041 and MATH 52045 and MATH 52048; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62042 METHODS OF APPLIED MATHEMATICS II 3 Credit Hours
(Slashed with MATH 72042) Continuation of MATH 62041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation).
Prerequisite: MATH 62041; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62051 FUNCTIONS OF A REAL VARIABLE I 4 Credit Hours
(Slashed with MATH 72051) Introduction to modern concepts of real analysis, including metric spaces, measure and integration theory.
Prerequisite: MATH 42002 or MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 62052 FUNCTIONS OF A REAL VARIABLE II 3 Credit Hours
(Slashed with MATH 72052) A continuation of MATH 62051. Included are basic topics in functional analysis and Hilbert space theory.
Prerequisite: MATH 62051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62151 FUNCTIONS OF A COMPLEX VARIABLE I 4 Credit Hours
(Slashed with MATH 72151) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.
Prerequisite: MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 62152 FUNCTIONS OF A COMPLEX VARIABLE II 3 Credit Hours
(Slashed with MATH 72152) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.
Prerequisite: MATH 62151; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62203 COMPUTATIONAL FINANCE 3 Credit Hours
(Slashed with MATH 72203) Basic numerical methods, (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods), numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs) probabilistic methods.
Prerequisite: MATH 22005 and MATH 21001 and MATH 32044; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62251 NUMERICAL ANALYSIS I 4 Credit Hours
(Slashed with MATH 72251) Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric, spline). Numerical quadrature (Newton-Cotes, Gauss),extrapolation, Romberg integration.
Prerequisite: MATH 42002 or MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 62252 NUMERICAL ANALYSIS II 3 Credit Hours
(Slashed with MATH 72252) Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition.
Prerequisite: MATH 41021 or MATH 51021; and MATH 62251 or MATH 72251; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62261 NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 72261) Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementation software and analysis.
Prerequisite: MATH 32044; and MATH 42202 or MATH 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 72262) Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations.
Prerequisite: MATH 42045 or MATH 52045; and MATH 42202 or MATH 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours
(Slashed with MATH 72263) (Cross-listed with CS 62263 and CS 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.
Prerequisite: MATH 41021 or MATH 51021; and MATH 42202 or MATH 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours
(Cross-listed with CS 62264 and CS 72264) (Slashed with MATH 72264) Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software.
Prerequisite: MATH 42041 or MATH 52041; and MATH 42202 or MATH 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62291 SEMINAR IN COMPUTATIONAL AND APPLIED MATHEMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with MATH 72291) Seminar on current research in computational and applied Mathematics
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MATH 62391 SEMINAR IN MEASURE THEORY 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in measure theory.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 62491 SEMINAR IN NONLINEAR ANALYSIS 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in nonlinear analysis.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 64091 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours
(Repeatable for credit) Studies in geometry, algebra, mathematics for junior and senior high school. Mathematics content professionalized for teachers.
Prerequisite: MATH 34001; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MATH 66051 INTRODUCTION TO TOPOLOGY I 4 Credit Hours
(Slashed with MATH 76051) Set theory, topological spaces, continuity, product spaces, quotient spaces, separation axioms, compactness and metrizability.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 67057 ADVANCED CONCEPTS OF GEOMETRY 3 Credit Hours
This course covers advanced topics in Euclidean geometry, including the Ceva's, Menelaus' and nine-point theorems; mass-point geometry; solid geometry; 2D and 3D analytic geometry; conic sections; geometric inequalities; applications of complex numbers in Euclidean geometry; geometric constructions; and combinatorial geometry.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 67067 ADVANCED CONCEPTS OF PROBABILITY AND STATISTICS 3 Credit Hours
This course covers advanced topics in probability and statistics, including core probability topics: probability axioms, discrete and continuous random variables, independence and conditional probability, inequalities and limit theorems; and main statistics topics sample, sample mean and variance, interval estimators, hypothesis tests and linear regression.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 67077 ADVANCED CONCEPTS OF ALGEBRA 3 Credit Hours
This course covers advanced topics in abstract algebra, including basic number theory; divisibility and congruence of integers; examples and properties of rings; polynomial rings; unique factorization and irreducibility of polynomials; quotient rings; finite fields; examples and basic properties of groups; Cayley tables and isomorphisms; subgroups; cosets; and the theorems of Lagrange, Euler and Fermat.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 67091 SEMINAR IN NUMBER THEORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with MATH 77091) Seminar on current research in number theory.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 67095 SELECTED TOPICS IN MATHEMATICS 1-4 Credit Hours
(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

MATH 67098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of "S" is given.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

MATH 67199 THESIS I 2-6 Credit Hours
Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MATH 67299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: MATH 67199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MATH 69099 CAPSTONE PROJECT 2-3 Credit Hours
The course is an integrative experience that brings together all components of the Masters nonthesis graduate program.
Prerequisite: Graduate standing and special approval.
Schedule Type: Project or Capstone
Contact Hours: 0 lecture, 0 lab, 2-3 other
Grade Mode: Standard Letter-IP

MATH 70051 PROBABILITY I 4 Credit Hours
(Slashed with MATH 60051) Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers.
Prerequisite: MATH 40011 or MATH 50011; or MATH 42002 or MATH 52002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 70052 PROBABILITY II 3 Credit Hours
(Slashed with MATH 60052) Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion.
Prerequisite: MATH 60051 or MATH 70051; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 70061 MATHEMATICAL STATISTICS I 4 Credit Hours
(Slashed with MATH 60061) Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems.
Prerequisite: MATH 42002 or MATH 52002.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 70062 MATHEMATICAL STATISTICS II 3 Credit Hours
(Slashed with MATH 60062) Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Non parametric procedures.
Prerequisite: MATH 60061 or MATH 70061; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 70070 FINANCIAL MATHEMATICS 3 Credit Hours
(Slashed with MATH 60070) Topics from replication of trading strategies, arbitrage completeness, Martingale presentation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing.
Prerequisite: MATH 50051; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 70091 SEMINAR IN STATISTICS AND PROBABILITY 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in statistics and probability.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MATH 70094 COLLEGE TEACHING OF MATHEMATICS 1 Credit Hour
(Repeatable for credit) Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MATH 70095 SELECTED TOPICS IN STATISTICS AND PROBABILITY 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 70051, MATH 70052, MATH 70061 and MATH 70062.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 70194 COLLEGE TEACHING OF MATHEMATICS--LAB 1 Credit Hour
Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 0 lecture, 2 lab, 0 other
Grade Mode: Standard Letter

MATH 71001 STRUCTURE OF RINGS AND ALGEBRAS I 3 Credit Hours
Advanced topics in ring theory, including Artinian rings, Noetherian rings, advanced commutative ring theory.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71002 STRUCTURE OF RINGS AND ALGEBRAS II 3 Credit Hours
Advanced topics in ring theory including an introduction to homological algebra. Includes Dedekind domains, regular rings, torsion theory.
Prerequisite: MATH 71001; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71011 ADVANCED GROUP THEORY 3 Credit Hours
Advanced topics in group theory. Topics include permutation arguments, coprime actions, transfer theorems, nonsimplicity criteria. Properties of families of groups: solvable, p solvable, nilpotent, p groups.
Prerequisite: MATH 61051 or MATH 71051; and MATH 61052 or MATH 71052; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71012 CHARACTERS OF FINITE GROUPS 3 Credit Hours
Development of characters of finite groups, their properties, orthogonality relations, integrality conditions. Applications include Burnside's paqb theorem and existence of Frobenius kernels in Frobenius groups.
Prerequisite: MATH 61051 or MATH 71051; and MATH 61052 or MATH 71052; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71051 ABSTRACT ALGEBRA I 4 Credit Hours
(Slashed with MATH 61051) Advanced topics in group theory, including Sylow theorems, finite Abelian groups, divisible groups and related concepts. Includes one-hour problem session each week.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 71052 ABSTRACT ALGEBRA II 3 Credit Hours
(Slashed with MATH 61052) Advanced topics, commutative ring theory and field theory, including polynomial rings, unique factorization, domains, matrix rings, Galois theory.
Prerequisite: MATH 61051 or MATH 71051; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71091 SEMINAR IN ALGEBRA 1-3 Credit Hours
(Repeatable for credit) (Slashed with MATH 61091) Seminar on current research in algebra.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 71095 SELECTED TOPICS IN ALGEBRA 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 71002, MATH 71051 and MATH 71052.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 72001 FUNCTIONAL ANALYSIS I 3 Credit Hours
A study of principles of linear analysis in the setting of normed linear spaces and topological vector spaces.
Prerequisite: MATH 72052; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72041 METHODS OF APPLIED MATHEMATICS I 3 Credit Hours
(Slashed with MATH 62041) Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations).
Prerequisite: MATH 51021 and MATH 52041 and MATH 52045 and MATH 52048; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72042 METHODS OF APPLIED MATHEMATICS II 3 Credit Hours
(Slashed with MATH 62042) Continuation of MATH 72041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation).
Prerequisite: MATH 62041 or MATH 72041; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72051 FUNCTIONS OF A REAL VARIABLE I 4 Credit Hours
(Slashed with MATH 62051) Introduction to modern concepts of real analysis including metric spaces, measure and integration theory.
Prerequisite: MATH 42002 or MATH 52002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 72052 FUNCTIONS OF A REAL VARIABLE II 3 Credit Hours
(Slashed with MATH 62052). A continuation of MATH 72051. Included are basic topics in functional analysis and Hilbert space theory.
Prerequisite: MATH 62051 or MATH 72051; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72095 SELECTED TOPICS IN REAL ANALYSIS 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72002, MATH 72051 and MATH 72052.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 72151 FUNCTIONS OF A COMPLEX VARIABLE I 4 Credit Hours
(Slashed with MATH 62151) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.
Prerequisite: MATH 52002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 72152 FUNCTIONS OF A COMPLEX VARIABLE II 3 Credit Hours
(Slashed with MATH 62152) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's theorem; Riemann surfaces.
Prerequisite: MATH 72151; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72195 SELECTED TOPICS IN COMPLEX ANALYSIS 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72151 and MATH 72152.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 72203 COMPUTATIONAL FINANCE 3 Credit Hours
(Slashed with MATH 62203) Basic numerical methods, (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods) numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs) probabilistic methods.
Prerequisite: MATH 22005 and MATH 21001 and MATH 32044; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72251 NUMERICAL ANALYSIS I 4 Credit Hours
(Slashed with MATH 62251) Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric spline). Numerical quadrature (Newton-Cotes, Gauss), extrapolation, Romberg integration.
Prerequisite: MATH 42002 or MATH 52002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 72252 NUMERICAL ANALYSIS II 3 Credit Hours
(Slashed with MATH 62252) Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition.
Prerequisite: MATH 41021 or MATH 51021; and MATH 62251 or MATH 72251; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72261 NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 62261) Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementation software and analysis.
Prerequisite: MATH 32044; and MATH 42202 or MATH 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 62262) Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations.
Prerequisite: MATH 42045 or MATH 52045; and MATH 42202 or MATH 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours
(Slashed with MATH 62263) (Cross-listed with CS 62263 and CS 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.
Prerequisite: MATH 41021 or MATH 51021; and MATH 42202 or MATH 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours
(Slashed with MATH 62264) (Cross-listed with CS 62264 and CS 72264) Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software.
Prerequisite: MATH 42041 or MATH 52041; and MATH 42202 or MATH 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72291 SEMINAR IN COMPUTATIONAL AND APPLIED MATHEMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with Math 62291)Seminar on current research in numerical analysis.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 72295 SELECTED TOPICS IN NUMERICAL ANALYSIS 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72251 and MATH 72252.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 72391 SEMINAR IN MEASURE THEORY 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in measure theory.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 72491 SEMINAR IN NONLINEAR ANALYSIS 1-3 Credit Hours
(Repeatable for credit)Seminar on current research in nonlinear analysis.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 76051 INTRODUCTION TO TOPOLOGY I 4 Credit Hours
(Slashed with MATH 66051) Set theory, topological spaces, continuity, product spaces, quotient spaces separation axioms, compactness and metrizability.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 76095 SELECTED TOPICS IN TOPOLOGY 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 76051.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 77011 ALGEBRAIC NUMBER THEORY 3 Credit Hours
Number fields and Dedekind domains; conjugates, norm and trace, discriminant, integral bases; arithmetic or quadraic and cyclotomic number fields; theory of ideals and class group; Dirichlet's thoerem on units.
Prerequisite: MATH 57011; and MATH 61052 or MATH 71052; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 77012 ANALYTIC NUMBER THEORY 3 Credit Hours
Multiplicative functions and summatory functions, Riemann's Zeta function and the prime number theorem, L-functions and Dirichlet's theorem on primes in artithmetic progressions, asymptotic formula for partitions.
Prerequisite: MATH 57011 and MATH 62151 or MATH 72151.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 77091 SEMINAR IN NUMBER THEORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with MATH 67091) Seminar on current research in number theory.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 77095 SELECTED TOPICS IN MATHEMATICS 1-3 Credit Hours
(Repeatable for credit) Course topic varies with each offering.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 77098 RESEARCH I 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of "S" is given.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

MATH 77195 SELECTED TOPICS IN NUMBER THEORY 1-3 Credit Hours
(Repeatable for credit) Content varies with each offering and complements topics covered in MATH 77011 and MATH 77012.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 77198 RESEARCH II 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of "S" is given.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 87098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. Credits earned may be applied toward degree if department approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

MATH 87199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Admission to doctoral candidacy; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MATH 87299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: MATH 87199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Department of Modern and Classical Language Studies

American Sign Language (ASL)

ASL 19201 ELEMENTARY AMERICAN SIGN LANGUAGE I 4 Credit Hours
Introduction to American Sign Language and the culture of the American signing community, in an immersion setting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ASL 19202 ELEMENTARY AMERICAN SIGN LANGUAGE II 4 Credit Hours
A continuation of the introduction to American Sign Language and the culture of the American signing community, in an immersion setting.
Prerequisite: ASL 19201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ASL 19401 EXPLORATION OF DEAF CULTURE 3 Credit Hours
Introduction to the American Deaf Community and its culture. Topics include myths and facts about deafness, cultural norms, basic history of American Sign Language, issues of language and cultural oppression, history of education of deaf and hard-of-hearing individuals, legal rights and advocacy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 29201 INTERMEDIATE AMERICAN SIGN LANGUAGE I 3 Credit Hours
Continued development of receptive and expressive skills in American Sign Language and an introduction to ASL grammar, using a bilingual-bicultural approach and interaction with deaf organizations.
Prerequisite: ASL 19202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ASL 29202 INTERMEDIATE AMERICAN SIGN LANGUAGE II 3 Credit Hours
Continuation of ASL 29201 with an emphasis on greater exploration of American Sign Language sentence structure using a bilingual-bicultural approach. Students are involved in a community service project, providing a hands-on experience with using ASL within a community setting.
Prerequisite: ASL 29201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ASL 29212 APPLIED AMERICAN SIGN LANGUAGE GRAMMAR 3 Credit Hours
Provides students with intensive instruction and practice in grammar to help intermediate students express complex ideas using American Sign Language.
Prerequisite: ASL 19202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 29213 FINGERSPELLING, NUMBERS AND DEPICTION 3 Credit Hours
Provides intermediate students with intensive instruction and practice in technical aspects of American Sign Language, including fingerspelling, numbers, and depiction, and provides opportunities for students to incorporate these skills in spontaneous conversations.
Prerequisite: ASL 19202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 39095 SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE 1-3 Credit Hours
(Repeatable for credit for maximum 9 hours) Special topics course in American Sign Language, the topic of which varies. Precise titles and descriptions appear in the schedule of classes.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ASL 39201 ADVANCED AMERICAN SIGN LANGUAGE I 3 Credit Hours
Students enhance receptive and expressive proficiency in an immersion setting through the use of both planned and impromptu in-class discussion of current and historic events and involvement in a community service project. Students are advised to begin planning this activity early in the semester. Successful completion of ASL 29201 portfolio review required prior to registration.
Prerequisite: ASL 29202 .
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 39202 ADVANCED AMERICAN SIGN LANGUAGE II 3 Credit Hours
Students continue to increase their receptive and expressive proficiency in American Sign Language in an immersion setting, through in-class formal and informal presentations, discussions of current and historical events, and working in groups to complete a semester project and a community service project.
Prerequisite: ASL 39201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 39223 SOCIOLINGUISTICS OF THE DEAF COMMUNITY (WIC) 3 Credit Hours
Provides an introduction to the sociolinguistics of American Sign Language (ASL) and the Deaf Community: A study of ASL within a social context. Topics include: multilingualism, variation (related to region, ethnicity, class and age), bilingualism and language contact, language policy and planning and language attitudes. This course is taught in English. Knowledge of ASL is helpful but not necessary.
Prerequisite: Junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ASL 39401 INFLUENTIAL FIGURES IN THE DEAF WORLD 3 Credit Hours
This course explores key figures who have impacted the lives and culture of Deaf, Deaf-Blind and hard of hearing people while also participating within a dominant culture. First-hand narratives will allow students to engage with Deaf experiences to understand hegemony as it applies to hearing status. Coursework investigates but is not limited to the lives and contributions of those who have influenced American Sign Language, ASL instruction, Deaf professionals in Education and research, the arts, interpreting, sports, media, legislation, and affiliated organizations. A portion of this course will be utilized to explore Deaf people, social issues and civil rights from a global perspective.
Pre/corequisite: ASL 19202.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

ASL 49091 SEMINAR IN AMERICAN SIGN LANGUAGE LINGUISTICS 3 Credit Hours
(Repeatable for credit) Provides an in-depth treatment of an American Sign Language linguistics-related topic.
Prerequisite: Minimum C grade in ASL 49108; and special approval.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49092 PRACTICUM IN AMERICAN SIGN LANGUAGE (ELR) 1-3 Credit Hours
In consultation with the ASL program coordinator, ASL students design a practicum experience related to signed languages and their communities. Successful presentation of cumulative portfolio required prior to registration.
Prerequisite: ASL 29202.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ASL 49096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual research on a topic dealing with American Sign Language, ASL pedagogy and/or deaf culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other gradable product(s).
Prerequisite: One American Sign Language (ASL) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ASL 49108 AMERICAN SIGN LANGUAGE LINGUISTICS I 3 Credit Hours
(Slashed with SPED 53108) Lecture, discussion and application course designed to introduce students to basic linguistic terminology and concepts, as applied to American Sign Language (ASL) and taught using a bilingual-bicultural approach. Both ASL and English are used in the instruction of this class. Successful presentation of cumulative portfolio is required prior to registration in this course.
Prerequisite: ASL 29202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49109 AMERICAN SIGN LANGUAGE LINGUISTICS II 3 Credit Hours
Through lecture, in-class and out-of-class activities, and in-class presentations, students discuss, use, and respond to varied sentence structures and types of discourse in ASL, and compare these to English. Class is predominantly taught in ASL, but may at times use a bilingual approach.
Prerequisite: ASL 49108; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49201 ADVANCED PROFICIENCY 3 Credit Hours
Students improve knowledge and use of American Sign Language and experiential knowledge of ASL culture through development, production, critique, revision and evaluation of an extended ASL presentation. This is an immersion class; voicing will not be used.
Prerequisite: ASL 39202; and score of intermediate level on the Signing Competency Proficiency Interview.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49309 INTRODUCTION TO DEAF STUDIES (ELR) (WIC) 3 Credit Hours
(Cross-listed with SPED 43309) (Slashed with SPED 53309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment and the various communication systems used by deaf individuals. Specifically, topics discussed include historical, medical and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational and vocational experiences of deaf children, adults and their families.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ASL 49350 AMERICAN SIGN LANGUAGE LITERATURE 3 Credit Hours
This course explores the evolution of storytelling and poetry in American Sign Language and the Deaf community (in the U.S.). Two perspectives are explored: (1) the evolution of the language and its literature, and (2) the historical context and important figures whose work and style had significant impact. The course is conducted primarily in ASL, but examines the translation process to and from English to explore how the spoken, written and signed languages influence each other. This course culminates in a final student production in ASL, either live or recorded, performed for an audience providing appropriate translation and accessibility.
Prerequisite: ASL 39201 with a minimum B grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49401 DEAF CULTURE AND COMMUNITY 3 Credit Hours
(Slashed with SPED 53101) Students explore the different voices and perspectives which have been, and are, present within the deaf community, issues of controversy, myths and data, using a mix of ASL and English materials and discussion. Successful presentation of cumulative portfolio required prior to registration.
Prerequisite: ASL 29202 and 49309; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49601 ACTIVITY DESIGN, IMPLEMENTATION AND EVALUATION 3 Credit Hours
This course is designed to prepare students to teach in both a formal classroom setting as well as in developing community programs to increase awareness of ASL and the Deaf community. Through a combination of theoretical foundations and practical application, students develop a comprehensive understanding of ASL pedagogy. This is an essential course for students preparing for a student teaching placement or students in other fields who wish to offer workshops and community content.
Pre/corequisite: ASL 39202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Arabic (ARAB)

ARAB 11101 ELEMENTARY ARABIC I 4 Credit Hours
Course is designed for learners with little or no previous knowledge of the Arabic language. It is based on the integration of learning outcomes across interpersonal, interpretive and presentational modes of communication. Students are introduced to the basics of the Arabic writing and sound systems. Students learn basic grammar, vocabulary and structures to enable them to meet functional performance goals at the elementary level to build a foundation for continued language learning. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

ARAB 11102 ELEMENTARY ARABIC II 4 Credit Hours
Continuation of ARAB 11102. This course is based on the integration of learning outcomes across interpersonal, interpretive and presentational modes of communication. It reviews the basics of the Arabic writing and sound systems, focuses on extending students' knowledge of basic grammar, vocabulary and structures to enable them to meet functional performance goals at the elementary level, and develops the skills required for continued language learning. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 11101.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

ARAB 21201 INTERMEDIATE ARABIC I 3 Credit Hours
Continuation of ARAB 11102. This course is based on the integration of learning outcomes across interpersonal, interpretive and presentational modes of communication. It builds upon the concepts, themes, topics and subjects covered in the elementary levels. Course focuses on extending students' knowledge of basic grammar, vocabulary and structures to enable them to meet functional performance goals at the intermediate level, and develops the skills required for continued language learning. Students continue to engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 11102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 21202 INTERMEDIATE ARABIC II 3 Credit Hours
A continuation of Intermediate Arabic I. This course is based on the integration of learning outcomes across interpersonal, interpretive, and presentational modes of communication. The course focuses on extending students' knowledge of basic grammar, vocabulary, and structures to enable them to meet functional performance goals at the intermediate level, and develops the skills required for continued language learning. Students continue to engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 21201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 21401 ARAB CULTURES 3 Credit Hours
This course promotes an understanding of contemporary Arab cultures through conversations and discussions centered around the readings from the course textbook and other supplemental materials provided by the course instructor. Through discussion, other interactive course activities, and short assignments, students learn about the symbols, languages, values, norms, and artifacts that are part of Arab cultures. The course is taught in English and is open to students in all programs of study. No knowledge of the Arabic language is necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 30095 SPECIAL TOPICS IN ARABIC CULTURE AND LANGUAGE 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Topics in Arabic civilization, culture or language.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 31301 ADVANCED INTERMEDIATE ARABIC I 3 Credit Hours
Continuation of the study of Modern Standard Arabic and colloquial Arabic in the context of Arab cultures. Further development of listening, speaking, reading and writing skills, using a variety of cultural materials.
Prerequisite: ARAB 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 31302 ADVANCED INTERMEDIATE ARABIC II 3 Credit Hours
Developing skills of reading, writing, speaking and understanding, this course enhances students' ability to express simple and compound sentences related to everyday activities; examine differences between present, past and future tenses; write assignments using a variety of writing techniques, i.e., describing geographical places, narrating an event, arguing against or for something, and reflecting on news reports; improve students understanding of the world around them using authentic materials on a variety of topics in Modern Standard Arabic; practice the use of grammatical structures and build new vocabulary related to Arab culture and social life in an attempt to improve students' ability to understand texts and express their ideas at an advanced level.
Prerequisite: ARAB 31301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 31311 ARABIC FOR WRITTEN COMMUNICATION 3 Credit Hours
This course is based on the integration of learning outcomes across interpersonal, interpretive, and presentational modes of communication with a focus on developing reading and writing skills. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 31313 ARABIC FOR ORAL COMMUNICATION 3 Credit Hours
This course is based on the integration of learning outcomes across interpersonal, interpretive, and presentational modes of communication with a focus on developing listening and speaking skills. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 37231 TRANSLATION PRACTICE: ARABIC 1 Credit Hour
Translation practice with Arabic texts using principles and techniques learned in the lecture class.
Prerequisite: ARAB 21202.
Corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARAB 37240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: ARABIC 3 Credit Hours
This course is based on the integration of learning outcomes across interpersonal, interpretive, and presentational modes of communication with a focus on developing listening and speaking skills in Arabic for business and other specialized contexts. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Arabic language or culture carried out under the supervision of a faculty member. Departmental approval is required. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Arabic (ARAB) upper-division course (30000 or 40000 level) with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ARAB 41201 ADVANCED ARABIC I 3 Credit Hours
Continuation of ARAB 31302. Emphasis is on building active vocabulary for comprehension, reading authentic texts, writing of connected discourse and the development of higher levels of conversational proficiency.
Prerequisite: ARAB 31302; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 41202 ADVANCED ARABIC II 3 Credit Hours
Enhancing students' ability to speak, understand and write analytically; refining students' ability to use conjunctives and logical connectives at a higher level; understanding stylistic features such as tone, register, figures of speech (i.e., irony, metaphor, simile, alliteration, etc), phrase, clause, sentence and idiomatic structures; enhancing students' ability to use appropriate techniques in descriptive, argumentative, expository writing.
Prerequisite: ARAB 41201; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 47230 ADVANCED TRANSLATION PRACTICE: ARABIC 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes Arabic-English translation of selected texts in business, technology, medicine and law.
Prerequisite: ARAB 37231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 47240 BUSINESS AND SPECIAL TEXTS: ARABIC 3 Credit Hours
This course introduces the concept of language for special purposes and emphasizes special vocabulary in business and other related settings. Learners will build up competence and skills in written communication in business contexts. The course enhances understanding of cultural and ethical issues to identify, resolve and avoid miscommunication. Students learn how to work collaboratively and perform professionally.
Prerequisite: One upper-division ARAB 30000 level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 47343 ARABIC MEDIA AND CURRENT EVENTS 3 Credit Hours
This course introduces students to authentic texts and audiovisual materials from a wide variety of media sources. The course familiarizes students with different media genres. In this course, students develop linguistic, analytical, and bidirectional translation skills and expand their reading, writing, listening, and speaking proficiency. Students discuss, in Arabic, current events related to topics such as technology, politics, economics, terrorism, and the environment.
Prerequisite: One upper-division ARAB course (30000 or 40000 level).
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

ARAB 67010 PRACTICE OF ARABIC TRANSLATION 2 Credit Hours
Introductory course in which students translate a variety of non-specialized, non-fiction short texts in different domains, identify the most common semantic, syntactic, stylistic, cultural and discourse-level problems encountered in translation, and apply appropriate cognitive strategies.
Prerequisite: Graduate standing.
Pre/corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ARAB 67091 SEMINAR IN ARABIC TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized translation projects currently of concern in the translation industry across the Arabic-speaking world. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: ARAB 67010 and TRST 60010; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 67098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Arabic language, translation or culture carried out under the supervision of a faculty member. Departmental approval is required. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

ARAB 67240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, speeches and essays in and from Arabic. '
Prerequisite: ARAB 67010 and TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 67250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
Translating a variety of commercial, financial and legal texts, with special emphasis on text-types most generally translated by professional translators; examining diplomatic texts to understand the language of diplomacy and find the best way to translate it into the target language. Texts subjected for translation from Arabic into English and English into Arabic include employment contracts, articles of incorporation, annual financial statements, diplomatic or official notes, presidential speeches,and international business articles.
Prerequisite: ARAB 67010 and TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 67251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
Introducing methods and resources for the translation of scientific, technical, industrial and medical documents; translating a variety of scientific and medical texts, with special emphasis on text-types most generally translated by professional translators.
Prerequisite: TRST 60001 and TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 67979 TRANSLATION CASE STUDY 3 Credit Hours
Students are responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

Chinese (CHIN)

CHIN 15101 ELEMENTARY CHINESE I 4 Credit Hours
An introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

CHIN 15102 ELEMENTARY CHINESE II 4 Credit Hours
A continuation of the introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures.
Prerequisite: CHIN 15101.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHIN 25201 INTERMEDIATE CHINESE I 4 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: CHIN 15102.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

CHIN 25202 INTERMEDIATE CHINESE II 4 Credit Hours
Continuation of CHIN 25201.
Prerequisite: CHIN 25201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

CHIN 25421 CHINESE CULTURE 3 Credit Hours
This course will guide students to explore the foundations of Chinese civilization and the dimensions of Chinese culture. The course will focus on providing students with a deeper knowledge of Chinese culture and better understanding of contemporary China. This course is a basic introduction to Chinese culture. It does not presume prior knowledge of China or the Chinese language. This course is taught in English and is open to students in any program.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 30095 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)Topic to be announced in schedule of classes.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 35211 INTENSIVE CHINESE CONVERSATION 3 Credit Hours
This course increases students' knowledge of Chinese vocabulary and sentence structure; emphasis will be on developing fluency and oral proficiency in Chinese.
Prerequisite: CHIN 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 35221 CHINESE IN THE REAL WORLD 3 Credit Hours
This course focuses on how the Chinese language varies by social and cultural contexts. The instructor will utilize different socially and culturally relevant topics to help students master the structures, vocabulary, and idiomatic expressions commonly used in formal and informal situations. Students will be systematically exposed to the distinguishing features of written and spoken Chinese in terms of language form, function, and communication.
Prerequisite: CHIN 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Chinese language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Chinese (CHIN) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

CHIN 45302 BUSINESS CHINESE 3 Credit Hours
Study of the business protocol, language functions, texts and vocabulary associated with travel and business in the Chinese-speaking world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 45322 CHINESE FICTION 3 Credit Hours
This course emphasizes speaking and reading skills in Chinese through selected stories and anecdotes including sayings from classical philosophers, folk tales, legends, and great works of literature.
Prerequisite: CHIN 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 45323 CHINESE COMPOSITION 3 Credit Hours
This course focuses on studying modern and classical forms of Chinese literature written by acknowledged masters. Through studying these works, students improve their understanding of Chinese literature, open avenues of thought, broaden their vocabulary, master basic rules and techniques of writing, and develop the ability to write with eloquence and skill.
Prerequisite: CHIN 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Classics (CLAS)

CLAS 21201 ENGLISH WORDS FROM CLASSICAL ELEMENTS 3 Credit Hours
Building of English vocabulary through study of basic roots from Latin and Greek; prefixes, suffixes, rules for accent and pronunciation; specialized scientific and legal terminology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 21404 THE GREEK ACHIEVEMENT (DIVG) (KHUM) 3 Credit Hours
A survey of the cultural achievements of the ancient Greeks as manifested in their poetry, philosophy, history and art from the Homeric period through the New Testament.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, Transfer Module Humanities

CLAS 21405 THE ROMAN ACHIEVEMENT (DIVG) (KHUM) 3 Credit Hours
A survey of the cultural achievements of the ancient Romans as manifested in their literature and art from the Etruscans through the Christians.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, Transfer Module Humanities

CLAS 41005 HISTORY OF ANCIENT GREECE 3 Credit Hours
(Slashed with CLAS 51005) (Cross-listed with HIST 41003 and HIST 51003) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with HIST 41006) (Slashed with CLAS 51006, HIST 51006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41089 CLASSICS INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Slashed with CLAS 51089) A Kent State faculty-led study abroad experience that involves experiential activities and site visits outside the United States. May include, for example, participation in an archaeological dig or tour of sites in Italy and Greece. Course may have pre- or post-travel classroom study. Course activities may include classroom study, research, fieldwork, internships and service-learning.
Prerequisite: Special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CLAS 41092 FIELD EXPERIENCE IN CLASSICS (ELR) 1-4 Credit Hours
(Repeatable for a maximum of 7 credit hours)(Slashed with CLAS 51092) Travel-based study/field experience at a site or sites away from Kent State University under the supervision of members of the classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites that pertain to classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other cities and participation in an archaeological field school.
Prerequisite: None.
Schedule Type: Field Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CLAS 41095 SPECIAL TOPICS IN CLASSICS 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with CLAS 51095) Topic varies per course offering and listed in the schedule of classes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with classical languages or cultures carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Classics (CLAS) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

CLAS 41097 COLLOQUIUM IN CLASSICS 3 Credit Hours
(Repeatable for credit)(Slashed with CLAS 51097) Detailed study of an aspect of antiquity that engages issues of current interest, for example women in antiquity, ancient Christianity, multiculturalism in antiquity.
Prerequisite: None.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

CLAS 41301 CLASSICAL MYTHOLOGY 3 Credit Hours
(Slashed with CLAS 51301) Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41304 LITERATURE OF THE ROMAN WORLD (ELR) (WIC) 3 Credit Hours
(Slashed with CLAS 51304) Major works of Latin literature, studied in their historical context by genre; knowledge of Latin not required. Authors read include Plautus, Terence, Lucretius, Cicero, Catullus, Vergil, Horace, Petronius, Seneca, Suetonius, Tacitus and Juvenal.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CLAS 41305 CLASSICAL LITERARY STUDIES 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Slashed with CLAS 51305) Study of a particular literary genre. Topics are individually designed to provide instruction and training of a specific genre of Greek or Roman literature.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41401 GREEK ARCHAEOLOGY AND ART 3 Credit Hours
(Slashed with CLAS 51401) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41402 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours
(Slashed with CLAS 51402) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41404 ANCIENT CHRISTIANITIES 3 Credit Hours
In-depth examination of the formative period of Christianity and the diverse "Christianities" during the first 100 years after the death of Jesus of Nazareth, including the Judaic context for the birth of Christianity, diversity among the earliest Christian communities, and the process by which the New Testament canon was formed. Study of a variety of texts produced by the early church.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41503 LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC) 3 Credit Hours
(Slashed with CLAS 51503) Major works of Greek literature, studied in their historical context and by genre. Knowledge of Greek is not required.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CLAS 51005 HISTORY OF ANCIENT GREECE 3 Credit Hours
(Slashed with CLAS 41005) (Cross-listed with HIST 41003 and HIST 51003) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with HIST 51006) (Slashed with CLAS 41006, HIST 41006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51089 CLASSICS INTERNATIONAL EXPERIENCE 1-4 Credit Hours
(Slashed CLAS 51089) A Kent State faculty-led study abroad experience that involves experiential activities and site visits outside the United States. International experience may include, for example, participation in an archaeological dig or tour of sites in Italy or Greece. International experience courses may have pre-and post-travel classroom study. Course activities include, but are not limited to, classroom study, research, fieldwork, internships and service-learning.
Prerequisite: Graduate Standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

CLAS 51092 FIELD EXPERIENCE IN CLASSICS 1-4 Credit Hours
(Repeatable for a maximum of 7 credit hours)(Slashed with CLAS 41092) Travel-based study/field experience at a site or sites away from Kent State University under the supervision of members of the classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites that pertain to classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other cities and participation in an archaeological field school.
Prerequisite: Graduate standing.
Schedule Type: Field Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter

CLAS 51095 SPECIAL TOPICS IN CLASSICS 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with CLAS 51095) Topic varies per course offering and listed in the schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51097 COLLOQUIUM IN CLASSICS 3 Credit Hours
(Repeatable for credit) (Slashed with CLAS 41097) Detailed study of an aspect of antiquity that engages issues of current interest, for example women in antiquity, ancient Christianity, multiculturalism in antiquity.
Prerequisite: Graduate standing.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

CLAS 51301 CLASSICAL MYTHOLOGY 3 Credit Hours
(Slashed with CLAS 41301) Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51304 LITERATURE OF THE ROMAN WORLD 3 Credit Hours
(Slashed with CLAS 41304) Major works of Latin literature, studied in their historical context by genre; knowledge of Latin not required. Authors read include Plautus, Terence, Lucretius, Cicero, Catullus, Vergil, Horace, Petronius, Seneca and Juvenal.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51305 CLASSICAL LITERARY STUDIES 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Slashed with CLAS 41305) Study of a particular literary genre. Topics are individually designed to provide instruction and training of a specific genre of Greek or Roman literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51401 GREEK ARCHAEOLOGY AND ART 3 Credit Hours
(Slashed with CLAS 41401) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51402 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours
(Slashed with CLAS 41402) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51503 LITERATURE OF THE ANCIENT GREEKS 3 Credit Hours
(Slashed with CLAS 41503) Major works of Greek literature, studied in their historical context and by genre. Knowledge of Greek is not required.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 61404 ANCIENT CHRISTIANITIES 3 Credit Hours
In-depth examination of the formative period of Christianity and the diverse "Christianities" during the first 100 years after the death of Jesus of Nazareth, including the Judaic context for the birth of Christianity, diversity among the earliest Christian communities, and the process by which the New Testament canon was formed. Study of a variety of texts produced by the early church.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 66398 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with classical languages, translation or cultures carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

French (FR)

FR 10089 BASIC CONVERSATIONAL FRENCH (DIVG) (ELR) 2 Credit Hours
This course is offered to students who are studying in Paris and have little to no previous experience in French, and helps students acquire competencies in all four basic language skills: listening, speaking, reading and writing. The course has a practical focus on opportunities for self-expression in everyday situations (transportation, shopping, dining), as well as in professional contexts (internships, workplace, studio). The course develops intercultural competence through a comparative, critical approach to the study of language and culture. Students are encouraged to complete MCLS 23217 before their semester abroad.
Prerequisite: Special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FR 13201 ELEMENTARY FRENCH I 4 Credit Hours
An introduction to the French language in the context of Francophone cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

FR 13202 ELEMENTARY FRENCH II 4 Credit Hours
A continuation of the introduction to the French language in the context of Francophone cultures.
Prerequisite: FR 13201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

FR 20089 BASIC PROFESSIONAL FRENCH (DIVG) (ELR) 2 Credit Hours
This conversation course is offered to students enrolled in professionally-oriented programs during their semester or summer abroad in Paris. Students practice the four language skills (listening, speaking, reading and writing) with a focus on vocabulary and expressions relevant to professional contexts, including applying for positions, French workplace culture and reading and writing business documents. Comparative and critical analyses of French and American professional practices develop students' intercultural competence.
Prerequisite: FR 13202; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FR 23201 INTERMEDIATE FRENCH I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: FR 13202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

FR 23202 INTERMEDIATE FRENCH II 3 Credit Hours
This course develops oral and written communication skills in French, as well as reading and listening skills through practice with conversations about familiar topics and situations involving issues of current interest, reading informational and fictional texts, and listening to podcasts and watching videos in French. The course develops the ability to describe and narrate and go beyond memorized phrases in a variety of timeframes, including the past and the future.
Prerequisite: FR 23201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

FR 33091 FRENCH FOR THE PROFESSIONS SEMINAR 3 Credit Hours
(Repeatable for credit) Introduction to the special vocabulary for the professions; introduces the concept of language for special purposes and emphasizes the use of special vocabulary throughout conversations and texts for the professions (e.g. business, hospitality, international relations, healthcare).
Prerequisite: FR 23202.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 33095 SELECTED TOPICS IN FRENCH 3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Topic to be announced in the schedule of classes.
Prerequisite: FR 33211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 33211 FRENCH CONVERSATION 3 Credit Hours
A course designed to enhance students' oral proficiency through instruction in facilitating conversation and the discussion of culture-based texts. This course also include phonetics and diction components to enhance students' understanding of the language.
Prerequisite: FR 23202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 33212 FRENCH COMPOSITION 3 Credit Hours
A course designed to develop writing and reading skills, as well as to prepare students to read and write about French literature and culture.
Prerequisite: FR 23202; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 33215 FRENCH PHONETICS AND DICTION 3 Credit Hours
Study of sounds of French language and their relation to spelling; application of international phonetic alphabet to French. Study augmented by recordings.
Prerequisite: FR 23202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 33231 TRANSLATION PRACTICE: FRENCH 1 Credit Hour
Translation practice with French texts using principles and techniques learned in the lecture class. To be taken concurrently with TRST 30230.
Corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FR 33335 INTRODUCTION TO FRENCH THEATRE (ELR) (WIC) 3 Credit Hours
Evolution of French dramatic literature from the middle ages to the present. Readings of representative works with lectures analyses. In French.
Prerequisite: FR 33212.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

FR 33336 INTRODUCTION TO FRENCH POETRY (ELR) (WIC) 3 Credit Hours
Evolution of French poetry from the middle ages to the present. Readings of representative works with lectures analyses. In French.
Prerequisite: FR 33212.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

FR 33337 INTRODUCTION TO FRENCH LITERARY PROSE (ELR) (WIC) 3 Credit Hours
Masterpieces of French literary prose from the seventeenth century to the present. Readings of representative major works, lectures, analyses. In French. This course may be used to satisfy the WIC graduation requirement with approval of major department.
Prerequisite: FR 33212 or permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

FR 33421 FRENCH CIVILIZATION 3 Credit Hours
A survey of French history and culture from its beginnings to World War II. Taught in French.
Prerequisite: FR 33212.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43091 FRENCH SEMINAR 3 Credit Hours
(Repeatable for credit) (Slashed with FR 53091) Topic to be announced.
Prerequisite: One course from FR 33335 or FR 33336 or FR 33337.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 43093 VARIABLE TITLE WORKSHOP IN FRENCH 1-6 Credit Hours
(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of French studies.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

FR 43096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with French language, literature or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One French (FR) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

FR 43213 FRENCH COMPOSITION-ADVANCED 3 Credit Hours
(Slashed with FR 53213) French stylistics developed by analyses of literary extracts and practice in written expression.
Prerequisite: FR 33335 or FR 33336 or FR 33337 or FR 33421.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43216 CONTEMPORARY FRENCH CULTURE 3 Credit Hours
(Slashed with FR 53216) A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world.
Prerequisite: FR 33421; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43230 ADVANCED TRANSLATION PRACTICE: FRENCH (WIC) 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes French-to-English translation of selected texts in business, technology, medicine and law.
Prerequisite: FR 33231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

FR 43368 THE TWENTIETH-CENTURY FRENCH NOVEL 3 Credit Hours
Studies of selected 20th century French novels, with detailed study of the novel of one or several major writers or movements.
Prerequisite: 6 semester hours from the 33330-level.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43369 TWENTIETH-CENTURY FRENCH POETRY 3 Credit Hours
(Slashed with FR 53369) A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Albiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century.
Prerequisite: 6 semester hours from the FR 33330-level.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43370 THE TWENTIETH CENTURY FRENCH THEATRE 3 Credit Hours
(Slashed with FR 53370) Studies in French drama since 1900.
Prerequisite: 6 semester hours from the 33330-level.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43591 SEMINAR IN FRENCH CINEMA 3 Credit Hours
(Slashed with FR 53591)(Repeatable for credit) Topics for this course provide a history of French cinema from the early years of documentary and fantasy film through the 1930s, the Golden Age of French cinema, the French New Wave and contemporary trends in French and Francophone cinema. Students develop analytical and critical skills in "reading" film as an aesthetic work (matters of form, narrative and style) and a cultural artifact (social, economic and political functions).
Prerequisite: Two of the following courses: FR 33335 or FR 33336 or FR 33337 or FR 33421.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 53091 FRENCH SEMINAR 3 Credit Hours
(Repeatable for credit) (Slashed with FR 43091) Topic to be announced.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 53213 FRENCH COMPOSITION-ADVANCED 3 Credit Hours
French stylistics developed through analyses of literary extracts and practice in written expression.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53216 CONTEMPORARY FRENCH CULTURE 3 Credit Hours
(Slashed with FR 43216) A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53368 20TH-CENTURY FRENCH NOVEL 3 Credit Hours
Study of selected 20th-century French novels, with emphasis on one or several major writers or movements.
Prerequisite: 6 hours from 33330-level; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53369 20TH-CENTURY FRENCH POETRY 3 Credit Hours
(Slashed with FR 43369) A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Alpiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53370 20TH-CENTURY FRENCH THEATRE 3 Credit Hours
(Slashed with FR 43370) Studies in French drama since 1900.
Prerequisite: 6 hours from 33330-level; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53591 SEMINAR IN FRENCH CINEMA 3 Credit Hours
(Slashed with FR 43591)(Repeatable for credit) Topics for this course provide a history of French cinema from the early years of documentary and fantasy film through the 1930s, the Golden Age of French cinema, the French New Wave and contemporary trends in French and Francophone cinema. Students develop analytical and critical skills in "reading" film as an aesthetic work (matters of form, narrative and style) and a cultural artifact (social, economic and political functions).
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 63010 THE PRACTICE OF FRENCH TRANSLATION 2 Credit Hours
Students apply linguistic and communication science concepts to case studies of language mediation.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

FR 63091 SEMINAR IN FRENCH TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized translation projects currently of concern in the translation industry across the French-speaking world. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: FR 63010 and TRST 60010; graduate studies.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 63093 VARIABLE TITLE WORKSHOP IN FRENCH 1-6 Credit Hours
(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of French studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

FR 63098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with French language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

FR 63199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

FR 63240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into French will also be emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 63250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 63251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 63299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: FR 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

FR 63979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

German (GER)

GER 11201 ELEMENTARY GERMAN I 4 Credit Hours
An introduction to the German language in the context of the cultures of German-speaking lands.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GER 11202 ELEMENTARY GERMAN II 4 Credit Hours
A continuation of the introduction to the German language in the context of the cultures of German-speaking lands.
Prerequisite: GER 11201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GER 21201 INTERMEDIATE GERMAN I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: GER 11202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GER 21202 INTERMEDIATE GERMAN II 3 Credit Hours
Continuation of GER 21201.
Prerequisite: GER 21201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GER 31095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced in schedule of classes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GER 31201 INTENSIVE GERMAN GRAMMAR 3 Credit Hours
A systematic approach to German grammar and syntax.
Prerequisite: GER 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31211 GERMAN COMPOSITION AND CONVERSATION 3 Credit Hours
Grammar review and practice in writing and speaking German.
Prerequisite: GER 21202; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31215 GERMAN PHONETICS AND DICTION 3 Credit Hours
Study of the German sound system with emphasis on pronunciation and intonation. Reading and performance of a series of skits and short plays.
Prerequisite: GER 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31231 TRANSLATION PRACTICE: GERMAN 1 Credit Hour
Translation practice with German texts using principles and techniques learned in the lecture class.
Corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

GER 31240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: GERMAN 3 Credit Hours
Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings.
Prerequisite: GER 31211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31303 INTRODUCTION TO GERMAN LITERATURE 3 Credit Hours
Introduction to German literature and textual analysis.
Prerequisite: GER 21202 and GER 31201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31421 GERMAN CIVILIZATION 3 Credit Hours
A survey of German history and intellectual life to 1918; taught in German.
Prerequisite: Six hours upper division german courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) (Slashed with GER 51095) Topic announced in schedule of classes.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

GER 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with German language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One German (GER) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

GER 41211 ADVANCED GERMAN COMPOSITION AND CONVERSATION 3 Credit Hours
Advanced practice in speaking and writing German.
Prerequisite: GER 31211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41216 CONTEMPORARY GERMAN CULTURE (ELR) (WIC) 3 Credit Hours
(Slashed with GER 51216) A study of selected sociological, political, cultural and economic issues in contemporary German- speaking countries using readings, films and legal documents as the basis for discussions. Taught in German.
Prerequisite: Six hours of upper division german courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GER 41230 ADVANCED TRANSLATION PRACTICE: GERMAN (ELR) (WIC) 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes German-to-English translation of selected texts in business, technology, medicine and law.
Prerequisite: GER 31231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GER 41240 BUSINESS AND SPECIAL TEXTS: GERMAN 3 Credit Hours
Survey of the typical text types of business in the German culture and language. Practice sessions focus on reading and understanding specialized texts, and on the translation and composition of selected special texts in German.
Prerequisite: GER 31211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41323 GERMAN FAIRY TALES 3 Credit Hours
(Slashed with GER 51323) An investigation in German fairy tales, from the Brothers Grimm to the literary fairy tales of later German authors.
Prerequisite: GER 31201 and GER 31211; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41324 GERMAN LITERATURE FOR CHILDREN AND ADOLESCENTS 3 Credit Hours
(Slashed with GER 51324) An investigation into German literature for children and adolescents from the Middle Ages to modernity.
Prerequisite: GER 31201 and GER 31211; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41330 TWENTIETH-CENTURY GERMAN AUTHORS (ELR) (WIC) 3 Credit Hours
(Slashed with GER 51330) A survey of the major movements and authors of the twentieth century.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GER 41334 THE GERMAN NOVELLA 3 Credit Hours
(Slashed with GER 51334) Development of the German novella from the eighteenth century to the present. Readings of major works lectures analyses taught in German.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41340 HISTORY OF GERMAN LITERATURE TO 1750 3 Credit Hours
A history of the development of German literature from the Germanic tribes through the Age of Enlightenment (the first half of the eighteenth century).
Prerequisite: GER 31303 and 31421.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41341 HISTORY OF GERMAN LITERATURE 1750 TO THE PRESENT 3 Credit Hours
A history of the development of German literature from the Age of Sensibility (the second half of the eighteenth century) to the present.
Prerequisite: GER 31303 and 31421.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41399 RESEARCH PROJECT IN GERMAN LITERATURE (ELR) 3 Credit Hours
(Repeatable for credit) Thesis or other independent study.
Prerequisite: 6 hours at the 40000-level.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

GER 41731 SURVEY OF GERMAN CINEMA 3 Credit Hours
(Slashed with GER 51731) A survey of major contributions to the German cinema from the beginnings to the present; taught in German.
Prerequisite: Six hours of upper division german courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) (Slashed with GER 41095) Topic announced in schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

GER 51096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with GER 41096) Independent investigation of problems in German language or literature. Permission of the department chair required.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

GER 51212 STYLISTICS 3 Credit Hours
Development of written German style through selected readings, textual analysis and stylistic exercises.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51216 CONTEMPORARY GERMAN CULTURE 3 Credit Hours
(Slashed with GER 41216) A study of selected sociological, political, cultural and economic issues in contemporary German-speaking countries, using readings, films and legal documents as the basis for discussion. Taught in German.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51323 GERMAN FAIRY TALES 3 Credit Hours
(Slashed with GER 41323) An investigation into German fairy tales, from the Brothers Grimm to the literary fairy tales of later German authors.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51324 GERMAN LITERATURE FOR CHILDREN AND ADOLESCENTS 3 Credit Hours
(Slashed with GER 41324) An investigation into German literature for children and adolescents from the Middle Ages to modernity.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51330 20TH-CENTURY GERMAN AUTHORS 3 Credit Hours
(Slashed with GER 41330) A survey of the major movements and authors of the twentieth century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51334 THE GERMAN NOVELLA 3 Credit Hours
(Slashed with GER 41334) Development of the German novella from the 18th century to the present. Readings of major works, lectures, analyses; taught in German.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51340 HISTORY OF GERMAN LITERATURE TO 1750 3 Credit Hours
A history of the development of German literature from the Germanic tribes through the Age of Enlightenment (the first half of the eighteenth century).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51341 HISTORY OF GERMAN LITERATURE 1750 TO THE PRESENT 3 Credit Hours
A history of the development of German literature from the Age of Sensibility (the second half of the eighteenth century) to the present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51731 SURVEY OF GERMAN CINEMA 3 Credit Hours
(Slashed with GER 41731) A survey of major contributions to the German cinema from the beginnings to the present; taught in German.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61010 THE PRACTICE OF GERMAN TRANSLATION 2 Credit Hours
Students apply linguistic and communication science concepts to case studies of language mediation.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

GER 61091 SEMINAR IN GERMAN TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized German translation projects currently of concern in the translation industry. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: GER 61010 and TRST 60010, graduate studies.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GER 61199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GER 61240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into German will also be emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: GER 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GER 61398 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with German language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

GER 61901 READING GERMAN FOR GRADUATE STUDENTS 4 Credit Hours
Introduction to the fundamentals of German grammar for graduate students. Practice in reading and translation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

GER 61902 READING GERMAN FOR GRADUATE STUDENTS 3 Credit Hours
Continued practice in reading and translation. Independent study of scholarly texts in the student's own discipline.
Prerequisite: GER 61901; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text,the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

Greek (GRE)

GRE 14201 ELEMENTARY CLASSICAL GREEK I 4 Credit Hours
An introduction to the classical Greek language in the context of ancient Greek culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GRE 14202 ELEMENTARY CLASSICAL GREEK II 4 Credit Hours
A continuation of the introduction to the classical Greek language in the context of ancient Greek culture.
Prerequisite: GRE 14201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GRE 24201 INTERMEDIATE CLASSICAL GREEK I: READINGS 3 Credit Hours
Excerpts from classical Greek literature with emphasis on translation into English.
Prerequisite: GRE 14202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GRE 24202 INTERMEDIATE CLASSICAL GREEK II: READINGS 3 Credit Hours
Excerpts from classical Greek literature with emphasis on both prose (e.g. Plato) and poetry (e.g. Euripides).
Prerequisite: GRE 24201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GRE 34370 PLATO:APOLOGY AND PHAEDO 3 Credit Hours
Readings in the original Greek of Plato's dialogues centering on the trial, conviction and death of Socrates.
Prerequisite: GRE 24202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GRE 34371 HOMER 3 Credit Hours
Selections from the Iliad or Odyssey studied from a literary and grammatical standpoint.
Prerequisite: GRE 24202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GRE 34372 ADVANCED READINGS IN GREEK 3 Credit Hours
Readings in the original Greek of authors in poetry and prose studied from a literary and grammatical standpoint.
Prerequisite: GRE 24202; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GRE 44096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Investigation of problems in Greek literature or linguistics.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

Hebrew (HEBR)

HEBR 12101 ELEMENTARY HEBREW I 4 Credit Hours
An introduction to the modern Hebrew language in the context of Israeli culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

HEBR 12102 ELEMENTARY HEBREW II 4 Credit Hours
A continuation of the introduction to the modern Hebrew language in the context of Israeli culture.
Prerequisite: HEBR 12101.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

HEBR 22104 INTERMEDIATE HEBREW I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: HEBR 12102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEBR 22105 INTERMEDIATE HEBREW II 3 Credit Hours
Continuation of HEBR 22104.
Prerequisite: HEBR 22104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Heritage Languages (HRTG)

HRTG 10101 ELEMENTARY I (VARIABLE LANGUAGE) 4 Credit Hours
An introduction to a heritage language in the context of the culture of its speakers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

HRTG 20202 INTERMEDIATE II (VARIABLE LANGUAGE) 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRTG 30095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced in schedule of classes.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

Italian (ITAL)

ITAL 15201 ELEMENTARY ITALIAN I 4 Credit Hours
An introduction to the Italian language in the context of Italian culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ITAL 15202 ELEMENTARY ITALIAN II 4 Credit Hours
A continuation of the introduction to the Italian language in the context of Italian culture.
Prerequisite: ITAL 15201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ITAL 15204 BASIC CONVERSATIONAL ITALIAN I 2 Credit Hours
Exposure to basic grammar and to current Italian useful to travelers. Not applicable to fulfillment of foreign language requirement.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ITAL 25201 INTERMEDIATE ITALIAN I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: ITAL 15202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ITAL 25202 INTERMEDIATE ITALIAN II 3 Credit Hours
Continuation of ITAL 25201.
Prerequisite: ITAL 25201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ITAL 35211 COMPOSITION AND CONVERSATION: CONTEMPORARY ITALIAN SOCIETY 3 Credit Hours
This course is designed to develop acquisition of written and oral proficiency through the study and practice of written and spoken Italian in the context of contemporary societal issues.
Prerequisite: ITAL 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35213 COMPOSITION AND CONVERSATION: MEDIA AND INFORMATION IN ITALY 3 Credit Hours
This course is designed to develop acquisition of written and oral proficiency through the sturdy and practice of written and spoken Italian in the context of contemporary Italian media and information-gathering.
Prerequisite: ITAL 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35323 GRAMMAR OF FANTASY: THE LITERATURE AND TEACHINGS OF GIANNI RODARI 3 Credit Hours
This course, conducted in Italian, examines the literature and teachings of Gianni Rodari, renowned author of Italian children's literature. Readings explore Rodari's nursery rhymes, fables, his novel-length children's fairy tale and the essay collection that provides the foundation of his educational theory based on creativity and children's happiness.
Prerequisite: ITAL 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35331 EARLY ITALIAN LITERATURE 3 Credit Hours
A survey of Italian literature from its medieval origins through the Baroque period.
Prerequisite: ITAL 35211 or ITAL 35213.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35332 RECENT ITALIAN LITERATURE (ELR) 3 Credit Hours
A survey of Italian literature from the Enlightenment through the 1900s and into the 21st century.
Prerequisite: ITAL 35211 or ITAL 35213.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ITAL 35340 BOCCACCIO'S DECAMERON IN TRANSLATION 3 Credit Hours
The Decameron, one of the most entertaining, beloved and imitated prose works ever written, is an accurate reflection of fourteenth-century life in Italy. Like Dante's Divine Comedy, this human comedy was written not only to delight, but also to instruct by exploring both our spiritual and our natural environment. Giovanni Boccaccio (1313-1375), considered by some typically medieval and by others one of the first truly modern literary figures to emerge from the darkness of the Middle Ages into the light of the Renaissance, shows himself, as author of The Decameron, to be both a passionate believer and a passionate critic as he reconstructs society, destroyed by the Black Plague, through the perfection of his 100-fold narrative. Boccaccio's Decameron, of course, generated a flourishing early modern tradition of proto-novelistic short-story collections (think of Marguerite de Navarre and Cervantes), but also provided substantial material for the nascent dramatic tradition (from Machiavelli's Mandragola to Shakespeare's All's Well). His biographical collection, Of Famous Women, was an indispensable source and model for the wide-spread debates on the status of women. His Genealogy of the Gentile Gods was a staple of the Renaissance mythographical tradition. This course is taught in English.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35421 ITALIAN CIVILIZATION 3 Credit Hours
Lectures, readings, oral and written reports on outstanding features of the culture and civilization of Italy.
Prerequisite: ITAL 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35540 DANTE'S DIVINE COMEDY IN TRANSLATION 3 Credit Hours
This course is an introduction to Dante and the history of Florence through critical reading and discussion of the Divine Comedy and selected minor works: Vita Nova, Convivio, De vulgari eloquentia and the Epistle to Cangrande. Close readings of the Inferno, Purgatory and Paradise will explore the literary, political, theological and philosophical concerns of the poem in order to understand Dante's work within the intellectual and social context of the Middle Ages. Some of the central topics of the course will include Dante's relationship to Florence, his use of classical, Christian and mythological personages, symbols and references; his views on the papacy and the empire, his relationship to the people he encounters and the unique aspects of his vision of the afterlife. In addition, we will focus on a variety of thematic concerns including Dante's understanding of poetry, grace, love and divine justice. Though primarily taught through a combination of lecture and discussion, the course will also focus on the use of art, film, music, performance, digital media and other interdisciplinary methods that have been used to interpret and further our understanding the Divine Comedy and its lasting fascination and influence. The course and the readings will be offered in English.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35597 COLLOQUIUM 3 Credit Hours
(Repeatable for credit)Variable topic course deals with single literary theme in Italian literature or a single author. May be offered in Italian or in English translation.
Prerequisite: Permission.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

ITAL 45093 VARIABLE TITLE WORKSHOP IN ITALIAN 1-6 Credit Hours
(Repeatable for credit)Workshops individually designed to provide instruction and training in specific areas of Italian studies.
Prerequisite: Departmental permission.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ITAL 45095 SPECIAL TOPICS IN ITALIAN 3 Credit Hours
Designed to instruct students on a specific topic in the area of Italian studies.
Prerequisite: ITAL 35211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Italian language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Italian (ITAL) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ITAL 45212 ADVANCED ITALIAN CONVERSATION 3 Credit Hours
Designed to develop students' ability to employ acquired grammar and vocabulary in conversation in Italian. Students will elaborate on cultural and social aspects of Italy presented in class and actively participate in class discussions.
Prerequisite: ITAL 35211 or 35213.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Japanese (JAPN)

JAPN 15101 ELEMENTARY JAPANESE I 4 Credit Hours
Introduction to modern standard Japanese in the context of Japanese culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

JAPN 15102 ELEMENTARY JAPANESE II 4 Credit Hours
A continuation of the introduction to modern standard Japanese in the context of Japanese culture.
Prerequisite: JAPN 15101.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

JAPN 25201 INTERMEDIATE JAPANESE I 4 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: Minimum C- grade in JAPN 15102.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

JAPN 25202 INTERMEDIATE JAPANESE II 4 Credit Hours
Continuation of JAPN 25201.
Prerequisite: JAPN 25201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

JAPN 30095 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)Topic to be announced in schedule of classes.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 35010 INTERMEDIATE READING 3 Credit Hours
The goal of this course is to achieve basic to intermediate competency with reading modern Japanese, develop reading strategies and comprehend and discuss the content of the readings. The course is conducted in both English and Japanese and consists of close, collaborative readings of texts. Students are required to give small presentations and complete weekly assignments and quizzes. There is also a midterm and final exam.
Prerequisite: JAPN 25201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 35101 INTENSIVE JAPANESE GRAMMAR 3 Credit Hours
A continuation of the study of modern standard Japanese grammar. Focus on passive, causative, passive-causative forms.
Prerequisite: JAPN 25202 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 35325 READINGS IN MODERN JAPANESE 3 Credit Hours
Close readings of contemporary Japanese topics such as technology, pop culture, food, geography, etc. Emphasizes reading skills, vocabulary, and kanji.
Pre/corequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 35326 ADVANCED READING 3 Credit Hours
This course is a continuation of JAPN 35010. The goal of this course is to achieve intermediate to advanced competency with reading modern Japanese, develop reading strategies and comprehend and discuss the content of the readings. The course is conducted in both English and Japanese and consists of close, collaborative readings of texts. Students are required to give small presentations and complete weekly assignments and quizzes. There is also a midterm and final exam.
Prerequisite: JAPN 35010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Japanese language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Japanese (JAPN) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

JAPN 45211 WRITING IN JAPANESE 3 Credit Hours
Advanced study of Japanese with emphasis on writing in different styles (essays, questionnaires, charts, emails, etc).
Pre/corequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45212 ORAL COMMUNICATION IN JAPANESE 3 Credit Hours
The class focuses on oral communication. Students practice expressing their opinions on familiar subjects and various topics related to Japanese culture through group discussion, interviews, role plays, and presentations. They learn different communication strategies and conversation styles from casual to formal.
Pre/corequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45301 BUSINESS JAPANESE 3 Credit Hours
Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.
Prerequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

JAPN 45411 VOICES FROM JAPAN 3 Credit Hours
Designed to further develop students' proficiency in speaking, listening, writing and reading comprehension. The textbook includes interviews with Japanese from various backgrounds.
Pre/corequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45421 JAPANESE CULTURE 3 Credit Hours
Explores key aspects of traditional and contemporary Japanese culture. Taught in English; no knowledge of Japanese necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45591 VARIABLE TOPIC SEMINAR IN JAPANESE 3 Credit Hours
(Repeatable for credit) Seminar in Japanese literature or culture; course may be repeated when content varies. Student should have completed at least 9 hours of upper division work in Japanese.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

JAPN 55301 BUSINESS JAPANESE 3 Credit Hours
Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 65010 THE PRACTICE OF JAPANESE TRANSLATION 2 Credit Hours
Provides an introduction to the translation of non-specialized, non-fiction Japanese texts, focusing on common problem areas, general translation strategies, and specific techniques for resolving problems.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

JAPN 65091 SEMINAR IN JAPANESE TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized Japanese translation projects currently of concern in the translation industry. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: JAPN 65010 and TRST 60010; and graduate studies.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

JAPN 65098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Japanese language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

JAPN 65240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treaties and essays.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 65250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 65251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 65979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

Latin (LAT)

LAT 16201 ELEMENTARY LATIN I 4 Credit Hours
An introduction to the classical Latin language in the context of ancient Roman culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

LAT 16202 ELEMENTARY LATIN II 4 Credit Hours
A continuation of the introduction to the classical Latin language in the context of ancient Roman culture.
Prerequisite: LAT 16201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

LAT 26201 INTERMEDIATE LATIN I: READINGS 3 Credit Hours
Excerpts from Latin literature with emphasis on translation into English.
Prerequisite: LAT 16202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

LAT 26202 INTERMEDIATE LATIN II: READINGS 3 Credit Hours
Excerpts from Latin literature with emphasis on both prose (e.g., Caesar, Cicero) and poetry (Vergil, Catullus).
Prerequisite: LAT 26201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

LAT 36172 ADVANCED READINGS IN LATIN 3 Credit Hours
Readings in the original Latin of prose and poetry authors studied from a literary and grammatical standpoint.
Prerequisite: LAT 26202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41214 LATIN EPIGRAPHY 3 Credit Hours
Study of ancient inscriptions (funerary, career, documentary, graffiti, etc.) preserved on any kind of durable material, with focus on cultural information necessary to understand the content and significance of the inscriptions under investigation.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41304 ROMAN HISTORIANS 3 Credit Hours
(Slashed with LAT 51304) Stylistics and cultural context of Roman historians. Readings from any of the following: Caesar, Livy, Suetonius, Tacitus.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41305 ROMAN COMEDY AND SATIRE 3 Credit Hours
Stylistics, history and cultural context of Roman comedy and satire. Readings from any of the following: Plautus, Terence, Horace, Juvenal, Persius, Martial.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41306 LATIN EPIC 3 Credit Hours
(Slashed with LAT 51306) Stylistics, history and cultural context of Latin epic poetry. Readings from any of the following: Vergil, Lucretius, Ovid, Lucan, Statius.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41307 LYRIC AND ELEGIAC POETRY 3 Credit Hours
(Slashed with LAT 51307) Stylistics, history and cultural context of Latin lyric and elegiac poetry. Readings from any of the following: Catullus, Horace, Propertius, Tibullus, Ovid.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41308 ORATORY AND LETTERS 3 Credit Hours
Stylistics, history and cultural context of Latin oratory and the Latin epistle. Readings from any of the following: Cicero, Seneca, Pliny.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 46095 SELECTED TOPICS IN LATIN 3 Credit Hours
(Repeatable for credit) Topic announced in the schedule of classes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 46096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Latin language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Latin (LAT) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

LAT 46211 LATIN PROSE COMPOSITION 3 Credit Hours
Analysis of prose models; writing of connected Latin prose with attention to the Latin idiom.
Prerequisite: LAT 36172.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 51304 ROMAN HISTORIANS 3 Credit Hours
(Slashed with LAT 41304) Stylistics and cultural context of Roman historians. Readings from any of the following: Caesar, Livy, Suetonius, Tacitus.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 51306 LATIN EPIC 3 Credit Hours
(Slashed with LAT 41306) Stylistics, history and cultural context of Latin epic. Readings from any of the following: Vergil, Ovid, Lucan, Lucretius, Statius.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 51307 LYRIC AND ELEGIAC POETRY 3 Credit Hours
(Slashed with LAT 41307) Stylistics, history and cultural context of Latin lyric and elegiac poetry. Readings from any of the following. Catullus, Horace, Propertius, Tibullus, Ovid.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 56095 SELECTED TOPICS IN LATIN 3 Credit Hours
(Repeatable for a maximum of 15 credit hours)Topic to be announced in semester schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 61001 RESEARCH AND WRITING 3 Credit Hours
Use of lexical tools, bibliographies and corpora specific to research in Classics and Latin. Conventions of scholarship in the discipline of Classics. To be taken in conjunction with a 50000 or 60000-level course in Latin literature.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 61214 LATIN EPIGRAPHY 3 Credit Hours
Study of ancient inscriptions (funerary, career, documentary, graffiti, etc.) preserved on any kind of durable material, with focus on cultural information necessary to understand the content and significance of the inscriptions under investigation.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 61305 ROMAN COMEDY AND SATIRE 3 Credit Hours
Stylistics, history and cultural context of Roman comedy and satire. Readings from any of the following: Plautus, Terence, Horace, Juvenal, Persius, Martial.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 61308 ORATORY AND LETTERS 3 Credit Hours
Stylistics, history and cultural context of Latin oratory and the Latin epistle. Readings from any of the following: Cicero, Seneca, Pliny.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 66199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LAT 66211 ADVANCED PROSE COMPOSITION 3 Credit Hours
More thorough training in composition where need is established.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 66299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: LAT 66199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LAT 66391 SEMINAR IN CLASSICAL LITERATURE 2,3 Credit Hours
(Repeatable for credit)Topics to be announced.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP

LAT 66398 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Latin language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

Modern and Classical Language Studies (MCLS)

MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS 3 Credit Hours
Prepares students for successful study of a foreign language; includes introduction to basic grammatical concepts such as use of verb tenses, personal pronouns, etc., as well as strategies for learning a foreign language efficiently.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 10095 SPECIAL TOPICS IN ELEMENTARY FOREIGN LANGUAGE STUDY 1-3 Credit Hours
(Repeatable for credit) Study of a foreign language at the elementary level (Elementary I or II) or intermediate level (Intermediate I or II) as determined appropriate by the department. No proficiency needed for work at the Elementary I level; proficiency equivalent of Elementary I for work at the Elementary II level, at Elementary II for the Intermediate I level, and at Intermediate I for the Intermediate II level.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MCLS 14421 INTRODUCTION TO YIDDISH LANGUAGE AND CULTURE 3 Credit Hours
This course is an introduction to the Yiddish language and the culture of Eastern European Jewry. The objectives of the course are twofold. The first is linguistic. Students should be able to read and write basic Yiddish and understand the fundamentals of Yiddish grammar. The second important objective of this course is to offer students an introduction to the richness of Yiddish culture of the past two centuries. This component of the course will include lectures and readings in English, films (documentary and dramatic), poetry, short fiction along with folk tales in English translation and the singing of Yiddish folk songs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 20001 GLOBAL LITERACY AND CULTURAL AWARENESS (KADL) 3 Credit Hours
Introduction to dimensions of cultural identity and parameters of cultural expression, with a focus on fostering cultural awareness skills. By exploring the ways in which culture shapes us, students gain a better understanding of the dynamics shaping their world, the world of others, and their respective places in it. Discussion of real-world critical incidents, authentic cultural ethnographies, and case studies provide students with concrete examples and contexts to solve problems linked to encounters with persons of different linguistic and cultural backgrounds.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Additional

MCLS 20089 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) A study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. This course includes some language skill development content during the international experience, varying as appropriate on a case by case basis.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES 3 Credit Hours
(Repeatable for credit) In-depth study of the interaction between two or more cultures of the world, focusing on the impact of linguistic and other cultural differences. Topics will vary.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG) 3 Credit Hours
This course examines how issues of diversity have shaped German culture and traces the country's transformation into a postnational, multicultural society. Taught in English; knowledge of German not necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

MCLS 21420 WOMEN OF ARAB SOCIETIES 3 Credit Hours
This course will consider questions and lead to fruitful discussions about the changing roles and representation of women in contemporary Arab societies. It will highlight the social forces behind Arab women's status in society. It will also enable a better understanding of how Arab women are perceived in local, regional, and global contexts. The course is taught in English, does not presume prior knowledge in Arabic, and is open to all students in any program.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 22217 DIVERSITY IN TODAY'S RUSSIA (DIVG) 3 Credit Hours
This course examines how issues of diversity have shaped Russian culture and traces Russia's attempts at transition to a postnational, multicultural society. Taught in English; knowledge of Russian not necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

MCLS 28403 HISPANICS IN THE UNITED STATES 3 Credit Hours
An introduction to historic and cultural aspects of Latino experiences in the United States using a comparative approach focusing on Mexicans, Puerto Ricans, Cubans, Central Americans and other immigrants from other Latin American countries, living in the United States. The course is taught in English.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG) 3 Credit Hours
An introduction to various aspects of contemporary Latin American societies and cultures. Taught in English; knowledge of a foreign language is not necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

MCLS 30089 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) A Kent State faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. This course includes some language skill development content during the international experience, varying as appropriate on a case by case basis.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MCLS 30096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual research on a topic dealing with modern and classical language topics carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

MCLS 30420 FOREIGN LANGUAGES AND CULTURE STUDIES 3 Credit Hours
Examines the anthropological, linguistic and cultural dimensions involved in language interactions. Students acquire the skills necessary to analyze language and culture “in action” from verbal and non-verbal perspectives, and to identify and reflect on the distinctive viewpoints of other cultures and speakers of other languages. Interactive lectures, discussions and application activities build on students' current linguistic and cultural competence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 30660 ORIENTATION TO SECOND LANGUAGE PEDAGOGY 3 Credit Hours
Theories of human development and learning, second language acquisition research and second language methodology form the basis for classroom practices. Peer-teaching and 30 hours of field experience required.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 39597 INTRADEPARTMENTAL COLLOQUIUM 1-4 Credit Hours
(Repeatable for credit)Permits students to explore areas of special interest not usually covered in standard departmental courses, e.g. movies and literature, women in literature.
Prerequisite: None.
Schedule Type: Colloquium
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MCLS 40093 VARIABLE TITLE WORKSHOP IN MODERN AND CLASSICAL LANGUAGE STUDIES 1-6 Credit Hours
(Repeatable for credit)Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies.
Prerequisite: Departmental special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MCLS 40095 SELECTED TOPICS 1-3 Credit Hours
(Repeatable for credit when topic varies) Topic to be announced in the schedule of classes.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MCLS 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual research on a topic dealing with modern and classical language topics carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

MCLS 40510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with CS 40510)(Slashed with CS 50510, CS 70510, MCLS 50510 and MCLS 70510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 40525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
Foreign language teaching as a profession and the teacher as disciplined investigator. The final seminar of four it is conducted during the student teaching semester with emphasis on collaborative and individual classroom problem solving.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 40654 TECHNOLOGY AND SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Slashed with MCLS 50654) During this course, students explore the use of current technology, its implementation in the classroom and its integration with second language skills. This course is designed for future teachers or any student interested in technology and second language acquisition.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 40660 METHODS OF TEACHING FOREIGN LANGUAGE 3 Credit Hours
Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels. Peer-teaching and 30 hours of field experience required.
Prerequisite: MCLS 30660; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 40692 STUDENT TEACHING OF A SECOND LANGUAGE (ELR) 3-9 Credit Hours
(Repeatable for credit) Supervised practicum in the teaching of a second language, grades K-12.
Prerequisite: MCLS 30660 and MCLS 40660; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MCLS 50093 VARIABLE TITLE WORKSHOP IN MODERN AND CLASSICAL LANGUAGE STUDIES 1-6 Credit Hours
(Repeatable for credit)Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MCLS 50095 SELECTED TOPICS 1-3 Credit Hours
(Repeatable for credit when topic varies)Topic to be announced in the schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MCLS 50510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with CS 50510)(Slashed with CS 40510, CS 70510, MCLS 40510 and MCLS 70510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 50654 TECHNOLOGY AND SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Slashed with MCLS 40654) During this course, students explore the use of current technology, its implementation in the classroom and its integration with second language skills. This course is designed for future teachers or any student interested in technology and second language acquisition.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 50660 METHODS OF TEACHING FOREIGN LANGUAGES 3 Credit Hours
Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels. Peer teaching 30 hours of field experience and curriculum guide required.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60094 COLLEGE TEACHING OF FOREIGN LANGUAGES 1 Credit Hour
(Repeatable for credit)An introduction to current principles and issues in the teaching of foreign languages at the college elementary and intermediate levels. Required of departmental teaching assistants.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

MCLS 60098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic related to modern and classical language studies carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

MCLS 60330 APPROACHES TO LITERATURE AND CULTURE 3 Credit Hours
Introduction to the major critical theories used for the analysis of literature and culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60601 LINGUISTICS FOR THE LANGUAGE PROFESSIONS 3 Credit Hours
(Cross-listed with ENG 63040) Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60622 TEACHING LITERATURE AND CULTURE 3 Credit Hours
(Cross-listed with ENG 63038) Students explore theories of literature and culture teaching as well as strategies for teaching literature and culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60623 SOCIOCULTURAL THEORY AND FOREIGN AND SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Cross-listed with ENG 63048) The foundations of sociocultural theory and its applications to the second and foreign language classroom.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60624 HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING 3 Credit Hours
(Cross-listed with ENG 63047) Theory and practice in language education of heritage language speakers. Ethnic, minority, ancestral, and community languages and language practices will be explored with implications for second and additional language learning in English, foreign language, bilingual education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60625 SOCIOLINGUISTICS 3 Credit Hours
(Cross-listed with ENG 63034)(Slashed with ENG 73034) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60661 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Slashed with ENG 63033 and ENG 73033) This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60663 SECOND LANGUAGE CURRICULUM AND ASSESSMENT 3 Credit Hours
(Cross-listed with ENG 63039) Students study second language curriculum and assessment design and current issues, including oral proficiency testing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60664 SECOND LANGUAGE READING 3 Credit Hours
(Cross-listed with ENG 63044) This course addresses a wide variety of topics related to second language reading, including theoretical perspectives, the process of learning to read, models of how reading happens, comprehension, fluency, discourse structures, strategy use, and vocabulary acquisition. Teaching issues related to second language reading will also be addressed directly, namely assessment and curriculum building.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60665 SECOND LANGUAGE WRITING 3 Credit Hours
(Cross-listed with ENG 63043) Theory and practice in teaching second language writing. Topics will include current and historic approaches to second language writing, approaches to tutoring international students in writing centers, teacher and peer response, error correction and technology in second language writing instruction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 63049 SECOND LANGUAGE RESEARCH METHODS 3 Credit Hours
(Cross-listed with ENG 63049) This course provides students with skills for reading, interpreting and conducting research studies investigating second/foreign language teaching, learning and/or use. Students learn about quantitative and qualitative research methods commonly used in second language research. Students also conduct a research project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 70510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with CS 70510)(Slashed with CS 40510, CS 50510, MCLS 40510 and MCLS 50510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Russian (RUSS)

RUSS 12201 ELEMENTARY RUSSIAN I 4 Credit Hours
An introduction to the Russian language in the context of Russian cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

RUSS 12202 ELEMENTARY RUSSIAN II 4 Credit Hours
A continuation of the introduction to the Russian language in the context of Russian cultures.
Prerequisite: RUSS 12201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

RUSS 22201 INTERMEDIATE RUSSIAN I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: RUSS 12202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 22202 INTERMEDIATE RUSSIAN II 3 Credit Hours
Continuation of RUSS 22201 in the development of speaking, listening, reading and writing in a variety of Russian cultural contexts.
Prerequisite: RUSS 22201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 22215 RUSSIAN PHONETICS AND DICTION 3 Credit Hours
Study of the Russian sound system with special emphasis on pronunciation and intonation. Application of the international phonetic alphabet to Russian.
Prerequisite: RUSS 12202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32201 INTENSIVE RUSSIAN GRAMMAR 3 Credit Hours
A systematic approach to Russian grammar and syntax.
Prerequisite: RUSS 22202 .
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32211 COMPOSITION AND CONVERSATION 3 Credit Hours
Introduction to advanced oral and written discourse strategies in Russian.
Prerequisite: RUSS 22202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32231 TRANSLATION PRACTICE: RUSSIAN 1 Credit Hour
Translation practice with Russian texts using principles and techniques learned in the lecture class.
Prerequisite: RUSS 22202.
Pre/corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RUSS 32240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: RUSSIAN 3 Credit Hours
Introduction to the special vocabulary of business and other special subject areas. Course introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations and oral presentations in business and other related settings.
Prerequisite: RUSS 22202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32303 MODERN WRITERS (ELR) (WIC) 3 Credit Hours
Reading and analysis of modern Russian plays and stories.
Prerequisite: RUSS 22202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

RUSS 32320 PROSE OF VLADIMIR NABOKOV 3 Credit Hours
A study of selected prose works of Russian-American author Vladimir Nabokov. This course is taught in English and is open to students in any program.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32421 RUSSIAN CIVILIZATION (ELR) (WIC) 3 Credit Hours
A survey of Russian cultural history and intellectual life in the pre-Soviet, Soviet, and post-Soviet periods.
Prerequisite: RUSS 32201 or RUSS 32211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

RUSS 32501 RUSSIAN LITERATURE IN ENGLISH 3 Credit Hours
Survey of major authors, movements and works of Russian literature from the early nineteenth century to present in English translation. No knowledge of Russian is required.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 42095 SPECIAL TOPICS IN RUSSIAN LANGUAGE AND LITERATURES 1-4 Credit Hours
(Repeatable for credit) Topic varies per course offering; to be announced in schedule of classes.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

RUSS 42096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Russian language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Russian (RUSS) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

RUSS 42211 ADVANCED COMPOSITION AND CONVERSATION 3 Credit Hours
(Slashed with RUSS 52211) Advanced practice in written and oral expression in Russian through engagement with visual media.
Prerequisite: RUSS 32211 or RUSS 32201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 42216 RUSSIAN POPULAR CULTURE 3 Credit Hours
This course offers students a chance to familiarize themselves with prominent figures in Russian culture of the post-Soviet period, including journalists, actors, musicians, athletes, film directors, and other cultural personalities. The students will engage in thinking and communicating across a range of disciplines, such as history, literature, sociology, and anthropology. The course focuses on students' advanced oral and written production. Learners will acquire cultural knowledge and analyze developments in post-Soviet Russian culture while expanding their vocabulary and structures.
Prerequisite: RUSS 32201 or RUSS 32211.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

RUSS 42230 ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC) 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes Russian-to-English translation of selected texts in business, technology, medicine and law.
Prerequisite: RUSS 32231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

RUSS 42240 BUSINESS AND SPECIAL TEXTS: RUSSIAN 3 Credit Hours
Survey of typical business-related text types in Russian. Focus on reading and understanding specialized business-related texts and on the translation and composition of selected special texts in Russian.
Prerequisite: Any 30000-level Russian course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 42351 SURVEY OF RUSSIAN AND SOVIET LITERATURE 3 Credit Hours
(Slashed with RUSS 52351) Introduces students to the major movements and authors of Russian, Soviet and post-Soviet literature, from the late eighteenth century to today.
Prerequisite: 3 credit hours of upper-division Russian courses (RUSS 30000 or 40000 levels).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 52211 ADVANCED COMPOSITION AND CONVERSATION 3 Credit Hours
(Slashed with RUSS 42211) Advanced practice in written and oral expression in Russian.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 52351 SURVEY OF RUSSIAN AND SOVIET LITERATURE 3 Credit Hours
(Slashed with RUSS 42351) Introduces students to the major movements, authors and works of Russian, Soviet and post-Soviet literature, beginning in the late eighteenth century and ending in the early twenty first century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 62010 THE PRACTICE OF RUSSIAN TRANSLATION 2 Credit Hours
Students apply linguistic and communication science concepts to case studies of language mediation.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RUSS 62091 SEMINAR IN RUSSIAN TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized Russian translation projects currently of concern in the translation industry. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: RUSS 62010 and TRST 60010; and graduate studies.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

RUSS 62098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Russian language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

RUSS 62240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treaties and essays. Translation into Russian will also be emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 62250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 62251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resource for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 62979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students are responsible for a major translation and a terminology glossary, as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

Spanish (SPAN)

SPAN 18201 ELEMENTARY SPANISH I 4 Credit Hours
An introduction to the Spanish language in the context of Hispanic cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

SPAN 18202 ELEMENTARY SPANISH II 4 Credit Hours
A continuation of the introduction to the Spanish language in the context of Hispanic cultures.
Prerequisite: SPAN 18201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

SPAN 18489 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) This course is a faculty-led experience in a Spanish-speaking country that involves both in-class and out-of-class experiences. Students are placed into an appropriate level language course according to their Common European Framework of References for Language Proficiency (CEFR) score. During class, students study grammar, vocabulary and culture and engage in reading, writing, listening and speaking activities as in a traditional language class. Outside of class, students tour cultural sites and participate in various cultural activities.
Prerequisite: SPAN 18201.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

SPAN 28201 INTERMEDIATE SPANISH I 3 Credit Hours
A continuation of the development of listening, speaking, reading and writing skills using a variety of material on the Spanish language in the context of Hispanic cultures.
Prerequisite: SPAN 18202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

SPAN 28202 INTERMEDIATE SPANISH II 3 Credit Hours
A continuation of the development of listening, speaking, reading and writing skills using a variety of material on the Spanish language in the context of Hispanic cultures and specific areas of study like culture, business, justice, etc.
Prerequisite: SPAN 28201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

SPAN 28489 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) This course is a faculty-led experience in a Spanish-speaking country that involves both in-class and out-of-class experiences. Students are placed into an appropriate level language course according to their Common European Framework of References for Language Proficiency (CEFR) score. During class, students study grammar, vocabulary and culture and engage in reading, writing, listening and speaking activities as in a traditional language class. Outside of class, students tour cultural sites and participate in various cultural activities.
Prerequisite: SPAN 18202.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

SPAN 38211 SPANISH GRAMMAR AND COMPOSITION 3 Credit Hours
This course focuses on progressively increasing grammatical competence to communicate in writing through the development of skills to describe, narrate, expose and create arguments on general interest, and academic topics.
Prerequisite: SPAN 28202 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38213 SPANISH READING AND CONVERSATION 3 Credit Hours
This course will provide continuous opportunities to practice Spanish based on selected non-literary and literary readings (such as poems, essays, short stories, theater, and short novels) and film. The readings and films cover diverse topics, such as art, politics, history, culture, and literature. We will concentrate on building vocabulary, reading skills, speaking and listening skills, reviewing important grammatical structures, and practicing the analysis of literature, culture, and current events.
Prerequisite: SPAN 28202 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38215 SPANISH PHONETICS AND DICTION 3 Credit Hours
Study of the modern Spanish language sounds and practical application through extensive interactive listening and speaking activities addressing various Hispanic culture.
Prerequisite: SPAN 28202 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38231 TRANSLATION PRACTICE: SPANISH 1 Credit Hour
Translation practice with Spanish texts using principles and techniques learned in the lecture class. To be taken concurrently with TRST 30230.
Corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPAN 38240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: SPANISH 3 Credit Hours
This course introduces students to concepts, specialized vocabulary, and social-, cultural- and economic- considerations when engaging in interactions with Spanish speakers in business and other professional settings. Some of the business topics include globalization, types of businesses and industries, organizational structures, leadership, management, personnel, banking and finance, accounting, economics, marketing and advertising, the business office, technology, ethics, and business laws. Topics in cross-cultural communication include etiquette and socio-pragmatic conventions, solidarity and deference, directness and indirectness, language variation, non-verbal communication, personalism, individualism, cultural priorities, management styles, establishing trust, and equality and equity in the workplace. While students will engage in background reading on the business and cultural topics, in this first of the two-course Business Spanish series, emphasis will be on developing interpersonal-, presentational- and interpretive communication skills mainly in the oral and aural modalities. Course materials, activities and assessments will be carried out within the framework of World-Readiness Standards for Learning Languages (National Standards Collaborative Board) and the "5 C's": Communication, Cultures, Connections, Comparisons and Communities.
Prerequisite: SPAN 28202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38291 SEMINAR IN SPANISH FOR THE PROFESSIONS 1-4 Credit Hours
(Repeatable for credit) A variable topics course designed to advance students' proficiency in Spanish in specialized areas such as business, communication, education, healthcare, hospitality, sciences, international relations, human services, advertising, journalism, technology and other fields in which there is currently a high demand for bilingual English-Spanish speakers. The class conforms to the World Readiness Standards for Learning Languages: communication, comparisons, cultures, connections and communities; and aims to increase students' competency across all these dimensions. Course focuses on oral and written communication.
Prerequisite: SPAN 28202.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

SPAN 38303 MEDICAL SPANISH TRANSLATION AND INTERPRETING 3 Credit Hours
An introduction to medical translation and interpreting, also known as healthcare translation and interpreting. Sociolinguistic, legal, and pragmatic dimensions of translation, cross-cultural health literacy, intercultural competency, text analysis, common medical text types and basic terminology; text production in English of Spanish medical documents, strategies of research, documentation and transfer. The rudiments of interpreting in health care environments; protocol, ethics, and credentialing in the language mediation industry; public health policy as it affects Latino and Latina populations. Spanish-English, English-Spanish language combination. Note: translation refers to written texts; interpreting to spoken language.
Prerequisite: SPAN 28202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38330 EARLY SPANISH LITERATURE (ELR) (WIC) 3 Credit Hours
Outline of development, reading of representative works to 1700.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 38331 RECENT SPANISH LITERATURE (ELR) (WIC) 3 Credit Hours
Outline of development, reading of representative works 1700 present.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 38334 EARLY SPANISH-AMERICAN LITERATURE (ELR) (WIC) 3 Credit Hours
Outline of development, reading of representative works including indigenous literature, 1492-1882.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 38335 RECENT SPANISH-AMERICAN LITERATURE (ELR) (WIC) 3 Credit Hours
Outline of the development of modern Spanish-American literature (1882 to the present). Reading of representative works.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 38421 CIVILIZATION OF SPAIN 3 Credit Hours
General survey of evolution of Spanish civilization from antiquity to present day.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38424 CULTURE AND CIVILIZATION OF LATIN AMERICA 3 Credit Hours
This course focuses on a study of the historical and cultural development of Latin America, with emphasis on Spanish America, as reflected in its geography, history, art, political and social institutions encompassing from Pre-Hispanic times to the present.
Prerequisite: SPAN 38211 or SPAN 38213.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38489 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) This course is a faculty-led experience in a Spanish-speaking country that involves both in-class and out-of-class experiences. Students are placed into an appropriate level language course according to their Common European Framework of References for Language Proficiency (CEFR) score. During class, students study grammar, vocabulary and culture and engage in reading, writing, listening and speaking activities as in a traditional language class. Outside of class, students tour cultural sites and participate in various cultural activities.
Prerequisite: One Spanish (SPAN) upper-division course (30000 or 40000 level).
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

SPAN 38912 SPANISH LINGUISTICS: WORDS, ROOTS AND AFFIXES 3 Credit Hours
Through readings, lectures, multimedia, discourse analysis and language-production tasks, this course in Spanish morphology provides students with the tools to expand their vocabulary exponentially though the application of word-building rules and conventions. Students learn how to predict the form and meaning of Spanish words they have not yet encountered by applying derivational rules such as forming nouns and adjectives from verbs, adjectives from nouns and adverbs from adjectives and nouns. Additionally, students learn how Spanish uses prefixes and suffixes, for example, those that express negation, opposition, repetition, location, size, purpose or affect to alter a word's basic meaning, and how new words come into the Spanish language through processes like word coinage and lexical borrowing. Finally, students are introduced to the topic of lexical variation as it occurs over time, across regions and that resulting from language contact; social- and situational factors; technological innovation; and speakers' identity and preferences.
Prerequisite: SPAN 28201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48095 SELECTED TOPICS IN SPANISH 3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Topic announced in Schedule of Classes.
Prerequisite: 9 hours above 20000-level of Spanish courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Spanish language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Spanish (SPAN) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

SPAN 48215 ADVANCED SPANISH COMPOSITION AND CONVERSATION 3 Credit Hours
This course focuses on descriptive, summary, narrative, expository and argumentative oral and written styles addressing topics dealing with diverse areas of Hispanic culture as presented through literary and nonfiction texts.
Prerequisite: SPAN 38211 and SPAN 38213; and one additional Spanish (SPAN) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48216 CONTEMPORARY HISPANIC CULTURE 3 Credit Hours
A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world.
Prerequisite: 6 hours from 30000-level Spanish courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48230 ADVANCED TRANSLATION PRACTICE: SPANISH (ELR) (WIC) 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes Spanish-to-English translation of selected texts in business, technology, medicine and law.
Prerequisite: SPAN 38231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 48240 BUSINESS AND SPECIAL TEXTS: SPANISH 3 Credit Hours
Survey of the typical text types of business in the Spanish culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Spanish.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48291 SEMINAR IN GARCÍA LORCA 3 Credit Hours
(Slashed with SPAN 58291) (Repeatable for credit) This seminar is an in-depth interdisciplinary study of Federico García Lorca's literary works and their film adaptations in their socio-historical, artistic and cultural contexts. Thematic approaches to Lorca's works and person cover a variety of study topics such as political repression and social class, honor and desire, religion and taboo, homoerotism and gay identity, the subversion of women gender roles and sexuality in the patriarchal society, independently or along with others. Books, articles, documentaries and films situate Lorca's works within the historical, socio-political and cultural contexts that shaped Spain prior to the Civil War. Critical works provide the necessary framework for the analysis of the primary sources.
Prerequisite: SPAN 38211 and SPAN 38213.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPAN 48314 CINEMA AND CULTURE: SPANISH AMERICA TODAY 3 Credit Hours
(Slashed with SPAN 58314) This course explores contemporary Spanish America through Spanish-language feature films and authentic cultural texts. Topics include politics, education, religion, indigenous traditions, economic issues, music, art and family life. Each course unit examines one film and interviews, cultural notes and articles on the topic.
Prerequisite: SPAN 38211 or SPAN 38213 or SPAN 38331 or SPAN 38334 or SPAN 38335.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48325 IDENTITY, POLITICS AND GENDER IN PUERTO RICAN FICTION 3 Credit Hours
(Slashed with SPAN 58325) This course focuses on critical analyses of a diverse corpus of literary pieces written by prominent Puerto Rican authors. It addresses the following topics: the jíbarao identity vis a vis the political and cultural practices of americanización (Americanization), the migratory waves from the countryside to San Juan and the United States, and constructs of gender and LGBTQ identity articulated in the literary discourse.
Prerequisite: SPAN 38421 or SPAN 38424.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48376 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3 Credit Hours
The development of the Spanish-American short story from 1917 to the present.
Prerequisite: 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48378 U.S. LATINA/O WRITERS 3 Credit Hours
The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters.
Prerequisite: SPAN 38211 and SPAN 38213; and one of the following: SPAN 38330 or SPAN 38331 or SPAN 38334 or SPAN 38335.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48391 SEMINAR IN DETECTIVE FICTION IN SPANISH 3 Credit Hours
(Slashed with SPAN 58391) (Repeatable for credit) Students read and view a selection of detective fiction texts and films. They become familiar with detective fiction theory and cultural and political issues, such as dictatorships, national movements, class, gender, and race issues.
Prerequisite: Two upper-division (30000 level and 40000 level) courses in Spanish.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SPAN 48422 EARLY SPANISH-AMERICAN DISCOURSE 3 Credit Hours
This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression.
Prerequisite: SPAN 38213 and SPAN 38334.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48424 SPANISH-AMERICAN CULTURE THROUGH SONGS 3 Credit Hours
(Slashed with SPAN 58424) The main objective of this course is to critically analyze a selection of songs organized by topics that address major cultural trends, changes or movements in Spanish America and regions in the US known for their Latino presence. Classes consist of close analysis of lyrics, their musical arrangement and cultural representations connected to historical events and ethnic identities as discussed in supporting documents. Some activities involve face-to-face and LMS group discussions on topics like similarities and differences among Spanish-American countries, Spanish-American Indigenous nations, Hispanic/Latino in the US, family ties, the role of women, socio-political movements, customs and folklore, literature and art.
Prerequisite: SPAN 38211 or SPAN 38213.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SPAN 48491 SEMINAR IN MODERN SPAIN 3 Credit Hours
(Slashed with SPAN 58491) In-depth study of modern Spain, including themes such as art, literature, film, history, politics, social movements, and other manifestations of modern Spain. Historical and political topics such as the Spanish transition to democracy, the post-transition disillusion, neoliberalism in Spain, Nationalisms of the periphery, and social movements like the "Indignados" or 15M may be covered. Artistic and cultural movements and genres such as "La movida Madrileña," the popular novel, and the detective novel and film noir may also be covered.
Prerequisite: Minimum C grade in three SPAN 30000-level (or higher) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48900 INTRODUCTION TO HISPANIC LINGUISTICS 3 Credit Hours
(Slashed with SPAN 58900) This course introduces students to the major areas and subareas of theoretical and applied linguistics with examples taken from varieties of the Spanish language. Students will learn how linguists describe and analyze the features and patterns of the Spanish language both in the abstract and within social, discursive contexts. Students will learn about the predominant methods for gathering and analyzing Spanish language data in the various fields and subfields of Hispanic linguistics.
Prerequisite: SPAN 38211 or SPAN 38215 or SPAN 38912.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48991 SEMINAR IN HISPANIC LINGUISTICS 3 Credit Hours
(Repeatable for credit) (Slashed with SPAN 58991) In this course, students will learn about the patterns of Spanish language structure and usage as investigated by scholars in specific fields of linguistics. Students will critically examine theoretical frameworks and empirical studies that describe and analyze the Spanish language both in the abstract and as used in real-life communication by native- and non-native speakers of Spanish.
Prerequisite: Two courses from the following: SPAN 38211, SPAN 38213, SPAN 38215, SPAN 38912, SPAN 48215.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58095 SELECTED TOPICS IN SPANISH 3 Credit Hours
(Repeatable for a maximum of 15 credit hours)Topic to be announced in semester schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58216 CONTEMPORARY HISPANIC CULTURE 3 Credit Hours
A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58291 SEMINAR IN GARCÍA LORCA 3 Credit Hours
(Slashed with SPAN 48291) (Repeatable for credit) This seminar is an in-depth interdisciplinary study of Federico García Lorca's literary works and their film adaptations in their socio-historical, artistic and cultural contexts. Thematic approaches to Lorca's works and person cover a variety of study topics such as political repression and social class, honor and desire, religion and taboo, homoerotism and gay identity, the subversion of women gender roles and sexuality in the patriarchal society, independently or along with others. Books, articles, documentaries and films situate Lorca's works within the historical, socio-political and cultural contexts that shaped Spain prior to the Civil War. Critical works provide the necessary framework for the analysis of the primary sources.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPAN 58314 CINEMA AND CULTURE: SPANISH AMERICA TODAY 3 Credit Hours
(Slashed with SPAN 48314) This course explores contemporary Spanish America through Spanish-language feature films and authentic cultural texts. Topics include politics, education, religion, indigenous traditions, economic issues, music, art and family life. Each course unit examines one film and interviews, cultural notes and articles on the topic.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58325 IDENTITY, POLITICS AND GENDER IN PUERTO RICAN FICTION 3 Credit Hours
(Slashed with SPAN 48325) This course focuses on critical analyses of a diverse corpus of literary pieces written by prominent Puerto Rican authors. It addresses the following topics: the jíbarao identity vis a vis the political and cultural practices of americanización (Americanization), the migratory waves from the countryside to San Juan and the United States, and constructs of gender and LGBTQ identity articulated in the literary discourse.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58376 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3 Credit Hours
The development of the Spanish-American short story from 1917 to the present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58378 U.S. LATINA/O WRITERS 3 Credit Hours
The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58391 SEMINAR IN DETECTIVE FICTION IN SPANISH 3 Credit Hours
(Slashed with SPAN 48391) (Repeatable for credit) Students read and view a selection of detective fiction texts and films. They become familiar with detective fiction theory and cultural and political issues, such as dictatorships, national movements, class, gender, and race issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SPAN 58422 EARLY SPANISH-AMERICAN DISCOURSE 3 Credit Hours
This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58424 SPANISH-AMERICAN CULTURE THROUGH SONGS (DIVG) 3 Credit Hours
(Slashed with SPAN 48424) The main objective of this course is to critically analyze a selection of songs organized by topics that address major cultural trends, changes or movements in Spanish America and regions in the US known for their Latino presence. Classes consist of close analysis of lyrics, their musical arrangement and cultural representations connected to historical events and ethnic identities as discussed in supporting documents. Some activities involve face-to-face and LMS group discussions on topics like similarities and differences among Spanish-American countries, Spanish-American Indigenous nations, Hispanic/Latino in the US, family ties, the role of women, socio-political movements, customs and folklore, literature and art.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

SPAN 58491 SEMINAR IN MODERN SPAIN 3 Credit Hours
(Slashed with SPAN 48491) In-depth study of late 20th and early 21st-century Spain, including themes such as art, literature, film, history, politics, social movements, and other manifestations of contemporary Spain. Historical and political topics such as the Spanish transition to democracy, the post-transition disillusion, neoliberalism in Spain, Nationalisms of the periphery, and social movements like the "Indignados" or 15M may be covered. Artistic and cultural movements and genres such as "La movida Madrileña," the popular novel, and the detective novel and film noir may also be covered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58900 INTRODUCTION TO HISPANIC LINGUISTICS 3 Credit Hours
(Slashed with SPAN 48900) This course introduces students to the major areas and subareas of theoretical and applied linguistics with examples taken from varieties of the Spanish language. Students will learn how linguists describe and analyze the features and patterns of the Spanish language both in the abstract and within social, discursive contexts. Students will learn about the predominant methods for gathering and analyzing Spanish language data in the various fields and subfields of Hispanic linguistics.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58991 SEMINAR IN HISPANIC LINGUISTICS 3 Credit Hours
(Repeatable for credit) (Slashed with SPAN 48991) In this course students will learn about the patterns of Spanish language structure and usage as investigated by scholars in specific fields of linguistics. Students will critically examine theoretical frameworks and empirical studies that describe and analyze the Spanish language both in the abstract and as used in real-life communication by native- and non-native speakers of Spanish.
Prerequisite: Graduate Standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68010 THE PRACTICE OF SPANISH TRANSLATION 2 Credit Hours
Students apply linguistic and communication science concepts to case studies of language mediation.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPAN 68091 SEMINAR IN SPANISH TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized translation projects currently of concern in the translation industry across the Spanish-speaking world. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: SPAN 68010 and TRST 60010; and graduate studies.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68095 SELECTED TOPICS 3 Credit Hours
(Repeatable for credit)Selected topics on Spanish literature or linguistics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Spanish language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

SPAN 68199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPAN 68215 ADVANCED SPANISH COMPOSITION AND CONVERSATION 3 Credit Hours
Focuses on description, summary, narration, exposition and argumentation on topics dealing with diverse areas of Hispanic culture as presented through literary and non-fiction texts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68231 TRANSLATION INTO SPANISH 3 Credit Hours
Provides advanced intensive practice in the translation of a variety of texts into Spanish. Translation issues and appropriate strategies are identified. Also provides practice in the evaluation of translations, the identification of professional issues, and an advanced review of linguistic and grammatical aspects of Spanish as they apply to translation.
Class meetings are conducted in a workshop format based on weekly assignments of readings and translation exercises.
Prerequisite: TRST 60010 and SPAN 68010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Spanish will also be emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic financial legal diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SPAN 68199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPAN 68979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

Translation Studies (TRST)

TRST 20009 MULTILINGUAL INFORMATION LIFECYCLE 3 Credit Hours
Introduction to the multilingual information cycle, including general technological issues, text preparation, translation in markup languages, computer-assisted translation tools and multilingual information flow for multilingual and multicultural work. Course is taught in English.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 30230 APPROACHES TO TRANSLATION 3 Credit Hours
Introduction to foreign language translation. Introduces concepts, resources, principles and techniques of text analysis and translation strategies applicable to various types of texts.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 30330 CROSS-LANGUAGE MEDIATION 3 Credit Hours
An exploration of textual and contextual factors impacting cross-language mediation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 40095 SPECIAL TOPICS IN TRANSLATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with TRST 50095 and TRST 70095) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with translation studies carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Translation Studies (TRST) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

TRST 50009 THEORY AND PRACTICE OF INTERPRETING 3 Credit Hours
(Slashed with TRST 70009) Survey of the theory and practice of unimodal (spoken word) interpreting in its multiple contexts: conference, medical, judicial, liaison, and media interpreting, with an emphasis on community interpreting. Stakeholders, discourses, modalities, and environments; characteristics of interpreted speech; identities and intervenient roles of interpreters (coordinators, co-participants, diplomats); professionalization and 'volunteerization'; ethics and protocols; research paradigms and future directions; quality and assessment; legal frameworks and language policy; histories of interpreting. Pedagogies of dialogue interpreting [process, interactive, demand-control schema; cognitive and effort models]; memory; technologies; terminology. Course conducted in English.
Prerequisite: Graduate standing; Translation major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 50031 PROFESSIONAL EDITING FOR TRANSLATORS 3 Credit Hours
Provides practical instruction in the editing of translated texts representing a variety of text types. Course covers the skills and techniques that are required for all stages of the editing process and using the best practices of professional translation. Topics include the stages of editing, from rough translation to finished draft; electronic tools for multilingual translation editing; translation style guides; and pre- and post-editing of machine translation. Interactive lecture and workshop formats.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 50095 SPECIAL TOPICS IN TRANSLATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with TRST 40095 and TRST 70095) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 60001 GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES 3 Credit Hours
Individual instruction and assistance with problems encountered in academic research and writing in translation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60009 INTRODUCTION TO TRANSLATION TECHNOLOGY 3 Credit Hours
This course provides an in-depth exploration of the principles, processes and technologies involved with managing the document life cycle within a multilingual environment. It examines the various stages that documents undergo both online and offline, from authoring, management and retrieval to translation, publishing and archiving, along with the tools, challenges and requirements at each phase. Key concepts for translation technologies, such as translation memory systems and terminology management, are also introduced. Through a series of modules and hands-on activities, students explore the impact of information technology on content creation and translation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60010 THEORY OF TRANSLATION AND INTERPRETING 2 Credit Hours
Introduction to the theoretical bases and methods of language mediation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

TRST 60011 TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION 3 Credit Hours
This course provides students with an introduction to translation technology and software tools used within the translation industry as part of translation workflows. The course surveys the three main forms of translation technology: terminology management systems, translation memories and machine translation. The course first introduces the fundamental principles of terminology management and lays out best practices for creating and maintaining terminological databases (termbases). The course then turns to translation memories, databases created from aligned parallel corpora that allow translators to reuse past translations. Finally, the role of machine translation and AI in human translation workflows is examined, focusing specifically on human-machine interaction in the workflow, including the activity of post-editing. The course concludes with an examination of how translation technology affects translation quality, the management of translation technology for projects and predictions for the future of translation technology within the language industry.
Prerequisite: TRST 60009; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60012 SOFTWARE AND WEBSITE LOCALIZATION 3 Credit Hours
This course introduces students to the principles, techniques and best practices involved with the internationalization and localization of various types of digital content, including software, websites, web pages and graphics. Localization entails adapting content related to a product, service or idea to suit the language and culture of a specific market or locale. As a rapidly growing industry, localization is expanding at an annual rate of 6.5-7.5%, making it a thriving field with excellent career prospects for students interested in language, culture and technology. Throughout this course, students gain a solid understanding of the central concepts and terminology used within the field of localization. They also learn about the formal standards and best practices for creating, maintaining and sharing resources generated by translation and localization technologies. Alongside essential theoretical perspectives and principles, the course provides hands-on experience with contemporary translation and localization practices. Students work with up-to-date computer-assisted translation (CAT) tools, as well as text and multimedia editing platforms to apply their learning within practical contexts. By bridging the gap between theory and practice, projects and activities involve practical exercises based on the concepts, technologies and processes discussed during class.
Prerequisite: TRST 60011 with a minimum B grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60013 LANGUAGE PROJECT MANAGEMENT 3 Credit Hours
This course offers an introduction to the knowledge, skills, tools and techniques of project management and applies these concepts within the language industry context. The language industry is predominantly outsourced, digitized and project based, which means that regardless of the career path on which you embark, translation and localization projects have a major influence on your role and how you conduct your work. This course provides students with an analytical framework, as well as pragmatic tools and techniques to navigate work within the industry and build broadly applicable expertise throughout time. After all, project management is the "art and science of getting stuff done." Project management not only equips students with the tools to get work done and lead and manage diverse teams of people effectively, but also helps them build an understanding of the core concepts and dynamics of projects. This is true regardless of whether you work within the language industry or another profession entirely.
Prerequisite: TRST 60011 and TRST 60012 with a minimum B grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60031 INTERCULTURAL COMMUNICATION IN THE LANGUAGE INDUSTRY 3 Credit Hours
The role and impact of intercultural communication models, theories and approaches in shaping language industry dynamics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60040 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60092 TRANSLATION INTERNSHIP 1-3 Credit Hours
(Repeatable for credit) Supervised practical experience in translation or localization or a related role at a cooperating organization, subject to availability. The internship may be undertaken on-site or remotely. Students must have completed TRST 60011. Requires preparation of an internship report or portfolio connecting academic coursework to on-the-job experiences.
Prerequisite: TRST 60011; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 60095 SPECIAL TOPICS IN TRANSLATIONS STUDIES 1-3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 60098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with translation studies carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

TRST 60099 CAPSTONE PROJECT IN TRANSLATION 3 Credit Hours
Guided selection, completion, critically reflective analysis and defense of a professional-level translation or translation-related project.
Prerequisite: TRST 60010 and TRST 60011; and graduate studies.
Schedule Type: Project or Capstone
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory

TRST 60100 PRACTICE OF TRANSLATION 2 Credit Hours
Introductory course in which students translate a variety of non-specialized, nonfiction short texts in different domains; identify the most common semantic, syntactic, stylistic, cultural and discourse-level problems encountered in translation; and apply appropriate cognitive strategies.
Prerequisite: Graduate standing.
Pre/corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

TRST 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Write a thesis on a topic dealing with translation studies carried out under the supervision of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 60298 APPLIED TRANSLATION RESEARCH 1-3 Credit Hours
(Repeatable for credit) Research experience in translation or interpreting in a corporate, translation bureau or freelance setting, supervised by a faculty member.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Write a thesis on a topic dealing with translation studies carried out under the supervision of a faculty member.
Prerequisite: TRST 61099; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 60630 CAREER PATHS IN THE LANGUAGE INDUSTRY 3 Credit Hours
This course adopts a holistic approach to career management and planning in the language industry. It involves self-assessment of interests, values and skills and a deep understanding of career development theories and the job search process. Students gain insights into their own narratives, constructing new meanings and engaging in dynamic career exploration, and master using a range of career, vocational, educational, occupational and labor market information resources and systems. They develop the ability to integrate self-knowledge and industry awareness into their decision-making processes, enabling them to set meaningful goals and devise effective strategies to navigate career challenges in a complex global economy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70001 APPLIED LINGUISTICS AND TRANSLATION INFORMATICS 3 Credit Hours
Advanced topics in applied linguistics, including corpus and text linguistics as they apply to translation. Advanced topics in translation informatics in multilingual environments.
Prerequisite: TRST 60011; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70002 THE LANGUAGE INDUSTRY 3 Credit Hours
Study of the socio-economic context of professional translation and the language services business sector. Includes in-depth study of the language industry drawing on industry analysis and business case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70003 TERMINOLOGY STUDIES 3 Credit Hours
Advanced topics in terminology, lexicography, ontology and knowledge organization systems.
Prerequisite: TRST 60011; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70004 TRANSLATION PEDAGOGY 3 Credit Hours
Teaching methods and curriculum design for translation programs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70005 CURRENT TRENDS IN TRANSLATION STUDIES 3 Credit Hours
A critical examination of the main trends in translation theory and an exploration of emerging developments in translation studies.
Prerequisite: TRST 60010; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70006 EMPIRICAL METHODS FOR TRANSLATION STUDIES 3 Credit Hours
Study of the methods and research designs used to conduct empirical research in translation, with an emphasis on experimental design of cross-language tasks; the use and analysis of bilingual verbal protocols; the application of new methods, such as keystroke-logging and eye-tracking; and the particular empirical and methodological issues involved in cross-language research data-gathering and statistical analysis.
Prerequisite: Translation studies major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

TRST 70007 CORPORA IN TRANSLATION 3 Credit Hours
Exploration of corpus-based applications in translation studies research and the practice of translation. Competence in utilizing translation-oriented corpus-based tools and corpus building will be fostered.
Prerequisite: Translation studies major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70008 TRANSLATION AND COGNITION 3 Credit Hours
Study of foreign language translation and interpreting from a cognitive science perspective. Includes discussion of current empirical research; application of selected models of cognition to problems in translation studies; and research design in translation process research.
Prerequisite: Translation studies major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70009 THEORY AND PRACTICE OF INTERPRETING 3 Credit Hours
(Slashed with TRST 50009) Survey of the theory and practice of unimodal (spoken word) interpreting in its multiple contexts: conference, medical, judicial, liaison, and media interpreting, with an emphasis on community interpreting. Stakeholders, discourses, modalities, and environments; characteristics of interpreted speech; identities and intervenient roles of interpreters (coordinators, co-participants, diplomats); professionalization and 'volunteerization'; ethics and protocols; research paradigms and future directions; quality and assessment; legal frameworks and language policy; histories of interpreting. Pedagogies of dialogue interpreting [process, interactive, demand-control schema; cognitive and effort models]; memory; technologies; terminology. Course conducted in English.
Prerequisite: Doctoral standing; and Translation Studies major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70095 SPECIAL TOPICS IN TRANSLATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with TRST 40095 and TRST 50095) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 80091 SEMINAR IN TRANSLATION STUDIES 3 Credit Hours
(Repeatable for credit) Seminar for doctoral students to present and discuss research related to specific areas of translation studies. May be taken for a total of 6 credit hours, either alone or in combination with TRST 80191.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

TRST 80095 SPECIAL TOPICS IN TRANSLATION STUDIES 1-3 Credit Hours
(Repeatable for credit) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 80098 RESEARCH IN TRANSLATION STUDIES 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activities about topics in translation studies under faculty supervision with departmental approval. The work for this course should result in a paper, presentation or some other appropriate gradable product.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory

TRST 80191 SEMINAR IN TRANSLATION INFORMATICS 3 Credit Hours
(Repeatable for credit) Seminar for doctoral students to present and discuss research related to specific areas of translation informatics. May be taken for a total of 6 credit hours, either alone or in combination with TRST 80191.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

TRST 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation. Registration in at least two semesters is required the first of which will be the semester in which dissertation work begins and continuing until 30 hours are completed.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met.
Prerequisite: TRST 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Department of Philosophy

Philosophy (PHIL)

PHIL 11001 INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) 3 Credit Hours
An introduction to the diverse methods and subject matters in philosophy. Topics may include: What are the arguments for the existence of God? Do humans have free will? Can we know anything with certainty, and how do we know anything at all? Is what we see real, or might it be only an illusion? What makes a person a person - their mind, or their physical attributes? Is the mind the brain, or is it something else?
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

PHIL 11009 CRITICAL THINKING (KADL) 3 Credit Hours
Critical thinking is essential to every aspect of life, whether reading a news report or editorial, examining a contract or other legal document, or entering into a debate. This course teaches the strategies of “cognitive self-defense” that allow students to see past false claims and avoid being deceived by misleading rhetorical strategies. The course also examines the role of argument in reasoning, including types of arguments and the ways in which mistakes in reasoning can lead us astray. Examples from everyday life illustrate the sorts of complex reasoning that are a crucial part of practical decision-making.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Additional, TAG Arts and Humanities

PHIL 20095 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) Sophomore level course with variable content of philosophical interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 21001 INTRODUCTION TO ETHICS (DIVG) (KHUM) 3 Credit Hours
What makes an action morally right or morally wrong, and who gets to decide? Is ethics about performing actions that are morally right, or is it about being a virtuous person? This course examines at least three competing theories about ethics, including challenges to each theory. Students get to decide which theory they think is best, but every theory presents its own strengths and weaknesses.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

PHIL 21002 INTRODUCTION TO FORMAL LOGIC (KMCR) 3 Credit Hours
This course is designed to sharpen students' reasoning skills and to help them better understand the structure of reasoning in general. To do this, it introduces students to some formal languages, such as Propositional Logic and Predicate Logic, that represent the logical structure of deductive reasoning. Unlike natural languages such as English, these formal languages allow students to focus on the general structure of different types of arguments, without discussing the content of any particular argument. Course covers both the construction of formal proofs in these languages, and translation between them and English. The study of formal logic contributes to effective and persuasive reasoning, not only in philosophy, but in any discipline or context. It also provides effective tools for evaluating the strength of English-language arguments. The skills that students acquire in this course are thus widely applicable in their personal, professional and academic lives.
Prerequisite: Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, TAG Arts and Humanities, Transfer Module Mathematics

PHIL 30015 MEDICINE AND MORALITY 3 Credit Hours
A philosophical exploration of at least three issues related to current medical practices, which may include ethical, religious, legal and clinical aspects. Topics may include: abortion, the use of genetic technologies, organ donation and transplantation, the use of human research subjects, or end-of-life decision-making.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 30025 ENVIRONMENTAL PHILOSOPHY (ELR) 3 Credit Hours
An examination of philosophical issues in environmental studies, including topics such as animal ethics and the sources of our food; the value of nature and environmental aesthetics; sustainability and biodiversity; ecofeminism, social justice and radical ecology; and the human response to climate change. The course is designed to complement fields of study such as geography, environmental studies and biology.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PHIL 31002 MEDIEVAL PHILOSOPHY 3 Credit Hours
Examination of issues in medieval thought, such as the existence and nature of God, the relationship between faith and reason, the problem of universals and the nature of causality. Selections from philosophers such as Augustine, Boethius, Aquinas, Abelard, Avicenna, Duns Scotus and William of Ockham.
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31011 ANCIENT PHILOSOPHY 3 Credit Hours
Examination of ancient philosophy, including Greek philosophers such as Plato and Aristotle, and those who inherited their philosophy. The ancients made the move from explanation based on myth to philosophical explanation. What did that move involve? How did the ancient philosophers answer questions about the nature of reality, what exists, the reliability of the senses and the types of things in the world? How did they conceive of the good life?
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31012 EARLY MODERN PHILOSOPHY 3 Credit Hours
The course features selections from rationalists such as Descartes, Spinoza and Leibniz, and empiricists such as Locke, Berkeley and Hume, of the early modern philosophical period. Rationalists believe that all knowledge is grounded in a priori knowledge of necessary principles. Empiricists believe that knowledge is grounded in sensory experience. How did these differences shape their wider views of the world?
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31013 LATE MODERN PHILOSOPHY 3 Credit Hours
The course explores the development of 19th century German idealism by thinkers such as Fichte, Hegel and Schelling, whose work was prompted by Kant's transcendental idealism understood as critique or as the examination of the conditions for the possibility of knowledge acquisition as a touchstone for understanding the relationship among metaphysics, epistemology, ethics and political philosophy. The course thus begins with Kant's critical project before turning to its reception and the various 19th century responses to it. Additional selections from Kant's ethical and political writings may supplement this reading. The course may also cover additional figures, such as Schopenhauer, Nietzsche and Marx, whose work, in turn, is a response to German idealism itself.
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31030 EXISTENTIALISM 3 Credit Hours
Examination of the themes of existentialism, which include absurdity, freedom, and the individual's relationship to the world. Philosophers studied may include Sartre, Kierkegaard, Nietzsche, Camus, de Beauvoir, Ortega y Gasset, Marcel, and Tillich. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31035 PHILOSOPHY AND JUSTICE (DIVD) 3 Credit Hours
Consideration of topics and issues relevant to the concept of justice, as addressed by a range of classical and contemporary philosophers. Topics may include the nature of justice from feminist, libertarian, liberal, socialist, communitarian, egalitarian, and social welfare perspectives; and the application of these perspectives to practical issues such as affirmative action, democracy, equal pay, environmental justice, just war, criminal justice, civil disobedience, tort law and poverty. Students with junior standing or above, who have not taken a Philosophy [PHIL] course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

PHIL 31040 FEMINIST PHILOSOPHY (DIVD) 3 Credit Hours
The course introduces feminist philosophy understood as social critique: a critique of unjust, exclusionary, and oppressive systemic practices surrounding sex, sexuality, and gender. As such, the course focuses on issues such as gender identity, sexual difference, the sex and gender binaries, gendered experience, trans embodiment, and LGBTQI marginalization. The course asks whether, and if so, how, feminist theory (more broadly) and feminist philosophy (more narrowly) could draw on canonical philosophical texts, traditions, and figures. The course focuses extensively on contemporary approaches, including queer, race, and gay and lesbian theory. Students with junior standing or above, who have not taken a philosophy course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

PHIL 31050 PHILOSOPHY THROUGH LITERATURE 3 Credit Hours
This course introduces several philosophical problems via an examination of those problems and themes in works of literature. The course combines philosophical essays with works of poetry, short novels, and short stories, so as to expose students to diverse perspectives on complex philosophical problems. Students with junior standing or above, who have not taken a philosophy course should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31060 PHILOSOPHY OF ART AND BEAUTY (ELR) 3 Credit Hours
Investigation of concepts such as the artistic object and creative expression, and examination and critique of a range of theories designed to solve various problems in the field of aesthetics, or the study of the nature and principles of artistic beauty. Examples drawn from diverse genres such as the visual arts, drama, music, and dance provide the context for discussion of topics including what makes something beautiful and what is involved in an act of creativity. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PHIL 31091 PHILOSOPHERS IN DEPTH (WIC) 3 Credit Hours
(Repeatable for credit) This course introduces students to the work and influence of one philosopher, in depth. The choice of philosopher whose work is investigated varies by instructor. The course serves as a counterbalance to the broad introduction to the history of philosophy that students receive in the history of philosophy sequence. In this course, students learn to work carefully with primary sources, along with learning the requirements of academic philosophical writing. Students exhibit their understanding of the course content and mastery of philosophical writing through a variety of short and long assignments.
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PHIL 40005 HEALTH CARE ETHICS 3 Credit Hours
Ethical problems in health care critically assessed, and consideration of how these specific ethical problems illuminate the ethical enterprise. Students with junior standing or above, who have not taken a philosophy course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 40093 VARIABLE TITLE WORKSHOP IN PHILOSOPHY 1-6 Credit Hours
(Repeatable for credit)
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PHIL 41010 PROBLEMS IN THE PHILOSOPHY OF RELIGION 3 Credit Hours
(Slashed with PHIL 51010) Philosophical examination of issues and problems presented by various writers in philosophy of religion.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41020 SOCIAL AND POLITICAL PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 51020) Critical examination of classical and contemporary philosophical theories of the nature of society, and the state as political system that best represents a well-organized society. Topics may include the nature, existence, and justification of the state, the issue of political obligation, theories of anarchism, utopia, democracy, liberalism, communitarianism, citizenship, and patriotism, and examination of the nature of the social and political values or notions of rights, equality, and liberty.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41025 PHILOSOPHY OF LAW 3 Credit Hours
(Slashed with PHIL 51025) Critical examination of the nature, features, foundation, and function of law. Topics may include the debate between natural law theory and legal positivism, with respect to whether law and moral are necessarily connected, as well as the nature of judicial decision, constitution interpretation, the basis and elements of criminal, civil law (contract, tort) law, the grounds for obeying or disobeying bad laws, and analysis of some supreme court cases which raise philosophical issues about the nature and function of law.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41030 ETHICAL THEORY 3 Credit Hours
(Slashed with PHIL 51030) In this course, students will explore developments in the dominant normative theories of 20th and 21st century Anglo-American ethics, including consequentialism, deontology, virtue ethics, ethics of care, and varieties of contract theory.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41035 PHILOSOPHY OF SCIENCE 3 Credit Hours
(Slashed with PHIL 51035) What is science? What are its distinctive aims and methods, and how do they bolster the epistemic authority of scientific theories? Do sociological, historical, and cultural factors play a major role in the advancement of scientific thought? These questions, and others like them, define the philosophy of science - a branch of philosophy that deals with the metaphysical, epistemological, and normative issues that arise in the study of scientific practice.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41036 PHILOSOPHY OF COGNITIVE SCIENCE 3 Credit Hours
(Slashed with PHIL 51036) In this course, students focus on issues at the interface of philosophy, psychology, neuroscience, linguistics, and artificial intelligence. These fields, which comprise contemporary cognitive science, present the philosopher with an opportunity to clarify foundational concepts, such as computation, innateness, language, perception, and learning. Ultimately, the goal of the course is to understand various proposals about how neural computation could amount to human intelligence and consciousness.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with CS 41038 and MATH 41038)(Slashed with MATH 51038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics. Students with junior standing or above who have not taken a philosophy course should contact the department for a prerequisite override.
Prerequisite: CS 23022 or MATH 12003 or MATH 23022 or PHIL 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41040 EPISTEMOLOGY 3 Credit Hours
(Slashed with PHIL 51040) What is the difference between merely believing something to be the case and knowing it to be the case? In this course students examine various theories designed to answer this question and evaluate their respective strengths and weaknesses. The course will cover the Gettier problem that questions the traditional definition of knowledge as justified true belief, the debate between foundationalism and coherentism, the debate between internalism and externalism about justification, naturalized epistemology, and virtue epistemology.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41042 METAPHYSICS 3 Credit Hours
(Slashed with PHIL 51042) Covers several topics in contemporary analytic metaphysics. Topics may include existence, identity, things and their persistence over time, the nature of modalities and possible worlds, and the relationship between material parts and wholes.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41048 METAETHICS 3 Credit Hours
(Slashed with PHIL 51048) Metaethics is the study of the nature and justification of moral judgments, as distinct from ethics, which aims to articulate principles, criteria, or alternative approaches to understanding and achieving goodness and right action. Metaethics examines the concepts, ontology, psychology, and modes of justification employed within ethics. This course will explore recent developments about such questions as: which, if any, ethical judgments can be true or false; whether we can know true ethical statements; and to what kinds of properties, if any, ethical judgments and beliefs refer.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41052 PHILOSOPHY OF LANGUAGE 3 Credit Hours
(Slashed with PHIL 51052) Critical examination of nature and function of language especially in relation to mental function and development.
Prerequisite: One 30000-level Philosophy (PHIL) course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41055 PHENOMENOLOGY 3 Credit Hours
(Slashed with PHIL 51055) In-depth study of the phenomenological movement in twentieth-century philosophy, from its origin in the thought of Edmund Husserl and his contemporaries, through such canonical thinkers as Martin Heidegger and Maurice Merleau-Ponty, to various contemporary developments. Substantial time is also devoted to considering applications of phenomenology to various disciplines in the humanities, social sciences, and arts. This is in keeping with the overall focus in this seminar on phenomenology not only as a philosophical school, but also as a methodology with broad and diverse applications.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41060 PRAGMATISM 3 Credit Hours
(Slashed with PHIL 51060) As America's distinctive "home-grown" philosophy, pragmatism embodies the values of action, problem-solving, and consensus-building within a pluralistic society. The core of this course examines the seminal works of the classical American pragmatists: Peirce, James, and Dewey. Special attention will be devoted to a phenomenology of experience that undercuts the dualisms of mind and matter, subject and object, self and world.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41076 CONTINENTAL PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 51076) Investigation of some figure, issue or theme in continental philosophy from Descartes to present.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41080 PHILOSOPHY AND ART: 1890 - PRESENT 3 Credit Hours
(Slashed with PHIL 51080) Exploring, with emphasis on the modern age, philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41491 SEMINAR IN ASIAN PHILOSOPHY (DIVG) 3 Credit Hours
(Repeatable for credit) (Slashed with PHIL 51491) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in Asian philosophy.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Diversity Global

PHIL 41591 SEMINAR IN THE HISTORY OF PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 51591)(Repeatable for credit) Intensive primary source reading and critical appreciation of the significant works of one or more philosophical figures or issues from various traditions in philosophy.
Prerequisite: One 30000-level Philosophy (PHIL) course.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PHIL 49995 SPECIAL TOPICS 2,3 Credit Hours
(Repeatable for credit when topic varies)
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter

PHIL 49996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit with departmental approval prior to registration)
Prerequisite: Departmental special approval prior to registration.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

PHIL 49999 SENIOR HONORS PROJECT (ELR) 2,3 Credit Hours
(Repeated registration permitted with departmental approval prior to registration) Thesis or other independent study or creative project.
Prerequisite: Departmental permission before registration.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PHIL 50005 HEALTH CARE ETHICS 3 Credit Hours
Ethical problems in health care critically assessed and consideration of how these specific ethical problems illuminate the ethical enterprise.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 50093 VARIABLE TITLE WORKSHOP IN PHILOSOPHY 1-6 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

PHIL 51010 PROBLEMS IN THE PHILOSOPHY OF RELIGION 3 Credit Hours
(Slashed with PHIL 41010) Philosophical examination of issues and problems presented by various writers in philosophy of religion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51020 SOCIAL AND POLITICAL PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 41020) Critical examination of classical and contemporary philosophical theories of the nature of society, and the state as political system that best represents a well-organized society. Topics may include the nature, existence, and justification of the state, the issue of political obligation, theories of anarchism, utopia, democracy, liberalism, communitarianism, citizenship, and patriotism, and examination of the nature of the social and political values or notions of rights, equality, and liberty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51025 PHILOSOPHY OF LAW 3 Credit Hours
(Slashed with PHIL 41025) Critical examination of the nature, features, foundation, and function of law. Topics may include the debate between natural law theory and legal positivism, with respect to whether law and moral are necessarily connected, as well as the nature of judicial decision, constitution interpretation, the basis and elements of criminal, civil law (contract, tort) law, the grounds for obeying or disobeying bad laws, and analysis of some supreme court cases which raise philosophical issues about the nature and function of law.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51030 ETHICAL THEORY 3 Credit Hours
(Slashed with PHIL 41030) In this course, students will explore developments in the dominant normative theories of 20th and 21st century Anglo-American ethics, including consequentialism, deontology, virtue ethics, ethics of care, and varieties of contract theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51035 PHILOSOPHY OF SCIENCE 3 Credit Hours
(Slashed with PHIL 41035) What is science? What are its distinctive aims and methods, and how do they bolster the epistemic authority of scientific theories? Do sociological, historical, and cultural factors play a major role in the advancement of scientific thought? These questions, and others like them, define the philosophy of science - a branch of philosophy that deals with the metaphysical, epistemological, and normative issues that arise in the study of scientific practice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51036 PHILOSOPHY OF COGNITIVE SCIENCE 3 Credit Hours
(Slashed with PHIL 41036) In this course, students focus on issues at the interface of philosophy, psychology, neuroscience, linguistics, and artificial intelligence. These fields, which comprise contemporary cognitive science, present the philosopher with an opportunity to clarify foundational concepts, such as computation, innateness, language, perception, and learning. Ultimately, the goal of the course is to understand various proposals about how neural computation could amount to human intelligence and consciousness.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with MATH 51038)(Slashed with CS 41038, MATH 41038 and PHIL 41038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51040 EPISTEMOLOGY 3 Credit Hours
(Slashed with PHIL 41040) What is the difference between merely believing something to be the case and knowing it to be the case? In this course students examine various theories designed to answer this question and evaluate their respective strengths and weaknesses. The course will cover the Gettier problem that questions the traditional definition of knowledge as justified true belief, the debate between foundationalism and coherentism, the debate between internalism and externalism about justification, naturalized epistemology, and virtue epistemology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51042 METAPHYSICS 3 Credit Hours
(Slashed with PHIL 41042) Covers several topics in contemporary analytic metaphysics. Topics may include existence, identity, things and their persistence over time, the nature of modalities and possible worlds, and the relationship between material parts and wholes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51048 METAETHICS 3 Credit Hours
(Slashed with PHIL 41048) Metaethics is the study of the nature and justification of moral judgments, as distinct from ethics, which aims to articulate principles, criteria, or alternative approaches to understanding and achieving goodness and right action. Metaethics examines the concepts, ontology, psychology, and modes of justification employed within ethics. This course will explore recent developments about such questions as: which, if any, ethical judgments can be true or false; whether we can know true ethical statements; and to what kinds of properties, if any, ethical judgments and beliefs refer.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51052 PHILOSOPHY OF LANGUAGE 3 Credit Hours
(Slashed with PHIL 41052) Critical examination of nature and function of language especially in relation to mental function and development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51055 PHENOMENOLOGY 3 Credit Hours
(Slashed with PHIL 41055) In-depth study of the phenomenological movement in twentieth-century philosophy, from its origin in the thought of Edmund Husserl and his contemporaries, through such canonical thinkers as Martin Heidegger and Maurice Merleau-Ponty, to various contemporary developments. Substantial time is also devoted to considering applications of phenomenology to various disciplines in the humanities, social sciences, and arts. This is in keeping with the overall focus in this seminar on phenomenology not only as a philosophical school, but also as a methodology with broad and diverse applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51060 PRAGMATISM 3 Credit Hours
(Slashed with PHIL 41060) As America' s distinctive "home-grown" philosophy, pragmatism embodies the values of action, problem-solving, and consensus-building within a pluralistic society. The core of this course examines the seminal works of the classical American pragmatists: Peirce, James, and Dewey. Special attention will be devoted to a phenomenology of experience that undercuts the dualisms of mind and matter, subject and object, self and world.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51076 CONTINENTAL PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 41076) Investigation of some figure, issue or theme in continental philosophy from Descartes to present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51080 PHILOSOPHY AND ART: 1890 - PRESENT 3 Credit Hours
(Slashed with PHIL 41080) Exploring, with emphasis, on the modern age philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51491 SEMINAR IN ASIAN PHILOSOPHY 3 Credit Hours
(Repeatable for credit) (Slashed with PHIL 41491) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in Asian philosophy.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PHIL 51591 SEMINAR IN THE HISTORY OF PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 41591)(Repeatable for credit) Intensive primary source reading and critical appreciation of the significant works of one or more philosophical figures or issues from various traditions in philosophy.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PHIL 59995 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) When content varies, may be repeated for credit.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 59996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit with department approval)
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHIL 60191 GRADUATE SEMINAR 3 Credit Hours
(Repeatable for credit) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 61000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour
(Cross-listed with BMS 61000 and BMS 71000) Introduction into professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PHIL 61056 HERMENEUTICS 3 Credit Hours
Critical appreciation of the theories and practices of interpretation comprehended according to certain classical, current and emergent philosophic styles and traditions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 69101 PROSEMINAR: PROFESSIONAL AND PEDAGOGICAL TRAINING 3 Credit Hours
(Repeatable for credit) Students participate in the preparation and planning of the annual Graduate Student Conference, receive professional training and mentoring, and work closely with faculty to write and revise a philosophical essay suitable for use as a writing sample or conference presentation.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

PHIL 69199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and departmental special approval before registration.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHIL 69299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: PHIL 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHIL 69995 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) Selected topics in Philosophy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 69998 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Department of Physics

Physics (PHY)

PHY 11030 SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS) 3 Credit Hours
Description of major revolutionary physical concepts and their implications for understanding the physical universe. Not counted toward requirements for physics major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

PHY 12000 INTRODUCTORY PHYSICS SEMINAR (ELR) 1 Credit Hour
To provide a nurturing course for new physics majors, ideally to be taken in their first semester as majors. The course includes a journal club component, informational talks by industrial physicists and training in a select group of essential skills and tools for future work in the physics program.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PHY 12111 PHYSICS FOR HEALTH TECHNOLOGIES 3 Credit Hours
Basic physics applied to health technologies: measurement techniques, force and motion of solids and fluids, energy, heat wave phenomena, electricity. Students taking this course should be in a health technologies major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 12201 TECHNICAL PHYSICS I (KBS) (KLAB) 3 Credit Hours
Introduction to principles of physics: mechanics.
Prerequisite: MATH 11010.
Pre/corequisite: MATH 11022.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

PHY 12202 TECHNICAL PHYSICS II (KBS) (KLAB) 4 Credit Hours
Introduction to principles of physics, including fluids, thermodynamics, electricity and magnetism.
Prerequisite: PHY 12201.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

PHY 13001 GENERAL COLLEGE PHYSICS I (KBS) 4 Credit Hours
Principles of mechanics, heat and sound.
Prerequisite: Minimum C grade in MATH 11022 or in MATH 12011; or pre/corequisites MATH 12002 or MATH 12012 or MATH 12021.
Corequisite: PHY 13021.
Schedule Type: Lecture, Recitation
Contact Hours: 3 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

PHY 13002 GENERAL COLLEGE PHYSICS II (KBS) 4 Credit Hours
Principles of electricity and magnetism, optics and modern physics. Three hours lecture and one hour recitation weekly.
Prerequisite: PHY 13001 or PHY 23101.
Corequisite: PHY 13022.
Schedule Type: Lecture, Recitation
Contact Hours: 3 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

PHY 13012 COLLEGE PHYSICS II (KBS) 2 Credit Hours
Principles of classical physics, primarily electricity and magnetism.
Prerequisite: PHY 13001 or PHY 23101.
Schedule Type: Lecture, Recitation
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) 1 Credit Hour
Introductory lab to accompany PHY 13001.
Corequisite: PHY 13001.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences, TAG Natural Science Lab

PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) 1 Credit Hour
Introductory lab to accompany PHY 13002 or PHY 13012.
Corequisite: PHY 13002 or PHY 13012.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences, TAG Natural Science Lab

PHY 20095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced when scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 20096 INDIVIDUAL INVESTIGATION IN PHYSICS 1-6 Credit Hours
(Repeatable for credit) Individual projects in physics.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP

PHY 21040 PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS) 3 Credit Hours
Descriptive introduction to physics underlying selected forms of art and entertainment. Examples are drawn from music, visual arts and communications media. Not counted toward requirements for physics major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

PHY 21041 PHYSICS IN ENTERTAINMENT AND THE ARTS LABORATORY (KBS) (KLAB) 1 Credit Hour
Laboratory component of PHY 21040, two hours weekly.
Pre/corequisite: PHY 21040.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

PHY 21430 FRONTIERS IN ASTRONOMY (KBS) 3 Credit Hours
Modern description of astrophysical observations, the results of these observations and the physical principles based on them. Not counted toward requirements for physics major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

PHY 21431 FRONTIERS IN ASTRONOMY LABORATORY (KBS) (KLAB) 1 Credit Hour
Laboratory component of PHY 21430.
Pre/corequisite: PHY 21430.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

PHY 22564 INTRODUCTION TO MATERIALS PHYSICS 3 Credit Hours
Survey of mechanical and electronic properties of materials with application in science and technology. Metals, semiconductors, ceramics, polymers and liquid crystals, and other special materials will be addressed.
Prerequisite: PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) 5 Credit Hours
Principles of mechanics, heat and sound at calculus level.
Pre/corequisite: MATH 12002.
Schedule Type: Laboratory, Lecture
Contact Hours: 4 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB) 5 Credit Hours
Principles of electricity, magnetism, light and modern physics at calculus level.
Prerequisite: PHY 13001 or PHY 23101.
Pre/corequisite: MATH 12003.
Schedule Type: Laboratory, Lecture
Contact Hours: 4 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

PHY 30020 INTERMEDIATE PHYSICS LABORATORY (WIC) 2 Credit Hours
Experiments in classical and modern physics are selected to accompany and supplement junior-level physics courses.
Pre/corequisite: PHY 36001.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PHY 30095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced when scheduled.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 32511 ELECTRONICS 4 Credit Hours
"Hands-on" course to give the student a working knowledge of analog electronics and of AC and DC circuits typically used by the scientist.
Prerequisite: MATH 12002 and; PHY 13002 or PHY 23102.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

PHY 34000 COSMOLOGY 3 Credit Hours
This course will provide a quantitative introduction to modern cosmology, from the Big Bang to the formation of the first stars. Subjects include the evolution of the geometry and temperature of the universe its composition and select aspects of general relativity.
Prerequisite: PHY 36001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 35101 CLASSICAL MECHANICS 4 Credit Hours
Modern description of mechanics including both Lagrangian and Hamilton formulations, with applications to central force, motion, coupled oscillations, rigid body motion and motion in non-inertial reference frames.
Prerequisite: PHY 23102.
Pre/corequisite: MATH 32051.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 36001 INTRODUCTORY MODERN PHYSICS 3 Credit Hours
Special theory of relativity, Rutherford-Bohr model of atom, quantization of light, matter waves, Schroedinger equation, hydrogen atom, electron spin, multi-electron atoms.
Prerequisite: MATH 12003 and PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 36002 APPLICATIONS OF MODERN PHYSICS 3 Credit Hours
Survey of applications of twentieth century physics. Topics include molecular bonding, conducting and insulating solids, degenerate matter, quantum condensates, subatomic and sub-nuclear particle physics, cosmology.
Prerequisite: PHY 36001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 40020 ADVANCED PHYSICS LABORATORY (WIC) 2 Credit Hours
(Slashed with PHY 50020) Advanced experiments in classical and modern physics are selected to accompany and supplement senior-level physics courses.
Prerequisite: PHY 30020.
Pre/corequisite: 6 credit hours of 40000-level Physics (PHY) courses.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PHY 40060 PHYSICAL LITERATURE 1-3 Credit Hours
Study of current or topical literature.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 40092 INTERNSHIP IN PHYSICS (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised capstone experience in physics at a national laboratory, a research university in industry or at a local research site. No more than 3 credit hours may be applied toward the major electives for physics majors.
Prerequisite: Permission.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PHY 40095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced when scheduled.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 40096 INDIVIDUAL INVESTIGATION (ELR) 1-3 Credit Hours
(Slashed with PHY 50096)(Repeatable for credit) Individual projects for physics majors and minors.
Prerequisite: PHY 23102; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PHY 40099 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours
(Repeatable for credit) Thesis for departmental, general or university honors must be 1-10 hours with continuous registration throughout the senior year beginning in the summer prior to the senior year. Students taking this course must consult with their department and the Honors College and receive approval prior to the first semester of the senior year.
Prerequisite: Honors senior standing; and special approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 1-10 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PHY 40195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with PHY 50195) Topic announced when scheduled.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 41010 BIOPHOTONICS 3 Credit Hours
(Slashed with PHY 51010) (Cross-listed with BSCI 41110 and BSCI 51110 and CHEM 41010 and CHEM 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

PHY 44600 INTRODUCTION TO BIOLOGICAL PHYSICS 3 Credit Hours
Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics.
Prerequisite: PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 44802 ASTROPHYSICS 3 Credit Hours
(Slashed with PHY 54802) Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), nonoptical astronomies and description of various cosmological theories.
Prerequisite: MATH 12003.
Pre/corequisite: PHY 13002 or PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 45201 ELECTROMAGNETIC THEORY 4 Credit Hours
Properties of electric and magnetic fields developed by vector methods. Treatment on static fields in vacuum and matter. Theory of classical electromagnetic fields with emphasis on dynamic fields.
Prerequisite: MATH 32052 and PHY 23102.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 45301 THERMAL PHYSICS 3 Credit Hours
(Slashed with PHY 55301) An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering.
Prerequisite: PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 45401 MATHEMATICAL METHODS IN PHYSICS 4 Credit Hours
Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations.
Prerequisite: MATH 32052.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 45403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES 3 Credit Hours
(Slashed with PHY 55403) Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques.
Prerequisite: MATH 12003 and PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 45501 ELECTROMAGNETIC WAVES AND MODERN OPTICS 3 Credit Hours
(Slashed with PHY 55501) Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light devices and spectroscopic techniques based on modern optics.
Prerequisite: PHY 23102; and MATH 22005 or MATH 32051 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 46101 QUANTUM MECHANICS 4 Credit Hours
Systematic introduction to the principles and solution techniques of quantum mechanics, including the Schroedinger equation in one and three dimensions. Topics include: angular momentum formalism, introductory Dirac notation and vector space formalism, intrinsic spin, identical particle systems and perturbation theory.
Prerequisite: PHY 36001.
Pre/corequisite: MATH 32052.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 46301 INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS 4 Credit Hours
(Slashed with PHY 56301) Introduction to nuclear and particle physics including particle detectors and accelerators, experimental techniques, nuclear fission and fusion, nuclear reactors, medical applications and connections to astrophysics and cosmology.
Prerequisite: PHY 36001.
Pre/corequisite: MATH 32051.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 46401 INTRODUCTION TO SOLID STATE PHYSICS 3 Credit Hours
(Slashed with PHY 56401) Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research.
Prerequisite: PHY 36001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 50020 ADVANCED PHYSICS LABORATORY 2 Credit Hours
(Slashed with PHY 40020) Advanced experiments in classical and modern physics are selected to accompany and supplement graduate-level physics courses.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

PHY 50093 VARIABLE TITLE WORKSHOP IN PHYSICS 1-6 Credit Hours
(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of physics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PHY 50095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Topic announced when scheduled.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 50096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Slashed with PHY 40096)(Repeatable for credit) Individual projects for physics graduate students.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

PHY 50195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with PHY 40195) Topic announced when scheduled.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 51010 BIOPHOTONICS 3 Credit Hours
(Slashed with PHY 41010) (Cross-listed with BSCI 41110 and BSCI 51110 and CHEM 41010 and CHEM 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

PHY 54600 INTRODUCTION TO BIOLOGICAL PHYSICS 3 Credit Hours
Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 54802 ASTROPHYSICS 3 Credit Hours
(Slashed with PHY 44802) Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), nonoptical astronomies and description of various cosmological theories.
Prerequisite: MATH 12003; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 55201 ELECTROMAGNETIC THEORY 4 Credit Hours
Properties of electric and magnetic fields developed by vector methods. Treatment of static fields in vacuum and matter. Theory of classical electromagnetic fields with emphasis on dynamic fields.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 55301 THERMAL PHYSICS 3 Credit Hours
(Slashed with PHY 45301) An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering.
Prerequisite: PHY 36001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 55401 MATHEMATICAL METHODS IN PHYSICS 4 Credit Hours
Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations.
Prerequisite: MATH 32052; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 55403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES 3 Credit Hours
(Slashed with PHY 45403) Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques.
Prerequisite: MATH 12003 and PHY 23102; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 55501 ELECTROMAGNETIC WAVES AND MODERN OPTICS 3 Credit Hours
(Slashed with PHY 45501) Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light devices and spectroscopic techniques based on modern optics.
Prerequisite: PHY 55201; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 56101 QUANTUM MECHANICS 4 Credit Hours
Systematic introduction to the principles and solution techniques of quantum mechanics, including the Schroedinger equation in one and three dimensions. Topics include: angular momentum formalism, introductory Dirac notation and vector space formalism, intrinsic spin, identical particle systems, and perturbation theory.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 56301 INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS 4 Credit Hours
(Slashed with PHY 46301) Introduction to nuclear and particle physics including particle detectors and accelerators, experimental techniques, nuclear fission and fusion, nuclear reactors, medical applications and connections to astrophysics and cosmology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 56401 INTRODUCTION TO SOLID STATE PHYSICS 3 Credit Hours
(Slashed with PHY 46401) Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research.
Prerequisite: PHY 36002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 60091 PHYSICS SEMINAR 1 Credit Hour
(Repeatable for credit)Discussion of current literature or of original research in physics. Participation by students, faculty and guests.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 60093 VARIABLE TITLE WORKSHOP IN PHYSICS 1-6 Credit Hours
(Repeatable for credit)Workshops individually designed to provide instruction and training in specific areas of physics.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

PHY 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation. Credits earned may be applied toward meeting degree requirements if department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

PHY 60199 THESIS I 2-6 Credit Hours
Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval of advisor.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 60295 ADVANCED TOPICS 1-3 Credit Hours
(Repeatable for credit) Selected special topics of current research interest.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

PHY 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: PHY 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 64101 ADVANCED PROBLEM SOLVING IN PHYSICS 3 Credit Hours
(Slashed with PHY 74101) The course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized.
Prerequisite: PHY 65101 or PHY 65203 or PHY 66161 or PHY 65301; or graduate standing; and departmental instructor approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 65101 CLASSICAL MECHANICS 3 Credit Hours
Lagrange's equations, variational principles, two-body central force problem and rigid body motion. Hamilton's equations, canonical transformations, Hamilton-Jacobi theory and small oscillations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 65203 CLASSICAL ELECTRODYNAMICS I 3 Credit Hours
Introduction to electrostatics, boundary-value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 65204 CLASSICAL ELECTRODYNAMICS II 3 Credit Hours
Plane electromagnetic waves, simple radiating systems, scattering, special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung.
Prerequisite: PHY 65203; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 65301 STATISTICAL MECHANICS I 4 Credit Hours
An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 66161 QUANTUM MECHANICS I 3 Credit Hours
Fundamental concepts of non-relativistic quantum mechanics. Solution of simple one dimensional problems. Abstract Hilbert-space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 66162 QUANTUM MECHANICS II 3 Credit Hours
Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single particle wave equations.
Prerequisite: PHY 66161; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 66201 PARTICLE PHYSICS 3 Credit Hours
Discussion of particle detectors, invariance principles and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of field theory, the Standard Model and selected topics of current interest.
Prerequisite: PHY 66162; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 66401 SOLID STATE PHYSICS I 3 Credit Hours
Crystalline state, with emphasis on wave propagation, zone and band theory, phonons. Applications to electrical and thermal conductivities, specific heats, optical, dielectric and magnetic properties.
Prerequisite: PHY 56101 or PHY 66161; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 66403 ADVANCED CONDENSED MATTER PHYSICS 3 Credit Hours
(Slashed with PHY 76403) Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems and the experimental methods that probe them.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 68401 LIQUID CRYSTAL PHYSICS 3 Credit Hours
The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications.
Prerequisite: Graduate standing in physics or chemical physics.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 70095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Topic announced when scheduled.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 74101 ADVANCED PROBLEM SOLVING IN PHYSICS 3 Credit Hours
The course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized.
Prerequisite: PHY 65101 or PHY 65203 or PHY 66161 or PHY 65301; or doctoral standing; and departmental instructor approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 75101 CLASSICAL MECHANICS 3 Credit Hours
Lagrange's equations, variational principles, two-body central force problems, rigid body motion, Hamilton's equations, canonical transformations, Hamilton-Jacobi theory, small oscillations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 75203 CLASSICAL ELECTRODYNAMICS I 3 Credit Hours
Introduction to electrostatics, boundary value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 75204 CLASSICAL ELECTRODYNAMICS II 3 Credit Hours
Plane electromagnetic waves, simple radiating systems, scattering special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung.
Prerequisite: PHY 65203; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 75301 STATISTICAL MECHANICS I 4 Credit Hours
An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 76161 QUANTUM MECHANICS I 3 Credit Hours
Fundamental concepts of non-relativistic quantum mechanics. Solution of simple one dimensional problems. Abstract Hilbert space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76162 QUANTUM MECHANICS II 3 Credit Hours
Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single particle wave equations.
Prerequisite: PHY 66161; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76163 QUANTUM MECHANICS III 3 Credit Hours
Second quantization and field theory formalism are developed for the many-particle system. Topics include the electron gas and nuclear matter.
Prerequisite: PHY 66162; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76201 PARTICLE PHYSICS 3 Credit Hours
Discussion of particle detectors, invariance principles and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of a field theory, the Standard Model and selected topics of current interest.
Prerequisite: PHY 66162 or 76162; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76303 APPLICATIONS OF QUANTUM CHROMODYNAMICS 3 Credit Hours
Introduces the key attributes and techniques of Quantum Chromodynamics, which is the relativistic quantum field theory of the strong interaction. Topics treated include the properties, structure and interactions of strongly interacting sub-nuclear particles (hadrons) and the physics of hadronic and nuclear matter at finite temperature and density, as applicable to modern nuclear particle physics research.
Prerequisite: PHY 76163.
Corequisite: PHY 66201 or PHY 76201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76401 SOLID STATE PHYSICS I 3 Credit Hours
Crystalline state, with emphasis on wave propagation zone and band theory phonons. Applications to electrical and thermal conductivities specific heats optical dielectric and magnetic properties.
Prerequisite: PHY 56101 or PHY 66161 or 76161; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76403 ADVANCED CONDENSED MATTER PHYSICS 3 Credit Hours
(Slashed with PHY 66403) Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems, and the experimental methods that probe them.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 78401 LIQUID CRYSTAL PHYSICS 3 Credit Hours
The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications.
Prerequisite: Doctoral standing in physics or chemical physics.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 80091 PHYSICS SEMINAR 1 Credit Hour
(Repeatable for credit) Discussion of current literature or of original research in physics. Participation by students, faculty and guests.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 80097 PHYSICS COLLOQUIUM 1 Credit Hour
(Repeatable for credit)Presentation by invited speakers of research and other topics on graduate level followed by discussion period. Regular attendance of all physics majors expected. Three or more meetings each semester as arranged.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 80098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy exams. Credit earned may be applied toward the degree if the department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required; the first of which will be the semester in which dissertation work is begun, and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: PHY 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Department of Political Science

Political Science (POL)

POL 10004 COMPARATIVE POLITICS (DIVG) (KSS) 3 Credit Hours
Introduces the different institutional structures of governance (e.g.,parliamentary versus presidential systems) in a range of different states for different types of regimes (e.g. democratic and authoritarian) and at the international level.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

POL 10100 AMERICAN POLITICS (DIVD) (KSS) 3 Credit Hours
Covers the basic elements of politics at the national level in the United States, including structures, processes, behaviors, institutions and policies. Special emphasis is given to conflicting theories of power as they apply to different economic, sexual and racial groups.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

POL 10200 INTRODUCTION TO THE AMERICAN LEGAL PROFESSION 3 Credit Hours
This course initially explores the historical and contemporary understanding of American law and political jurisprudence, or legal theory. Thereafter, the key role attorneys play in the legal system and within American society is analyzed by studying the legal profession's origins, education, ethics, professional licensing and legal and/or alternative legal employment opportunities. A special emphasis of the course is learning to develop a professional identity that values commitments to providing public service, acting as active or responsible citizens in the polity and public affairs and working to achieve impartially derived peaceful and civil resolutions to contentious disputes in an adversarial system of justice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 10300 PUBLIC POLICY 3 Credit Hours
Course provides a survey of basic public policy concepts and processes within an historical context. Course incorporates applied work to bridge conceptual understanding and empirical cases.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 10500 WORLD POLITICS (DIVG) (KSS) 3 Credit Hours
A practical, theoretical introduction to a study of systematic patterns in international relations. Includes analysis of rules, instruments, processes, decision- making factors, conflict resolution.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

POL 30000 MAY 4 1970 AND ITS AFTERMATH 3 Credit Hours
(Cross-listed with PACS 30000) Study of the events of the 1960s in the United States leading up to May 4, 1970, when the Ohio National Guard killed and wounded Kent State University students protesting the war in Vietnam and Cambodia. Topics are considered within their cultural, historical, social and political contexts. Course also examines the aftermath of May 4, including the controversy over constructing the Gym Annex on the site of the shootings, the legal trials, the role of commemorations and memorials and the politics of remembering May 4, 1970.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30001 RESEARCH METHODS (ELR) 3 Credit Hours
Course is designed to bring students to a basic level of statistical literacy by introducing the fundamentals of research design and interpretation, as well as basic descriptive and inferential statistics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 30002 POLITICAL THOUGHT 3 Credit Hours
Courses introduces students to basic methodological and substantive concerns in the tradition of western political thought.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30003 POLITICAL ECONOMY 3 Credit Hours
Introduction to the fundamental questions surrounding the relationship between the public and private sectors, considered from the perspective of the state and its major political institutions. Of central concern is the growing internationalization of capital and its consequences for both domestic and international politics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30100 AMERICAN POLITICAL THEORY 3 Credit Hours
Major political ideas and controversies associated with the development of American political thought. Nonmajors should contact the Department of Political Science for a prerequisite override.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30110 THE CONGRESS 3 Credit Hours
This course covers elections, the powers of Congress and its organization, leadership of the two houses, role of the parties, relationships with the chief executive and executive agencies, as well as recent reforms enacted by the House and Senate.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30120 PRESIDENCY AND EXECUTIVE BUREAUCRACY 3 Credit Hours
Intensive study of the American presidency, focusing on personality, organization of the office, use and misuse of power and policy making.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30130 THE JUDICIAL PROCESS 3 Credit Hours
Intensive study of the judicial process in the United States and the relationship between the judicial system and larger American social system.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30301 INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours
Introduction to the theory and practice of governmental administration, including structure, organization, direction and control of governmental departments and agencies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30350 ENVIRONMENTAL CONFLICT RESOLUTION 3 Credit Hours
(Cross-listed with PACS 35050) Examines environmental conflicts, such as land use disputes and resource conflicts, and conflict resolution theory and processes applicable to environmental disputes, especially biodiversity conservation and natural resource conflicts. Students learn about environmental conflict analysis, multistakeholder environmental dispute resolution, dialogue processes, conflict-sensitivity, and environmental cooperation among others. Case studies of environmental conflicts and participatory simulations are used.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30430 OHIO POLITICS 3 Credit Hours
Addresses the history, structure, and current practices of politics and public policy in Ohio.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30450 URBAN POLITICS AND POLICY 3 Credit Hours
Discusses local governance in the context of metropolitan change, and covers issues such as governing capacity, local democracy, individual choice and economic and racial inequality. Examines the formal and informal arrangements that shape change and public policy. Non-majors should contact the Department of Political Science for a prerequisite override.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30460 STATE POLITICS AND POLICY 3 Credit Hours
Introduces the theoretical and legal infrastructures of federalism and intergovernmental relations, with a particular emphasis on political and policy operations at the state level. Political behavior and institutions, as well as the specifics of selected, substantive policy areas are emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30500 INTERNATIONAL RELATIONS THEORY 3 Credit Hours
Course introduces competing theoretical approaches to the study of international relations; an examination of the historical developments followed by an examination of current issues in world politics.
Prerequisite: POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30520 EUROPEAN POLITICS (DIVG) 3 Credit Hours
Examines major European national political systems (British, French, German, Russian and Scandinavian) relations between the European states, the institutions of the European Union and prospects and problems of European integration.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30530 ASIAN POLITICS (DIVG) 3 Credit Hours
Introduction to the political, economic and social dynamics of Asia, from Siberia in the north to the Indian Ocean in the south, and from the Pacific Ocean in the east to the Hindu Kush in the west. The first part of the course examines Asia's modern political history (particularly the past half-century). The second part of the course focuses on contemporary issues, including the roles of the United States and sub-regional actors, such as the Association of Southeast Asian Nations (ASEAN).
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30540 AFRICAN POLITICS (DIVG) 3 Credit Hours
An analysis of major issues in African politics and international relations. The contemporary development of Africa will be analyzed in the global context of the historical forces of imperialism and colonialism.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30550 LATIN AMERICAN POLITICS (DIVG) 3 Credit Hours
Analysis of political culture/process in selected Latin American states, with particular emphasis on Mexico, Brazil, Argentina and Columbia.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30560 MIDDLE EAST POLITICS (DIVG) 3 Credit Hours
Introduces students to the theory and context of politics in the Middle East in a way that contests the often-simplistic stereotypes communicated through Western media and throughout Western culture, in order to encourage a more nuanced appreciation of the Middle East. Theoretical approaches utilized include modernization, dependency, structuralism and constructivism.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30570 PALESTINE AND ISRAEL (DIVG) 3 Credit Hours
(Cross-listed with INTS 30570) Course introduces students to academic approaches and theories that attempt to understand the situation in historic Palestine. The course is divided into four sections: (1) theories of settler colonialism and basic differences between Judaism, Zionism and Israeli society, as well as diversity within Palestinian society; (2) comparative studies of the establishment of the modern state of Israel, which Palestinians view in their collective experience as "the Catastrophe" or al-Nakba; (3) the occupation of East Jerusalem, the West Bank and Gaza, and how that system has changed over time; (4) pathways forward for Palestinians and Israelis.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30810 POLITICS OF THE GLOBAL ECONOMY 3 Credit Hours
Examines interaction between economics and politics in international relations. Topics include poverty and uneven economic development, political prerequisites for free trade, intra-western and north-south economic conflict and distributive justice.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30820 INTERNATIONAL ORGANIZATION AND LAW 3 Credit Hours
Course introduces the subject matter in historical and theoretical contexts, then devotes detailed attention to the full range of international organizations that exist today. A final section addresses the role of international law in world politics.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30840 NONGOVERNMENTAL ORGANIZATIONS 3 Credit Hours
Introduction to the diverse range of nongovernmental organizations that exist today. Course explores the varying roles on nongovernmental organizations in setting agendas, shaping legislation and implementing public policy reforms.
Prerequisite: POL 10004 or POL 10300 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 39592 GENEVA INTERNSHIP (ELR) 3 Credit Hours
(Repeatable for credit) Students perform intern duties as part of the semester in Geneva.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 40091 VARIABLE TOPIC SEMINAR 3 Credit Hours
(Slashed with POL 50091 and POL 70091) Variable topic seminar in political science.
Prerequisite: POL 10004 or POL 10500; and POL 10100 or POL 10300; and POL 30001; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40112 POLITICS AND THE MASS MEDIA 3 Credit Hours
Course examines the multiple roles played by the mass media in contemporary politics and analyzes the implications of those roles. Nonmajors should contact the Department of Political Science for a prerequisite override.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40116 PUBLIC OPINION AND POLITICAL BEHAVIOR 3 Credit Hours
Analysis of determinants of public opinion and political behavior. Study of how public makes up its mind and impact of public opinion on government policy.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40118 POLITICAL PARTIES AND INTEREST GROUPS 3 Credit Hours
An examination of the changing roles of political parties and interest groups in the American political system, including a comparison of their respective electoral activities.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40182 CONSTITUTIONAL LAW: GOVERNMENTAL STRUCTURES AND FUNCTIONS 3 Credit Hours
Nature and scope of constitutional government. Study of judicial review, separation of powers, federalism, commerce and taxation.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40183 CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD) 3 Credit Hours
Nature and scope of constitutional limitations. Study of first amendment, freedom of expression, freedom of religion, criminal rights, due process, equal protection.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

POL 40191 SEMINAR IN AMERICAN POLITICS (WIC) 3 Credit Hours
(Repeatable for credit) A required, writing-intensive seminar for juniors and seniors in the American Politics concentration. The focus of the seminar varies depending on content and instructor.
Prerequisite: POL 10004 or 10500; and POL 10100 or 10300; and POL 30001 and POL 30002 (or POL 30003); and political science major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

POL 40320 ETHICS AND PUBLIC POLICY 3 Credit Hours
The ethical obligations of public policy makers are examined in this course, within a series of applied cases. The goal is to empower students with the intellectual tools of critical analysis within diverse policy environments.
Prerequisite: POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40391 SEMINAR IN PUBLIC POLICY (WIC) 3 Credit Hours
(Repeatable for credit) A required, writing intensive seminar for juniors and seniors in the Public Policy concentration. The focus of the seminar varies depending on content and instructor.
Prerequisite: POL 10004 or POL 10500;and POL 10100 or 10300; and POL 30001 and POL 30002 (or POL 30003); and political science major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

POL 40440 U.S. ENVIRONMENTAL POLITICS AND POLICIES 3 Credit Hours
Course covers such topics as the history of the U.S. environmental movement; public opinion and environmental issues; environmental racism and classism; and environmental policy making and implementation.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40450 HEALTH CARE AND SOCIAL POLICY 3 Credit Hours
Addresses health care policy in the United States from both theoretical (political, economic as well as public policy) and substantive perspectives at the state, national and comparative-international levels. Further, the examination of health care policy takes place in the context of social welfare policy more broadly considered.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40470 WOMEN, POLITICS AND POLICY (DIVD) 3 Credit Hours
Examines origins, development and current record of century-old women's movement unique in U.S. annals; compares it with other contemporary social movements. Examines issues of women and public policy.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

POL 40530 POLITICS OF WAR 3 Credit Hours
Examines central questions concerning the justification, explanation characteristic features and consequences of war. Specific cases are examined such as World War II, the Chinese Revolution, Vietnam's civil war and potential nuclear war.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40540 POLITICS OF DEVELOPMENT (DIVG) 3 Credit Hours
Examines practice, record and theories of political development for less developed, developing and developed political systems. Includes extensive analysis of issues, problems through case studies.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 40560 HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG) 3 Credit Hours
(Cross-listed with INTS 40560) Examines the relationship between human rights and problems of the Third World in the civic, political, social and cultural arenas. Particular attention is placed on the struggle of women.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 40589 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) Faculty-led study abroad programs.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

POL 40591 SEMINAR IN INTERNATIONAL RELATIONS-COMPARATIVE POLITICS (WIC) 3 Credit Hours
(Repeatable for credit) A required, writing-intensive seminar for juniors or seniors in the International Relations-Comparative Politics concentration. The focus of the seminar varies depending on content and instructor. International Relations majors who have completed POL 10004, POL 10500 and 6 credit hours of courses in the International Relations-Comparative Politics concentration may request a prerequisite override from the Department of Political Science.
Prerequisite: POL 10004 or POL 10500; and POL 10100 or POL 10300; and POL 30002 or POL 30003; and political science major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

POL 40620 POLITICS OF SOCIAL MOVEMENTS (DIVD) 3 Credit Hours
Examines the role of social movements both in the United States and around the world. Focuses on labor, environmental, social justice and other initiatives in the push for political and economic democracy. North-South, public-private, labor-management and regional perspectives are emphasized.
Prerequisite: POL 10004 or POL 10100 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

POL 40840 COMPARATIVE FOREIGN POLICY 3 Credit Hours
Comparative analysis of foreign policy patterns and determinants on the basis of the examination of foreign policy of selected countries.
Prerequisite: POL 10004 or POL 10300 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40930 U.S. FOREIGN POLICY 3 Credit Hours
Examines policy objectives, patterns of decision-making and foreign policy actions, roles of interest groups, public opinion, congress, executive and external influences on policy.
Prerequisite: POL 10004 or POL 10100 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40992 INTERNSHIP (ELR) 1-9 Credit Hours
(Repeatable for credit) Allows academic credit for approved participation in a variety of political processes, or as an intern with governmental or private agencies dealing with public affairs.
Prerequisite: Minimum 2.000 overall GPA; and special approval.
Schedule Type: Field Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

POL 40993 VARIABLE TITLE WORKSHOP IN POLITICAL SCIENCE 1-6 Credit Hours
(Repeatable for credit) Workshop topic varies per course offering.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

POL 40995 SELECTED TOPICS IN POLITICAL SCIENCE 1-3 Credit Hours
(Repeatable for credit) Special course, not regularly offered. Subject varies depending on the emerging issue, staff availability and competencies.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

POL 40996 INDEPENDENT STUDY 1-3 Credit Hours
(Repeatable for credit) For students desiring research into subjects beyond level of completed course work, or on subjects for which no regular course is offered.
Prerequisite: Any two of the following courses: POL 10004, POL 10100, POL 10300, and POL 10500; minimum 2.750 overall GPA; and junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

POL 41990 COLUMBUS PROGRAM IN STATE ISSUES (ELR) 15 Credit Hours
(Repeatable for credit) Annual fall semester resident-study in Columbus. Students spend three days per week working at an internship and two days per week attending briefings and completing course studies.
Prerequisite: Minimum 2.500 overall GPA; and special approval.
Schedule Type: Lecture, Practical Experience, Seminar, Study Away
Contact Hours: 7 lecture, 24 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 42990 WASHINGTON PROGRAM IN NATIONAL ISSUES (ELR) 15 Credit Hours
(Repeatable for credit) Annual spring semester resident-study in Washington, D.C. Credit hours divided among three units: lecture and course work, on-site briefings seminar and internship.
Prerequisite: Minimum 2.750 overall GPA; and junior standing; and special approval.
Schedule Type: Lecture, Practical Experience, Seminar, Study Away
Contact Hours: 7 lecture, 24 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 43001 WICKED PROBLEMS: TACKLING GLOBAL ISSUES IN THE 21ST CENTURY 3 Credit Hours
(Cross-listed with ESCI 43001 and GEOG 43070) This course provides an overview and analysis of the United Nations Sustainable Development Goals (SDG), as well as strategies that can be used for tackling them. The SDGs address the most serious problems faced by humankind today. These include poverty, hunger, inequality, climate change, economic development and environmental sustainability. A key characteristic of the SDGs is that they are known as “wicked problems.” Wicked problems are complex issues that resist conventional approaches to problem solving, and for which existing solutions often create unintended consequences that only make the original problem worse. Emphasis is placed on problems of collective action, evidence-based public policies and interdisciplinary approaches to addressing global issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 43002 THE POLITICS OF INEQUALITY 3 Credit Hours
This course introduces students to national and transnational politics and policies that produce wealth, poverty and inequality. Along the way, it examines a range of sustainable development goals including, but not limited to, the elimination of poverty and hunger, access to quality education, decent work, reduced inequalities and responsible consumption and production. The course reviews different national or transnational case studies to assess different views and approaches to these goals. Consideration is given to them as a complex set of interconnected issues that involve education, occupation, well-being and the distribution of wealth in society. Additionally, the course examines political and policy issues that are barriers to reducing inequality.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 43003 GOOD GOVERNANCE AND SUSTAINABLE DEVELOPMENT 3 Credit Hours
This course focuses on the development of policies and institutions that are necessary for justice and good governance. It also introduces students to the system of international relations and growing body of international institutions that deliver and implement policies at the transnational level. Along the way, the course examines a range of United Nations Sustainable Development Goals (SDG). These include, but are not limited to, peace, justice, strong institutions and international partnerships. Students develop an understanding of the importance of effective political, civil and international institutions for establishing peace, prosperity and well-being.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 43499 CAPSTONE IN GLOBAL ISSUES (ELR) 1 Credit Hour
This course serves as the capstone to the certificate in Global Issues. Students integrate the concepts they have learned and relate them to their major field of study and/or professional endeavors.
Prerequisite: None.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 50091 VARIABLE TOPIC SEMINAR 3 Credit Hours
(Slashed with POL 40091 and POL 70091) Variable topic seminar in political science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 51191 SEMINAR: PROBLEMS IN AMERICAN GOVERNMENT 3 Credit Hours
(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate American government course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

POL 51391 SEMINAR: PROBLEMS IN PUBLIC POLICY 3 Credit Hours
(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate public policy course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

POL 51591 SEMINAR: PROBLEMS IN INTERNATIONAL RELATIONS/ COMPARATIVE GOVERNMENT 3 Credit Hours
(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate international/comparative government course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

POL 60002 SCOPE AND EPISTEMOLOGY 3 Credit Hours
(Slashed with POL 70002) Introduces students to the philosophy of science and scientific inquiry within the context of the social sciences. Course presents a broad survey of leading paradigms and debates within political science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60003 QUANTITATIVE METHODS I 3 Credit Hours
(Slashed with POL 70003) Provides a selective introduction to basic quantitative methods for the analysis of political and public policy data dealing with basic descriptive and inferential statistics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60004 QUANTITATIVE METHODS II 3 Credit Hours
(Slashed with POL 70004) Introduces students to multivariate quantitative techniques appropriate for the analysis of political and public policy data.
Prerequisite: POL 60003; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60010 QUALITATIVE RESEARCH METHODS 3 Credit Hours
(Slashed with POL 70010) Introduces the principles and methods of qualitative research, examining the place of qualitative research alongside discussions about positivist, interpretivist and critical approaches. A variety of qualitative research methods are introduced including social observation and ethnography, interviewing, discourse analysis, oral history, document analysis, historical analysis and case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60099 CAPSTONE SEMINAR 3 Credit Hours
Directed research to use completed coursework to identify ways in which scholarship speaks to application, e.g., in the non-profit, policy, consulting or programming world.
Prerequisite: Graduate standing.
Schedule Type: Master's Project, Research
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

POL 60101 STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 70101) Course provides a broad survey of the policy-making process in the U.S. government. Coverage includes formal government structures, as well as more informal networks of private groups that seek to influence public policy at the national level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60102 AMERICAN POLICY PROCESS 3 Credit Hours
(Slashed with POL 70102) Course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation implementation and evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60103 CONGRESS, THE PRESIDENCY AND THE COURTS 3 Credit Hours
(Slashed with POL 70103) Focuses on the three branches of the U.S. government, specifically Congress, the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60106 URBAN POLICY AND POLITICS 3 Credit Hours
(Slashed with POL 70106) Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policymaking.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60108 AMERICAN POLITICAL BEHAVIOR 3 Credit Hours
(Slashed with POL 70108) Explores scholarship on the behavior of non-elite political actors, including various forms of electoral participation, voting, psychological attachment, affect, cognition, perception, attitude and belief. Additional topics include ethnic, racial and gender politics; political participation; voting choice; political psychology; politics and networks; macro politics; and connecting individual-level and macro-level findings with democratic outcomes and citizen capacity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60191 SEMINAR IN AMERICAN POLITICS AND POLICY 3 Credit Hours
(Repeatable for credit)(Slashed with POL 70191) Seminar on current and important topics in American politics and policy. Subject matter varies depending on the emerging issue. Course may be repeated for credit toward a degree with departmental approval.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 60501 STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 70501) Course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60502 GLOBAL GOVERNANCE 3 Credit Hours
(Slashed with POL 70502) Course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process, including nation-states, intergovernmental organizations and nongovernmental organizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60503 FOREIGN POLICY ANALYSIS 3 Credit Hours
(Slashed with POL 70503) Course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis and policy domains.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60507 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours
(Cross-listed with PACS 60070)(Slashed with POL 70507) Throughout the past 30 years, many states and societies have negotiated complicated transitions from authoritarianism, widespread human rights violations and intractable civil conflict toward various degrees of justice, truth-telling, reconciliation and democracy. Some have done it well and some have not; policy certainly matters in this politically potent arena. For example, political memory and accountability may be swept under the public rug—doing so may, or may not, trip up an experiment in democracy. Alternatively, truth-telling and justice may, or may not, be a springboard for reconciliation, healing and citizen empowerment. In this course, we focus on the policies and mechanisms used to constructively confront impunity and come to terms with past horrors. We analyze various international institutions like war crimes tribunals and truth commissions and various local mechanisms like Rwanda's Gacaca courts. We also study the differing roles of reparations paid to victims for past injustices, amnesties granted to former government officials, immunity being traded for truth-telling about the past and the impacts of commemoration and memorialization.
Prerequisite: POL 60501; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60510 POLITICS OF DEVELOPMENT 3 Credit Hours
(Slashed with POL 70510) Course surveys the scholarship on political development, examining the ways in which the conceptualization of development has evolved over time, looking specifically at institutionalization, state failure and the role of civil society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60591 SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours
(Repeatable for credit)(Slashed with POL 70591) Seminar on current and important topics in transnational and comparative politics and policy. Subject matter varies depending on the emerging issue.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 60901 FOUNDATIONS OF CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Cross-listed with PACS 60000) (Slashed with POL 70901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60902 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours
(Cross-listed with PACS 60021)(Slashed with POL 70902) Examines power disparities and gender as sources of conflict in multiple arenas—including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphases is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60903 IDENTITY DRIVEN CONFLICTS 3 Credit Hours
(Cross-listed with PACS 60020)(Slashed with POL 70903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60904 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours
(Cross-listed with PACS 60022)(Slashed with POL 70904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60906 POLITICAL VIOLENCE 3 Credit Hours
(Slashed with POL 70906) Examines the dynamics, networks, interests and resource mobilization underlying state-sponsored political violence, focusing on "low-intensity conflict" and counter-insurgency, paramilitarism and genocide. Of special interest is the relationship of the state to various non-state actors, both perpetrators and victims, and the role of the international community in domestic-level violence.
Prerequisite: POL 60501 or POL 60901; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60907 TERRORISM AND HUMAN RIGHTS 3 Credit Hours
(Slashed with POL 70907) Examines how governments try to adhere to the rule of law in managing terrorist threats in a post 9-11 era, striking a balance between the competing demands of public safety, personal freedom and human rights. Topics include understanding terrorism as a problem for western governments, the rule of law and human rights.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60991 SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Repeatable for credit) (Slashed with POL 70991) Seminar on current and important topics in conflict analysis and management. Course may be repeated for credit toward a degree with departmental approval.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 61094 COLLEGE TEACHING IN POLITICAL SCIENCE 1 Credit Hour
(Repeatable for credit)(Slashed with POL 71094) Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum 4 credit hours applicable toward a degree with graduate studies committee approval.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

POL 61098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credit hours may be applied toward meeting degree requirements with department approval and when a letter grade is given.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

POL 61199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

POL 61299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: POL 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

POL 69091 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours
(Repeatable for credit) (Slashed with POL 79091) Focuses on select topics in quantitative methods, including limited and categorical dependent variables, hierarchical linear models, panel data, structural equation modeling and Q Methodology. More than one seminar may be offered.
Prerequisite: POL 60004; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 69095 SPECIAL TOPICS IN POLITICAL SCIENCE AND PUBLIC POLICY 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)(Slashed with POL 79095) Topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70002 SCOPE AND EPISTEMOLOGY 3 Credit Hours
(Slashed with POL 60002) Introduces students to the philosophy of science and scientific inquiry within the context of the social sciences. Course presents a broad survey of leading paradigms and debates within political science.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70003 QUANTITATIVE METHODS I 3 Credit Hours
(Slashed with POL 60003) Provides a selective introduction to basic quantitative methods for the analysis of political and public policy data dealing with basic descriptive and inferential statistics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70004 QUANTITATIVE METHODS II 3 Credit Hours
(Slashed with POL 60004) Introduces students to multivariate quantitative techniques appropriate for the analysis of political and public policy data.
Prerequisite: POL 70003; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70010 QUALITATIVE RESEARCH METHODS 3 Credit Hours
(Slashed with POL 60010) Introduces the principles and methods of qualitative research, examining the place of qualitative research alongside discussions about positivist, interpretivist and critical approaches. A variety of qualitative research methods are introduced including social observation and ethnography, interviewing, discourse analysis, oral history, document analysis, historical analysis and case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70091 VARIABLE TOPIC SEMINAR 3 Credit Hours
(Slashed with POL 40091 and 50091) Variable topic seminar in political science.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70101 STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 60101) Course provides a broad survey of the policy-making process in the U.S. government. Coverage includes formal government structures, as well as more informal networks of private groups that seek to influence public policy at the national level.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70102 AMERICAN POLICY PROCESS 3 Credit Hours
(Slashed with POL 60102) Course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation implementation and evaluation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70103 CONGRESS, THE PRESIDENCY AND THE COURTS 3 Credit Hours
(Slashed with POL 60103) Focuses on the three branches of the U.S. government, specifically Congress, the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70106 URBAN POLICY AND POLITICS 3 Credit Hours
(Slashed with POL 60106) Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policymaking.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70108 AMERICAN POLITICAL BEHAVIOR 3 Credit Hours
(Slashed with POL 60108) Explores scholarship on the behavior of non-elite political actors, including various forms of electoral participation, voting, psychological attachment, affect, cognition, perception, attitude and belief. Additional topics include ethnic, racial and gender politics; political participation; voting choice; political psychology; politics and networks; macro politics; and connecting individual-level and macro-level findings with democratic outcomes and citizen capacity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70191 SEMINAR IN AMERICAN POLITICS AND POLICY 3 Credit Hours
(Repeatable for credit) (Slashed with POL 60191) Seminar on current and important topics in American politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 70195 SPECIAL TOPICS IN PUBLIC ADMINISTRATION 3 Credit Hours
(Repeatable for maximum 12 credit hours)(Slashed with PADM 60195) Topic varies per course offerings.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70198 RESEARCH IN PUBLIC ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward a degree with department approval.
Prerequisite: Political science major; and doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

POL 70371 GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours
(Slashed with PADM 60371) Introductory course to the theory and study of public administration. Topics include evolution and characteristics of the modern nation state; core functions of public bureaucracy in any nation state; intergovernmental relations; formal and informal institutions and their role in policy; legal-regulatory processes; historical evolution of public administration as an academic field; and major paradigms in organization theory and internal organizational dynamics.
Prerequisite: Political science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70377 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT 3 Credit Hours
(Slashed with PADM 60377) Focuses on two aspects of public financial analysis: budgeting and financial management. The topics in budgeting are the basic purposes of budgets as mechanisms of resource control and allocation, and as legal documents; distinct budget formats and cross-walking of formats; budget preparation; legislative review; implementation and auditing. The topics in financial management are the mechanisms and tools for financing public operations, debt management, fund accounting, analyzing budgets and forecasting.
Prerequisite: Political Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70379 PROGRAM EVALUATION I 3 Credit Hours
(Slashed with PADM 60379) Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and specifically the techniques utilized under different evaluation formats.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70386 PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT 3 Credit Hours
(Slashed with PADM 60386) Management of information technology systems in the public sector. Specific focus on: planning and acquisition of hardware and software and networking technologies, organizational governance and implementation, information security and privacy, legal requirements, IT service delivery and emerging enterprise technologies.
Prerequisite: Political Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70387 ELECTRONIC GOVERNANCE 3 Credit Hours
(Slashed with PADM 60387) An introduction to electronic governance with an emphasis on public administration. Examines the implications of information and communication technology in public organizations with regard to democracy, civic engagement and performance improvement. Through case studies from the United States and across the world, students become familiar with the factors and issues surrounding the implementation of electronic governance on a comparative basis.
Prerequisite: Political Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70392 INTERNSHIP IN PUBLIC ADMINISTRATION 3 Credit Hours
(Repeatable for credit) Provides an opportunity for students to gain practical experience and be exposed to processes of public decision making and policy development.
Prerequisite: Political Science major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

POL 70470 PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE 3 Credit Hours
(Slashed with PADM 60470) Focus is on students internalizing their role in the public service as stewards of the public trust. Topics covered include dimensions of stewardship: maintaining personal honor, protecting the liberty and dignity of the citizen, dimensions of justice, anti-corruption, incorporating principles of stewardship in their personal decision making and throughout the organization.
Prerequisite: Political Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70471 NONPROFIT LAW 3 Credit Hours
(Slashed with PADM 60471) Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax-exempt status, basic requirements for establishing and operating nonprofit organizations specifically in Ohio.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70472 NONPROFIT BOARD-EXECUTIVE RELATIONS 3 Credit Hours
(Slashed with PADM 60472) Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities and governance structures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70475 CAPSTONE SEMINAR 3 Credit Hours
(Repeatable for credit) Students complete an approved, written project that is analytical and research-based.
Prerequisite: Political Science major; and doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

POL 70477 NONPROFIT FINANCIAL RESOURCE DEVELOPMENT 3 Credit Hours
(Slashed with PADM 60477) Successful strategies for fundraising and resource development for nonprofit organizations. Students are exposed to fundraising in practice and write a resource development plan.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70501 STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 60501) Course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70502 GLOBAL GOVERNANCE 3 Credit Hours
(Slashed with POL 60502) Course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process, including nation-states, intergovernmental organizations and nongovernmental organizations.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70503 FOREIGN POLICY ANALYSIS 3 Credit Hours
(Slashed with POL 60503) Course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis and policy domains.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70507 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours
(Slashed with PACS 60070 and POL 60507) Throughout the past 30 years, many states and societies have negotiated complicated transitions from authoritarianism, widespread human rights violations and intractable civil conflict toward various degrees of justice, truth-telling, reconciliation and democracy. Some have done it well and some have not; policy certainly matters in this politically potent arena. For example, political memory and accountability may be swept under the public rug—doing so may, or may not, trip up an experiment in democracy. Alternatively, truth-telling and justice may, or may not, be a springboard for reconciliation, healing and citizen empowerment. In this course, we focus on the policies and mechanisms used to constructively confront impunity and come to terms with past horrors. We analyze various international institutions like war crimes tribunals and truth commissions and various local mechanisms like Rwanda's Gacaca courts. We also study the differing roles of reparations paid to victims for past injustices, amnesties granted to former government officials, immunity being traded for truth-telling about the past and the impacts of commemoration and memorialization.
Prerequisite: POL 70501; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70510 POLITICS OF DEVELOPMENT 3 Credit Hours
(Slashed with POL 60510) Course surveys the scholarship on political development, examining the ways in which the conceptualization of development has evolved over time, looking specifically at institutionalization, state failure and the role of civil society.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70574 STRATEGIC PLANNING 3 Credit Hours
(Slashed with PADM 60574) Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70591 SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 60591) (Repeatable for credit) Seminar on current and important topics in transnational and comparative politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 70901 FOUNDATIONS OF CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Slashed with PACS 60000 and POL 60901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70902 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours
(Slashed with PACS 60021 and POL 60902) Examines power disparities and gender as sources of conflict in multiple arenas—including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphases is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70903 IDENTITY DRIVEN CONFLICTS 3 Credit Hours
(Slashed with PACS 60020 and POL 60903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70904 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours
(Slashed with PACS 60022 and POL 60904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70906 POLITICAL VIOLENCE 3 Credit Hours
(Slashed with POL 60906) Examines the dynamics, networks, interests and resource mobilization underlying state-sponsored political violence, focusing on "low-intensity conflict" and counter-insurgency, paramilitarism and genocide. Of special interest is the relationship of the state to various non-state actors, both perpetrators and victims, and the role of the international community in domestic-level violence.
Prerequisite: POL 70501 or POL 70901; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70907 TERRORISM AND HUMAN RIGHTS 3 Credit Hours
(Slashed with POL 60907) Examines how governments try to adhere to the rule of law in managing terrorist threats in a post 9-11 era, thus striking a balance between the competing demands of public safety, personal freedom, and human rights. Topics include understanding terrorism as a problem for western governments, the rule of law, and human rights.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70991 SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Repeatable for credit) (Slashed with POL 60991) Seminar on current and important topics in conflict analysis and management. Course may be repeated for credit toward a degree with departmental approval.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 71094 COLLEGE TEACHING IN POLITICAL SCIENCE 1 Credit Hour
(Repeatable for credit)(Slashed with POL 61094) Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum 4 credit hours applicable toward a degree with graduate studies committee approval.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

POL 79091 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours
(Repeatable for credit) (Slashed with POL 69091) Focuses on select topics in quantitative methods, including limited and categorical dependent variables, hierarchical linear models, panel data, structural equation modeling and Q Methodology. More than one seminar may be offered.
Prerequisite: POL 70004; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 79095 SPECIAL TOPICS IN POLITICAL SCIENCE AND PUBLIC POLICY 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)(Slashed with POL 69095) Topic varies per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 81098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if department approves and when letter grade is given.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

POL 81199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration during at least two semesters is required, and the first of which is the semester during which dissertation work begins and continues until the completion of 30 credit hours. Doctoral students must complete a minimum of 30 credit hours post-master's (or equivalent advanced degree) or a minimum of 60 credit hours post-bachelor's to receive special approval to enroll in POL 81199.
Prerequisite: Political Science major; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

POL 81299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required for doctoral students who have completed the initial 30 credit hours of POL 81199 and continuing until all degree requirements are met.
Prerequisite: 30 credit hours of POL 81199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Public Administration (PADM)

PADM 60195 SPECIAL TOPICS IN PUBLIC ADMINISTRATION 3 Credit Hours
(Repeatable for credit) (Cross-listed with POL 70195) Topic varies per course offerings.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60198 RESEARCH IN PUBLIC ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward a degree with department approval.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

PADM 60200 NONPROFIT ADVOCACY 3 Credit Hours
This course explores the U.S. public-policy making process as it applies to nonprofit organizations. Nonprofits influence policy making or "advocacy" through a variety of methods, such as lobbying, campaigning, protesting, and policy monitoring. The course explores how nonprofit organizations both shape and are shaped by public policy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60310 LEADERSHIP IN THE NONPROFIT AND PUBLIC SECTOR 3 Credit Hours
This course teaches students theory, practice, and skills for leading non-profit and public organizations. Topics include: organizational theory and behavior; organizational culture; integrity and ethics; group dynamics; conflict management; and creating an environment that promotes diversity and inclusion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60371 GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours
(Cross-listed with POL 70371) Introductory course to the theory and study of public administration. Topics include evolution and characteristics of the modern nation state; core functions of public bureaucracy in any nation state; intergovernmental relations; formal and informal institutions and their role in policy; legal-regulatory processes; historical evolution of public administration as an academic field; and major paradigms in organization theory and internal organizational dynamics.
Prerequisite: Public administration major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60375 PUBLIC PERSONNEL ADMINISTRATION 3 Credit Hours
Study of public personnel systems, including underlying system values and current problems with emphasis on skill development and understanding of techniques for public personnel managers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60376 LABOR MANAGEMENT RELATIONS IN THE PUBLIC SECTOR 3 Credit Hours
This course focuses on issues peculiar to public sector labor relations, including the impact of public employee unionism on traditional merit systems and personnel policy decision processes.
Prerequisite: PADM 60375; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60377 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT 3 Credit Hours
(Cross-listed with POL 70377) Focuses on two aspects of public financial analysis: budgeting and financial management. The topics in budgeting are the basic purposes of budgets as mechanisms of resource control and allocation, and as legal documents; distinct budget formats and cross-walking of formats; budget preparation; legislative review; implementation and auditing. The topics in financial management are the mechanisms and tools for financing public operations, debt management, fund accounting, analyzing budgets and forecasting.
Prerequisite: Public administration major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60379 PROGRAM EVALUATION I 3 Credit Hours
(Cross-listed with POL 70379) Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and specifically the techniques utilized under different evaluation formats.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60381 METHODS IN PUBLIC ADMINISTRATION 3 Credit Hours
This course is a graduate-level introduction to statistical methods and their use in public administration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60382 SEMINAR IN PUBLIC ADMINISTRATION 3 Credit Hours
Study of selected problem areas in public service organizations with emphasis on understanding the factors contributing to them, their solution and literature bearing on the problems.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60386 PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT 3 Credit Hours
(Cross-listed with POL 70386) Management of information technology systems in the public sector. Specific focus on: planning and acquisition of hardware and software and networking technologies, organizational governance and implementation, information security and privacy, legal requirements, IT service delivery and emerging enterprise technologies.
Prerequisite: Public administration major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60387 ELECTRONIC GOVERNANCE 3 Credit Hours
(Slashed with POL 70387) An introduction to electronic governance with an emphasis on public administration. Examines the implications of information and communication technology in public organizations with regard to democracy, civic engagement and performance improvement. Through case studies from the United States and across the world, students become familiar with the factors and issues surrounding the implementation of electronic governance on a comparative basis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60392 INTERNSHIP IN PUBLIC ADMINISTRATION 3 Credit Hours
(Repeatable for credit)Provides an opportunity for students to gain practical experience and be exposed to processes of public decision making and policy development.
Prerequisite: Public administration major; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

PADM 60470 PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE 3 Credit Hours
(Cross-listed with POL 70470) Focus is on students internalizing their role in the public service as stewards of the public trust. Topics covered include dimensions of stewardship: maintaining personal honor, protecting the liberty and dignity of the citizen, dimensions of justice, anti-corruption, incorporating principles of stewardship in their personal decision making and throughout the organization.
Prerequisite: Public administration major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60471 NONPROFIT LAW 3 Credit Hours
(Cross-listed with POL 70471) Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax exempt status, basic requirements for establishing/operating nonprofit organizations specifically in Ohio.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60472 NONPROFIT BOARD EXEC RELATIONS 3 Credit Hours
(Cross-listed with POL 70472) Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities and governance structures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60477 NONPROFIT FINANCIAL RESOURCE DEVELOPMENT 3 Credit Hours
(Cross-listed with POL 70477) Successful strategies for fundraising and resource development for nonprofit organizations. Students are exposed to fundraising in practice and write a resource development plan.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60499 PORTFOLIO AND CAPSTONE 3 Credit Hours
During this culminating semester of the M.P.A. program, students engage in three key activities to demonstrate their comprehensive understanding and skills developed throughout the course. These activities include: (1) craft a reflective capstone paper that describes the skills and expertise gained throughout M.P.A. courses and link them to core competencies, (2) compile a portfolio showcasing their most significant works from the core M.P.A. courses, representing their proficiency in each of the five main competencies, and (3) complete an online exit survey as a formal conclusion to the M.P.A. program.
Prerequisite: Public Administration major; and graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

PADM 60574 STRATEGIC PLANNING 3 Credit Hours
(Cross-listed with POL 70574) Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Department of Psychological Sciences

Psychology (PSYC)

PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS) 3 Credit Hours
Introduction to the scientific approach to understanding human behavior and mental processes such as emotions, perceptions and cognitions. Topics may include personality, social and environmental factors, biological aspects of behavior and the experience of emotion and psychological disorders.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

PSYC 20651 CHILD PSYCHOLOGY (DIVD) (KSS) 3 Credit Hours
A review of the data, concepts and theories of psychology that contribute to the understanding of child development from conception to age 14.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

PSYC 21211 PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS) 3 Credit Hours
A review of theories, concepts and data that contribute to the understanding of human adjustment. Topics may include the following: personality, stress and coping, transitions from adolescence to adulthood, psychological disorders and psychotherapy.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

PSYC 21621 QUANTITATIVE METHODS IN PSYCHOLOGY I 3 Credit Hours
Application of quantitative, statistical methods in psychological research. Descriptive and inferential methods (includes ANOVA, t-test and correlation).
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30005 CAREER PATHWAYS IN PSYCHOLOGY 1 Credit Hour
Designed to equip students with a better understanding of the career pathways available to them in psychology at the bachelor's and graduate level. Using a combination of videos, articles and activities, students learn about many different topics and strategies related to careers and the graduate school application process.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PSYC 30111 FORENSIC PSYCHOLOGY 3 Credit Hours
Surveys major areas of forensic psychology, which focuses on the application of the science and profession of psychology to legal settings. Topics include roles and responsibilities of forensic psychologists, forensic assessment, psychological theories of criminal behavior, law enforcement psychology and eyewitness testimony.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30651 ADOLESCENT PSYCHOLOGY 3 Credit Hours
Students review the theories, concepts and data that contribute to the understanding of the physical, intellectual, educational, personality and social development of adolescents in contemporary society.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

PSYC 30652 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours
Processes and findings in social and personality development, with a focus on childhood and adolescence. Students examine individual differences, as well as developmental changes, in social function and personality.
Prerequisite: PSYC 11762; and HDF 24012 or PSYC 20651.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30655 CHILDREN'S THINKING 3 Credit Hours
Focuses on how children's cognitive processes and mental representations change from infancy to early adulthood. Theoretical claims, empirical findings and methodological issues are critically evaluated. Topics include children's visual and auditory perception, language and literacy, learning and memory, mathematical and spatial thinking, logical and scientific reasoning, problem solving, theory of mind and social cognition.
Prerequisite: PSYC 11762; and HDF 24012 or PSYC 20651.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30656 PSYCHOLOGY OF AGING 3 Credit Hours
Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30821 PSYCHOLOGY OF MOTIVATION 3 Credit Hours
Factors that provide the energy and direction for behaviors, emotions and cognitive processes. Seeks to answer the question "why" concerning the things people do, feel and think. A survey approach is used to include both the traditional and newly emerging concepts in motivation.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30822 SPORT PSYCHOLOGY 3 Credit Hours
Introduction to the use of psychological theories and interventions in sport and performance settings. Can include topics such as performance anxiety, maintaining focus under pressure, motivation, leadership, among others.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 31141 PERCEPTION 3 Credit Hours
Investigates how humans detect, organize and interpret information from the environment. Considers how both biological and psychological process create and influence our perception of the world.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 31282 PERSONALITY 3 Credit Hours
A review of the data, concepts and theories of psychology that contribute to the understanding of personality.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

PSYC 31498 UNDERGRADUATE RESEARCH (ELR) 1-6 Credit Hours
(Repeatable for credit) Individual research open to qualified students.
Prerequisite: PSYC 11762; and special approval.
Schedule Type: Research
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PSYC 31532 SOCIAL PSYCHOLOGY 3 Credit Hours
Study of environmental/situational influences on a person's thoughts, behaviors and feelings-focus on topics such as aggression, attitudes and behaviors, conformity, helping, personal relationships and social cognition.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY (ELR) 3 Credit Hours
The rationale, logic and procedures of scientific research in psychology with an emphasis on measurement, causal inference and research design.
Prerequisite: PSYC 11762 and PSYC 21621.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PSYC 31684 QUANTITATIVE METHODS IN PSYCHOLOGY II 3 Credit Hours
Small sample theory, analysis of variance, linear regression and nonparametric statistics (e.g. Chi Square). Course may include qualitative analyses and computer- based data analyses with SPSS software.
Prerequisite: PSYC 21621.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 31773 INDUSTRIAL PSYCHOLOGY 3 Credit Hours
Application of principles, facts and theories of psychology to people at work. Includes motivation and satisfaction at work, personnel selection and placement, training and development, performance appraisal, organizational development, quality of work life, ergonomics and consumer psychology.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40111 PSYCHOPATHOLOGY 3 Credit Hours
Survey of the definitions as well as the biological, psychological and sociocultural causes of various psychological disorders. Illustrations of these disorders with cases. Overview of treatment approaches to these disorders may be included.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

PSYC 40112 PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE 3 Credit Hours
Covers the biological, psychological and socio-cultural factors influencing the development of psychological disorders in children and adolescents. Emphasis is placed on conceptual and research issues and the application of knowledge to understanding diagnosis and case studies of specific disorders.
Prerequisite: PSYC 11762; and HDF 24012 or PSYC 20651 or PSYC 30651; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40231 PSYCHOLOGICAL ASSESSMENT 3 Credit Hours
Introduction to psychometrics and test theory. Use and basic interpretation of intellectual and personality tests. Skills in using tests at a professional level not given.
Prerequisite: PSYC 11762 and PSYC 21621.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40382 PEDIATRIC PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 50382 and PSYC 70382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.
Prerequisite: PSYC 20651; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40383 INTRODUCTION TO CLINICAL PSYCHOLOGY 3 Credit Hours
Application of psychological principles and techniques to the problems of the individual. Course is designed to introduce the field of clinical psychology, including models of understanding abnormal behavior, treatment of individuals and ethics and professional issues.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40445 COGNITIVE PSYCHOLOGY 3 Credit Hours
Covers the mental processes that underline human thought and behavior, such as attention, memory, comprehension, reasoning, problem-solving and language. Considers established and current theoretical models, research methods and experimental results.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40446 COGNITIVE NEUROSCIENCE 3 Credit Hours
Covers the cognitive and neural processes that underlie vision, attention, spatial processing, memory, language, social processes, executive functioning and action. Introduces basic brain structure and the behavioral and functional imaging techniques used to study the brain bases of cognition. Data from patients with neurological disorders such as Alzheimer's, aphasia, amnesia are also examined.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40461 PSYCHOLOGY OF LANGUAGE 3 Credit Hours
Investigates psychological processes involved in language production, comprehension and development. Within each broad area emphasis is on theories, psychological experiments, key findings and the relationships between theory, method and data.
Prerequisite: PSYC 11762 and PSYC 40445.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40625 DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD) 3 Credit Hours
A life-span, developmental model is used to analyze the changes that occur with age in gender-related role performance and identity formation.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

PSYC 40974 HISTORY OF PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 50974) Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems, theories and fundamental issues with which psychologists have concerned themselves in past and contemporary stages of the science.
Prerequisite: PSYC 11762; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41043 BASIC LEARNING PROCESSES 3 Credit Hours
Examination of basic principles of Pavlovian conditioning, instrumental conditioning, animal learning and memory processes and animal cognition. Emphasis on major empirical phenomena derived from research with animals with reference to related psychological processes in humans.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41363 BIOPSYCHOLOGY 3 Credit Hours
Rigorous course covering the relationship between brain and behavior at the physiological, chemical and anatomical levels. Focuses on the association between the central nervous system and various processes and behaviors such as learning, emotions, neurological disorders and psychopathology. Students with no background or coursework in biological science should plan to devote considerable time to mastering the relevant concepts for this course (e.g., structure and function of neurons).
Prerequisite: PSYC 11762; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41364 DRUGS AND BEHAVIOR 3 Credit Hours
Provides an overview of drug taking in society, the actions of drugs in the body and the effects of drugs on behavior. Focus is on drugs and the nervous system, psychopharmacology and actions and side effects of such drugs as alcohol, opiates, stimulants, marijuana, hallucinogens, depressants and performance-enhancing drugs. Particular focus is on medications for psychiatric disorders, abuse-potential and the causes of addiction, dependence and relapse.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 51395 and PSYC 71395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41492 INTERNSHIP IN PSYCHOLOGY (ELR) 1-6 Credit Hours
(Repeatable for credit) Application of psychological knowledge and skills in applied settings. Allows academic credit for participation as an intern at approved internship sites, including social service, non-profit agencies, government agencies and hospital settings.
Prerequisite: 9 credit hours of psychology courses; and minimum 3.000 overall GPA; and psychology major; and junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 7-42 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PSYC 41495 SPECIAL TOPICS IN PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of research theory or methodology may be covered. Specific topics announced.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PSYC 41498 INDIVIDUAL INVESTIGATION (ELR) 1-6 Credit Hours
(Repeatable for maximum 16 credit hours) Involves participation in empirical research, review of psychological literature and preparation of a paper or annotated bibliography.
Prerequisite: PSYC 11762; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PSYC 41573 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: SOCIAL/CLINICAL (WIC) 3 Credit Hours
(Repeatable for credit) Intensive experience in the conduct, analysis and reporting of empirical research in social or clinical psychology. Specific content varies with instructor.
Prerequisite: PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PSYC 41574 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: COGNITIVE/LEARNING (WIC) 3 Credit Hours
(Repeatable for credit) Intensive experience in the conduct, analysis and reporting of empirical research in cognitive psychology or human/animal learning. Specific content varies with instructor.
Prerequisite: PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 overall GPA; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PSYC 41581 HEALTH PSYCHOLOGY 3 Credit Hours
Role of psychological and social factors in health and illness, typically covering three general areas: (1) psychological factors affecting disease, (2) psychological and social consequences of illness and (3) psychotherapeutic interventions.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41584 THE PSYCHOLOGY OF EXERCISE 3 Credit Hours
Provides an introduction to exercise psychology, which is the application of psychology to promote, maintain, enhance and explain the parameters of exercise. Course introduces students to the cutting-edge research and practical application of exercise psychology. Topics include use of psychological theory to predict adoption and adherence to exercise behavior; social and personality influences on exercise behavior; research on effectiveness of various exercise interventions; and consequences of exercise, including mental health states such as depression and anxiety, emotional well-being, self-esteem, self-concept, health-related quality of life and cognition.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 51595 and PSYC 71595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Topic varies per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41901 WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour
Writing-intensive course taken in conjunction with a 3-credit-hour, upper-division psychology course (may not be taken with PSYC 31498, PSYC 41498, PSYC 41573, PSYC 41574 or PSYC 41993).
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PSYC 41980 RESEARCH WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour
Writing-intensive course taken in conjunction with PSYC 31574.
Pre/corequisite: PSYC 31574.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PSYC 41993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit) Specific topic varies per course offering.
Prerequisite: PSYC 11762; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PSYC 42574 ADVANCED RESEARCH METHODS 3 Credit Hours
Course helps students integrate information learned in previous courses to better understand the process of conducting research in the field of psychology. Through hands-on experiences, students use basic statistical analyses to answer hypotheses; review scientific literature and generate hypotheses; test hypotheses using a dataset and present research findings.
Prerequisite: PSYC 31574; and minimum 3.200 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 43001 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with PSYC 53001 and PSYC 73001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Minimum 3.250 overall GPA; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 43002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with PSYC 53002 and PSYC 73002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Minimum B grade in BSCI 30140 or BSCI 30156 or BSCI 30520 or PSYC 41363; and minimum 3.250 overall GPA; and junior standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 43003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with PSYC 53003 and PSYC 73003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: BSCI 30520 or PSYC 41363 with a minimum B grade; and minimum 3.250 overall GPA; and junior standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 47385 BROKEN BRAINS: INTRODUCTION TO CLINICAL NEUROPSYCHOLOGY 3 Credit Hours
Clinical neuropsychology is the study of brain-behavior relationships or the ways in which the brain allows people to think, feel and behave in their everyday life. Course introduces students to cutting-edge research into the inner workings of the brain in both healthy individuals and those with neurological disorders (e.g. Alzheimer's disease, brain injury, ADHD, bipolar disorder). Topics include organization of the brain; how people learn, pay attention and solve problems; brain plasticity; neurological disorders; and neuropsychological assessment.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 47387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours
(Slashed with PSYC 57387 and PSYC 77387) (Cross-listed with NEUR 47387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactivetherapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 50382 PEDIATRIC PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 40382 and PSYC 70382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 50974 HISTORY OF PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 40974) Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems theories and fundamental issues with which psychologists have concerned themselves in past and contemporary states of the science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 51395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 41395 and PSYC 71395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 51595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 41595 and PSYC 71595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 51993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit) Specific topic varies per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PSYC 53001 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with PSYC 43001 and PSYC 73001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 53002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with PSYC 43002 and PSYC 73002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Graduate standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 53003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with PSYC 43003 and PSYC 73003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: Graduate standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 57387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours
(Slashed with PSYC 47387 and PSYC 77387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactivetherapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60105 DEVELOPMENTAL PSYCHOPATHOLOGY 3 Credit Hours
(Slashed with PSYC 70105) Nature and theoretical explanations of various forms of psychopathology in children and adults. Students learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD 3 Credit Hours
(Slashed with PSYC 70110) Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT 3 Credit Hours
(Slashed with PSYC 70170) An examination of the etiology, symptomology and theoretical models of adult psychopathology.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60192 INTEGRATION PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives.
Prerequisite: PSYC 60292 and PSYC 60792; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1-3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 60272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 70272) Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students become familiar with major psychological tests.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT 3 Credit Hours
(Slashed with PSYC 70273) Examines psychodiagnosis within a context of "personality-as-a-coherent-whole." Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations.
Prerequisite: PSYC 60272; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD 3 Credit Hours
(Slashed with PSYC 70274) Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments and assessment of special-child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation.
Prerequisite: PSYC 60272 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60275 BEHAVIORAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 70275) Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues.
Prerequisite: PSYC 60272 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 70276) Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60292 PSYCHOLOGICAL ASSESSMENT PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Applied aspects of material presented in PSYC 60272. Emphasis on administering, scoring and interpreting major assessment tools.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Corequisite: PSYC 60272.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 60324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 70324) Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60371 INTRODUCTION TO PSYCHOLOGICAL THERAPY 3 Credit Hours
(Slashed with PSYC 70371) Introduction to psychotherapy, with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60375 COGNITIVE BEHAVIOR THERAPY 3 Credit Hours
(Slashed with PSYC 70375) Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.
Prerequisite: PSYC 60371 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60376 CHILD PSYCHOTHERAPY 3 Credit Hours
(Slashed with PSYC 70376) Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies and child therapy research. Emphasis on integration of theory, technique and research.
Prerequisite: PSYC 60371; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60395 ADVANCED TOPICS IN CLINICAL PSYCHOLOGY 1-6 Credit Hours
(Slashed with PSYC 70395)(Repeatable for credit) Advanced-level consideration of selected content areas in assessment, psychotherapy psycho pathology professional issues and community psychology. Specific topic varies per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

PSYC 60453 INTRODUCTION TO COGNITIVE PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 70453) Information-processing approaches to human thought. Focus on processes used to transform store manipulate and retrieve sensory input. Topics include attention pattern recognition memory and language.
Prerequisite: Clinical Psychology or Psychological Science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60592 PRACTICUM IN DIAGNOSTIC INTERVIEWING 1-3 Credit Hours
(Repeatable for credit) Covers skills clinical psychologists must possess to help clients, effectively work within the field, communicate effectively with peers and colleagues and excel as a clinical researcher. Provides a foundation of skills, knowledge and expertise necessary to competently conduct a diagnostic interview, and provides an introduction to the process of conceptualize a client's presenting problem(s).
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

PSYC 60792 PSYCHOTHERAPY PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Basic training in applied aspects of psychotherapy. Through didactic and experiential methods, students learn basic listening and communication skills that are then applied to specific techniques, situations and issues.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Corequisite: PSYC 60371.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 60895 ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with PSYC 70895) Advanced-level consideration of selected content areas in experimental psychology. Specific topic varies per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

PSYC 60950 HISTORY AND CONTEMPORARY SYSTEMS 3 Credit Hours
(Slashed with PSYC 70950) Relationships between historical antecedents and the major contemporary systems and theories of psychology.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61054 LEARNING AND CONDITIONING 3 Credit Hours
(Slashed with PSYC 71054) Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena particularly as these are exemplified in animal models of behavior.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 61260 THEORIES OF PERSONALITY 3 Credit Hours
(Slashed with PSYC 71260) Consideration of major theoretical orientations, including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: PSYC 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 61350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 71350) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61498 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits may be applied toward meeting degree requirements with department approval and when satisfactory grade is given.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 61548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours
(Slashed with PSYC 71548) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61580 SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 71580) Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61651 QUANTITATIVE STATISTICAL ANALYSIS I 3 Credit Hours
(Slashed with PSYC 71651) Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two-semester sequence on statistical analysis.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61654 QUANTITATIVE STATISTICAL ANALYSIS II 3 Credit Hours
(Slashed with PSYC 71654) Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61685 CLINICAL RESEARCH METHODS 3 Credit Hours
(Slashed with PSYC 71685) Consideration of research methodologies relevant to clinical psychology, with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit) Workshop topic varies per course offering.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PSYC 62392 CLINICAL PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 62492 ADVANCED PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model.
Prerequisite: PSYC 60192 and PSYC 60292 and PSYC 60792; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 62685 RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE 3 Credit Hours
(Slashed with PSYC 72685) Course fosters the development of graduate students as independent researchers by helping them acquire knowledge of and facility with quantitative research methods in psychology. The course covers a range of topics that are essential for successful research in psychology, including formulating research questions, measurement, research design, sampling, ethics, writing, replication and validity.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70105 DEVELOPMENTAL PSYCHOPATHOLOGY 3 Credit Hours
(Slashed with PSYC 60105) Nature and theoretical explanations of various forms of psychopathology in children and adults. Students learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD 3 Credit Hours
(Slashed with PSYC 60110) Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT 3 Credit Hours
(Slashed with PSYC 60170) An examination of the etiology, symptomology and theoretical models of adult psychopathology.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70192 INTEGRATION PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives.
Prerequisite: PSYC 70292 and PSYC 70792; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 70272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 60272) Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students become familiar with major psychological tests.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT 3 Credit Hours
(Slashed with PSYC 60273) Examines psychodiagnosis within a context of "personality-as-a-coherent-whole." Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations.
Prerequisite: PSYC 70272; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD 3 Credit Hours
(Slashed with PSYC 60274) Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments and assessment of special-child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation.
Prerequisite: PSYC 70272 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70275 BEHAVIORAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 60275) Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues.
Prerequisite: PSYC 70272 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 60276) Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70292 PSYCHOLOGICAL ASSESSMENT PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Applied aspects of material presented in PSYC 70272. Emphasis on administering, scoring and interpreting major assessment tools.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Corequisite: PSYC 70272.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 70324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 60324) Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70371 INTRODUCTION TO PSYCHOLOGICAL THERAPY 3 Credit Hours
(Slashed with PSYC 60371) Introduction to psychotherapy, with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70375 COGNITIVE BEHAVIOR THERAPY 3 Credit Hours
(Slashed with PSYC 60375) Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.
Prerequisite: PSYC 70371 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70376 CHILD PSYCHOTHERAPY 3 Credit Hours
(Slashed with PSYC 60376) Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies and child therapy research. Emphasis on integration of theory technique and research.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70382 PEDIATRIC PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 40382 and PSYC 50382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70392 SUPERVISED CLINICAL EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) Post-practicum, psychological service provision and/or research activities in institution or agency under supervision of licensed psychologist and by arrangement of department of psychology.
Prerequisite: PSYC 72392; and doctoral standing; and special approval.
Schedule Type: Field Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 70395 ADVANCED TOPICS IN CLINICAL PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with PSYC 60395) Advanced-level consideration of selected content areas in assessment, psychotherapy, psychopathology, professional issues and community psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

PSYC 70413 COGNITIVE NEUROPSYCHOLOGY 3 Credit Hours
The effect of brain injury and anomalous neurological development on cognitive skills such as language, perception and memory are explored.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70453 INTRODUCTION TO COGNITIVE PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 60453) Information-processing approaches to human thought. Focus on processes used to transform, store, manipulate and retrieve sensory input. Topics include attention, pattern recognition, memory and language.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70592 PRACTICUM IN DIAGNOSTIC INTERVIEWING 1-3 Credit Hours
(Repeatable for credit) Covers skills clinical psychologists must possess to help clients, effectively work within the field, communicate effectively with peers and colleagues and excel as a clinical researcher. Provides a foundation of skills, knowledge and expertise necessary to competently conduct a diagnostic interview, and provides an introduction to the process of conceptualize a client's presenting problem(s).
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

PSYC 70604 COGNITIVE DEVELOPMENT 3 Credit Hours
Examination of theories and research concerning changes in memory, perception, thought and language over the life span.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70615 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours
Examination of theories and research in social development, with a focus on how personal relationships influence personality development.
Prerequisite: Clinical psychology or psychological Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70792 PSYCHOTHERAPY PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Basic training in applied aspects of psychotherapy. Through didactic and experiential methods, students learn basic listening and communication skills that are then applied to specific techniques situations and issues.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 70895 ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with PSYC 60895) Advanced-level consideration of selected content areas in experimental psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

PSYC 70950 HISTORY AND CONTEMPORARY SYSTEMS 3 Credit Hours
(Slashed with PSYC 60950) Relationships between historical antecedents and the major contemporary systems and theories of psychology.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71054 LEARNING AND CONDITIONING 3 Credit Hours
(Slashed with PSYC 61054) Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena, particularly as these are exemplified in animal models of behavior.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71260 THEORIES OF PERSONALITY 3 Credit Hours
(Slashed with PSYC 61260) Consideration of major theoretical orientations, including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 61350) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 41395 and PSYC 51395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours
(Slashed with PSYC 61548) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71580 SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 61580) Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 41595 and PSYC 51595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology related to counseling careers. Topic varies per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71651 QUANTITATIVE STATISTICAL ANALYSIS I 3 Credit Hours
(Slashed with PSYC 61651) Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two-semester sequence on statistical analysis.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71654 QUANTITATIVE STATISTICAL ANALYSIS II 3 Credit Hours
(Slashed with PSYC 61654) Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis.
Prerequisite: PSYC 71651; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71685 CLINICAL RESEARCH METHODS 3 Credit Hours
(Slashed with PSYC 61685) Consideration of research methodologies relevant to clinical psychology, with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71894 COLLEGE TEACHING OF PSYCHOLOGY 3 Credit Hours
(Repeatable for maximum 6 credit hours) Training and experience in college teaching.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

PSYC 71993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credt) Workshop topic varies per course offering.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PSYC 72392 CLINICAL PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 72492 ADVANCED PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model.
Prerequisite: PSYC 70192 and PSYC 70292 and PSYC 70792; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 72685 RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE 3 Credit Hours
(Slashed with PSYC 62685) Course fosters the development of graduate students as independent researchers by helping them acquire knowledge of and facility with quantitative research methods in psychology. The course covers a range of topics that are essential for successful research in psychology, including formulating research questions, measurement, research design, sampling, ethics, writing, replication and validity.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 73001 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with PSYC 43001 and PSYC 53001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 73002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with PSYC 43002 and PSYC 53002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Doctoral standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 73003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with PSYC 43003 and PSYC 53003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: Doctoral standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 77387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours
(Slashed with PSYC 47387 and PSYC 57387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactivetherapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 80391 SEMINAR IN CLINICAL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) Seminar devoted to detailed study of various topics in field of clinical psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PSYC 80491 SEMINAR IN COGNITIVE PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) Seminar on current research in cognitive psychology. Specific topics will be announced in schedule of classes.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PSYC 80501 PSYCHOMETRIC THEORY AND MEASUREMENT 3 Credit Hours
This course is designed to provide an in-depth introduction to basic elements of psychometric theory. This includes topics of scaling (for stimuli and persons), (b) classical test theory and its approach to test reliability, (c) generalizability theory and its approach to test reliability, (d) principles and procedures for investigating test validity, (e) statistical issues of using tests for selection and classification (including diagnosis), (f) approaches to item analysis including item response theory, and (g) approaches to test construction.
Prerequisite: PSYC 71651 and PSYC 71654; and doctorate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 80502 STRUCTURAL EQUATION MODELING 3 Credit Hours
This course is designed to provide an in-depth introduction to the statistical technique of structural equation modeling (SEM). The course starts with an overview of the goals of SEM, basic terminology and conceptual issues, and basic requirements for conducting this type of analysis. Core analytic techniques (path analysis, confirmatory factor analysis, and latent variable modeling) will be discussed and conducted, and more advanced analysis techniques will also be briefly introduced. The course also involves learning the use of the statistical software MPlus.
Prerequisite: PSYC 71651 and PSYC 71654; and doctorate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 80503 HIERARCHICAL LINEAR MODELING 3 Credit Hours
This course is an upper-level graduate seminar intended to introduce students to the use of Hierarchical (Multilevel) Linear Models in psychological research. This class will focus on developing a thorough conceptual understanding and the ability to implement this knowledge by conducting analyses. This includes such topics as the analysis of persons nested within groups, as well as the analysis of repeated measures within persons which itself includes analysis of Ecological Momentary Assessment data and growth analyses.
Prerequisite: PSYC 61651 or PSYC 71651; and PSYC 61654 or PSYC 71654; and doctorate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 81091 SEMINAR IN LEARNING AND BIOPSYCHOLOGY 3 Credit Hours
(Repeatable for credit) Seminar on current research in learning and biopsychology. Specific topic varies per course offering.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PSYC 81199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 81299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: PSYC 81199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 81498 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students. Credits may be applied toward degree with department approval.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 81591 SEMINAR IN PERSONALITY AND SOCIAL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)Seminar on current research in areas of social psychology. Specific topics will be announced in schedule of classes.
Prerequisite: Doctoral standing in psychology.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PSYC 81691 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours
(Repeatable for credit) Seminar on applications of quantitative methods within various content areas of psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Department of Sociology and Criminology

Criminology and Justice Studies (CRIM)

CRIM 12000 INTRODUCTION TO JUSTICE STUDIES 3 Credit Hours
Surveys the U.S. criminal justice system and its component institutions and processes, including overviews of policing, corrections, courts, and their inter-relations in the criminal justice system. An overview is also provided of the nature and measurement of crime, patterns of offending and victimization, and criminal justice responses to offending and victimization. Historical and emerging issues are introduced including a variety of insights related to effective, professional and ethical practices in criminal justice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

CRIM 13000 CRIME AND TECHNOLOGY 3 Credit Hours
This course is designed to provide a comprehensive understanding of how technologies are shaping crime and justice. This course aims to focus on the broader societal impact of technologies in order to build knowledge and awareness. The course topics introduced touch on other academic disciplines such as philosophy, economics, criminal justice and sociology, weaving together the critical trends and the shifting technological revolution that is currently underway.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 22100 BASIC INTERVIEWING 3 Credit Hours
Foundation of basic interviewing principles, including communication models, question format, distortions, topic control, inhibitors, facilitators, listening, types of interviews and practical exercises.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 22200 INTERPERSONAL AND PROFESSIONAL SKILLS FOR PUBLIC SAFETY PROFESSIONALS 3 Credit Hours
Course prepares students with law enforcement-related verbal and written skills that are essential for bridging the communication gap and ensuring safety, success with cases and written reports and rapport with the citizens officers are sworn to protect. Officers encounter a variety of citizens daily from different cultures, backgrounds, socioeconomic statuses, abilities and crisis situations. This course prepares students to create a culture of mutual respect and build trust and relationships essential in de-escalating situations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 22300 POLICE ROLE 3 Credit Hours
Systematic analysis of the police role. An examination of the related research with an emphasis on divergent perspective and development of conceptual models.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

CRIM 22301 THE INVESTIGATIVE PROCESS 3 Credit Hours
An examination of established investigative processes, techniques employed in conducting a systematic investigation and legal implications.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 26701 CORRECTIONS 3 Credit Hours
Course topics include history of corrections, punishment, community corrections, correctional institutions, correctional administration, issues in corrections, and future trends of corrections.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

CRIM 26704 ISSUES IN LAW AND SOCIETY (KSS) 3 Credit Hours
General treatment of the legal system with special emphasis on its origin, structure and functional consequences on issues and problems in modern society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Social Sciences, Transfer Module Social Sciences

CRIM 27095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 2,3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Intensive analysis of issues significant and current in the field which are not covered in regular courses.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter

CRIM 27311 VICTIMOLOGY 3 Credit Hours
Patterns of victim-offender relationship and process of victimization. Role of victims in criminal process. Problems of adjustment to victimization and issues in victim compensation.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 32005 CAREER PATHWAYS IN SOCIOLOGY AND CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours
(Cross-listed with SOC 32005) This course equips students with an understanding of the career pathways available after completing a major or minor in sociology or criminology and justice studies. Provides students with a broad overview of career paths in sociology and criminology and justice studies while also helping students identify opportunities for internships and research while at Kent State.
Prerequisite: CRIM 12000 or SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 32200 POLICE AND COMMUNITY 3 Credit Hours
An examination of the rights of individuals, citizen involvement, the police as members of the community, and the development implementation and evaluation of related programs.
Prerequisite: CRIM 12000 and CRIM 22300; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 32500 CRISIS INTERVENTION 3 Credit Hours
Crisis intervention situations in criminal justice are considered. The service role of criminal justice personnel, community resources and skill development are also considered.
Prerequisite: CRIM 12000; and CRIM 22300 or CRIM 27311; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 32762 DEVIANT BEHAVIOR 3 Credit Hours
(Cross-listed with SOC 32762) Overview of classical and contemporary theories and perspectives on the nature, causes and societal management of deviant behavior. Application of theories and perspectives to modern and historical social problems, methods of punishment and policy trends in social control.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 33200 CRIMINAL LAW 3 Credit Hours
Developmental backgrounds and principles of criminal law; structure, functions of criminal law; rules of criminal liability and procedural requisites in criminal proof. Case analysis included.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 33300 DEVELOPMENT OF JUSTICE IN AMERICA 3 Credit Hours
Course focuses on the evolution of the criminal justice process from its establishment in the United States to the present.
Prerequisite: CRIM 12000; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 33400 CRIME AND JUSTICE IN POPULAR CULTURE 3 Credit Hours
Crime and criminal justice as they are socially constructed and portrayed in popular culture including television, news and entertainment, popular film and other media of popular culture. Critical analysis of relations between popular culture, media institutions, crime and justice. Role of popular culture media in shaping public opinions about crime and justice, and in turn the relevance of public opinion for understanding criminal justice politics and policy.
Prerequisite: CRIM 12000; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 34200 CRIMINAL PROCEDURES AND EVIDENCE 3 Credit Hours
This course focuses on the use of evidence and the legal procedures followed in the processing of criminal cases. Case analysis and writing assignments required.
Prerequisite: CRIM 12000 or PLST 18000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 34311 YOUTH AND THE JUSTICE SYSTEM 3 Credit Hours
Analysis of situations involving the legal rights of children and youths, which demand intervention by justice institutions or service agencies.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 34500 UNDERSTANDING CRIMINAL LAW THROUGH FICTION 3 Credit Hours
Exploration of legal concepts and their application as reflected in popular and literary fiction. Legal analysis of important issues involving criminal and civil law, criminal and civil procedures, evidence, courts and related legal topics. Application of legal issues and procedures to real life situations.
Prerequisite: CRIM 12000 and CRIM 26704; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 36702 CRIMINOLOGY 3 Credit Hours
Examines crime from the legal and social viewpoints including extent and patterns of criminal behavior. Special emphasis on theoretical explanations of criminal behavior and crime rates.
Prerequisite: CRIM 12000 or SOC 12050; and Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter
Attributes: CTAG Criminal Justice, TAG Social and Behavioral Sciences

CRIM 36703 JUVENILE DELINQUENCY 3 Credit Hours
Social and personal factors in juvenile delinquency; operation of juvenile justice system; prevention and control of delinquency.
Prerequisite: CRIM 12000 and CRIM 36702.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 36800 LGBTQ POPULATIONS IN THE JUSTICE SYSTEM (DIVD) 3 Credit Hours
This course explores research on LGBTQ (lesbian, gay, bisexual, transgender, and queer) populations in the juvenile and criminal justice systems. Students will examine the role that sexual orientation, gender identity, and gender expression play in the juvenile and criminal justice system, with particular attention given to the experiences of LGBTQ people within these institutions. Drawing on sociological theories of sex and gender and queer criminology, the course will review historical trends in the treatment of LGBTQ people in the justice systems, circumstances facing LGBTQ populations (sexual assault, harassment, hate crimes, institutional discrimination), and policy developments and innovations.
Prerequisite: SOC 12050 or CRIM 12000; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

CRIM 37091 SEMINAR IN CRITICAL ISSUES IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours
(Repeatable for credit) Intense analysis of issues significant and current in the justice field which are not covered in regular courses.
Prerequisite: CRIM 12000; and sophomore standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

CRIM 37095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)Intensive analysis of issues significant and current in the field which are not covered in regular courses. Repeatable for a total of 6 hours.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 37311 MINORITIES IN CRIME AND JUSTICE (DIVD) 3 Credit Hours
Focus on the role of social and ethnic minorities as victims, offenders and participants in the justice process.
Prerequisite: CRIM 12000 or SOC 12050; and Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter
Attributes: Diversity Domestic

CRIM 37411 WOMEN IN CRIME AND JUSTICE (DIVD) 3 Credit Hours
Women as a significant group in crime and their role in the development and operation of the criminal justice system.
Prerequisite: CRIM 12000 or SOC 12050; and Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter
Attributes: Diversity Domestic

CRIM 37511 IMMIGRATION: LAW, CRIME AND JUSTICE (DIVD) 3 Credit Hours
Covers issues of immigration related to law, crime, and justice. Students will be introduced to issues of international diversity through the consideration of issues of law, criminal justice, and social justice related to immigration. Topics to be covered include legal and illegal immigration, immigration law enforcement, immigrants as criminal offenders and as crime victims, police-community relations, immigrants in correctional or detention facilities, and immigration as a national security concern and controversy.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

CRIM 42577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours
(Cross-listed with SOC 42577)(Slashed with CRIM 52577 and SOC 52577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, intimate partner abuse, elderly abuse, rape, sexual abuse of children.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 44400 JUSTICE ADMINISTRATION 3 Credit Hours
Identification of administrative and management functions, leadership management styles and supervision of personnel in justice organizations.
Prerequisite: CRIM 12000; and CRIM 22300 (or CRIM 26701); and CRIM 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 45093 VARIABLE TITLE WORKSHOP IN CRIMINOLOGY AND JUSTICE STUDIES 1-6 Credit Hours
(Repeatable for credit) (Slashed with CRIM 55093)
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CRIM 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours when topic varies) Involves an individual research project of considerable depth in a subject area not covered by regular course offerings. Prior consent of supervising faculty member is required.
Prerequisite: CRIM 12000 and 26704; and SOC 32210; and junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

CRIM 46200 CURRENT CONTROVERSIAL LEGAL ISSUES 3 Credit Hours
Focuses on reading, analyzing and discussing current criminal, evidentiary and procedural issues as set forth in recent and historical U.S. Supreme Court cases. Case analysis, discussion and writing assignments are required.
Prerequisite: CRIM 12000 or PLST 18000; and junior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CRIM 46701 CRIME, JUSTICE AND SUBSTANCE ABUSE 3 Credit Hours
(Slashed with CRIM 56701) Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered.
Prerequisite: CRIM 12000 and CRIM 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46705 COMMUNITY CORRECTIONS 3 Credit Hours
(Slashed with CRIM 56705) This course is devoted to an examination of formal and informal approaches to correctional supervision and treatment through probation, parole and community residential treatment.
Prerequisite: CRIM 12000 and CRIM 26701.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46707 CORRECTIONAL INSTITUTIONS 3 Credit Hours
A thorough examination of the correctional institution, including the structure and organization, personnel, inmate social world and examination of the issues in contemporary correctional institutions.
Prerequisite: CRIM 12000 and CRIM 26701.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46708 TREATMENT METHODS 3 Credit Hours
(Slashed with CRIM 56708) Various methods of treatment are applied to corrections field. Focus is on specific techniques in community and institutional correctional settings. Direct observation utilized when possible.
Prerequisite: CRIM 12000 and 26701; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46792 INTERNSHIP (ELR) 3-9 Credit Hours
(Repeatable for credit) Work experience under the direction of supervising faculty member in a private, federal, state or local justice agency/organization, law agency/organization.
Prerequisite: CRIM 12000; and minimum 2.000 overall GPA; and Criminology and Justice Studies major or minor; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CRIM 46798 RESEARCH IN CRIMINOLOGY AND JUSTICE STUDIES (ELR) 3-12 Credit Hours
(Repeatable for credit) Individual research under direct supervision of a faculty member to provide direct hands-on research experience working on faculty research projects. Prior consent of supervising faculty member is required. Only 6 hours of nontraditional coursework can count towards the major.
Prerequisite: CRIM 12000 and CRIM 26704; and SOC 32210; and special approval.
Schedule Type: Research
Contact Hours: 3-12 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

CRIM 46800 INTELLIGENCE AND NATIONAL SECURITY 3 Credit Hours
(Slashed with CRIM 56800) Addresses topics related to global security, including economic and industrial espionage, trade secret thefts, law and technology and cyber-crimes. Implications of industrial espionage and intellectual property theft for the global economy, national and international security, and the control and regulation of white collar crime. Foundational exploration of Intelligence and Counterintelligence (IC) as concepts, processes and careers.
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46801 HOMELAND SECURITY 3 Credit Hours
(Slashed with CRIM 56801) Explores the nexus between terrorism and homeland security as it relates to homeland security strategy, assessment, evaluation, preparation, responses, and recovery actions and mechanisms relating to terrorism and homeland security. There is a focus on the importance of coordination of various assessments, plans, strategies and implementation of plans of action involving local, county, state, federal and international responses pertaining to terrorism and homeland security.
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46802 TERRORISM AND COUNTERTERRORISM 3 Credit Hours
(Slashed with CRIM 56802) Examines the origins and evolution of modern terrorism, challenges posed by terrorist groups to states and to the international system, and strategies employed to confront and combat terrorism. Assesses a wide variety of terrorist organizations, and explores the psychological, socioeconomic, political, and religious causes of terrorist violence past and present. Also analyzes the strengths and weaknesses of various counterterrorism efforts.
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46803 INFORMATION AND CYBER SECURITY 3 Credit Hours
(Slashed with CRIM 56803) Vulnerabilities of computer networks and techniques for protecting networks and data are discussed. Basic elements of symmetric and asymmetric cryptography, secure e-commerce, involving secure transmission, authentication, digital signatures, digital certificates and Public Key Infrastructure (PKI) are presented. Provides students with an introduction to the field of information security risk assessment. Incorporates cases in risk analysis derived from actual state and law enforcement agencies or private firms.
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46904 ISSUES IN POLICE WORK 3 Credit Hours
(Slashed with CRIM 56904) Analysis of police practices and functions at the municipal, state and federal level. Examination of emerging trends and issues in policing. Review of changes in police department policies and research on problem-solving in policing.
Prerequisite: CRIM 12000 and CRIM 22300; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47002 HUMAN SERVICE AGENCIES AND THE LAW 3 Credit Hours
(Slashed with CRIM 57002) An overview of the law as it pertains to human service agencies, as well as on the relationships between such agencies and the criminal and juvenile justice systems. Focused attention is given to agencies that closely connect with vulnerable populations (such as children and the poor) and those that work closely with policing and corrections (such as mental health agencies and halfway houses).
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47003 RESTORATIVE JUSTICE AND VICTIM ASSISTANCE 3 Credit Hours
(Slashed with CRIM 57003) An inquiry into the theories and research in restorative justice, as well as an assessment of victim assistance protocols and programs. Examines restorative justice and victim assistance initiatives that provide an alternative framework for dealing with crime that places victim needs in a primary position, while addressing legal concerns and interagency differences.
Prerequisite: CRIM 12000 and CRIM 27311; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47004 LEGAL PERSPECTIVES AND RIGHTS IN VICTIMIZATION 3 Credit Hours
(Slashed with CRIM 57004) An analysis of the legal rights of victims of crime at state and federal levels as well as a review of how these laws relate to the treatment of victims within the criminal and juvenile justice systems, with particular focus on the courts and correctional institutions. Relevant legislative and Constitutional changes and challenges are also addressed.
Prerequisite: CRIM 12000 and CRIM 27311; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours
(Repeatable for credit) Intensive analysis of issues significant and current in the field which are not covered in regular courses.
Prerequisite: CRIM 12000 and 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47211 COURT FUNCTIONS 3 Credit Hours
Analysis of the structure, functions and critical role of incumbents in the criminal court.
Prerequisite: CRIM 12000 and 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47311 COMPARATIVE JUSTICE SYSTEMS 3 Credit Hours
A systematic comparison of the developmental backgrounds, structure and functioning of the major systems of justice in the modern world.
Prerequisite: CRIM 12000 and CRIM 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 52577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours
(Cross-listed with SOC 52577)(Slashed with CRIM 42577 and SOC 42577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, intimate partner abuse, elderly abuse, rape, sexual abuse of children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 55093 VARIABLE TITLE WORKSHOP IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with CRIM 45093) Classroom presentations and field study focused on professional and disciplinary concerns. Specific content varies with workshop topic.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CRIM 56701 CRIME, JUSTICE AND SUBSTANCE ABUSE 3 Credit Hours
(Slashed with CRIM 46701) Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56705 COMMUNITY CORRECTIONS 3 Credit Hours
(Slashed with CRIM 46705) Study of community-based correctional supervision and treatment, examining probation, parole, and related residential programs. Topics covered include the history and organization of, and best practices in, community corrections.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56708 TREATMENT METHODS 3 Credit Hours
(Slashed with CRIM 46708) Addresses institutional- and community-based treatment of offenders. Coverage includes the theoretical foundations of treatment and common intervention strategies, including evidence-based practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56709 EMERGING TRENDS AND ISSUES IN CORRECTIONS 3 Credit Hours
Explores recent developments pertinent to the field of corrections, including sentencing trends, innovative practices, and legal developments. Analysis of emerging strategies for offender treatment, re-entry, and institutional and community safety.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56800 INTELLIGENCE AND NATIONAL SECURITY 3 Credit Hours
(Slashed with CRIM 46800) Addresses topics related to global security, including economic and industrial espionage, trade secret thefts, law and technology and cyber-crimes. Implications of industrial espionage and intellectual property theft for the global economy, national and international security, and the control and regulation of white collar crime. Foundational exploration of Intelligence and Counterintelligence (IC) as concepts, processes and careers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56801 HOMELAND SECURITY 3 Credit Hours
(Slashed with CRIM 46801) Explores the nexus between terrorism and homeland security as it relates to homeland security strategy, assessment, evaluation, preparation, responses, and recovery actions and mechanisms relating to terrorism and homeland security. There is a focus on the importance of coordination of various assessments, plans, strategies and implementation of plans of action involving local, county, state, federal and international responses pertaining to terrorism and homeland security.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56802 TERRORISM AND COUNTERTERRORISM 3 Credit Hours
(Slashed with CRIM 46802) Examines the origins and evolution of modern terrorism, challenges posed by terrorist groups to states and to the international system, and strategies employed to confront and combat terrorism. Assesses a wide variety of terrorist organizations, and explores the psychological, socioeconomic, political, and religious causes of terrorist violence past and present. Also analyzes the strengths and weaknesses of various counterterrorism efforts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56803 INFORMATION AND CYBER SECURITY 3 Credit Hours
(Slashed with CRIM 46803) Vulnerabilities of computer networks and techniques for protecting networks and data are discussed. Basic elements of symmetric and asymmetric cryptography, secure e-commerce, involving secure transmission, authentication, digital signatures, digital certificates and Public Key Infrastructure (PKI) are presented. Provides students with an introduction to the field of information security risk assessment. Incorporates cases in risk analysis derived from actual state and law enforcement agencies or private firms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56904 ISSUES IN POLICE WORK 3 Credit Hours
(Slashed with CRIM 46904) Analysis of police practices and functions at the municipal, state and federal level. Examination of emerging trends and issues in policing. Review of changes in police department policies and research on problem-solving in policing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 57002 HUMAN SERVICE AGENCIES AND THE LAW 3 Credit Hours
(Slashed with CRIM 47002) An overview of the law as it pertains to human service agencies, as well as on the relationships between such agencies and the criminal and juvenile justice systems. Focused attention is given to agencies that closely connect with vulnerable populations (such as children and the poor) and those that work closely with policing and corrections (such as mental health agencies and halfway houses).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 57003 RESTORATIVE JUSTICE AND VICTIM ASSISTANCE 3 Credit Hours
(Slashed with CRIM 47003) An inquiry into the theories and research in restorative justice, as well as an assessment of victim assistance protocols and programs. Examines restorative justice and victim assistance initiatives that provide an alternative framework for dealing with crime that places victim needs in a primary position, while addressing legal concerns and interagency differences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 57004 LEGAL PERSPECTIVES AND RIGHTS IN VICTIMIZATION 3 Credit Hours
(Slashed with CRIM 47004) An analysis of the legal rights of victims of crime at state and federal levels as well as a review of how these laws relate to the treatment of victims within the criminal and juvenile justice systems, with particular focus on the courts and correctional institutions. Relevant legislative and Constitutional changes and challenges are also addressed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 57095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours
(Repeatable for credit) Intensive analysis of issues significant and current in the field which are not covered in regular courses.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CRIM 66199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CRIM 66299 THESIS II 2 Credit Hours
Thesis students must continue to register for each semester until all degree requirements are met.
Prerequisite: CRIM 66199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CRIM 66761 LAW, JUSTICE AND SOCIETY 3 Credit Hours
Review of the origins, structure and functioning of law in relation to social context and process. Critical assessment of the use of law and legal institutions to address societal problems. Examination of the role that social inequality plays in crime and justice, nationally and internationally.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66763 THEORIES OF CRIME AND DELINQUENCY 3 Credit Hours
Study of the nature and causes of criminal and delinquent behavior, with an emphasis on major contemporary criminological theories. Includes critical analysis of relevant research and policy implications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66766 INSTITUTIONAL CORRECTIONS 3 Credit Hours
Explores the historical development and theoretical foundations of the correctional institution, including jails and prisons, the structure of institutions and operational challenges. Incorporates overview of contemporary issues and the correctional institution as a social system.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66767 JUSTICE ADMINISTRATION 3 Credit Hours
Introduces students to theories of organization and administration and their application to the administration of justice institutions. The course is divided into two sections: (1) theories of administration and organization and (2) application of theories to management of police functions. Includes use of theories to diagnose and reform justice institutions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66768 RESEARCH METHODS IN CRIMINOLOGY AND CRIMINAL JUSTICE 3 Credit Hours
Examines the methodology of research designs and techniques used in criminology and criminal justice. Provides students with an overview of the logic of research in order to critically evaluate research in the field. Focuses on the specific skills needed to conduct basic and evaluation research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66770 JUSTICE INSTITUTIONS 3 Credit Hours
Introduces students to the analysis of U.S. criminal justice institutions. Examines methods of institutional analysis, theories of administration, and the application of these theories to the understanding of police, courts and corrections.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66772 VICTIMOLOGY 3 Credit Hours
Exploration of victimology, the scientific study of the physical, emotional, and financial harm people suffer because of criminal activities. Examination of the impact of crime on victims, measuring crime through victimization, patterns of victim-offender relationships, and the role of the victim within the criminal and juvenile justice systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66773 CONTEMPORARY POLICING 3 Credit Hours
The fundamental question of this course is how to create the most effective police organization. This course examines the various theories and research on police service. Examines the nature of coercion in human interaction and the legitimate use of force by police. Study of the various philosophies and research on the Standard Model of policing, Community-Oriented Policing, and Problem-Oriented Policing. Reviews theories of police administration and the research corroborating or refuting the validity of those theories.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66795 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Offered irregularly, this course provides opportunity to study special issues developments and programs in justice studies. Topics vary.
Prerequisite: Graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CRIM 66796 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Intensive study of a subject which the student cannot normally pursue in a regularly scheduled course. Individual investigation topic must be approved by instructor and graduate coordinator.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

CRIM 66899 PROSEMINAR CAPSTONE: ISSUES IN CONTEMPORARY JUSTICE 3 Credit Hours
Capstone experience. Students synthesize program knowledge about current issues and challenges faced by the U.S. justice system through the completion of an approved, written project that is analytical and research based.
Prerequisite: CRIM 66763 and CRIM 66768; and 15 additional credit hours of Criminology and Justice Studies (CRIM) graduate courses; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

Sociology (SOC)

SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS) 3 Credit Hours
Scientific approach to understanding social interaction, institutions and organization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

SOC 22570 UNDERSTANDING DIFFERENCES AND INEQUALITY 3 Credit Hours
An introduction to the cultural and structural factors creating and sustaining educational, economic and political inequality by race, ethnicity, gender, class and sexual orientation with an emphasis on issues of poverty and immigration.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

SOC 22778 SOCIAL PROBLEMS (DIVG) (KSS) 3 Credit Hours
Contemporary American and global social problems and issues are analyzed from sociological perspectives. Several cases are used to illustrate the emergence, development and decline of problems in social context.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

SOC 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES 3 Credit Hours
(Equivalent to HDF 24011) Exploration of the sociological nature of families across the lifespan, focusing on structure, diversity and life course processes such as dating, mate selection, cohabitation, marriage, parenthood, divorce, remarriage, singlehood, widowhood, parent-child interactions, sexual orientation, inequality and difference.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

SOC 31092 PRACTICUM IN SOCIOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Individual research experience in Sociology.
Prerequisite: SOC 32210; and junior standing.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SOC 32005 CAREER PATHWAYS IN SOCIOLOGY AND CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours
(Cross-listed with CRIM 32005) This course equips students with an understanding of the career pathways available after completing a major or minor in sociology or criminology and justice studies. Provides students with a broad overview of career paths in sociology and criminology and justice studies while also helping students identify opportunities for internships and research while at Kent State.
Prerequisite: CRIM 12000 or SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 32096 INDIVIDUAL INVESTIGATION IN SOCIOLOGY 1-3 Credit Hours
(Repeatable for credit)Readings and/or research supervised by member of sociology faculty.
Prerequisite: SOC 12050; and junior standing; and special approval of instructor.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SOC 32210 RESEARCHING SOCIETY (ELR) (WIC) 3 Credit Hours
Survey of methods and techniques of research; research design and data gathering instruments; qualitative and quantitative analysis.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SOC 32220 DATA ANALYSIS 3 Credit Hours
The use of quantitative methods in the analysis of data from social research. Emphasis on descriptive statistics.
Prerequisite: SOC 12050.
Corequisite: SOC 32221.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 32221 DATA ANALYSIS LABORATORY 1 Credit Hour
Analysis of sociological data utilizing statistical and electronic data processing tools.
Corequisite: SOC 32220.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

SOC 32400 INDIVIDUAL AND SOCIETY 3 Credit Hours
Foundations of social psychology; process of socialization; development of social and personal identities; small group and collective behavior; theories of deviance.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 32510 JOBS, WORK AND INEQUALITY 3 Credit Hours
This course examines trends in the sociological relationships between jobs/occupations, work, the global economy and inequality. Specifically, the course focuses on relationships between work and power, job (in)security, resources, mobility and quality of life. Additionally, it examines how work is affected by social structure and social change; how individuals and groups end up in certain jobs/occupations; and future trends (e.g., gig work, labor unions, low wage work, demands for flexibility, remote work).
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 32560 SOCIOLOGY OF FAMILIES (DIVD) 3 Credit Hours
Social history of the American family. Examination of how race, ethnicity, sexual orientation, class, gender and age contribute to variation in the experience and structure of family life in the U.S.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 32565 SOCIOLOGY OF SEXUALITIES (DIVD) 3 Credit Hours
Examination of the social production, meaning, and consequences of identities, practices, and inequalities related to sexualities, gender identity and gender expression.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 32569 MINORITIES IN THE UNITED STATES (DIVD) 3 Credit Hours
Considers the nature and significance of minority groups and majority minority relations in the United States. Reviews experiences of racial and ethnic minorities, religious minorities, women, sexual minorities, the elderly and differently abled Americans.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, TAG Social and Behavioral Sciences

SOC 32570 INEQUALITY IN SOCIETIES (DIVD) 3 Credit Hours
Sociological analysis of stratification and inequality in societies, and the social structures that produce and maintain them. Particular emphasis on the intersections of race, class and gender in American society.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 32673 CITIES AND URBAN SOCIAL LIFE (DIVG) 3 Credit Hours
This course covers the history and development of urban areas over time (urbanization), paying attention to sociological theories of power and stratification. In addition, the class examines how sociological theories of culture and social interaction help to explain why people behave the way they do in different urban environments (urbanism). Finally, the course examines how different social, racial and cultural groups live their lives in the city, including urban poverty, immigration into and out of urban areas, race relations, the city as a center of the arts and various communities within the city (urban enclaves). Although the course emphasizes urban processes and lifestyles in the United States, we also spend some time on cities in Europe and countries like Mexico and discuss how they compare.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

SOC 32762 DEVIANT BEHAVIOR 3 Credit Hours
(Cross-listed with CRIM 32762) Overview of classical and contemporary theories and perspectives on the nature, causes and societal management of deviant behavior. Application of theories and perspectives to modern and historical social problems, methods of punishment and policy trends in social control.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42010 DEATH AND DYING 3 Credit Hours
(Slashed with SOC 52010) Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death, death as taboo, medicalization and rationalization of death and dying and disenfranchised grief.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42092 INTERNSHIP IN SOCIOLOGY (ELR) 1-9 Credit Hours
(Repeatable for credit) Real world experience and the application of sociological knowledge in work or organizational settings. Assist professionals at sites such as, but not limited to, social services, hospitals, industry and government.
Prerequisite: Minimum 2.000 overall GPA; and Sociology major or minor; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SOC 42093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours
(Repeatable for credit) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 42095 SPECIAL TOPICS IN SOCIOLOGY 3 Credit Hours
(Repeatable for credit) Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42126 SOCIOLOGICAL THEORIES 3 Credit Hours
(Slashed with SOC 52126) An examination of classical, modern and postmodern approaches to social theory.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42315 SOCIOLOGY OF GENDER (DIVD) 3 Credit Hours
(Slashed with SOC 52315) An examination of the institutions, institutional linkages and social processes that contribute to the construction and maintenance of gender and gender inequality.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 42359 SOCIAL MOVEMENTS 3 Credit Hours
(Slashed with SOC 52359) Investigation of various movements for social change. Examines the origins, developmental characteristics and the purposes of classic and contemporary movements.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42400 SELF AND IDENTITY 3 Credit Hours
Examines theories and research on the origin and behavioral consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42421 CHILDHOOD IN SOCIETY 3 Credit Hours
(Slashed with SOC 52421) How socio-historical circumstances shape the perception and experience of childhood as a distinct life stage. The process of childhood socialization in Western societies particularly the United States. An exploration of the distinct role of socializing agents-parents and siblings, school, peers and media.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42478 ADOLESCENCE IN SOCIETY 3 Credit Hours
(Slashed with SOC 52478) Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class and race differences in adolescence the significance of youth movements, with an emphasis on music as a dominant expression of youth culture.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42558 WEALTH, POVERTY AND POWER 3 Credit Hours
(Slashed with SOC 52558) Sociological examination of economic stratification; focuses on the translation of class into power via politics, education and collective struggle.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42560 SOCIOLOGY OF FOOD 3 Credit Hours
(Slashed with SOC 52560) Food is essential, but like every other aspect of our lives, the meaning of food and the experience of its preparation and consumption are socially determined. Course explores the social dimensions of food consumption and production. Students consider the following questions and answer them by developing an understanding of sociological concepts and theories: What do our meals reveal about us – about our history, culture, our gender and race and ethnicity, socio-economic status, religious beliefs and our family life? How does food consumption differ in different societies? How do the media and corporations influence our food choices? What does food mean symbolize and in what ways are these meanings manipulated and why? How is food production carried out in different contexts and what can we learn about the social organization of work from studying food production? How does what we eat contribute to local and global environmental problems?
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42561 SOCIOLOGY OF RELIGION 3 Credit Hours
(Slashed with SOC 52561) Social context of religious ideologies and structures with special reference to religion in America.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42562 SOCIOLOGY OF MENTAL ILLNESS 3 Credit Hours
A sociology of mental health and illness; focuses on how social factors influence and are influenced by mental health status; topics include definition and measurement, social distribution, social control of mental illness, societal reaction and media coverage.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42563 SOCIOLOGY OF HEALTH AND HEALTH CARE 3 Credit Hours
(Slashed with SOC 52563) Sociological analysis of health and illness behavior and utilization of health care professions, as well as the organizational, community and societal systems that deal with health and illness.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42565 ENVIRONMENTAL SOCIOLOGY 3 Credit Hours
(Slashed with SOC 52565) Designed to be an elective in the Social Justice and Social Change concentration, Environmental Sociology provides students with an overview of how environmental problems and patterns interact with social systems. The course grounds students in an interdisciplinary range of theories through which environmental problems may be made more visible, and solutions more readily imagined. Topics include the intellectual and activist origins of the Environmental Justice Movement; sustainability and economic development; climate change and population/immigration dynamics; the history of environmental regulatory frameworks and institutions at the local, regional, and global level; and inequalities in the experience and consequence of environmental problems. Students will be encouraged to pair the course with an internship or other volunteer-opportunity with an area environmental, media, or policy-making organization to encourage a Public Sociology orientation for student projects.
Prerequisite: SOC 12050 and junior standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SOC 42568 RACE AND ETHNIC STUDIES (DIVD) 3 Credit Hours
(Slashed with SOC 52568) Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 42577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours
(Cross-listed with CRIM 42577)(Slashed with CRIM 52577 and SOC 52577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, intimate partner abuse, elderly abuse, rape, sexual abuse of children.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42879 AGING IN SOCIETY (DIVD) 3 Credit Hours
(Slashed with SOC 52879) Analysis of demographic, sociological and socio-psychological dimensions of aging.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 43200 SOCIAL STRUCTURE AND INDIVIDUAL LIVES 3 Credit Hours
Examines conceptualizations for and evidence concerning the effects of social structure on various dimensions of individual lives.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52010 DEATH AND DYING 3 Credit Hours
(Slashed with SOC 42010) Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death, death as taboo, medicalization and rationalization of death and dying, and disenfranchised grief.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52126 SOCIOLOGICAL THEORIES 3 Credit Hours
(Slashed with SOC 42126) An examination of classical, modern and post-modern approaches to social theory.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52315 SOCIOLOGY OF GENDER 3 Credit Hours
(Slashed with SOC 42315) An examination of the institutions, institutional linkages and social processes that contribute to the construction and maintenance of gender and gender inequality.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52359 SOCIAL MOVEMENTS 3 Credit Hours
(Slashed with SOC 42359) Investigation of various movements for social change. Examines the origins, developmental characteristics and the purposes of classic and contemporary movements.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52421 CHILDHOOD IN SOCIETY 3 Credit Hours
(Slashed with SOC 42421) How socio-historical circumstances shape the perception and experience of childhood as a distinct life stage. The process of childhood socialization in Western societies particularly the United States. An exploration of the distinct role of socializing agents-parents and siblings, school, peers and media.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52478 ADOLESCENCE IN SOCIETY 3 Credit Hours
(Slashed with SOC 42478) Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class and race differences in adolescence the significance of youth movements, with an emphasis on music as a dominant expression of youth culture.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52558 WEALTH, POVERTY AND POWER 3 Credit Hours
(Slashed with SOC 42558) Sociological examination of economic stratification in the United States; focuses on the translation of class into power via politics, education and collective struggle.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52560 SOCIOLOGY OF FOOD 3 Credit Hours
(Slashed with SOC 42560) Food is essential, but like every other aspect of our lives, the meaning of food and the experience of its preparation and consumption are socially determined. Course explores the social dimensions of food consumption and production. Students consider the following questions and answer them by developing an understanding of sociological concepts and theories: What do our meals reveal about us – about our history, culture, our gender and race and ethnicity, socio-economic status, religious beliefs and our family life? How does food consumption differ in different societies? How do the media and corporations influence our food choices? What does food mean symbolize and in what ways are these meanings manipulated and why? How is food production carried out in different contexts and what can we learn about the social organization of work from studying food production? How does what we eat contribute to local and global environmental problems?
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52561 SOCIOLOGY OF RELIGION 3 Credit Hours
(Slashed with SOC 42561) Social context of religions and their ideologies and structures with special reference to religion in America.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52563 SOCIOLOGY OF HEALTH AND HEALTH CARE 3 Credit Hours
(Slashed with SOC 42563) Sociological analysis of health and illness behavior and utilization of health care professions, as well as the organizational, community and societal systems that deal with health and illness.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52565 ENVIRONMENTAL SOCIOLOGY 3 Credit Hours
(Slashed with SOC 42565) Environmental Sociology provides students with an overview of how environmental problems and patterns interact with social systems. The course grounds students in an interdisciplinary range of theories through which environmental problems may be made more visible, and solutions more readily imagined. Topics include the intellectual and activist origins of the Environmental Justice Movement; sustainability and economic development; climate change and population/immigration dynamics; the history of environmental regulatory frameworks and institutions at the local, regional, and global level; and inequalities in the experience and consequence of environmental problems. Students will be encouraged to pair the course with an internship or other volunteer-opportunity with an area environmental, media, or policy-making organization to encourage a Public Sociology orientation for student projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SOC 52568 RACE AND ETHNIC STUDIES 3 Credit Hours
(Slashed with SOC 42568) Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours
(Cross-listed with CRIM 52577)(Slashed with CRIM 42577 and SOC 42577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, intimate partner abuse, elderly abuse, rape, sexual abuse of children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52879 AGING IN SOCIETY 3 Credit Hours
(Slashed with SOC 42879) Analysis of demographic, sociological and sociopsychological dimensions of aging.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 61003 CRIMINOLOGICAL THEORY 3 Credit Hours
(Slashed with SOC 71003) Examines the major theories in criminology that have been used to explain criminal behavior. This course includes analysis of empirical tests, applications of the theories, and social policy implications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 61004 SOCIOLOGY OF CORRECTIONS 3 Credit Hours
(Slashed with SOC 71004) Analyzes the correctional institution as a social system: formal structure and informal dynamics. It covers problems and programs found in community corrections as well as the institutional setting. It examines approaches to correctional supervision and treatment through probation, parole, and community residential treatment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 61005 JUVENILE DELINQUENCY 3 Credit Hours
(Slashed with SOC 71005) Provides an analysis of the issues and current research related to juvenile delinquency and the juvenile justice process.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62002 PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY 3 Credit Hours
(Slashed with SOC 72002) Introduction to professional and ethical issues in the field of sociology including the logic of inquiry, developing effective approaches to independent learning and research, the human subjects review process and plagiarism. Akron 3850:628.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with SOC 72093) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 62100 EARLY SOCIOLOGICAL THEORY 3 Credit Hours
(Slashed with SOC 72100) An examination of the contributions by pre-1930 social thinkers to contemporary sociological theory. Akron 3850:722.
Prerequisite: SOC 52126; and sociology major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SOC 62105 CONTEMPORARY SOCIOLOGICAL THOUGHT 3 Credit Hours
(Slashed with SOC 62105) Covers major contemporary theories and theorists. Emphasis on functionalism, conflict, exchange, interactionalism and systems theory. Neofunctionalism, neo-Marxism, structuration theory and other recent trends are treated. Akron 3850:723.
Prerequisite: SOC 62100; and sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing in sociology; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SOC 62211 QUANTITATIVE METHODS IN SOCIOLOGY 4 Credit Hours
Introduction to the use of quantitative research methods for analyzing sociological issues. Includes instruction on each step in the process of empirically verifying a theoretical question, from conceptualization to analysis. Akron 3850:603.
Prerequisite: Graduate standing in sociology.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 62217 MULTIVARIATE TECHNIQUES IN SOCIOLOGY 4 Credit Hours
(Slashed with SOC 72217) Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non-experimental causal models and path analysis. Akron 3850:706.
Prerequisite: SOC 32220; and sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 62218 ADVANCED DATA ANALYSIS 4 Credit Hours
(Slashed with SOC 72218) Critical examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multi-variate inferential statistics. Akron 3850:709.
Prerequisite: SOC 62217; and sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 62219 QUALITATIVE METHODS IN SOCIOLOGY 4 Credit Hours
(Slashed with SOC 72219) Study of qualitative methods including interviewing, observation, use of personal documents, archival data and special problems of recording and analyzing qualitative data. Akron 3850:714.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 62221 ADVANCED QUALITATIVE METHODS IN SOCIOLOGY 3 Credit Hours
(Slashed with SOC 72221) Provides students with the opportunity to conceive, design and carry out their own qualitative research projects. Students also survey readings that are exemplars of high quality and rigorous qualitative research. Topics such as writing, analysis and ethics are covered as students develop and move forward on their own original research. Students must be actively engaged in a qualitative research project to enroll in the course.
Prerequisite: SOC 62219; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SOC 62199; and graduate standing in sociology; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SOC 62323 SOCIOLOGY OF HEALTH AND ILLNESS 3 Credit Hours
(Slashed with SOC 72323) Introduction to medical sociology. Topics include health care professions, patient-provider interaction, caregivers, the illness experience, race, ethnicity, gender, socio-economic status, and health and global health.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62326 SOCIOLOGY OF MENTAL HEALTH AND MENTAL ILLNESS 3 Credit Hours
(Slashed with SOC 72326) Sociological examination of the social processes that affect mental health, frame cultural ideas of normality and illness, and define clinical pathology. Akron 3850: 728.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62328 STRATIFICATION AND HEALTH 3 Credit Hours
(Slashed with SOC 72328) Race, social class and gender differences in physical and mental health status, help-seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62332 SOCIAL CONTROL OF MENTAL ILLNESS 3 Credit Hours
(Slashed with SOC 72332) Introduction to the sociological perspective regarding social control and mental illness. Topics include the history of mental illness and the asylum, the stratification of mental illness diagnosis and treatment by race, ethnicity, gender, and socio-economic status, and stigma and psychiatric labeling.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62430 SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with SOC 72430) Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Akron 3850: 631.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62433 SOCIAL STRUCTURE AND PERSONALITY 3 Credit Hours
(Slashed with SOC 72433) Examination of contemporary theory and research on linkages between personality and society. Emphasis is on the dynamics of those linkages and their effects on both individuals and social structures. Akron 3850:634.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62437 STRUCTURAL SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with SOC 72437) In-depth introduction to structural social psychology, a set of theoretical and methodological approaches and tools that focuses on the development and testing of multi-level, micro-macro accounts of human social interactions, often through the use of formal theorizing and mathematical modeling. Course provides an overview of the theoretical and research empirical methods that are most associated with structural social psychology; cover the main substantive topics in the area; and then conclude with a brief overview of current issues, debates and recent interdisciplinary advances.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62439 SELF AND IDENTITY 3 Credit Hours
(Slashed with SOC 72439) Examines theories and research on the origins of and on behavioral and social consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health and well-being.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62546 SOCIAL INEQUALITY 3 Credit Hours
(Slashed with SOC 62546) An overview of social inequalities, including definitions, causes, identities, structures and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Akron 3850:646.
Prerequisite: Sociology major; and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62566 SOCIOLOGY OF GENDER 3 Credit Hours
(Slashed with SOC 72566) Examination of theories and research on gender origins, characteristics and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Akron 3850:639.
Prerequisite: Graduate standing; and sociology major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62760 DEVIANCE 3 Credit Hours
(Slashed with SOC 72760) Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self-labeling, case studies, social consequences and problems. Akron 3850: 663.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62870 SOCIOLOGY OF RACE AND ETHNICITY 3 Credit Hours
(Slashed with SOC 72870) An in-depth study of the theories, models, research approaches and substantive areas that constitute the sociology of race and ethnicity. Akron 3850:651.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62872 SOCIAL PSYCHOLOGY AND INEQUALITY 3 Credit Hours
(Slashed with SOC 72872) Introduces students to sociological social psychological work that examines the reproduction of inequality. Specifically, the course focuses on “generic social processes” in how individuals, through interaction, are complicit or resistant in the reproduction of inequality through processes such as identity work, collective identity work, emotion work, othering and boundary maintenance. Mechanisms for change are also considered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62877 SOCIOLOGY OF AGING AND THE LIFE COURSE 3 Credit Hours
(Slashed with SOC 72877) Study of the sociology of aging and the life course, covering the major stages of young adulthood, mid-life, and later life. Topics include demography of aging, transition to adulthood, educational attainment, romantic relationships and cohabitation, marriage, parenting, work and retirement, theories of aging, aging and social policy, neighborhoods and aging, later life living arrangements, and death and dying.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62894 COLLEGE TEACHING OF SOCIOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with SOC 72894) Preparation for college teaching. Students may apply a maximum 3 credit hours applicable toward the master's degree with departmental approval. Akron 3850:700.
Prerequisite: Graduate standing; and sociology major.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SOC 62895 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)(Slashed with SOC 72895) Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62896 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with SOC 72896) Intensive pursuit of a subject matter beyond normal course coverage with the possibility of associated research. Students may apply a maximum 6 credit hours combined in individual investigation (SOC 62896, SOC 72896) and research (SOC 62898, SOC 72898) toward the master's degree.
Prerequisite: Sociology major; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 62898 RESEARCH 1-3 Credit Hours
(Repeatable for credit)(Slashed with SOC 72898) Pursuit of research interests that can include the student's project and/or a faculty member's project. Student may apply a maximum of 6 credits combined of research (SOC 62898, SOC 72898) and individual investigation (SOC 62896, SOC 72896) toward the master's degree.
Prerequisite: Sociology major; and graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 71003 CRIMINOLOGICAL THEORY 3 Credit Hours
(Slashed with SOC 61003) Examines the major theories in criminology that have been used to explain criminal behavior. This course includes analysis of empirical tests, applications of the theories, and social policy implications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 71004 SOCIOLOGY OF CORRECTIONS 3 Credit Hours
(Slashed with SOC 61004) Analyzes the correctional institution as a social system: formal structure and informal dynamics. It covers problems and programs found in community corrections as well as the institutional setting. It examines approaches to correctional supervision and treatment through probation, parole, and community residential treatment.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 71005 JUVENILE DELINQUENCY 3 Credit Hours
(Slashed with SOC 61005) Provides an analysis of the issues and current research related to juvenile delinquency and the juvenile justice process.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72002 PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY 3 Credit Hours
(Slashed with SOC 62002) Introduction to professional and ethical issues in the field of sociology including the logic of inquiry, developing effective approaches to independent learning and research, the human subjects review process and plagiarism. Akron 3850:628.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with SOC 62093) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 72100 EARLY SOCIOLOGICAL THEORY 3 Credit Hours
(Slashed with SOC 62100) An examination of the contributions by pre-1930 social thinkers to contemporary sociological theory. Akron 3850:722.
Prerequisite: SOC 52126; and sociology major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SOC 72105 CONTEMPORARY SOCIOLOGICAL THOUGHT 3 Credit Hours
(Slashed with SOC 62105) Covers major contemporary theories and theorists. Emphasis on functionalism, conflict, exchange, interactionalism and systems theory. Neofunctionalism, neo-Marxism, structuration theory and other recent trends are treated. Akron 3850:723.
Prerequisite: SOC 72100; and sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72211 QUANTITATIVE METHODS IN SOCIOLOGY 4 Credit Hours
Introduction to the use of quantitative research methods for analyzing sociological issues. Includes instruction on each step in the process of empirically verifying a theoretical question, from conceptualization to analysis. Akron 3850:603.
Prerequisite: Doctoral standing in sociology.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 72217 MULTIVARIATE TECHNIQUES IN SOCIOLOGY 4 Credit Hours
(Slashed with SOC 62217) Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non-experimental causal models and path analysis. Akron 3850:706.
Prerequisite: SOC 32220; and sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 72218 ADVANCED DATA ANALYSIS 4 Credit Hours
(Slashed with SOC 62218) Crucial examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multi-variate inferential statistics. Akron 3850:709.
Prerequisite: SOC 72217; and sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 72219 QUALITATIVE METHODS IN SOCIOLOGY 4 Credit Hours
(Slashed with SOC 62219) Study of qualitative methods including interviewing, observation, use of personal documents, archival data, and special problems of recording and analyzing qualitative data. Akron 3850:714.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 72221 ADVANCED QUALITATIVE METHODS IN SOCIOLOGY 3 Credit Hours
(Slashed with SOC 62221) Provides students with the opportunity to conceive, design and carry out their own qualitative research projects. Students also survey readings that are exemplars of high quality and rigorous qualitative research. Topics such as writing, analysis and ethics are covered as students develop and move forward on their own original research. Students must be actively engaged in a qualitative research project to enroll in the course.
Prerequisite: SOC 72219; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72323 SOCIOLOGY OF HEALTH AND ILLNESS 3 Credit Hours
(Slashed with SOC 62323) Introduction to medical sociology. Topics include health care professions, patient-provider interaction, caregivers, the illness experience, race, ethnicity, gender, socio-economic status and health and global health.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72326 SOCIOLOGY OF MENTAL HEALTH AND MENTAL ILLNESS 3 Credit Hours
(Slashed with SOC 62326) Sociological examination of the social processes that affect mental health, frame cultural ideas of normality and illness, and define clinical pathology. Akron 3850:728.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72328 STRATIFICATION AND HEALTH 3 Credit Hours
(Slashed iwth SOC 62328) Race, social, class and gender differences in physical and mental health status, help-seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726.
Prerequisite: Sociology major; and doctoral major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72332 SOCIAL CONTROL OF MENTAL ILLNESS 3 Credit Hours
(Slashed with SOC 62332) Introduction to the sociological perspective regarding social control and mental illness. Topics include the history of mental illness and the asylum, the stratification of mental illness diagnosis and treatment by race, ethnicity, gender, and socio-economic status, and stigma and psychiatric labeling.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72430 SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with SOC 62430) Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Akron 3850:631.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72433 SOCIAL STRUCTURE AND PERSONALITY 3 Credit Hours
(Slashed with SOC 62433) Examination of contemporary theory and research on linkages between personality and society. Emphasis is on the dynamics of those linkages and their effects on both individuals and social structures. Akron 3850:634.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72437 STRUCTURAL SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with SOC 62437) In-depth introduction to structural social psychology, a set of theoretical and methodological approaches and tools that focuses on the development and testing of multi-level, micro-macro accounts of human social interactions, often through the use of formal theorizing and mathematical modeling. Course provides an overview of the theoretical and research empirical methods that are most associated with structural social psychology; cover the main substantive topics in the area; and then conclude with a brief overview of current issues, debates and recent interdisciplinary advances.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72439 SELF AND IDENTITY 3 Credit Hours
(Slashed with SOC 62439) Examines theories and research on the origins of and on behavioral and social consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health and well-being.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72546 SOCIAL INEQUALITY 3 Credit Hours
(Slashed with SOC 62546) An overview of social inequalities, including definitions, causes, identities, structures and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Akron 3850:646.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72566 SOCIOLOGY OF GENDER 3 Credit Hours
(Slashed with SOC 62566) Examination of theories and research on gender origins, characteristics and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Akron 3850:639.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72760 DEVIANCE 3 Credit Hours
(Slashed with SOC 62760) Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self labeling, case studies, social consequences and problems. Akron 3850:663.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72870 SOCIOLOGY OF RACE AND ETHNICITY 3 Credit Hours
(Slashed with SOC 62870) An in-depth study of the theories, models, research approaches and substantive areas that constitute the sociology of race and ethnicity. Akron 3850:651.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72872 SOCIAL PSYCHOLOGY AND INEQUALITY 3 Credit Hours
(Slashed with SOC 62872) Introduces students to sociological social psychology work that examines the reproduction of inequality. Specifically, the course focuses on "generic social processes" in how individuals, through interaction, are complicit or resistant in the reproduction of inequality through processes such as identity work, collective identity work, emotion work, othering and boundary maintenance. Mechanisms for change are also considered.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72877 SOCIOLOGY OF AGING AND THE LIFE COURSE 3 Credit Hours
(Slashed with SOC 62877) Study of the sociology of aging and the life course, covering the major stages of young adulthood, mid-life, and later life. Topics include demography of aging, transition to adulthood, educational attainment, romantic relationships and cohabitation, marriage, parenting, work and retirement, theories of aging, aging and social policy, neighborhoods and aging, later life living arrangements, and death and dying. Akron 3850:678.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72894 COLLEGE TEACHING OF SOCIOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with SOC 62894) Preparation for college teaching. Course may not be applied toward the doctoral degree. Akron 3850:700.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SOC 72895 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)(Slashed with SOC 62895) Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72896 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with SOC 62896) Intensive pursuit of a subject matter beyond normal course coverage with the possibility of associated research. Students may apply a maximum 6 credit hours combined in individual investigation (SOC 72896) and research (SOC 72898) toward the doctoral degree.
Prerequisite: Sociology major; and doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 72898 RESEARCH 1-3 Credit Hours
(Repeatable for credit)(Slashed with SOC 62898) Pursuit of research interests that can include the student's project and/or a faculty member's project. Student may apply a maximum of 6 credits combined of research (SOC 72898) and individual investigation (SOC 72896) toward the doctoral degree.
Prerequisite: Sociology major; and doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 82199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation is begun and continuing until 30 hours are completed. Akron 3850: 899.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SOC 82299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

School of Biomedical Sciences

Biomedical Sciences (BMS)

BMS 40196 INDIVIDUAL INVESTIGATION IN BIOMEDICAL SCIENCES (ELR) 1-3 Credit Hours
(Repeatable for credit) Research study under the direction of a BMS faculty mentor. Students majoring in biochemistry, biology, biotechnology, chemistry, neuroscience and physics are eligible to enroll in this course, but must have 18 credit hours in their major completed.
Prerequisite: Minimum 2.750 overall GPA; and Biochemistry major or Biology major or Biotechnology major or Chemistry major or Neuroscience major or Physics major; and departmental and faculty mentor approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BMS 50701 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with BMS 70701)(Cross-listed with PSYC 43001, PSYC 53001 and PSYC 73001) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 50702 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with BMS 70702)(Cross-listed with PSYC 43002, PSYC 53002 and PSYC 73002) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Graduate standing and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 50703 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with BMS 70703)(Cross-listed with PSYC 43003, PSYC 53003 and PSYC 73003) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 60110 CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS 2 Credit Hours
(Cross-listed with BSCI 60110)(Slashed with BMS 80110 and BSCI 80110) This course helps prepare graduate students for advanced careers in science. Students learn about a variety of possible careers, prepare application materials and develop their professional oral and writing skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 60120 LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES 2 Credit Hours
(Repeatable once for credit) Minimum of two laboratory rotations per semester by arrangement with individual faculty members.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with BMS 70196) Directed investigation under supervision of faculty member in biomedical sciences and with prior approval.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BMS 60198 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward degree requirements if department approves.
Prerequisite: Graduate standing; and special approval of adviser.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval of adviser.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 60200 FOUNDATIONS OF NEUROSCIENCE 3 Credit Hours
(Slashed with BMS 80200) (Cross-listed with BSCI 60200 and BSCI 80200) This is a graduate-level introductory neuroscience course that will survey aspects of molecular and cellular neuroscience, the biophysics of the nervous system, basic neuroanatomy, and the homeostatic regulation of the periphery. After completion of this course students should have an understanding of how cells of the nervous system work, how these cells interact with homeostatic systems important to the regulation of peripheral physiology and behavior, and the basic neuroanatomy of these regulatory systems, including major neurotransmitter and neuroendocrine systems. Upon completion of this course, students should be prepared for advanced neuroscience coursework.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 60251 THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING 2 Credit Hours
(Slashed with BMS 70251) Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed.
Prerequisite: BSCI 50158; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 60291 SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 70291) Credits may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60295 SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY 1-5 Credit Hours
(Slashed with BMS 70295)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: 6 hours of BMS 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 60440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours
(Slashed with BMS 70440) The relevant and current topics associated with cellular signaling are covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.
Prerequisite: BSCI 40143 or BSCI 50143 or BSCI 70143; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 60441 MEDICAL PHYSIOLOGY 5 Credit Hours
(Slashed with BMS 70441) Investigation of how the integration of biophysics, biochemistry and structure induces organ function in the cardiovascular, renal, respiratory, endocrine and gastrointestinal systems. Limited discussion of how pathologies alter normal organ function.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

BMS 60462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours
(Slashed with BMS 70462) (Cross-listed with BSCI 60462 and BSCI 80462). Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.
Prerequisite: BMS 60729 or BMS 70729; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 60465 MEDICAL NEUROSCIENCE 6 Credit Hours
(Slashed with BMS 70465) Detailed examination of human neuroanatomy and nervous system function.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 lecture, 3 lab
Grade Mode: Standard Letter

BMS 60491 SEMINAR IN MEDICAL PHYSIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 70491) Credits may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60495 SPECIAL TOPICS IN PHYSIOLOGY 1-5 Credit Hours
(Slashed with BMS 70495)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 60501 INTRODUCTION TO PHARMACOLOGY 1 Credit Hour
(Slashed with BMS 70501) Satisfactory/Unsatisfactory (S/U) graded. Basic aspects of pharmacology. Intended to provide a general understanding of fundamental concepts in pharmacology and opportunities for students to read and present peer-reviewed manuscripts covering introductory pharmacological concepts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60502 MOLECULAR PHARMACOLOGY 4 Credit Hours
(Slashed with BMS 70502) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of select drug topics. Focus is placed on the molecular and cellular targets of drug action.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 60503 PHARMACOLOGY JOURNAL REVIEW 1 Credit Hour
(Repeatable maximum four times) (Slashed with BMS 70503) Satisfactory/Unsatisfactory (S/U) graded. Review and discussion of advanced pharmacology journal articles. Students will present and critique articles from peer-viewed publications and actively participate in discussions. Background in physiology and biochemistry required.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60504 CHEMOTHERAPHY AND TOXICOLOGY 2 Credit Hours
(Slashed with BMS 70504) Specialized topics in chemotherapy of microbial and neoplastic diseases as well as principles of toxicology.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 60505 DRUG DISCOVERY AND CLINICAL PHARMACOLOGY 2 Credit Hours
(Slashed with BMS 70505) Basic concepts underlying drug discovery and clinical pharmacology including principles of pharmacokinetics, metabolism, pharmacogenomics and drug design.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 60506 HERBALS AND SUPPLEMENTS 2 Credit Hours
(Slashed with BMS 70506) Provides an understanding of the basic scientific, therapeutic and pharmacological principles underlying the use of medicinal plants, herbal medications, natural products, vitamins, minerals and supplements.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 60591 SEMINAR IN PHARMACOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 70591) Credits may be applied toward degree if department approves. Repeated registration permitted.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60595 SPECIAL TOPICS IN PHARMACOLOGY 1-5 Credit Hours
(Slashed with BMS 70595)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 60596 INDIVIDUAL INVESTIGATION IN PHARMACOLOGY 1-3 Credit Hours
(Slashed with BMS 70596) (Repeatable for credit) Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

BMS 60729 CELLULAR AND MOLECULAR NEUROSCIENCE 4 Credit Hours
(Slashed with BMS 70729) The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental neurobiology.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 60751 CURRENT RESEARCH IN AUDITORY NEUROBIOLOGY 1 Credit Hour
(Slashed with BMS 70751) (Repeatable for a maximum of four credit hours) Presentation-based by faculty in the Auditory Neuroscience Group. Topics will vary each semester. Each class presentation will highlight recent advances in auditory neurobiology, cover relevant background, and involve discussion of methodology, experimental design, and interpretive issues related to the research. Students will prepare a presentation on a topic chosen in conjunction with one of the faculty members. Assessment is based on presentation quality and active participation throughout the semester.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 60791 SEMINAR IN NEUROBIOLOGY 1 Credit Hour
(Slashed with BMS 70791) (Repeatable for credit) Credits may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60795 SPECIAL TOPICS IN NEUROBIOLOGY 1-5 Credit Hours
(Slashed with BMS 70795)(Repeatable for credit) Study of problems of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 61000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour
(Slashed with BMS 71000) (Cross-listed with PHIL 61000) Introduction to professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BMS 61001 INTRODUCTION TO BIOMEDICAL SCIENCES 1 Credit Hour
(Slashed with BMS 71001) Seminar for all students in Biomedical Sciences. Repeat registration permitted.
Prerequisite: Graduate Standing in the School of Biomedical Sciences; Biological Anthropology, Biomedical mathematics, Cellular and Molecular Biology, Neurosciences, Pharmacology, Physiology Interdisciplinary.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 70120 LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES 2 Credit Hours
(Slashed with BMS 60120) (Repeatable once for credit) Minimum of two laboratory rotations per semester by arrangement with individual faculty members. May be repeated once.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Slashed with BMS 60196) (Repeatable for credit) Directed investigation under supervision of faculty member in biomedical sciences and with prior approval.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BMS 70251 THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING 2 Credit Hours
(Slashed with BMS 60251) Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed.
Prerequisite: BSCI 50158; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 70291 SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 60291) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70295 SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY 1-5 Credit Hours
(Slashed with BMS 60295)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 70440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours
(Slashed with BMS 60440) The relevant and current topics associated with cellular signaling are covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.
Prerequisite: BSCI 40143 or BSCI 50143 or BSCI 70143; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 70441 MEDICAL PHYSIOLOGY 5 Credit Hours
(Slashed with BMS 60441) Investigation of how the integration of biophysics, biochemistry and structure induces organ function in the cardiovascular, renal, respiratory, endocrine and gastrointestinal systems. Limited discussion of how pathologies alter normal organ function.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

BMS 70462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours
(Slashed with BMS 60462) (Cross-listed with BSCI 60462 and BSCI 80462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.
Prerequisite: BMS 60729 or BMS 70729; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 70465 MEDICAL NEUROSCIENCE 6 Credit Hours
(Slashed with BMS 60465) Detailed examination of human neuroanatomy and nervous system function.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 lecture, 3 lab
Grade Mode: Standard Letter

BMS 70491 SEMINAR IN MEDICAL PHYSIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 60491) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70495 SPECIAL TOPICS IN PHYSIOLOGY 1-5 Credit Hours
(Slashed with BMS 60495)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 70501 INTRODUCTION TO PHARMACOLOGY 1 Credit Hour
(Slashed with BMS 60501) Satisfactory/Unsatisfactory (S/U) graded. Basic aspects of pharmacology. Intended to provide a general understanding of fundamental concepts in pharmacology and opportunities for students to read and present peer-reviewed manuscripts covering introductory pharmacological concepts.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 70502 MOLECULAR PHARMACOLOGY 4 Credit Hours
(Slashed with BMS 60502) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of select drug topics. Focus is placed on the molecular and cellular targets of drug action.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 70503 PHARMACOLOGY JOURNAL REVIEW 1 Credit Hour
(Repeatable maximum four times) (Slashed with BMS 60503) Review and discussion of advanced pharmacology journal articles. Students will present and critique articles from peer-viewed publications and actively participate in discussions. Background in physiology and biochemistry required. Satisfactory/Unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70504 CHEMOTHERAPY AND TOXICOLOGY 2 Credit Hours
(Slashed with BMS 60504) Specialized topics in chemotherapy of microbial and neoplastic diseases as well as principles of toxicology.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 70505 DRUG DISCOVERY AND CLINICAL PHARMACOLOGY 2 Credit Hours
(Slashed with BMS 60505) Basic concepts underlying drug discovery and clinical pharmacology including principles of pharmacokinetics, metabolism, pharmacogenomics and drug design.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 70506 HERBALS AND SUPPLEMENTS 2 Credit Hours
(Slashed with BMS 60506) Provides an understanding of the basic scientific, therapeutic and pharmacological principles underlying the use of medicinal plants, herbal medications, natural products, vitamins, minerals and supplements.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 70591 SEMINAR IN PHARMACOLOGY 1 Credit Hour
(Slashed with BMS 60591) (Repeatable for credit) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70595 SPECIAL TOPICS IN PHARMACOLOGY 1-5 Credit Hours
(Slashed with BMS 60595)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 70596 INDIVIDUAL INVESTIGATION IN PHARMACOLOGY 1-3 Credit Hours
(Slashed with BMS 60596) (Repeatable for credit) Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BMS 70701 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with BMS 50701)(Cross-listed with PSYC 43001, PSYC 53001 and PSYC 73001). Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 70702 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with BMS 50702)(Cross-listed with PSYC 43002, PSYC 53002 and PSYC 73002) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Doctoral standing and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 70703 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with BMS 50703)(Cross-listed with PSYC 43003, PSYC 53003 and PSYC 73003) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 70729 CELLULAR AND MOLECULAR NEUROSCIENCE 4 Credit Hours
(Slashed with BMS 60729) The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental neurobiology.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 70751 CURRENT RESEARCH IN AUDITORY NEUROBIOLOGY 1 Credit Hour
(Slashed with BMS 60751) (Repeatable for a maximum of four credit hours) Presentation-based by faculty in the Auditory Neuroscience Group. Topics will vary each semester. Each class presentation will highlight recent advances in auditory neurobiology, cover relevant background, and involve discussion of methodology, experimental design, and interpretive issues related to the research. Students will prepare a presentation on a topic chosen in conjunction with one of the faculty members. Assessment is based on presentation quality and active participation throughout the semester.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 70791 SEMINAR IN NEUROBIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 60791) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70795 SPECIAL TOPICS IN NEUROBIOLOGY 1-5 Credit Hours
(Slashed with BMS 60795)(Repeatable for credit) Study of problems of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 71000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour
(Slashed with BMS 61000) (Cross-listed with PHIL 61000) Introduction to professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BMS 71001 INTRODUCTION TO BIOMEDICAL SCIENCES 1 Credit Hour
(Slashed with BMS 61001) Introductory seminar for new students in Biomedical Sciences graduate programs. This seminar will expose students to the different faculty research programs available in the program.
Prerequisite: Doctoral standing in Biomedical Sciences.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 78630 PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 68630) Graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates and early man.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 78637 BIOANTHROPOLOGICAL DATA ANALYSIS I 5 Credit Hours
(Cross-listed with ANTH 68637) Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

BMS 78638 BIOANTHROPOLOGICAL DATA ANALYSIS II 3 Credit Hours
(Cross-listed with ANTH 68638) This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple sample problems and regression methods. It also includes computer applications.
Prerequisite: BMS 78637; and Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 78691 SEMINAR IN BIOLOGICAL ANTHROPOLOGY 1 Credit Hour
(Repeatable for credit) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 78692 FIELD WORK IN PALEOANTHROPOLOGY 1-5 Credit Hours
(Repeatable for credit) Excavation and/or field survey of miocene and/or plio-pleistocene hominid localities.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Field Experience
Contact Hours: 1-5 other
Grade Mode: Standard Letter

BMS 78695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 1-5 Credit Hours
(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 80110 CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS 2 Credit Hours
(Cross-listed with BSCI 80110)(Slashed with BMS 60110 and BSCI 60110) This course helps prepare graduate students for advanced careers in science. Students learn about a variety of possible careers, prepare application materials and develop their professional oral and writing skills.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 80198 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students who have not yet passed candidacy examination.
Prerequisite: Doctoral standing; and special approval of adviser.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Students must successfully complete the doctoral exam before taking this course.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 80200 FOUNDATIONS OF NEUROSCIENCE 3 Credit Hours
(Slashed with BMS 60200) (Cross-listed with BSCI 60200 and BSCI 80200) This is a graduate-level introductory neuroscience course that will survey aspects of molecular and cellular neuroscience, the biophysics of the nervous system, basic neuroanatomy, and the homeostatic regulation of the periphery. After completion of this course students should have an understanding of how cells of the nervous system work, how these cells interact with homeostatic systems important to the regulation of peripheral physiology and behavior, and the basic neuroanatomy of these regulatory systems, including major neurotransmitter and neuroendocrine systems. Upon completion of this course, students should be prepared for advanced neuroscience coursework.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: 30 hours of BMS 80199; and Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

School of Multidisciplinary Social Sciences and Humanities

Arts and Sciences (AS)

AS 10010 SCIENCE EXPERIENCE 1 Credit Hour
(Repeatable for credit) Students gain experience in research methods via participation in mentored hands-on science research projects. Each student works on an individual basis in consultation with their assigned research mentor. Laboratory safety training is provided and required for the projects. Students must have completed or be co-enrolled in at least one college level (or advanced placement) class in a relevant STEM discipline.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter-IP

AS 20010 SUCCESS IN A FLASH 1 Credit Hour
This course provides useful and timely academic resources to help students achieve academic success. Time prioritization, academic motivation, goal setting, mindset and various learning techniques are covered.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

AS 20095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) This course, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AS 30092 INTERNSHIP (ELR) 1-12 Credit Hours
(Repeatable for credit) Students participate in internships under the direction of a faculty member.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-36 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

AS 30095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) This course, administered by the dean, is intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AS 30189 STUDY ABROAD: SPECIAL TOPICS (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) A Kent State faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

AS 30196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) A student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Kent State faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

AS 30290 STUDY AWAY: SPECIAL TOPICS (ELR) 1-3 Credit Hours
(Repeatable for credit) A Kent State faculty-led out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States.
Prerequisite: Special approval.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AS 30798 GENDER AND SEXUALITY RESEARCH FORUM (ELR) 3 Credit Hours
Allows students to do research in areas of gender and sexuality that connects to their own interests, which will be presented in public settings such as panels and presentations.
Prerequisite: None.
Schedule Type: Lecture, Research
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AS 41099 CAPSTONE IN GENDER AND SEXUALITY STUDIES (ELR) 3 Credit Hours
Students will be expected to design and implement an individualized exploration that demonstrates the interactions of theory and application, ideas and practice, and is reflective of the tenets of the interdisciplinary field of gender and sexuality.
Prerequisite: None.
Schedule Type: Lecture, Research
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AS 50095 SPECIAL TOPICS 1-4 Credit Hours
(Slashed with AS 70095) (Repeatable for credit) Topic to be announced in the schedule of classes.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AS 50096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

AS 60092 INTERNSHIP 1-6 Credit Hours
(Repeatable for credit) Students participate in internships under the direction of a faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

AS 70095 SPECIAL TOPICS 1-4 Credit Hours
(Slashed with AS 50095) (Repeatable for credit) Topic to be announced in the schedule of classes.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AS 70096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

Gender and Sexuality Studies (GSS)

GSS 10100 INTRODUCTION TO GENDER AND SEXUALITY STUDIES 3 Credit Hours
This course explores gender and sexuality studies from a multidisciplinary perspective. This course examines the cultural, social and biological constructs of sex and gender and interrogates the structures — governmental, familial, religious and social — that have informed historical and current thinking about sex and gender. This course includes global histories and definitions of gender and sexuality across time and place, and asks students to ponder: why is gender a primary organizing societal principle, and how do race, class, sexuality and disability status intersect with it?
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GSS 30500 METHODOLOGIES AND PRAXIS IN GENDER AND SEXUALITY STUDIES 3 Credit Hours
This course provides an arena for individual and group inquiry as well as conversations on methodologies and practices in gender studies pedagogy and research with emphases on multi-, inter- and transdisciplinary approaches. The topics reflect the crucial linkage between knowledge as we do knowledge, ethics as we embrace ethics, practices and traditions as they play and accrue within the real academic endeavors of the fields which converge and diverge in gender studies and its closely kindred variants. This course offers different methodological entrance points of use and value. At once, we study their deployment in actual practice. Moving beyond research practice, the course considers, too, the multifaceted praxes of scholars, teachers and cohorts of all kinds involved in the actional vision, mission, strategies, tactical planning and programmings, record-keeping, self-appraisals and archives at the heart of gender and sexuality studies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GSS 40450 GENDER AND SEXUALITY ROUNDTABLE 3 Credit Hours
This course takes an interdisciplinary approach in examining how gender and sexuality have been constructed through social, cultural, discursive and economic processes in hierarchizing social relations in society. The course is organized in a roundtable format that draws on the expertise of scholars and practitioners in the field who introduce students to contemporary issues and debates around gender and sexuality, both locally and globally, in a participatory forum. Students also gain insight on critical anti-racist, feminist and queer epistemologies and pedagogies in order to generate new knowledge and act in addressing gender and sexual inequality in their communities and wider society.
Prerequisite: GSS 10100.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GSS 40591 SEMINAR IN GENDER AND SEXUALITY STUDIES 3 Credit Hours
(Repeatable for credit) This course is required for all students in the Gender and Sexuality Studies major. The focus varies with instructor, providing students with advanced learning in gender and sexuality studies.
Prerequisite: GSS 10100.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Integrative Studies (IGST)

IGST 40099 SENIOR PROJECT (ELR) (WIC) 1-3 Credit Hours
(Repeatable twice for credit) Senior Project is a thesis or independent study done under the supervision of a faculty advisor. Students need written approval of faculty advisor, faculty member's unit, or director of the Center for Comparative and Integrative Programs in order to enroll in this course.
Prerequisite: Senior standing in a multidisciplinary program in the center for comparative and integrative programs; and special approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement, Writing Intensive Course

IGST 40192 INTERNSHIP IN INTEGRATIVE STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) Internship.
Prerequisite: Special approval from the director of the center for comparative and integrative programs.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

International Studies (INTS)

INTS 10504 THE NEW PANGAEA: YOUR ROLE IN OUR GLOBAL COMMUNITY (DIVG) 3 Credit Hours
Introduces students to the myriad of ways in which they are individually and collectively connected to the global community. Looking specifically at ways in which people are interconnected as consumers, patients, donors and participants in discourse, the course introduces students to the concepts, institutions and dynamics of globalization. Through assignments that focus on important global issues and engage students directly with the global community, students (a) learn how to engage the global community as informed consumers of information, (b) understand the basic structure of the global political arena, (c) learn how to engage actively and consciously within that arena and (d) understand the ways in which their daily behavior impacts global trends.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

INTS 30001 "TRUE FACTS": MAKING SENSE OF YOUR WORLD 3 Credit Hours
How can you find a reliable answer to a question you are curious about? "Research methods" sometimes seems like an intimidating subject, but it is really just a chance to think about how to find good answers to important questions. Scholars use a wide variety of methods, and this course provides an introduction to many of them, preparing students to be informed, critical consumers of information; to succeed in future research projects; and to take additional methods courses with confidence if they choose.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 30101 WORLDS OF WEALTH AND POWER 3 Credit Hours
Students investigate a wide variety of real-world market activity, including the economics of war, the underground economies of the rich and poor and the role of illicit trade in the making of the United States. What is the everyday experience of economic life like in these and other conditions? What can that tell us about how markets work on the local, national and global levels?
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 30301 HUMAN SECURITY 3 Credit Hours
For a century or more, leaders around the globe have defined "national security" narrowly, focusing nearly entirely on perceived threats of physical violence against the systems they led. A less state-centric and more person-centric conceptualization of security recognizes that the threats to human security include not only violence against a state or economic system. Food insecurity, for instance, whether caused by famine, poverty, maldistribution of resources or structural disparities in access (for instance, so called "food deserts") undermines the security not only of individuals, but communities and, thereby, leadership. Climate change has caused land erosion and, thereby, resource evolution and depletion in various parts of the globe, leaving whole communities (and thereby states) economically and physically vulnerable. This course explores multiple dimensions of human (in)security, examines related policies and stretches analytic muscles in considering potential solutions to causes of insecurity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 30501 ORDER AND RESISTANCE 3 Credit Hours
When the hierarchies of economic systems or state institutions are unresponsive to the needs of society, movements develop to resist the prevailing ruling order. Sometimes social movements seek to empower and include new members of society. Other times they mobilize on constructed grievances that seek to maintain untenable social exclusions. Whether demanding more equality or something else, these ordinary people in social movements enter a conversation with the people who govern them and have the full weight of the state apparatus behind them. This course reflects on this process of social struggle in order to understand the political, economic and social costs of supporting the continued exclusion of certain groups. It aims to understand political change and violence as a struggle played out between state authorities and social movements. After examining case studies of such state-society struggles from around the world, students are guided to consider what role they can each play to constructively contribute to the global society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 30570 PALESTINE AND ISRAEL (DIVG) 3 Credit Hours
(Cross-listed with POL 30570) Course introduces students to academic approaches and theories that attempt to understand the situation in historic Palestine. The course is divided into four sections: (1) theories of settler colonialism and basic differences between Judaism, Zionism and Israeli society, as well as diversity within Palestinian society; (2) comparative studies of the establishment of the modern state of Israel, which Palestinians view in their collective experience as "the Catastrophe" or al-Nakba; (3) the occupation of East Jerusalem, the West Bank and Gaza, and how that system has changed over time; (4) pathways forward for Palestinians and Israelis.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

INTS 40089 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) Faculty-led study abroad programs.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

INTS 40092 INTERNSHIP (ELR) 1-6 Credit Hours
(Repeatable for credit) In consultation with a faculty member, the student arranges a substantive internship in a relevant area. The student also typically provides a journal of the experience, as well as a written analysis comparing the practice of the internship to an example of relevant scholarship in the area.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

INTS 40095 SPECIAL TOPICS IN INTERNATIONAL STUDIES 3 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in international studies not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual investigation with a faculty member. Student typically develops a topic and reading list in consultation with the faculty member, discusses the material with the faculty member throughout the semester and produces a paper at the end of the course.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

INTS 40560 HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG) 3 Credit Hours
(Cross-listed with POL 40560) Examines the relationship between human rights and problems of the Third World in the civic, political, social and cultural arenas. Particular attention is placed on the struggle of women.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

INTS 40799 CAPSTONE IN INTERNATIONAL STUDIES (ELR) (WIC) 3 Credit Hours
In this course, students integrate and build on what they have learned throughout the major. The standard assignment is a research paper that (1) connects the electives the student has taken with the core courses in the major and (2) describes a future trajectory of learning and working (answering such questions as: What are you planning to do after graduation? What is the next step in your career? Where and how are you going to make a difference? How do you build on what you have done here in order to get there?). In consultation with the instructor, students may develop a different assignment, such as a paper on a different topic, a graduate school application essay and writing sample, a career application portfolio or part of an honors thesis.
Prerequisite: None.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

Jewish Studies (JWST)

JWST 11001 INTRODUCTION TO JEWISH STUDIES 3 Credit Hours
Introductory exploration and examination of the diversity of Jewish life, culture, religion and society from antiquity to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 20011 INTRODUCTION TO THE HEBREW BIBLE OR OLD TESTAMENT 3 Credit Hours
Introduces students to the modern study of the Hebrew Bible (Old Testament) and the history and religion of ancient Israel. Designed to help students to understand the development of the Hebrew Bible in its ancient context. The course approaches the Hebrew Bible from historical, comparative, literary, anthropological and archeological perspectives in an effort to illuminate the world of its authors. No prior knowledge of the Bible, Judaism or Christianity is required.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 30092 INTERNSHIP IN JEWISH STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) Internship in Jewish studies.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

JWST 30100 JEWISH WOMEN IN THE MODERN WORLD 3 Credit Hours
Course explores the lives and experiences of Jewish women from diverse communities and traditions, in relation to a wide array of divergent cultural contexts within the modern world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 30200 JEWS, BASEBALL AND AMERICAN SPORTS 3 Credit Hours
Chronicles the experience of Jewish players and performers in American sports. Course explores the issues of religious and ethnic prejudice that Jewish athletes endured, challenged and overcame.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 30300 CHILDREN OF THE HOLOCAUST: PERPETRATORS AND VICTIMS 3 Credit Hours
Examination of the children directly affected by the Holocaust (whether as victims, perpetrators, heroes, rescuers or survivors) and the impact these children had on the Holocaust and on history.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 30301 HOLLYWOOD AND THE HOLOCAUST 3 Credit Hours
This course will examine the history of how Hollywood, starting in the 1930s, dealt with the rise of Nazism and its impact on the Jews of Germany and of Europe. In addition, we will be dealing with the large numbers of Holocaust-related films that reached the movie houses starting in the late 1940s to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

JWST 40089 STUDY ABROAD (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) A Kent State study abroad experience led by Jewish Studies faculty that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

JWST 40090 STUDY AWAY (ELR) 1-4 Credit Hours
(Repeatable for credit) A Kent State out-of-classroom experience led by Jewish Studies faculty that integrates traditional classroom learning with experiential activities and site visits within the United States.
Prerequisite: None.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

JWST 40095 SPECIAL TOPICS IN JEWISH STUDIES 3 Credit Hours
(Repeatable for credit) Topics vary per course offering as published in the Schedule of Classes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Student-initiated experience in an area of interest not covered by a regular course offering and with the guidance of a Kent State faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

LGBTQ Studies (LGBT)

LGBT 20020 INTRODUCTION TO LESBIAN, GAY, BISEXUAL, TRANSGENDER AND QUEER STUDIES 3 Credit Hours
Introduction to the field of LGBTQ Studies as well as an introduction to critical issues in LGBTQ lives.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LGBT 30095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours
(Repeatable for credit) Study of special topics related to LGBTQ studies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LGBT 30120 LGBTQ RIGHTS AND CONTEMPORARY ISSUES 3 Credit Hours
This course will explore the current political, legal, and social climate in the United States for LGBTQ individuals. The main objective of this course will be to provide students with the skills and tools to engage intelligently in discourse about LGBTQ issues, rights, history, activism, and lives.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

LGBT 30135 LGBTQ REPRESENTATIONS IN POPULAR CULTURE 3 Credit Hours
This course will explore the representations or portrayals of LGBTQ people in popular culture. Popular culture includes pulp fiction, television, news media, social media, films, and other media.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

LGBT 30196 INDIVIDUAL INVESTIGATION IN LGBTQ STUDIES 1-3 Credit Hours
(Repeatable for credit) Individual investigation in areas of interest not covered in courses.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

LGBT 31138 LGBTQ RESEARCH METHODS (ELR) 3 Credit Hours
Explores different qualitative and quantitative methodologies through applied research on LGBTQ-related topics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

LGBT 40095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours
(Repeatable for credit) This course will provide new and emerging topics for students to study.
Prerequisite: LGBT 20020 or LGBT 31138.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LGBT 40192 PRACTICUM IN LGBTQ STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) Guided study of various aspects of the LGBTQ experience through involvement in the community, government agencies, non-profits, educational institutions, and other areas.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 8-18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

LGBT 40201 TRANSGENDER STUDIES 3 Credit Hours
Explores transgender studies, which addresses theories, practices, laws and other cultural expressions of sexed embodiments, gender identity and gender expression.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LGBT 40202 QUEER THEORY 3 Credit Hours
Explores theories related to sexual orientation, gender expression and gender identity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Liberal Studies (LSTU)

LSTU 60092 INTERNSHIP 1-6 Credit Hours
(Repeatable for credit) Students participate in internships under the direction of a faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LSTU 61091 LIBERAL STUDIES RESEARCH PAPER 1-3 Credit Hours
(Repeatable for credit) Students learn how to write a graduate-level research paper.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

LSTU 61098 LIBERAL STUDIES ESSAY 3 Credit Hours
(Repeatable for credit) The preparation of a lengthy, research-based essay related to the student's program of study for the Master of Liberal Studies degree.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Multidisciplinary Social Sciences and Humanities (MSSH)

MSSH 20071 INTRODUCTION TO GENDER AND SEXUALITY STUDIES 3 Credit Hours
Provides an introduction to the interdisciplinary study of gender and sexuality, with particular focus on the tenants of the field (e.g., intersectionality, anti-oppression, social justice).
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MSSH 30171 THEORIES OF GENDER AND SEXUALITY 3 Credit Hours
Provides students the opportunity to explore in finer detail the theories and approaches used in the study of gender and sexuality (including feminisms, queer theory, critical theories, intersectionality, anti-oppression, social justice), and to address the influence of such theoretical approaches in further research on the subjects of gender and sexuality and by informing social change and deliberations by individuals and movements concerning gender and sexuality.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MSSH 40089 STUDY ABROAD (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) A Kent State faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MSSH 40090 STUDY AWAY (ELR) 1-4 Credit Hours
(Repeatable for credit) Faculty-led and other study away opportunities in the School of Multidisciplinary Social Sciences and Humanities.
Prerequisite: None.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MSSH 40092 INTERNSHIP (ELR) 1-6 Credit Hours
(Repeatable for credit) In consultation with a faculty member, the student arranges a substantive internship in a relevant area. The student also typically provides a journal of the experience, as well as a written analysis comparing the practice of the internship to an example of relevant scholarship in the area.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MSSH 40095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Topics vary depending on instructor and current interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

Paralegal Studies (PLST)

PLST 18000 INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS 3 Credit Hours
An overview of the legal system and the role of a paralegal professional. Includes legal terminology, types of laws, research, litigation, interviewing and office management.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 28001 LEGAL RESEARCH AND WRITING 3 Credit Hours
In-depth analysis of the legal research process, development of legal writing skills, opportunities to utilize research and writing skills are integrated into the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 28003 FAMILY LAW AND PROCEDURE 3 Credit Hours
Designed to acquaint the student with family law substance and practice. Covers definitions, terminology, topical areas and the philosophy underlying family law practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 28004 CIVIL PROCEDURE 3 Credit Hours
Provides an introduction to the rules of civil procedure, statutes of limitation and discovery. Included in this course is a discussion of the role of the paralegal in preparation for litigation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 28007 ESTATE AND PROBATE ADMINISTRATION 3 Credit Hours
A study of legal principles applicable to wills, organization and jurisdiction of probate court, estate administration in probate and tax considerations in estate administration.
Prerequisite: PLST 18000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 30000 ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT 3 Credit Hours
The Federal and State environmental regulations including the National Environmental Policy Act, the Clean Air Act, the Clean Water Act, Solid and Hazardous Waste regulations (RCRA) and the Superfund Legislation require the utilization of trained environmental professionals to conduct Environmental Site Assessments (ESAs). The focus of this course is to introduce students to the methods and approaches for conducting environmental research and study of industrial sites with respect to environmental policies and regulations. The enforcement of regulations utilize environmental professionals who serve in governmental agencies, work in private environmental companies that provide assessments and consultations for industries, and who are employed by industries that seek qualified employees to conduct assessments, and provide professional guidance for industrial regulatory compliance.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 35001 ENVIRONMENTAL LAW FOR PARALEGALS 3 Credit Hours
Acquaints the student with the various federal and state statutes, administrative rules and case law that govern environmental regulation. International environmental law is also studied.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 35003 HEALTH LAW 3 Credit Hours
Makes the student familiar with legal topics in the field of health care including federal and state statutes governing the health care industry in the United States. Specific topics include insurance, privacy, malpractice, fraud, Medicare, Medicaid, health records, labor law-related issues and clinical research.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 35005 LABOR AND EMPLOYMENT LAW FOR PARALEGALS 3 Credit Hours
Provides a foundation in the areas of labor law, employment law, and employment discrimination law. Requires in-depth study of constitutional, statutory, administrative, and case law at both the federal and state level.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 35007 ENERGY AND NATURAL RESOURCES LAW 3 Credit Hours
Acquaints the student with the various sources of law that govern energy production and the harvesting of natural resources in the United States. Statutory, administrative, and case law at the federal and state levels are explored.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 36001 LAW OFFICE TECHNOLOGY 3 Credit Hours
This course introduces students to computer hardware and software that apply to the legal environment. Students learn Microsoft Office components including Teams, Word, Excel, OneNote, PowerPoint and Outlook, and the Windows operating system as they are used in the day-to-day life of paralegals. Students also explore legal specific software including TrialDirector, Clio, NetDocuments, Workshare, iManage and Concordance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 36792 INTERNSHIP IN PARALEGAL (ELR) 3-12 Credit Hours
(Repeatable for credit) Work experience under the direction of supervising faculty members in the following entities: private law firms, legal service/legal aid offices, law departments or corporations and government agencies.
Prerequisite: PLST 18000 and PLST 28001 and PLST 28004.
Schedule Type: Practical Experience
Contact Hours: 21-84 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PLST 38003 ADMINISTRATIVE LAW AND PROCESS 3 Credit Hours
The substantive and procedural aspects of administrative law are covered in this course. Specific topics include the regulation of public utilities, transportation agencies, employment, food and drugs and the environment.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 38005 TORT LAW 3 Credit Hours
Focus is on tort and personal injury law. Specific topics include intentional torts, negligent torts, strict liability, vicarious liability, product liability and business torts. Defenses to tort and product liability are also discussed.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 38006 APPLIED LEGAL RESEARCH AND LITIGATION (WIC) 3 Credit Hours
Provides for intense case analysis and preparation of argumentative memorandum, including writing of factual memoranda, file summaries and advocacy letters.
Prerequisite: PLST 28001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PLST 40095 SPECIAL TOPICS IN PARALEGAL STUDIES 1-3 Credit Hours
(Repeatable for credit) Topics vary depending on instructor and current legal issues in the area of paralegal studies and the law.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PLST 42701 EVIDENCE AND E-DISCOVERY 3 Credit Hours
Addresses the various issues concerning the use of evidence in the pre-trial, trial, and post-trial phases of litigation. The course will address the traditional rules and issues associated with litigation practice as well as the new issues concerning electronic discovery of evidence and the use of that evidence.
Prerequisite: PLST 28001 and PLST 28004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 42705 BANKRUPTCY LAW I: BASIC FUNDAMENTALS 3 Credit Hours
Provides an outlay of the fundamentals of bankruptcy law including the basic rules of the Chapter 7, Chapter 11, and Chapter 13 forms of bankruptcy. This course will also cover other topics such as the bankruptcy petition, the role of the bankruptcy trustee, and discharge from bankruptcy.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 42706 BANKRUPTCY LAW II: CREDITOR-DEBTOR RELATIONS 3 Credit Hours
Addresses issues not addressed in PLST 42705 including Chapter 9, Chapter 12, and Chapter 15 bankruptcy as well as the problems associated with gaining and collecting on a judgment. International bankruptcy issues will also be addressed.
Prerequisite: PLST 42705.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 42708 REAL ESTATE LAW 3 Credit Hours
Provides a general outlay of real estate law in the United States. Students will learn the substantive and procedural aspects of gaining and protecting property rights. Real estate contracts, financing, zoning, and landlord-tenant issues will also be covered.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48002 CONTRACT LAW 3 Credit Hours
Intended to provide the student with an in-depth analysis of basic contract law as such related to contact information, performance and remedies. Also intended to familiarize the student with the sources of law that define contracts with an emphasis on reading and understanding case law. The student also develops a vocabulary of legal terms so that the student may assist the legal practitioner in the representation of clients in business transactions and in disputes.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48300 LAW OF CORPORATIONS AND OTHER ASSOCIATIONS 3 Credit Hours
Covers the formation, operation and dissolution of various kinds of business organizations. Subjects covered include sole proprietorships, corporations, partnerships, the law of agency and employment agreements.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48401 PATENT LAW 3 Credit Hours
Provides the student with an in-depth analysis of the law pertaining to patents, stressing the ability of the owner to protect their rights through filing, registration and use. International issues concerning registration, use, and trade agreements are also covered.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48403 PATENT PROSECUTION 3 Credit Hours
Students learn to craft patent claims in various types of patent applications that would be submitted to the U.S. Patent and Trademark Office. Students also learn the mechanics of various types of patent applications including traditional applications, provisional applications, divisional applications and continuing applications. Students also gain an understanding of the various post-grant proceedings.
Prerequisite: PLST 48401; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48404 COPYRIGHT LAW I 3 Credit Hours
(Slashed with PLST 58404) Intended to provide the student with an in-depth analysis of the foundations of the law pertaining to copyrights. Stresses the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law, trademark law and the law of trade secrets.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48407 TRADEMARK LAW 3 Credit Hours
(Slashed with PLST 58407) Intended to provide the student with an in-depth analysis of the law pertaining to trademarks and trade secrets. Stresses the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law and copyright law.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48408 TRADEMARK PROSECUTION 3 Credit Hours
Covers the substantive and procedural aspects of trademark prosecution at the state, federal, and international levels. Special attention will be paid to the topics of drafting the trademark application and conducting searches of existing trademarks in the United States and abroad.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 58404 COPYRIGHT LAW I 3 Credit Hours
(Slashed with PLST 48404) Intended to provide the student with an in-depth analysis of the foundations of the law pertaining to copyrights. Stress the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law, trademark law and the law of trade secrets.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 58407 TRADEMARK LAW 3 Credit Hours
(Slashed with PLST 48407) Intended to provide the student with an in-depth analysis of the law pertaining to trademarks and trade secrets. The course will stress the ability of the owner to protect such rights through use and registration. The course will also discuss the links to patent law and copyright law.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Religion (REL)

REL 11020 INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM) 3 Credit Hours
A study of the religious impulse as it manifests itself in the plurality of beliefs, practices and institutions of the world religions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement, Kent Core Humanities, Transfer Module Humanities

REL 12020 INTRODUCTION TO NEW TESTAMENT LITERATURE 3 Credit Hours
Course introduces students to the literature of the New Testament and to the early Christian communities in which the works were formulated. Of focused interest is the critical study of the content of the texts, with close consideration of the historical and literary influences on the composition and reception of the gospel traditions as regards their presentations of the life, ministry and person of Jesus, and the letters of Paul. The post-Pauline pastoral epistles, and various later works included in the collection are briefly examined.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 21021 MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM) 3 Credit Hours
An in-depth exploration of Judaism, Christianity and Islam, considering the circumstances of each tradition's beginnings, the influence of the identified founder, and the cultural diversities evident in the history of each of the distinctive religious traditions, as well as the inter-connectedness and influence of each of three religions upon the others. Course concludes with a consideration of the contemporary situations faced by the traditions, including their engagements with modernity and one another as global historic traditions in a changing world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement, Kent Core Humanities, Transfer Module Humanities

REL 31065 COMPARATIVE RELIGIOUS EXPERIENCE 3 Credit Hours
Examination of the phenomena of religious experience, its structure, ramifications and expression in myth and ritual.
Prerequisite: REL 11020 or REL 21021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 31075 RELIGION AND WOMEN 3 Credit Hours
Course serves to provide students with an opportunity to examine the status of women as concerns authoritative texts, politics, doctrines and institutions through the critical study of the history, texts and artifacts of selected traditional religions with the use of multidisciplinary and cross-cultural approaches concerning the experience, contributions, topics and status of women – both historically and in contemporary contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 40095 SPECIAL TOPICS IN RELIGION STUDIES 3 Credit Hours
(Repeatable for credit) Special topics seminar in religion studies.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

REL 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual investigation in religion studies.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

REL 41010 RELIGION, VIOLENCE AND TERROR 3 Credit Hours
(Slashed with REL 51010) Course explores a variety of religions focusing on the themes of violence and terror. The examination employs different academic approaches to selected historic examples and their underlying causes.
Prerequisite: Junior or Senior Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 41091 SEMINAR IN ADVANCED COMPARATIVE RELIGION 3 Credit Hours
(Repeatable for credit) (Slashed with REL 51091) Variable content course that is an advanced examination of pivotal issues, schools and theorists in the study of religion and the future of comparative studies.
Prerequisite: Junior or senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

REL 42091 RELIGION IN THE MODERN WORLD 3 Credit Hours
(Slashed with REL 52091) (Repeatable for credit) An inquiry into the influences of modernity in the conception, valuation and-or interpretation of religious convictions, beliefs, symbolizations, institutions and artifacts (including texts). The study of Religion in the Modern World is a complex undertaking offering multiple foci with multiple attending disciplines and approaches to the inquiry. Given the plurality of foci and approaches, instructors may choose to address any number of the common topics associated with the evolution of religions in the modern world. Examples include: religion and science -- from cosmology (Gallio, Newton, to black holes) to the origins and evolution of the human species (Darwin), or religion and society, or religion and the modern state, or religion and industrial society, or religion in a modern world of pluralism and multicultural societies as well as the religious reactions against science, modern multicultural societies, the modern state and the changing legal status of women, minorities, and children, and the rise of fundamentalism.
Prerequisite: Junior or Senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

REL 51010 RELIGION, VIOLENCE AND TERROR 3 Credit Hours
(Slashed with REL 41010) Course explores a variety of religions focusing on the themes of violence and terror. The examination employs different academic approaches to selected historic examples and their underlying causes.
Prerequisite: Graduate studies.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 51091 SEMINAR IN ADVANCED COMPARATIVE RELIGION 3 Credit Hours
(Repeatable for credit) (Slashed with REL 41091) Variable content course that is an advanced examination of pivotal issues, schools and theorists in the study of religion and the future of comparative studies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

REL 52091 RELIGION IN THE MODERN WORLD 3 Credit Hours
(Slashed with REL 42091) (Repeatable for credit) An inquiry into the influences of modernity in the conception, valuation and-or interpretation of religious convictions, beliefs, symbolizations, institutions and artifacts (including texts). The study of Religion in the Modern World is a complex undertaking offering multiple foci with multiple attending disciplines and approaches to the inquiry. Given the plurality of foci and approaches, instructors may choose to address any number of the common topics associated with the evolution of religions in the modern world. Examples include: religion and science -- from cosmology (Gallio, Newton, to black holes) to the origins and evolution of the human species (Darwin), or religion and society, or religion and the modern state, or religion and industrial society, or religion in a modern world of pluralism and multicultural societies as well as the religious reactions against science, modern multicultural societies, the modern state and the changing legal status of women, minorities, and children, and the rise of fundamentalism.
Prerequisite: Graduate studies.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Women's Studies (WMST)

WMST 20101 INTRODUCTION TO WOMEN'S STUDIES: TRADITIONS, TRAJECTORIES, TROUBLES 3 Credit Hours
The course introduces students to Women's Studies - what it studies, how it came into being, what happened next. In focus are its traditions, its consequential contexts of struggle and protest, its pioneers, the multiple fields from which they came to this fresh-born academic hub. The course examines worldwide spread of WMST programs, their variant, evolving interests and work, the hounding, keenly felt disruptions and conflicts. We sample key scholarship with staying power; we peruse pieces across an interdisciplinary range; we visit early ideas now fallen out of favor, relegated to archives and/or bins. We also, importantly, consider how rifts and various troubles led to crucial metamorphoses as well as new fields.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30001 ARENAS FOR FEMINIST THOUGHT: TOUCHY SUBJECTS, UNSETTLED MATTERS AND FEMINIST RESPONSE-ABILITY 3 Credit Hours
A multi-layered inquiry into the substantial discursive project initially undertaken by feminists to break the hold of dominant theory and begin to articulate theory from new standpoints expressed in new language. This course opens an arena within which to study real engagements of thinkers, theorists, their thoughts, theories, arguments, critical appraisals, etc. as they have emerged, developed and contended. The course coheres in a sense of feminist thinkers as profoundly responsive to their contexts, situated in times, places and atmospheres powerfully infused with settled and unsettled meanings.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30002 FEMINIST RESEARCH METHODS 3 Credit Hours
Explores different qualitative and quantitative methodologies through applied research on WMST-related topics as well as on topics informed by feminist standpoints and thought/theory. Provides sturdy foundation for undergraduate students whose aims include undergraduate research, graduate school, and/or actual fieldwork.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30091 KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD) 3 Credit Hours
(Repeatable for credit) A critical investigation of the position and category of women from a cross-cultural, historical and interdisciplinary perspective, with special emphasis on major themes and issues in women's studies. Issues including race, ethnicity and sexuality may also be addressed.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

WMST 30095 SPECIAL TOPICS IN WOMEN'S STUDIES 1-4 Credit Hours
(Repeatable for credit) Study of selected topics in women's studies organized around historical and theoretical issues and movements. This includes contemporary feminist theory, suffragist movement and third wave feminism.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

WMST 30100 HISTORY OF WOMEN IN THE UNITED STATES 3 Credit Hours
(Cross-listed with HIST 31075) An exploration of the political, economic, social, intellectual and cultural forces that have shaped women's lives, women's thought, perceptions of womanhood and feminism, from 1607 to the present in what is now the United States.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30196 WOMEN STUDIES INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) The design and completion of a scholarly research project related to women's studies, and the presentation of findings at the end of the term. Arrangements must be made in the semester prior to registration.
Prerequisite: Special approval by instructor.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

WMST 30201 WITCHES: THE MONSTROUS FEMININE 3 Credit Hours
This course counterbalances student inquiry with lectures and materials at once grounded in women's and gender/sexuality studies and reliant on a range of interdisciplinary sources. The course centers two key touchstones: witch and monstrous feminine. Course trajectories traverse history, culture, religion, politics and academic and popular renderings to locate keys: hunts, trials, dynamics of allegation, guilt and innocence. The course aims to 'correct' traditions of objectification and typecasting by interrogating real subjectivities and the dimensionality of feminine, monstrous and witch.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30202 FEMINIST HUMOR: DISARMING LAUGHTER, DISRUPTIVE DISCOURSE 3 Credit Hours
This course utilizes four key terms to set its directions of inquiry: humor, laughter, discourse and feminist. The most fundamental pursuits are inductive in nature, grounding studies in actual discursive practice, the realities of women's politically-charged and personally-resonant humor, laughter and feminisms as they converge in contexts both private and public, mediated and live/face-to-face. Scholarship on feminist humor provides our final framing.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30301 REPRESENTATIONS OF WOMEN AND FEMINISM IN POPULAR CULTURE 3 Credit Hours
The basic challenge of this course is that it requires the study of two things simultaneously: 'women' and 'women as represented' in popular culture. From the classic object of woman sexed and gendered, feminist study has evolved to also consider woman the subject, the autonomous person with agency within her environment. The course covers much ground: dominant narratives; the often-overlapping contexts of media, politics, morality and religion; the signs inherent in language and imagery; and the power asymmetry and embattled definitions of “woman.” Throughout the course, we employ varied approaches that resist any one right answer, easy dogmatic conclusion or evaluation of the narratives.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30302 GLOBAL FEMINISMS: A WORLD AND CENTURY OF WOMEN'S ACTIVISM 3 Credit Hours
This course explores real and diverse circumstances where feminisms have emerged. Over the semester, we examine feminist movements and their respective contexts; feminists’ distinct directions of thought and action; individuals, groups and organizations that have participated in defining feminism; and finally, the connectivity that makes transnational feminist work possible. The course is grounded in sites of 'agonizing and organizing,' as well as in those feminist narratives that search for cohesion even where there is tension. Finally, throughout the course, we embrace and explore complexities of unresolved issues: none more basic than the still controversial claim that women's rights are human rights.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 32323 RAPE CULTURE: RETHINKING DANGER, POWER, SEX AND FEMINIST FRAMINGS 3 Credit Hours
Nothing is simple, incontrovertible or 'cool' in 'rape culture.' The subject, act and discourse surrounding rape is embedded in culture and confounded by culture: by opinions, standpoints, simplistic arguments and personal and political interests. Feminist framings of 'rape culture' invite different inquiry: into mythology, ideology, theory and alternative interpretations of bodies in a given context. Famed feminist Andrea Dworkin interrogates rape culture's center: powers practically guaranteed, moreover "exercised… [and] protected… by religion … by universities … [even] by [poets and artists], the unacknowledged legislators of the world." This course utilizes multiple approaches to study and interrogate 'rape culture,' each of which illuminates this inherently dark subject in new light.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 40992 PRACTICUM IN WOMEN'S STUDIES (ELR) 3 Credit Hours
(Repeatable for credit) An assignment at a private, public or nonprofit organization that centers on women’s issues such as education health and policy making. Arrangements must be made in the semester prior to registration.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

WMST 41199 CAPSTONE IN WOMEN'S STUDIES (ELR) 3 Credit Hours
The capstone project is a guided undertaking that serves as culmination of students' experiences. The emphasis is 'putting it all together,' integrating the Women's Studies minor into 'the bigger picture': major(s), other concentrations, research, envisioned graduate study and/or vocation. WMST Capstone can be taken junior or senior year, contrived/structured by students in consultation with faculty advisor(s), ideally advisors from major and minor. Net outcome may be paper--senior thesis for students who desire such--presentation, curated portfolio of prior academic work.
Prerequisite: Junior Standing.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

WMST 44321 PIVOTAL PRAXIS: EXPERIMENTS IN ACTIONABLE FEMINISM 3 Credit Hours
This course engages students at the pumping heart of the whole feminist story: its actual work. For feminists on the ground, pivotal praxis is feminism: getting the vote, demanding equality, wrangling through contentious issues, women's marches and campaigns. In a word: practice. Experiments in practical, actional feminism. Our study probes ideas that hit streets as well as ideas born of "done things." Under scrutiny are scenes: socio-political, cultural spaces wherein women enact change, determine outcomes recognized as feminist. These include but are not limited to the realpolitik of suffrage vs. anti-suffrage, consciousness-raising, the famed national women's convention in Houston, internet activism, transversal coalition-building across boundaries/borders. The course provides opportunity for students' own experiments and exercises in feminist praxis.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

School of Peace and Conflict Studies

Peace and Conflict Studies (PACS)

PACS 11001 INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS) 3 Credit Hours
Introduces key elements of conflict management theory and peacebuilding practice such as conflict styles, active listening, assertion, collaborative problem solving, principled negotiation, mediation and nonviolent conflict intervention. These are essential "life skills" useful in personal, social and professional contexts. Includes conflict communication skills development and practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences

PACS 30000 MAY 4 1970 AND ITS AFTERMATH 3 Credit Hours
(Cross-listed with POL 30000) Study of the events of the 1960s in the US leading up to May 4, 1970 when the Ohio National Guard killed and wounded KSU students protesting the US war in Vietnam and Cambodia. Topics are considered within their cultural, historical, social and political contexts. Also examines the aftermath of May 4th, including the controversy over constructing the Gym Annex on the May 4th site, the legal trials, the role of commemorations and memorials and the politics of remembering May 4, 1970.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 31002 GENDER, POWER AND CONFLICT 3 Credit Hours
Examines gender roles and power imbalances in interpersonal relationships, group settings, and on the structural level and the various manifestations of violence that may result, considering some of the ways in which these imbalances are developed, maintained and constructively addressed and potentially redressed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 31003 NONVIOLENCE: THEORY AND PRACTICE 3 Credit Hours
Social conflicts can be intensified and waged in a constructive manner through nonviolent action. Examines how nonviolent action methods bring about social and political change. Explores the theory and philosophy underlying strategies of nonviolent action. Utilizes a wide variety of historical and contemporary case examples of nonviolent struggles from across the globe.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 31010 CONFLICT THEORY 3 Credit Hours
Explores the theoretical foundations of conflict and conflict management to provide a greater understanding of the nature, sources and dynamics of various types of conflict, the special challenges faced in addressing those conflicts, and the theory underlying various approaches to conflict management and resolution.
Prerequisite: PACS 11001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 32020 STRATEGIC PLANNING 3 Credit Hours
Provides training in the principles and tactics of strategic planning for individuals, organizations, agencies and institutions. Students learn to apply the principles of conflict management to strategic planning, including assessing the current environment, developing goals and objectives and establishing a timeline for acting on a strategic plan.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 32030 INTERNATIONAL CONFLICT RESOLUTION (DIVG) 3 Credit Hours
Examines causes, expressions and consequences of international conflicts, exploring mechanisms of their prevention, management and resolution. Includes the appearance and development of these conflicts and early warning, negotiation, and peacekeeping and peacebuilding. Covers international and civil wars and topics such as international terrorism.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

PACS 32040 CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG) 3 Credit Hours
Examines cultural components of conflicts in diverse, multi-cultural settings with special emphases on the nature and sources of cross-cultural conflicts, conflict escalation and de-escalation, and the roles of power disparities. Students examine their own cultural assumptions in order to better understand the multiple effects that cultural dynamics have in conflicts. Case analyses will include conflict resolution techniques respectful of the cultural values of the parties in conflict.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

PACS 33030 CONFLICT IN THE WORKPLACE 3 Credit Hours
Explores the causes, impact and dynamics of conflict in the workplace. Issues explored include personality conflict, incivility, ethics, teams, management style, diversity, legal issues, alternative dispute resolution, union environments and workplace violence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 34010 CAREER PATHWAYS IN PEACE AND CONFLICT STUDIES 3 Credit Hours
So what does one do with a major or minor in peace and conflict studies? How does one find a job or internship in the field? This course encourages students to explore and critically examine how the skills and knowledge learned in Peace and Conflict Studies courses can be utilized and applied in real-world settings. Students will interact with alumni and professionals working in a variety of careers that utilize conflict management and related skills. They will learn how to do professional networking, create a career plan, develop job search strategies, and learn how to market their skills and knowledge. Students will complete the course with a career plan, a detailed identification and exploration of options, or another career-related project.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 35050 ENVIRONMENTAL CONFLICT RESOLUTION 3 Credit Hours
(Cross-listed with POL 30350) Examines environmental conflicts, such as land use disputes and resource conflicts, and conflict resolution theory and processes applicable to environmental disputes, especially biodiversity conservation and natural resource conflicts. Students learn about environmental conflict analysis, multistakeholder environmental dispute resolution, dialogue processes, conflict-sensitivity, and environmental cooperation among others. Case studies of environmental conflicts and participatory simulations are used.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 35092 INTERNSHIP IN PEACE AND CONFLICT STUDIES (ELR) 1-9 Credit Hours
(Repeatable for credit) Students work as interns with an organization, group or business, utilizing and enhancing their skills in conflict management and applied peace studies. Three hours of internship are required for the Peace and Conflict Studies major, and an elective for the Negotiation, Mediation and Conflict Management minor.
Prerequisite: Two Peace and Conflict Studies (PACS) upper-division (30000- or 40000-level) courses; and junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PACS 35095 SPECIAL TOPICS IN PEACE AND CONFLICT STUDIES 3 Credit Hours
(Repeatable for credit) Designed to provide an in-depth examination of topics and issues of interest to faculty and students. Specific topics are announced in the Schedule of Classes and on the School of Peace and Conflict Studies web site.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 36096 INDIVIDUAL INVESTIGATION IN PEACE AND CONFLICT STUDIES 3 Credit Hours
(Repeatable for credit) Individualized program of study and literature review in area of particular interest to the student.
Prerequisite: Two upper-division PACS courses; and junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

PACS 40089 INTERNATIONAL EXPERIENCE: PEACE AND CONFLICT STUDIES (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) (Slashed with PACS 50089) A Kent State faculty-led study abroad experience in peace and conflict studies that provides students with learning through experiential activities and site visits outside the United States.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

PACS 40090 STUDY AWAY: PEACE AND CONFLICT STUDIES (ELR) 1-4 Credit Hours
(Repeatable for credit) (Slashed with PACS 50090) A Kent State faculty-led study away experience in peace and conflict studies that provides students with learning experiences within the United States outside of Kent State University.
Prerequisite: None.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PACS 41010 RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC) 3 Credit Hours
"Transitional justice" refers to civil and political processes used to move from violence and tyranny to peace and democracy. War crimes tribunals, truth and reconciliation commissions, apologies, forgiveness, reparations and memorials are examined.
Prerequisite: One Peace and Conflict Studies (PACS) upper-division (30000 or 40000 level) course; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Writing Intensive Course

PACS 44040 NEGOTIATION 3 Credit Hours
(Slashed with PACS 54040) Effective negotiation skills are essential for success in both our professional and personal lives. This course explores in an engaging and interactive way negotiation theories, strategies and techniques. Students will enhance their negotiation skills by learning to plan for an effective negotiation, to elicit information effectively, to build relationships, to improve their communication and persuasive abilities and to deal with a variety of situations and circumstances. There will be several opportunities to practice negotiation skills in class, to experiment with different approaches, and to develop the skills and confidence to be able to negotiate effectively and constructively.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 45050 COMMUNITY ORGANIZING: PEOPLE, POWER AND PEACEFUL CHANGE 3 Credit Hours
Mobilizing communities for positive and peaceful social change requires thoughtful leaders equipped with the skills to organize people and power. Organizing can make a difference in addressing major public challenges that demand full engagement of community, especially those whose voices are not heard unless they organize. Leadership is accepting responsibility to enable others to achieve shared purpose in the face of uncertainty. Organizing is a way to lead by identifying, recruiting and developing more leaders; building community around that leadership; and building power from the resources of that community.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 45060 ENVIRONMENTAL JUSTICE 3 Credit Hours
(Slashed with PACS 55060) This course traces the linking of environment and social justice movements, initially in the U.S. and then internationally, to cover a range of issues that now fall under the banner of environmental justice. It includes theories of justice and environmental protection; issues and critiques of social injustices in environmental movements, including NIMBY ("not in my backyard"), climate justice and mainstream conservation; and case studies demonstrating the need and means to promote just conservation and sustainable development in a politically and economically divided world. Students learn collaborative, non-violent, decolonial approaches to environmental justice action, dialogues and policymaking.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 45093 VARIABLE TOPIC WORKSHOP IN PEACE AND CONFLICT STUDIES 1-6 Credit Hours
(Repeatable for credit) Variable topic offered as need arises. Specific topics will be announced in the Schedule of Classes and on the School of Peace and Conflict Studies website.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PACS 48080 MEDIATION: THEORY AND TRAINING 3 Credit Hours
(Slashed with PACS 58080) Provides training in mediation skills, principles and methods in an interactive way. Students examine the historical development of mediation and the uses of mediation in various contexts including family, business, labor-management, civil, community, and workplace disputes.
Prerequisite: PACS 11001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 49091 VARIABLE CONTENT SEMINAR IN PEACE AND CONFLICT STUDIES 1-3 Credit Hours
(Slashed with PACS 59091) (Repeatable for maximum of 3 credit hours) Seminar devoted to detailed study of various topics in the field of peace and conflict studies. Specific topics are announced in schedule of classes and on the School of Peace and Conflict Studies website.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PACS 50089 INTERNATIONAL EXPERIENCE: PEACE AND CONFLICT STUDIES 1-4 Credit Hours
(Repeatable for credit) (Slashed with PACS 40089) A Kent State faculty-led study abroad experience in peace and conflict studies that provides students with learning through experiential activities and site visits outside the United States.
Prerequisite: Graduate standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter

PACS 50090 STUDY AWAY: PEACE AND CONFLICT STUDIES 1-4 Credit Hours
(Repeatable for credit) (Slashed with PACS 40090) A Kent State faculty-led study away experience in peace and conflict studies that provides students with learning experiences within the United States outside of Kent State University.
Prerequisite: Graduate standing.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter

PACS 54040 NEGOTIATION 3 Credit Hours
(Slashed with PACS 44040) Effective negotiation skills are essential for success in both our professional and personal lives. This course explores in an engaging and interactive way negotiation theories, strategies and techniques. Students will enhance their negotiation skills by learning to plan for an effective negotiation, to elicit information effectively, to build relationships, to improve their communication and persuasive abilities and to deal with a variety of situations and circumstances. There will be several opportunities to practice negotiation skills in class, to experiment with different approaches, and to develop the skills and confidence to be able to negotiate effectively and constructively.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 55060 ENVIRONMENTAL JUSTICE 3 Credit Hours
(Slashed with PACS 45060) This course traces the linking of environment and social justice movements, initially in the U.S. and then internationally, to cover a range of issues that now fall under the banner of environmental justice. It includes theories of justice and environmental protection; issues and critiques of social injustices in environmental movements, including NIMBY ("not in my backyard"), climate justice and mainstream conservation; and case studies demonstrating the need and means to promote just conservation and sustainable development in a politically and economically divided world. Students learn collaborative, non-violent, decolonial approaches to environmental justice action, dialogues and policymaking.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 58080 MEDIATION: THEORY AND TRAINING 3 Credit Hours
(Slashed with PACS 48080) Provides training in mediation skills, principles and methods through cooperative, participatory, interactive, skills-building pedagogies. Students examine the historical development of mediation and the uses of mediation in various contexts including family, business, labor-management, civil, community, and workplace disputes.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 59091 VARIABLE CONTENT SEMINAR IN PEACE AND CONFLICT STUDIES 1-3 Credit Hours
(Slashed with PACS 49091) (Repeatable for maximum of 3 credit hours) Seminar devoted to detailed study of various topics in the field of peace and conflict studies. Specific topics are announced in schedule of classes and on the School of Peace and Conflict Studies website.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PACS 60000 FOUNDATIONS OF CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Cross-listed with POL 60901)(Slashed with POL 70901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60001 ADVANCED NEGOTIATION 3 Credit Hours
Conflict and negotiation are normal and unavoidable parts of life. This course goes beyond basic negation concepts like principled negotiation, focusing on topics including the psychology of negotiation, power, international relations, technology and other advanced topics. We cover issues of information asymmetry; power; ethics; and multi-party, iterative and collaborative negotiations. We use research in negotiation and research on prior case studies to illustrate topics. This course is highly interactive, focusing on experiential learning and education. Evaluation of performance includes experiential exams, reflection papers and written understanding and analysis of real-world negotiations. Simulations and games are used in class frequently to illustrate concepts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60002 ADVANCED MEDIATION 3 Credit Hours
This course provides students with a conceptual understanding of mediation as well as practical mediation skills. It enables them to work as intermediaries who can assist conflict parties to reflect on the sources and dynamics of their conflict; develop mutually acceptable solutions and foster constructive, sustainable relationships. The course starts with essential concepts and skills for mediating small-scale interpersonal conflicts. It then addresses more complex inter-group, multiparty conflicts as well as deep-rooted structural conflicts. Through class discussions on readings and simulation exercises, students tackle questions such as how to work on conflicts in which there are many competing issues, goals and priorities involved; how to mediate enduring, intractable conflicts over identity, value and social structure; and how to respond to serious ethical dilemmas and power asymmetry. To meet these challenges, students not only critique the popularized framework of interest-based principled negotiation/mediation, but also develop holistic, creative third-party contributions to systemic social change.
Prerequisite: PACS 60000; and PACS 60001; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60003 COMMUNITY-BASED CONFLICT TRANSFORMATION 3 Credit Hours

This course is designed to expand your knowledge of and practice competency in group and community level dynamics and peacebuilding techniques, giving you the skills and knowledge to turn divisive situations into strengthened and connected communities. The course begins by introducing theories of group processes, engagement and peace building. It then focuses on using case studies and experiential learning to master the skills and understand the applications of group and community peace building techniques. Case studies range across the areas of education, democracy, leadership, restorative justice, community conflict resolution and institutional change. Examples of topics include: theories of group process, engagement, participation, efficacy, dynamics and contact; community conflict resolution process such as inter-group dialogue and race dialogue; institutional change and strategic planning including evaluation and intervention for institutions, facilitation, stakeholder identification, planning, best practices and consensus decision making, ground rules, fishbowls and debriefs; and democracy and restorative justice practices including deliberative democracy, circle process and alternatives to violence project (AVP). The final course project involves students in applying these skills in partnership with a local community organization, group or neighborhood to address a community need or conflict. This class is taught in a flipped format.
Prerequisite: Graduate standing.
Corequisite: PACS 60000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60004 ORGANIZATIONAL CONFLICT AND COOPERATION 3 Credit Hours

This course examines organizational conflict, cooperation and partnership. Whether volunteering with a community-based organization, managing a team in a highly bureaucratized institution, joining a student group or organizing a coalition, navigating organizational dynamics (culture) and building and managing collaborations and partnerships are challenging tasks that require understanding differences, coping with power relations and transforming conflicts. In this class, we explore types of organizational interactions, nature and source of organizational conflict, organizational culture and collaboration, power dynamics, decision making and problem solving in organizations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60005 PEACE, CONFLICT AND DEVELOPMENT: LOCAL-GLOBAL DYNAMICS 3 Credit Hours

This course explores the relationships between peace, conflict and development. It covers key concepts, theories and approaches to understanding and addressing the nexus between peace, conflict and development. Students critically review relevant theoretical and policy literature and apply them to real-world case studies as part of participatory skill-building exercises. The course starts with an overview of essential development theories, models and actors in development practice. It examines relevant scholarly and policy debates on conflict-development links; the political economy of conflict and (uneven) development; relevant security issues (e.g., small arms proliferation, disarmament, demobilization and reintegration (DDR), security sector reform (SSR)); the relationships between natural resources, livelihoods and conflict; the roles of gender and youth in conflict and development; measures of effective development in conflict-affected societies; and development alternatives, as well as emerging critical debates on alternatives to development.
Prerequisite: Graduate standing.
Corequisite: PACS 60000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60006 POST-CONFLICT PEACEBUILDING 3 Credit Hours

Throughout the course of the past decade, peacebuilding has become the concept du jour of not only the field of conflict resolution and peace studies, but of the larger fields of international relations, development studies, transitional justice and a host of other subfields and portions of area studies. This is partly due to the fact that peacebuilding has become somewhat of a monster, enveloping and consuming different approaches to conflict resolution, international relations and development studies to the point that almost any activity addressing those involved or suffering from conflicts can be included under its umbrella. However, given that the concept was originally coined to help address the tasks necessary to implement peace, this class largely, though not wholly, focuses on post-conflict peacebuilding and how different actors at different levels have roles to play in achieving sustainable peace in communities and regions and within states. We examine the concepts that make up peacebuilding, the manners in which peacebuilding efforts have been implemented by actors at multiple levels and the problems associated with dominant approaches to the topic.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60007 PRAXIS IN CONFLICT-SENSITIVE DEVELOPMENT 3 Credit Hours
This course enables students to build the practical skills necessary to advance socially responsible and sustainable development across conflict-affected societies and regions. A key concept explored throughout the course is conflict sensitivity - a sustained, iterative process of analyzing social conflict as a context of development work; understanding the interactions between the context and the development intervention; and making use of the understanding to maximize positive program impacts and minimize negative impacts. Students apply a range of theories to skill-building exercises in order to learn how to practice conflict-sensitive development. Through these experiential exercises, students think through the entirety of the development program cycle - from needs assessment to proposal development, fundraising, program implementation, capacity building, report writing, monitoring and evaluation and project phase-out. In each of these steps, students examine how to practice cultural sensitivity, stakeholder inclusion, local ownership and sustainability in a context-specific, adaptive manner. Case studies highlight essential themes selected from the Sustainable Development Goals (SDGs), a United Nations-sponsored list of 17 development goals such as poverty alleviation, food security, health, education, gender equity and climate change action. The course also opens dialogue on how to go beyond the conventional framework of conflict-sensitivity to realize conflict-transformative development.
Prerequisite: PACS 60000; and graduate standing.
Pre/corequisite: PACS 60005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60009 LEADERSHIP FOR PEACEFUL CHANGE 3 Credit Hours
This course introduces a series of group discussions and experiential learning exercises designed to enable students to critically reflect on the lessons from their preceding coursework, gain additional practitioner skills and prepare for a career in the field. The experiential learning exercises include a multi-stakeholder simulation in which student teams make use of their skills to examine and address the complexity of real-world challenges. The themes explored throughout the seminar are: (1) collaborative, inclusive and ethical leadership capable of empowering people and groups to realize peaceful social change, (2) crisis management of unexpected events and security challenges, (3) integrative thinking to draw upon diverse theories, methods and skills, (4) the ability to develop theory-informed practices and advance theories derived from practical experiences to demonstrate adaptive leadership, and (5) illustrative examples of, perspectives on and planning for career development, life-work balance and self-care, all of which are essential for building successful careers in the field.
Prerequisite: PACS 60000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60020 IDENTITY DRIVEN CONFLICTS 3 Credit Hours
(Cross-listed with POL 60903)(Slashed with POL 70903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.
Prerequisite: Graduate standing.
Pre/corequisite: PACS 60000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60021 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours
(Cross-listed with POL 60902)(Slashed with POL 70902) Examines power disparities and gender as sources of conflict in multiple arenas —including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphases is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60022 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours
(Cross-listed with POL 60904)(Slashed with POL 70904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60023 PEACE PSYCHOLOGY 3 Credit Hours
This course provides students with an introduction to the concepts of peace psychology and how these concepts relate to wider themes in the peace and conflict studies field, including positive and negative peace, conflict resolution and reconciliation. During the course, students investigate the micro-level psychological foundations for peace and conflict (e.g., power and emotions) and group and national level dynamics. In each class, a variety of psychological approaches, from neuroscience to political psychology, are discussed. This course is highly interactive, focusing on experiential learning and education. This means students should be prepared to participate in discussions, simulations and presentations. Collaborative work and case studies help students develop their ability to apply and assess peace psychology theories. Students also have opportunities to personalize the course content and assignments to support their learning and research interests.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60024 VISUAL METHODS FOR PEACE AND CHANGE 3 Credit Hours
Visual methods are critically important in making and understanding democratic peaceful change. This course explores three intersecting bodies of knowledge: methods and practices in visual studies, global approaches to film as a means of social change, and theories and approaches to peace and conflict studies. A focus is on interdisciplinary scholarly methods for understanding visual materials.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60040 FACILITATION AND TRAINING: DESIGN AND PRACTICE 3 Credit Hours
This course is designed to teach fundamental practices of peace building in group settings. This includes learning how to facilitate meetings; set agendas; de-escalate and facilitate group level conversations; run trainings in conflict management and build other practical, hands-on skills. All skills in this course are transferrable across a variety of careers and situations. This course incorporates experiential learning both inside and outside the classroom, with students taking the lead in facilitating class discussions and joining in community projects.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60041 PEACE EDUCATION 3 Credit Hours
This class explores the interdisciplinary concepts, theories and practices that provide a global overview of peace education. The course offers an overview of the history, scholarship and practices of peace education, addressing a variety of international structures, organizations and individuals engaged in its practice. A range of concerns are investigated, including war; genocide; climate change; economic disparities and the marginalization of minorities based upon race, ethnicity, gender, sexual orientation, gender identity, religious affiliation, culture and other categories of difference. Theories of positive peace, conflict resolution, restorative justice, liberation pedagogy and experiential education are also introduced.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60042 PUBLIC SECTOR CONFLICT TRANSFORMATION 3 Credit Hours
This course examines the many ways that conflict and decision-making are made in the public sector. Some methods of public interaction and decision-making are familiar and well-studied. Others are less so, despite their increasing use in a variety of policy domains and other circumstances. Such is the case with conflict resolution, which is now broadly used across the United States and internationally on multiple levels and by multiple groups with differing aims. This course explores the varied applications in public policy of conflict resolution principles, including negotiated rule making, public sector dispute resolution, mediation, collaborative problem solving, democratic governance, community-based planning and consensus building.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60070 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours
(Cross-listed with POL 60507)(Slashed with POL 70507) Throughout the past 30 years, many states and societies have negotiated complicated transitions from authoritarianism, widespread human rights violations and intractable civil conflict toward various degrees of justice, truth-telling, reconciliation and democracy. Some have done it well and some have not; policy certainly matters in this politically potent arena. For example, political memory and accountability may be swept under the public rug—doing so may, or may not, trip up an experiment in democracy. Alternatively, truth-telling and justice may, or may not, be a springboard for reconciliation, healing and citizen empowerment. In this course, we focus on the policies and mechanisms used to constructively confront impunity and come to terms with past horrors. We analyze various international institutions like war crimes tribunals and truth commissions and various local mechanisms like Rwanda's Gacaca courts. We also study the differing roles of reparations paid to victims for past injustices, amnesties granted to former government officials, immunity being traded for truth-telling about the past and the impacts of commemoration and memorialization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60071 SOCIETY TECHNOLOGY AND SECURITY 3 Credit Hours
This course engages with current debates on the relationship between society, technology, peace and security, focusing particularly on military and dual-use technologies. The course begins by analyzing the literature on how technology shapes societies and how societies shape technology. This includes consideration of the way societies influence the emergence and application of particular technologies and the way understandings of military technological categories (e.g., pariah weapons, precision weapons) have been socially constructed. The module then examines how states and societies have responded to the policy and governance challenges presented by the development and trade in established weapons categories. This includes analysis of the history of disarmament initiatives, movements and agreements as well as the new field of 'humanitarian disarmament'. It also includes examination of recent initiatives aimed at limiting weapons proliferation and armed violence in conflict-ridden societies. The remainder of the course is devoted to exploring the legal, normative and policy debates over the use of modern and emerging technologies. This includes examination of the governance implications of new developments in fields such as biotechnology, nanotechnology, cyber-warfare and drones.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60072 ENVIRONMENTAL CHANGE AND CONFLICT 3 Credit Hours
This course examines the varied theoretical and policy challenges involved in addressing the intersection between changes in the environment; the governance and sustainability of natural resources and ecosystems; and the prevention, management and resolution of conflict. It traces the history and development of environmental security and environmental peacebuilding, building a solid foundation in key theories, terminology and concepts, such as the relationship between natural resources and conflict (including scarcity vs. abundance, access and governance); the redefinition of security and securitization of the environment; slow- vs. sudden-onset climate change and displacement; and environmental cooperation in peacekeeping, peacemaking, peacebuilding and contemporary conflict resolution. Students have a working knowledge of important international laws and policies governing the protection of the environment in relation to armed conflict and engage in critical discussions at the intersection of conflict issues and trends in environmental change, such as green militarization and small arms proliferation, environmental crimes and surveillance, fortress conservation and conservation conflicts, the role of gender and youth, human rights and environmental defenders, climate justice and conflict-sensitive climate adaptation. Students apply the knowledge and skills developed in the course to the development of environmental security assessments, peace and conflict impact assessments and foresight analyses.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60099 INTERVENTION DESIGN AND IMPLEMENTATION IN PEACE AND CONFLICT STUDIES 6 Credit Hours
This course provides students with an experiential opportunity to integrate theoretical and classroom work with conflict analysis and intervention work in a variety of real-world projects. Each session provides students the opportunity to work on a project where they will engage in intervention design, planning and research and practice implementation activities under faculty guidance.
Prerequisite: PACS 60000 and POL 60010; and graduate standing.
Corequisite: PACS 60009.
Schedule Type: Project or Capstone
Contact Hours: 6 other
Grade Mode: Standard Letter

PACS 60192 INTERNSHIP IN PEACE AND CONFLICT STUDIES 3-6 Credit Hours
(Repeatable for credit) Students work as interns with an organization, group or business, utilizing and enhancing their skills in applied peace studies. The student also typically provides a journal of the experience, as well as a written analysis comparing the practice of the internship to an example of recent scholarship in the field.
Prerequisite: PACS 60000 and PACS 60001; and graduate standing; and special approval.
Corequisite: PACS 60009.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Standard Letter-IP

PACS 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 credit hours, 2 to 6 in a single semester, distributed over several semesters if desired.
Prerequisite: Graduate standing.
Pre/corequisite: PACS 60001 and POL 60010.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PACS 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis II students must continue registration each semester until all degree requirements are met.
Prerequisite: PACS 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Department of Africana Studies

College of Arts and Sciences
Department of Africana Studies
Oscar Ritchie Hall
Kent Campus
330-672-2300
dpas@kent.edu
https://www.kent.edu/afs

Undergraduate Programs

- Africana Studies - B.A.

Undergraduate Minors

- Africana Studies - Minor
- African Studies - Minor

Graduate Minors

- Race, Gender and Social Justice - Graduate Minor

Department of Africana Studies Faculty

- Crawford, Charmaine M. (2019), Associate Professor, Ph.D., York University, 2010
- Gooden, Amoaba (2005), Professor, Ph.D., Temple University, 2005
- Kumah-Abiwu, Felix (2015), Associate Professor
- Okantah, Mwatabu S. (1991), Professor, B.A., Kent State University, 1976
- Piccirillo-Smith, Linda A. (1983), Senior Lecturer, M.A., Kent State University, 1980
- Sunni-Ali, Asantewa (2016), Associate Professor
- Syed, Idris K. (1991), Professor, M.Ed., Kent State University, 2001

Africana Studies (AFS)

AFS 15200 INTRODUCTION TO WEST AFRICAN CULTURES 3 Credit Hours
Students will study the history, culture, geography, ecology, and historical specifics of the region of West Africa from the 9th to the 19th centuries.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 20001 INTRODUCTION TO AFRICANA STUDIES 3 Credit Hours
This course uses an interdisciplinary approach to introduce students to the discipline and field of Africana Studies. Using primary source materials from literature, film and various art forms, students will be exposed to concepts, critical issues, events and major thinkers that have shaped the global Black world. Emphasis will be placed on the relationship between Peoples of African descent, Latin and Indigenous Peoples. Selected course materials represent the ways in which Peoples of African descent have demonstrated resiliency, activism and agency.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 20101 KISWAHILI III 3 Credit Hours
Continuation of Kiswahili II, aimed at developing knowledge competence and recognition of Kiswahili usage in all forms of Kiswahili literature.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 20102 KISWAHILI IV 3 Credit Hours
Continuation of Kiswahili III, aimed at developing knowledge, competence and recognition of Kiswahili usage in all forms of Kiswahili literature.
Prerequisite: AFS 20101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 20300 BLACK IMAGES 3 Credit Hours
Examines the historical origins and representations of racial images and anti-black perceptions through newspapers, magazines, songs, plays, literature, textbooks, radio, television, films, comic books, etc. and the role of these images in American culture past and present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 22000 CREATIVE WRITING IN THE BLACK WORLD 3 Credit Hours
Explores the major aesthetic and cultural issues that have historically shaped creative writing in the Black world since the beginning of the African Griot tradition. Students will investigate the African-American tradition in literature as an organic part of the larger Africana world. Students are expected to write, perform, critique and produce original works in the modes and performance styles of the global African world.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 22101 AFRICAN AMERICAN VISUAL ARTISTS 3 Credit Hours
The course is an Afrocentric survey of visual and aural artistry. The course also examines context and perspectives, mediums of expression, form, style, content and patronage of African American artists from 1800.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 22200 INTRODUCTION TO THE AFRICAN ARTS 3 Credit Hours
This course investigates the function of creative forms of artistic expression particular to experiences of the Africana community at home and abroad.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 23001 BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM) 3 Credit Hours
This course examines the African experience prior to and following the arrival of Africans in the New World. It explores the contributions of Africans in the areas of state formation, arts/architectural designs, scientific explorations, religion and other great human achievements. Discussion will also focus on major historical events such as the Trans-Saharan trade, Trans-Atlantic Slave trade, Middle Passage, and Slavery in America. The experiences of people of African descent in North and South America as well as the Caribbean will be examined.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities

AFS 23002 BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM) 3 Credit Hours
This course covers the Black Experience from 1865 to the present, including events, ideas and persons in Africa, North and South America, and the Caribbean. The course will also examine slavery in America, the struggles for freedom, the Civil War, Reconstruction and Jim Crow eras, Black politics, culture, and society. The contributions of African Americans to the American society will also be examined.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Humanities

AFS 23095 SPECIAL TOPICS IN PAN-AFRICAN LITERATURE AND COMMUNICATION SKILLS 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) Introduction to a current and specialized topic in Pan-African Literature and/or communication skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AFS 23310 NATIVE AMERICAN STUDIES 3 Credit Hours
Study and analysis of Native American history, sovereignty and civil rights. Ensures an understanding of self-determination in the context of colonization, decolonization and neocolonization, through the use of Native American literature, philosophy, politics and other cultural outlets. Being that we all live in a broader community, students also examine historical and contemporary relationships with the African American community and other ethnic communities in the US.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 24407 INTRODUCTION TO CARIBBEAN STUDIES (DIVG) 3 Credit Hours
This course examines the histories, social and political frameworks, cultural and religious traditions of Caribbean regions from the pre-colonial era to the present. The course focuses in particular on the experience of people of African descent in the Caribbean.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

AFS 26010 BLACK LIVES MATTER: THE CONTINUED STRUGGLE FOR BLACK LIBERATION 3 Credit Hours
This course examines the historical, cultural and sociopolitical development of the global #BlackLivesMatter movements. By linking the current movements for Black liberation to past and current resistance movements, this course explores the intersectional relationship between identity development and the anti-blackness of state sanctioned violence through strategies and tactics of various movements and individuals who represent the legacy of the Black Radical Tradition.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 30001 CULTURAL EXPRESSIONS I 3 Credit Hours
Exploration of African creative endeavors and cultures through traditionally integrated forms of music, dance and song. Some emphasis on the study of design, color and fashion merged with family, food and environment, as well as traditional African societies. The class strives to foster in the student, through song and dance and through plastic arts, an aesthetic appreciation of the traditional African society such as the Yoruba people, the Dan, Dogon, Bambura, Mandingo and Senufu and many more.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 30310 BLACK HOLLYWOOD 3 Credit Hours
Examines the complexities of race relations in the film industry and the need for “Hollywood” and Black filmmakers to create films for mainstream audiences with a multitude of themes from the African American experience in America and the Black experience around the world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 30311 HIP HOP: THE SOCIAL, POLITICAL AND ECONOMIC INFLUENCES 3 Credit Hours
Examines the social, political and economic influences of and on Hip-hop and analyzes the historical and current relationships between Hip-hop and mainstream America, including the role that corporate America has played. In-depth history of the culture and major pioneers and contributors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 32001 AFRICAN-AMERICAN LITERATURE TO 1900 3 Credit Hours
(Cross-listed with ENG 33010) Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Walker, Truth, Garnet, Douglass, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnutt and Dunbar.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 32002 MODERN AFRICAN-AMERICAN LITERATURE 3 Credit Hours
Study of African-American literature from the early twentieth century to the present. The authors include Toomer, Hughes, Larsen, Wright, Baldwin, Hansberry, Jones, Lorde, Walker, Morrison, Mosley, Youngblood and Carter.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 32050 AFRICAN LITERATURES (DIVG) 3 Credit Hours
(Cross-listed with ENG 33015) Examines works of major 20th-century African, African American and Caribbean writers and intellectuals. Authors include Niane, Achebe, Emecheta, Prince, Hurston, Hughes, Cesaire, Senghor, Soyinka and many others.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

AFS 33110 BLACK WOMEN, CULTURE AND SOCIETY: HISTORICAL PERSPECTIVES (DIVD) 3 Credit Hours
This course surveys the experiences of Black women throughout various periods of history, and their roles in shaping the social, economic, political and cultural development of their societies.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

AFS 33120 THE BLACK MAN: HISTORICAL PERSPECTIVES 3 Credit Hours
This course will investigate both the historical as well as the cultural evolution of the African man in America. We will consider the Black man's development within the larger context of the African experience in the United States. It will focus primary attention on the cultural, social, economic and political aspects of African community development and the impact of Black men on that development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 33130 GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA 3 Credit Hours
Using lectures, videos, discussions, readings and application this course explores ways in which gender and sexuality in Africa and the African Diaspora have and can be constructed, performed, articulated and researched. Attention is also paid to the existence of LGBTQ identities within the global black community.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 33171 AFRICAN-AMERICAN COMMUNITIES (DIVD) 3 Credit Hours
This course explores the challenges facing African-American communities through historical and contemporary perspectives. Issues such as geography, black/demography, public administration, health, transportation, socio-economic/finance as well as education, civil rights, crime/justice will be covered. The course will also explore contemporary social movement issues and implications on these communities.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

AFS 33310 AFRO-LATINX COMMUNITIES IN THE U.S. (DIVD) 3 Credit Hours
Introduction to the social, cultural, and political experiences of Afro-Latinx communities in the U.S. The communities include Afro-Mexican, Puerto Rican, Afro-Cuban, Dominican, Garifuna, etc.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

AFS 34000 INTRODUCTION TO AFRICAN WORLD VIEW (DIVG) 3 Credit Hours
This course will introduce students to the basic features of the Traditional African Worldview. We will identify and examine those concepts that all African peoples hold in common. It will provide a working context within which to discuss fundamental aspects of Traditional African identity and culture. In addition, we will consider the transformation of the African Worldview in the so-called New World.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

AFS 37000 ORAL AND WRITTEN DISCOURSES IN AFRICANA STUDIES (WIC) 3 Credit Hours
This course examines foundational text, speech and cultural expressions in the Africana World. Students will develop their writing skills and learn new techniques to improve their oral and written communication.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

AFS 37001 THEORETICAL APPROACHES TO AFRICANA STUDIES 3 Credit Hours
A critical analysis of the diverse approaches to the underlying principles of Africana Studies.This course aims to expose students to various theoretical perspectives and models that scholars use to explore and understand the Africana experience. The course has a multi-disciplinary and inter-disciplinary scope that allows for a thorough investigation of the political, socio-economic and cultural significance of the unity, self-determination and resistance forged by People of African Descent.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 37010 RESEARCH METHODS IN AFRICANA STUDIES (ELR) 3 Credit Hours
This course will expose students to the basic components on interdisciplinary research methods used in Africana Studies. Students will learn about research concepts, paradigms, models and perspectives in the design of African-centered research projects.
Prerequisite: AFS 37000 and AFS 37001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AFS 37020 THE MODEL AFRICAN UNION (ELR) 3 Credit Hours
Students examine role, structure and performance of the African Union in the search for solutions to key economic, social and political-security issues facing Africa. Students attend the annual meeting of the Model African Union Conference in Washington D.C., which is a simulation of proceedings of the African Union, augmented by briefings at African Embassies. Participants gain an understanding of the various determinants, capabilities and constraints shaping the domestic and foreign policies of African countries.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AFS 37100 AFRICANA WOMEN'S LITERATURE (DIVG) 3 Credit Hours
(Cross-listed with ENG 33013). This course introduces students to literary works by Africana women. The course will explore concerns and issues impacting Africana women including but not limited to the intersections of psychological, social, historical and political issues of race and gender.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

AFS 37150 SECRET AND MAROON SOCIETIES IN THE STRUGGLE AGAINST THE INSTITUTION OF SLAVERY 3 Credit Hours
This course examines secret and maroon societies including but not limited to the Underground Railroad, the Quilombos of Brazil, Black Seminoles of Florida, and other maroon communities in the Africana world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 37200 AFRICAN-AMERICAN WOMEN'S LITERATURE 3 Credit Hours
(Cross-listed with ENG 33014) Introduces students to literary works by African-American women.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 40001 CULTURAL EXPRESSIONS II 3 Credit Hours
This course continues Cultural Expressions I in greater depth and sophistication: Exploration of African creative endeavors and cultures through traditionally integrated forms of music, dance and song. Some emphasis on the study of design, color and fashion merged with family, food and environment, as well as traditional African societies. The class strives to foster in the student, through song and dance and through plastic arts, an esthetic appreciation of the traditional African society such as the Yoruba people, the Dan, Dogon, Bambara, Mandingo, Su Su, Senufu and many more.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 41192 PRACTICUM IN AFRICANA COMMUNITIES (ELR) 1-12 Credit Hours
(Repeatable for credit) This practicum provides students with hands-on experience in community service and engagement. In coordination with a selected faculty member, students will have the opportunity to work in government agencies, public and private schools, non-profit organizations, etc.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 3-36 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

AFS 43095 SPECIAL TOPICS IN PAN-AFRICAN LITERATURE, ARTS AND CULTURES 3 Credit Hours
(Repeatable for credit) Broadens upper division offerings in holistic study and performance in Pan-African literatures, arts and cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 43100 RACE, CLASS AND FEMINIST THOUGHT 3 Credit Hours
(Slashed with AFS 53100) Explores issues of race, class and gender through the lens of Black women and feminists of color. This course also examines how gender, race, and class intersect in the construction of identity, institutional formations and social movements in the African world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 43200 MALCOLM AND MARTIN 3 Credit Hours
A critical study of the major ideas and doctrines, including religious and theological beliefs, of Malcolm X and Martin L. King and their roles in American history.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 44095 SPECIAL TOPICS IN CONTEMPORARY AFRICA 3 Credit Hours
(Repeatable for a total of 12 credit hours when topic varies) Study of selected topics related to contemporary Africa.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 47095 SPECIAL TOPICS IN THEORETICAL AND APPLIED RESEARCH 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Selected topics in the intellectual, cultural, political and historical development of Pan-Africanism, its diverse theoretical approaches and multiple applications including the Organization of African Unity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 47099 SENIOR SEMINAR IN AFRICANA STUDIES (ELR) (WIC) 3 Credit Hours
This upper-division course is designed to provide AFS students the opportunity/framework to critically review and reflect on their academic and experiential learning experiences and other academic undertakings before graduation. In addition to reviewing relevant topical/contemporary issues of interest in the field of Africana Studies or the Pan-African world, students will develop individual research papers on these topical issues for presentation before the departmental faculty, students and the general public.
Prerequisite: AFS 37010.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

AFS 47100 RACE, GENDER AND SOCIAL JUSTICE 3 Credit Hours
(Slashed with AFS 57100) This senior level course introduces students to the interconnected fields of race, gender and social justice in America and the rest of the world. Students will explore the intersectionality of these fields and how they shape our understanding of social justice issues. The course will enhance the knowledge and understanding of students on critical issues of race, gender, sexuality/other categories. Drawing on interdisciplinary approach/perspective, students will study and develop a global understanding of the complex intersectional systems of oppression that shape the lives of people of African descent, including other people of color. Discussions will focus on issues of civic engagement, public policy, policy advocacy, and the practice/methodology of activism.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 47122 SEMINAR IN ACTIVISM AND SOCIAL CHANGE 3 Credit Hours
(Slashed with AFS 57122) This senior level seminar course will provide students the opportunity to gain knowledge and understanding of activism and social change. Discussion will focus on strategies and methods of social change through community activism, policy advocacy, community organizing and development. Students will engage in readings, discussions, and analyses of relevant works on issues of activism, race, gender and social change. In addition to reviewing major theoretical and methodological approaches, students will develop a theory-driven research paper on a topical issue of interest on race, gender, and social justice by the end of the semester.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 47144 BLACK SOCIAL AND POLITICAL THOUGHT 3 Credit Hours
(Slashed with AFS 57144) This course explores the evolution of Black social and political thought and leadership within the global Black world. Drawing on the concepts of leadership and liberatory practices, the course will discuss the changing trends of Black social and political thought, strategies, ideologies, race, class, gender, conflict, competition and future prospects of Black political mobilization and leadership.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 49093 VARIABLE TITLE WORKSHOP IN PAS 2-6 Credit Hours
(Repeatable for credit)
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory

AFS 49095 SELECTED TOPICS 2,3 Credit Hours
(Repeatable for credit) Scheduled topic announced. Intended to encourage further study in areas not treated adequately in standard courses. Offered irregularly by available or visiting faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter-IP

AFS 49096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable once for credit) Research in areas of interest not available in departmental courses. Approval by faculty member or chairperson necessary prior to registration.
Prerequisite: Junior or senior standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

AFS 53100 RACE, CLASS AND FEMINIST THOUGHT 3 Credit Hours
(Slashed with AFS 43100) This graduate level course explores issues of race, class and gender through the lens of Black women and feminists of color. This course also examines how gender, race, and class intersect in the construction of identity, institutional formations and social movements in the African world.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 57100 RACE, GENDER AND SOCIAL JUSTICE 3 Credit Hours
(Slashed with AFS 47100) This graduate level course introduces students to the fields of race, gender and social justice in America and the rest of the world. Students will explore the intersectionality of these fields and how they shape our understanding of critical social justice issues. The course is designed for M.A. and/or PhD students who wish to complement and strengthen their research and pedagogical framework in their degree program, and those who are interested in working towards equity with regard to race, gender, sexuality/other categories. Drawing on interdisciplinary approach/perspective, students will study and develop a global understanding of the complex intersectional systems of oppression that shape the lives of people of African descent, including other people of color. Discussions will focus on issues of civic engagement, public policy, policy advocacy, and the practice/methodology of activism. The knowledge of students in the interdisciplinary field of Africana Studies will also be broadened after taking this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 57122 SEMINAR IN ACTIVISM AND SOCIAL CHANGE 3 Credit Hours
(Slashed with AFS 47122) This graduate seminar course is designed to provide students the opportunity to undertake a critical overview of their graduate minor program in Race, Gender and Social Justice with a focus on strategies and methods of social change through community activism. Discussions will focus on critical issues of policy advocacy, community organizing and development. Students will engage in readings, discussions, and analyses of relevant works on issues of activism, race, gender and social change. In addition to reviewing major theoretical and methodological approaches, students will develop a theory-driven research paper on a topical issue of interest on race, gender, and social justice by the end of the semester.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AFS 57144 BLACK SOCIAL AND POLITICAL THOUGHT 3 Credit Hours
(Slashed with AFS 47144) This graduate level course explores the evolution of Black social and political thought and leadership within the global Black world. Drawing on the concepts of leadership and liberatory practices, the course will discuss the changing trends of Black social and political thought, strategies, ideologies, race, class, gender, conflict, competition and future prospects of Black political mobilization and leadership.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

African Studies - Minor

College of Arts and Sciences
Department of Africana Studies
www.kent.edu/afs

About This Program

The African Studies minor provides a broad familiarity with African history, culture and contemporary problems. Study in this program may be coordinated with relevant language study through Pan-African Studies.

Contact Information

- **Mwatabu S. Okantah** | mokantah@kent.edu | 330-672-2300 or 330-672-0142
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Minor Electives, choose from the following:		18
AFS 15200	INTRODUCTION TO WEST AFRICAN CULTURES	
AFS 22200	INTRODUCTION TO THE AFRICAN ARTS	
AFS 32050	AFRICAN LITERATURES (DIVG)	
AFS 34000	INTRODUCTION TO AFRICAN WORLD VIEW (DIVG)	
AFS 37020	THE MODEL AFRICAN UNION (ELR)	
AFS 37100	AFRICANA WOMEN'S LITERATURE (DIVG)	
AFS 44095	SPECIAL TOPICS IN CONTEMPORARY AFRICA	
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
ARAB 11101	ELEMENTARY ARABIC I	
ARAB 11102	ELEMENTARY ARABIC II	
ARTH 42025	ART OF WEST AFRICA (DIVG)	
ECON 42075	INTERNATIONAL ECONOMIC RELATIONS	
ECON 42076	ECONOMIC DEVELOPMENT	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31131	HISTORY OF COLONIAL AFRICA, 1880-1994	
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	
MUS 42111	AFRICAN MUSIC AND CULTURES	
POL 30540	AFRICAN POLITICS (DIVG)	
POL 30840	NONGOVERNMENTAL ORGANIZATIONS	
POL 40530	POLITICS OF WAR	
POL 40560	HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG)	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Africana Studies - B.A.

College of Arts and Sciences
Department of Africana Studies
www.kent.edu/afs

About This Program

Explore the rich history and culture of Africa and the African diaspora with Kent State University's Africana Studies program. Develop a deep understanding of the social, cultural and political issues that have shaped the African world. Read more...

Contact Information

- **Mwatabu S. Okantah** | mokantah@kent.edu | 330-672-2300 or 330-672-0142
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person

- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Area, ethnic, and cultural studies teachers, postsecondary

- 4.9% about as fast as the average
- 13,400 number of jobs
- $78,840 potential earnings

Social services

- Parenting
- Social work
- Government
- Probation officer
- Counseling
- Community education
- Community activism
- Case management
- Rehabilitation
- Volunteer services
- Programming
- Advocacy
- Crisis services (pregnancy, housing, etc.)
- Nonprofit and social services organizations
- Immigrant and refugee service providers
- Migrant service providers
- Hospitals and hospices
- Residential treatment facilities
- Youth organizations and campus including YMCA, YWCA, Young Life, etc.
- Churches, synagogues and mosques
- Lobby agencies

International areas

- Nongovernmental organization staffing
- International diplomacy
- Humanitarian services
- Economic and community development
- Policy development
- Foreign affairs
- International security
- International aid and relief organizations
- Think tanks

Business

- Public relations
- Public administration
- Personnel management/diversity/inclusion
- Nonprofit management
- Human resources: training and development, recruitment or equity and diversity functions
- Sales
- Management
- Staffing agencies

Education

- Teaching
- Research
- Student affairs administration
- Multicultural programming
- Programs/study abroad administration

Arts and communication

- Journalism
- Creative writing
- Theater
- Music management
- Visual arts
- Arts education
- Dance
- Film making
- Museum curating

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college

or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
AFS 20300	BLACK IMAGES	3
AFS 23001	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	3
AFS 23002	BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM)	3
AFS 37000	ORAL AND WRITTEN DISCOURSES IN AFRICANA STUDIES (WIC) [1]	3
AFS 37001	THEORETICAL APPROACHES TO AFRICANA STUDIES	3
AFS 37010	RESEARCH METHODS IN AFRICANA STUDIES (ELR)	3
AFS 47144	BLACK SOCIAL AND POLITICAL THOUGHT	3
Major Electives, choose from the following:		12
AFS 22200	INTRODUCTION TO THE AFRICAN ARTS	
AFS 24407	INTRODUCTION TO CARIBBEAN STUDIES (DIVG)	
AFS 26010	BLACK LIVES MATTER: THE CONTINUED STRUGGLE FOR BLACK LIBERATION	
AFS 30001	CULTURAL EXPRESSIONS I	
AFS 30310	BLACK HOLLYWOOD	
AFS 30311	HIP HOP. THE SOCIAL, POLITICAL AND ECONOMIC INFLUENCES	
AFS 32001	AFRICAN-AMERICAN LITERATURE TO 1900	
or ENG 33010	AFRICAN-AMERICAN LITERATURE TO 1900	
AFS 33110	BLACK WOMEN, CULTURE AND SOCIETY: HISTORICAL PERSPECTIVES (DIVD)	
AFS 33120	THE BLACK MAN: HISTORICAL PERSPECTIVES	
AFS 33130	GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA	
AFS 33310	AFRO-LATINX COMMUNITIES IN THE U.S. (DIVD)	
AFS 34000	INTRODUCTION TO AFRICAN WORLD VIEW (DIVG)	
AFS 37100	AFRICANA WOMEN'S LITERATURE (DIVG)	
or ENG 33013	AFRICANA WOMEN'S LITERATURE (DIVG)	
AFS 37150	SECRET AND MAROON SOCIETIES IN THE STRUGGLE AGAINST THE INSTITUTION OF SLAVERY	
AFS 43095	SPECIAL TOPICS IN PAN-AFRICAN LITERATURE, ARTS AND CULTURES	
AFS 47100	RACE, GENDER AND SOCIAL JUSTICE	
AFS 47122	SEMINAR IN ACTIVISM AND SOCIAL CHANGE	
PACS 30000	MAY 4 1970 AND ITS AFTERMATH	
or POL 30000	MAY 4 1970 AND ITS AFTERMATH	
WMST 30001	ARENAS FOR FEMINIST THOUGHT: TOUCHY SUBJECTS, UNSETTLED MATTERS AND FEMINIST RESPONSE-ABILITY	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Fine Arts		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		46
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
AFS 20300	BLACK IMAGES	3
AFS 23001	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	3
UC 10001	FLASHES 101	1
Foreign Language		4
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
AFS 23002	BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM)	3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**16**
Semester Three		
Major Elective		3
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
Major Elective		3
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
AFS 37001	THEORETICAL APPROACHES TO AFRICANA STUDIES	3
Kent Core Requirement		3
General Electives		9
	Credit Hours	**15**
Semester Six		
AFS 37000	ORAL AND WRITTEN DISCOURSES IN AFRICANA STUDIES (WIC)	3
Major Electives		6
General Electives		6
	Credit Hours	**15**
Semester Seven		
AFS 37010	RESEARCH METHODS IN AFRICANA STUDIES (ELR)	3
General Electives		12
	Credit Hours	**15**
Semester Eight		
AFS 47144	BLACK SOCIAL AND POLITICAL THOUGHT	3
General Electives		12
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the historical experiences of people of African descent at the advanced level of the core.
2. Interact with diverse communities and be informed and engaged global citizens.
3. Relate current political and social issues facing the Africana world to global historical events.
4. Read, analyze and critically articulate the contemporary socioeconomic, political and cultural issues facing people of African descent.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Africana Studies offers an in-depth exploration of the histories, cultures and experiences of people of African descent across the globe. The program provides students with interdisciplinary knowledge in areas such as African history, politics, literature and social movements, fostering a critical understanding of African and African diasporic contributions to global society. Through a blend of theoretical and practical study, the program prepares graduates for careers in education, public service, international relations and cultural advocacy, while also laying the groundwork for advanced academic pursuits.

Africana Studies - Minor

College of Arts and Sciences
Department of Africana Studies
www.kent.edu/afs

About This Program

The Africana Studies minor introduces students to the experiences and accomplishments of people of African descent, wherever they may be throughout the world. The minor complements majors that prepare students to work in areas such as education, law, law enforcement, public service, social work, research, foreign service, business and community development.

Beyond the required courses, students may choose to focus on history, diaspora studies, politics, language, culture, arts or a general program.

Contact Information

- **Mwatabu S. Okantah** | mokantah@kent.edu | 330-672-2300 or 330-672-0142
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
AFS 23001	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	3
or AFS 23002	BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM)	
AFS 37001	THEORETICAL APPROACHES TO AFRICANA STUDIES	3
Arts and Culture Electives, choose from the following:		6
AFS 20001	INTRODUCTION TO AFRICANA STUDIES	
AFS 20300	BLACK IMAGES	
AFS 30001	CULTURAL EXPRESSIONS I	
AFS 30310	BLACK HOLLYWOOD	
AFS 30311	HIP HOP. THE SOCIAL, POLITICAL AND ECONOMIC INFLUENCES	
AFS 37100	AFRICANA WOMEN'S LITERATURE (DIVG)	
or ENG 33013	AFRICANA WOMEN'S LITERATURE (DIVG)	
Thematic Area Elective, choose from the following:		3
AFS 26010	BLACK LIVES MATTER: THE CONTINUED STRUGGLE FOR BLACK LIBERATION	
AFS 37000	ORAL AND WRITTEN DISCOURSES IN AFRICANA STUDIES (WIC)	
AFS 37150	SECRET AND MAROON SOCIETIES IN THE STRUGGLE AGAINST THE INSTITUTION OF SLAVERY	
AFS 47100	RACE, GENDER AND SOCIAL JUSTICE	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the historical experiences of people of African descent.
2. Interact with diverse communities and be informed and engaged global citizens.
3. Relate current political and social issues facing the Africana world to global historical events.
4. Read, analyze and critically articulate the contemporary socioeconomic, political and cultural issues facing people of African descent.

Race, Gender and Social Justice - Graduate Minor

College of Arts and Sciences
Department of Africana Studies
www.kent.edu/afs

About This Program

The Race, Gender and Social Justice graduate minor allows students to develop a global understanding of the complex inter-sectional systems of oppression that shape the lives of people of African descent, including other people of color. Students also gain specialized knowledge in the interdisciplinary field of Africana studies. In enhancing civic engagement as an interdisciplinary minor, the minor includes a focus on public policy, policy advocacy and the practice and methodology of community activism. The knowledge and skills gained through the minor prepares students for professional and academic positions.

The minor is designed for master's and doctoral students who wish to complement and strengthen their research and pedagogical framework in their degree program, as well as those who are interested in working towards equity with regard to gender, race, class, sexuality and other categories.

Contact Information

- **Mwatabu Okantah** | mokantah@kent.edu | 330-672-2300

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Admitted to any Kent State graduate degree program
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Statement of purpose related to the student's focus in the minor
- One letter of recommendation from the student's faculty advisor

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
AFS 57100	RACE, GENDER AND SOCIAL JUSTICE	3
AFS 57122	SEMINAR IN ACTIVISM AND SOCIAL CHANGE	3
Minor Elective, choose from the following:		3
AFS 53100	RACE, CLASS AND FEMINIST THOUGHT	
AFS 57144	BLACK SOCIAL AND POLITICAL THOUGHT	
ENG 66103	ETHNIC LITERATURE OF THE UNITED STATES	
ENG 66104	AFRICAN-AMERICAN LITERATURE	
ENG 66302	POST-COLONIAL LITERATURE IN ENGLISH	
GEOG 52070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES	
PHIL 51020	SOCIAL AND POLITICAL PHILOSOPHY	
POL 60106	URBAN POLICY AND POLITICS	
SOC 62546	SOCIAL INEQUALITY	
SOC 62566	SOCIOLOGY OF GENDER	
SOC 62870	SOCIOLOGY OF RACE AND ETHNICITY	
Minimum Total Credit Hours:		**9**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Gain critical knowledge in the areas of race, gender and social justice.
2. Demonstrate understanding and apply key frameworks, concepts, theories and/or methodologies in the field.
3. Demonstrate knowledge of collaborative action and its impact on equity and social change.
4. Demonstrate the ability to design and implement an independent research project.
5. Be prepared to be successful in professional and academic positions that utilize inclusive and anti-oppression frameworks.

Department of Anthropology

College of Arts and Sciences
Department of Anthropology
226 Lowry Hall
Kent Campus
330-672-4363
www.kent.edu/anthropology

Undergraduate Programs

- Anthropology - B.A.
- Anthropology - B.S.

Minors

- Anthropology
- Forensic Anthropology
- Medical Anthropology

Graduate Programs

- Anthropology - M.A.

Department of Anthropology Faculty

- Bebber, Michelle R. (2019), Assistant Professor, Ph.D., Kent State University , 2019
- Cimino, Aldo N. (2021), Assistant Professor
- Edler, Melissa K. (1998), Assistant Professor, Ph.D., Kent State University, 2016
- Eren, Metin I. (2016), Professor, Ph.D., Southern Methodist University, 2011
- Lovejoy, C. Owen (1968), Distinguished Professor, Ph.D., University of Massachusetts, Amherst, 1970
- Meindl, Richard S. (1979), Professor, Ph.D., University of Massachusetts-Amherst, 1979
- Raghanti, Mary Ann (2000), Professor, Ph.D., Kent State University, 2007
- Spurlock, Linda B. (1993), Professor, Ph.D., Kent State University, 2001
- Stumpf-Carome, Jeanne M. (1994), Associate Professor, Ph.D., University of California, Berkeley, 1992
- Takeshita, Rafaela S. (2019), Associate Professor, D.Sc., Kyoto University, 2018
- Tosi, Anthony J. (2014), Associate Professor, Ph.D., Columbia University, 2000

Anthropology (ANTH)

ANTH 18095 SPECIAL TOPICS ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) Special Topics in Anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 18210 INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS) 3 Credit Hours
This introductory course in cultural anthropology examines the culture concept, the diverse ways of life found in communities around the world, and attempts by anthropologists and other social scientists to understand the commonalities underlying our diversity. It explores how individual lives are shaped by broader cultural and social forces, how people create meaning, and the nature of power relations. Students will gain insight into the potential of anthropological findings to help resolve contemporary human problems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

ANTH 18230 INTRODUCTION TO FORENSIC ANTHROPOLOGY 3 Credit Hours
Forensic anthropology is the application of biological anthropology in a medico-legal context. The tools of archaeology and biological anthropology are used to discover, recover and identify human remains. Topics include human osteology, determining the biological profile (sex, age, ancestry and stature), facial reconstruction, establishing a positive I.D., trauma to bone, stages of decomposition, the role of insects in decomposition, and issues of mass graves.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 18420 INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS) 3 Credit Hours
Archaeology is the study of the human past using material remains. The themes of time change and human diversity will be emphasized as students learn about ancient societies and how they teach us about ourselves. We will survey prehistoric and ancient human existence, from our earliest bipedal ancestors between 5 and 10 million years ago until the beginnings of complex society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

ANTH 18630 HUMAN EVOLUTION (KBS) 3 Credit Hours
Introduction to basic evolutionary theory with a focus on the emergence and progressive development of the human species during the last five million years. Includes related topics such as primate behavior and human variation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Social and Behavioral Sciences, Transfer Module Natural Sciences

ANTH 18631 ISSUES IN HUMAN EVOLUTION (KBS) (KLAB) 1 Credit Hour
Laboratory study of primate and human anatomy; human paleontology; Mendelian, molecular and human genetics; and primate behavior, ecology and conservation.
Pre/corequisite: ANTH 18630.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

ANTH 28095 SPECIAL TOPICS ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) Special Topics in Anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 28300 INTRODUCTION TO FORENSIC GENETICS 3 Credit Hours
Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them; for example, whose DNA is on a gun trigger? This is the first in a two-course series. This course provides a foundation in basic genetic principles and methods relevant to criminal investigation and victim identification. Topics include introduction and history of molecular forensics, crime scene evidence, serology (blood, semen, saliva), blood spatter, chromosome structure, principles of inheritance, linkage and crossing over, microsatellites (STRs), DNA extraction methods, standard PCR, capillary electrophoresis, mitochondrial DNA, sex chromosomes, basic population genetics, and CODIS database.
Prerequisite: ANTH 18230 or ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: Junior standing or above.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38096 INDIVIDUAL INVESTIGATION IN ANTHROPOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit)Readings and/or research supervised by a member of the anthropology staff.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ANTH 38440 QUANTITATIVE ANTHROPOLOGY 3 Credit Hours
Introduces the quantitative description of numerical data, provides an understanding of the basis of probability theory and statistical inference and acquaints the student with the role of computers in anthropology.
Prerequisite: ANTH 18420 or ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38480 ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) 3 Credit Hours
Methods necessary for the description and laboratory analysis of prehistoric remains. Course will include laboratory exercises as well as class lectures.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ANTH 38490 QUANTITATIVE ANTHROPOLOGY 3 Credit Hours
Introduces the quantitative description of numerical data, provides an understanding of the basis of probability theory and statistical inference and acquaints the student with the role of computers in anthropology.
Prerequisite: ANTH 18420 or ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38680 PRIMATE SOCIETIES 3 Credit Hours
This course will be a survey of the behavior of living primates. Topics covered include reproductive and foraging strategies, social structure and primate conservation. Antecedent human behavior will also be considered.
Prerequisite: ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 38789 FACES: HUMAN HEAD ANATOMY WITH A FORENSIC ART FOCUS (DIVG) (ELR) 3 Credit Hours
Summer Florence Institute course: Renaissance artists became anatomists in order to create more life-like portrayals of the human figure, and Italy was in the forefront of these developments. Our course begins with studying works by these artist/anatomists: Antonio Pollaiuolo, Leonardo da Vinci, Michelangelo, and others, through visits to the Galleria dell'Accademia and Museum of the Bargello and lectures. We will examine drawings, paintings and sculptures of faces by these artists, and gain an appreciation for how well they understood human anatomy. We will also visit La Specola Anatomical Collection (exquisite wax models copied from real corpses during the 17th century) since we are studying anatomy. In the classroom, students will study human skulls, and learn the form and function of the muscles of facial expression and mastication. We will pay close attention to features of the skull that ultimately give each face its unique qualities, and study the areas that indicate age and sex of the individual. Each student will sculpt the facial bones of a skull, using an exact replica cast as a model. In the last part of the course students learn the techniques of two-dimensional forensic facial reconstruction. Using knowledge of head anatomy, and tissue depth data from the literature, each student will prepare detailed sketches (one man, one woman) based on a photograph of his and her skull. We will also learn about changes to the face over the life span, and make sketches of older people based on photographs of them when young.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ANTH 48001 QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 58001) This course covers the qualitative research methods employed by anthropologists to collect and analyze data. Students will gain skills in ethnography, research design and analysis, and the ethical responsibilities associated with data collection and storage.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48010 NORTH AMERICA'S ICE AGE HUNTERS 3 Credit Hours
(Slashed with ANTH 58010) This class is an in-depth study of the Clovis people, their culture, their technology, their ancestors, and their progeny. The Clovis culture represents the first peoples of North America during the Pleistocene (Ice Age), over 13,000 years ago. These first Americans were colonizers to the New World, and tackled a dangerous and unfamiliar landscape.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48092 FORENSIC ARCHAEOLOGY FIELD SCHOOL (ELR) 3 Credit Hours
(Slashed with ANTH 58092) This course provides students with practical experience in archaeological fieldwork in the context of a mock crime scene. Students will excavate a complex burial feature. Surface survey, excavation and recording techniques, field drawing, and processing of bones and artifacts will be taught.
Prerequisite: ANTH 18230 or ANTH 18630.
Schedule Type: Laboratory, Lecture, Practical Experience
Contact Hours: 1 lecture, 3 lab, 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ANTH 48093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY 1-6 Credit Hours
(Repeatable for credit)Classroom discussions and field study activity focused on professional and disciplinary concerns. Specific content varies with workshop group.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ANTH 48095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with ANTH 58095) Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled.
Prerequisite: ANTH 18210 or 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48150 RELIGION: A SEARCH FOR A MEANING 3 Credit Hours
(Slashed with ANTH 58150) This course teaches students the anthropological approaches to the study of religious beliefs and practices, as well as the role of religion in bringing about social change. Topics covered include: ritual, myth, witchcraft, sorcery, shamanism, syncretism, secularism and fundamentalism. Students will appreciate the diversity of ways in which religion is manifested cross-culturally and understand the different roles that religious beliefs play in human life. Students with Junior standing or above may request that the prerequisite be waived.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48214 POLITICS OF CULTURE (ELR) (WIC) 3 Credit Hours
(Slashed with ANTH 58214) Addresses the way in which culture has been politicized, and looks at such issues as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ANTH 48220 CULTURAL ECOLOGY AND SUSTAINABILITY 3 Credit Hours
(Slashed with ANTH 58220) Exploration of the dynamic relationship between socio-cultural systems and physical-biological environment through Anthropology's comparative perspective on the crucial contemporary need to foster a sustainable society.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48225 ARCHAEOLOGY OF DEATH (ELR) (WIC) 3 Credit Hours
(Slashed with ANTH 58225) Archaeologists study cemeteries to learn how societies treat their dead, as well as work at mass disaster scenes, and clandestine graves. They aid law enforcement in many situations where human remains have been skeletonized. This course will provide students with an understanding of the processes and procedures involved in each.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ANTH 48242 ARCHAEOLOGICAL CERAMICS 3 Credit Hours
(Slashed with ANTH 58242) This course will provide students with essential archaeological knowledge of ceramic materials via lecture and hands-on learning activities. Pottery will be addressed in a holistic manner, starting with its geochemical origins, through the various ways humans have sourced and manipulated this versatile raw material, as well as standard archaeological methods for study and interpretation. Ceramic materials from cultures all around the world will be discussed in depth to reveal both functional and social significance.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48245 PSYCHOLOGICAL ANTHROPOLOGY (DIVG) 3 Credit Hours
(Slashed with ANTH 58245) Overview of psychological anthropology. Includes comparative cross-cultural socialization and personality development; group and national character; relationship of personality to politics, social and occupational roles, and recent explorations of the relationship between culture and cognition. Examines contributions by leading figures, from Freud, Boas, Benedict, and Whorf through modern studies of spatial cognition and navigation.
Prerequisite: ANTH 18210 or PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ANTH 48250 MEDICAL ANTHROPOLOGY (DIVG) 3 Credit Hours
(Slashed with ANTH 58250) This course teaches students the central concepts and methods of medical anthropology, treating illness and healing as biocultural, political and experiential phenomena. The course considers both the specificity of local medical cultures and the complex interactions among the environment, human behavior and political and economic policies that shape them. The course will sensitize students to cultural issues in sickness and health care, and provide some critical analytic concepts and tools. Students with JUNIOR standing or above may request that the prerequisite be waived.
Prerequisite: ANTH 18210 or ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ANTH 48262 PEOPLES AND CULTURES OF AMAZONIA (DIVG) 3 Credit Hours
(Slashed with ANTH 58262) This course introduces students to the cultural traditions of Lowland South American peoples. Through a variety of ethnographic readings and films students will explore key anthropological themes such as the relationship between 'nature' and 'culture', gender relations, violence, anthropological ethics and the impacts of colonialism and globalization. Topics covered include: cosmology, personhood, ritual practices, sorcery, shamanism, gender and indigenous activism. Students with Junior standing or above may request that the prerequisite be waived.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ANTH 48280 BEING HUMAN: SIGNS AND SYMBOLS 3 Credit Hours
An exploration of semiotic anthropology, the study of the production and communication of meaning through signs and symbols in human life, from both a humanistic and a scientific perspective. Special emphasis is on what it means to be human from a spatial as well as an evolutionary perspective as it relates to our sustainability crisis. The topic is crucial to our species, and to life on earth more generally, given the current globalization of modernity and the propagation of its non-sustainable definition of human being.
Prerequisite: Sophomore standing or above.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48295 SPECIAL TOPICS IN CULTURAL ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: ANTH 18210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48300 ADVANCED FORENSIC GENETICS 3 Credit Hours
(Slashed with ANTH 58300) Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them. This is the second in a two-course series, and it focuses on the analysis and interpretation of molecular forensic data, as used in criminal investigations. Topics include quantitative PCR, capillary electrophoresis and electrophoretic artifacts, NRC and ISFG recommendations, CODIS database, familial searches, low-copy DNA, mixture deduction, forensic statistics, missing persons, paternity tests, mass disaster identifications, quality control, accreditations and validations, courtroom testimony, legal challenges to DNA typing, and new approaches and technologies.
Prerequisite: ANTH 28300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48330 PRIMATE ENDOCRINOLOGY 3 Credit Hours
(Slashed with ANTH 58330) This course provides a comprehensive overview of primate behavioral endocrinology, with an emphasis on primate adaptation to maximize reproductive fitness. We learn to identify the major taxonomic groups and their behavioral and physiological diversity, and explore how hormones contribute to shape different primate societies. Throughout the course, we explore hormonal influences on sexual behavior, aggression and dominance, stress and energetic balance, social bonding and parental care, as well as field and laboratory techniques to study nonhuman primates in their natural habitat.
Prerequisite: ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48440 ARCHAEOLOGY OF ANCIENT OHIO 3 Credit Hours
(Slashed with ANTH 58440) Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000 year period from initial occupation to the beginning of European written history.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48450 ANCIENT CIVILIZATIONS 3 Credit Hours
(Slashed with ANTH 58450) This course will explore the mechanisms involved in the development of early complex societies around the globe. Students will be introduced to cross-cultural comparative analysis to explore theories regarding the rise of the state in various ecological environments, as well as other causal explanations and organizational parameters associated with ancient state formation and maintenance.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48492 ARCHAEOLOGICAL FIELD METHODS (ELR) 3 Credit Hours
(Repeatable for credit) (Slashed with ANTH 58492) Field and laboratory techniques in archaeological research.
Prerequisite: Special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.66 lecture, 4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ANTH 48495 SPECIAL TOPICS IN ARCHAEOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: ANTH 18420.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48550 FORENSIC SCIENCE IN THE COURTROOM 3 Credit Hours
(Slashed with ANTH 58550) This course will provide Students with an understanding of the types of biological forensic data utilized in court, and the strengths and weaknesses of these data. Though multiple types of analyses will be discussed, emphasis will be placed on DNA (STR) data, as it is the predominant type of biological evidence used today. The course will also cover the steps required to determine whether a new type of analysis is admissible at trial. Basic courtroom procedures, biases in data interpretation and presentation, case studies, and moot courts will be included.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48623 HUMAN VARIATION 3 Credit Hours
(Slashed with ANTH 58623) A detailed anthropological examination of the causes and extent of modern human variability.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48810 HUMAN PALEONTOLOGY 3 Credit Hours
(Slashed with ANTH 58810) Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors.
Prerequisite: ANTH 18630.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48820 HUMAN MUSCULO-SKELETAL SYSTEM 3 Credit Hours
(Slashed with ANTH 58820) A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy biomechanics and estimation of age and sex from isolated bones.
Prerequisite: Junior standing or above.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48835 PRIMATE ECOLOGY AND CONSERVATION 3 Credit Hours
(Slashed with ANTH 58835) Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes and human and climatic effects on their long-term survival.
Prerequisite: ANTH 18630 or ANTH 38680 or BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48850 NATURAL SELECTION ACCORDING TO DARWIN 3 Credit Hours
(Slashed with ANTH 58850) Darwin's Origin of Species transformed our understanding of the natural world. Although he was not aware of the biological constituents of inheritance (i.e. genetics and the modern synthesis), his three ingredients for a system of descent with modification – variation, inheritance, and sorting – were wildly influential. This course will not only explore how Darwin understood his monumental theory, but also show that Darwin's original proposal explains both biological and cultural evolution. Students will gain an understanding of how Darwin's theory provided a foundation for modern anthropological thought and continues to inform anthropological queries.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 48889 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Slashed with ANTH 58889)(Repeatable for credit) Faculty-led study abroad experiences.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 3-12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ANTH 58001 QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 48001) This course covers the qualitative research methods employed by anthropologists to collect and analyze data. Students will gain skills in ethnography, research design and analysis, and the ethical responsibilities associated with data collection and storage.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58010 NORTH AMERICA'S ICE AGE HUNTERS 3 Credit Hours
(Slashed with ANTH 48010) This class is an in-depth study of the Clovis people, their culture, their technology, their ancestors, and their progeny. The Clovis culture represents the first peoples of North America during the Pleistocene (Ice Age), over 13,000 years ago. These first Americans were colonizers to the New World, and tackled a dangerous and unfamiliar landscape.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58092 FORENSIC ARCHAEOLOGY FIELD SCHOOL 3 Credit Hours
(Slashed with ANTH 48092) This course provides students with practical experience in archaeological fieldwork in the context of a mock crime scene. Students will excavate a complex burial feature. Surface survey, excavation and recording techniques, field drawing, and processing of bones and artifacts will be taught.
Prerequisite: Graduate Standing.
Schedule Type: Laboratory, Lecture, Practical Experience
Contact Hours: 1 lecture, 3 lab, 3 other
Grade Mode: Standard Letter

ANTH 58095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with ANTH 48095) Offered irregularly when unusual resources and/or opportunities permit.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58150 RELIGION: A SEARCH FOR MEANING 3 Credit Hours
(Slashed with ANTH 48150) This course teaches students anthropological approaches to the study of religious beliefs and practices, as well as the role of religion in bringing about social change. Topics covered include: ritual, myth, witchcraft, sorcery, shamanism, syncretism, secularism and fundamentalism. Students will appreciate the diversity of ways in which religion is manifested cross-culturally and understand the different roles that religious beliefs play in human life.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58214 POLITICS OF CULTURE 3 Credit Hours
(Slashed with ANTH 48214) This course will address the way in which culture has been politicized. It will look at issues such as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58220 CULTURAL ECOLOGY AND SUSTAINABILITY 3 Credit Hours
(Slashed with ANTH 48220) Exploration of the dynamic relationship between socio-cultural systems and the physical-biological environment through Anthropology's comparative perspective on the crucial contemporary need to foster a sustainable society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58225 ARCHAEOLOGY OF DEATH 3 Credit Hours
(Slashed with ANTH 48225) Archaeologists study cemeteries to learn how societies treat their dead, as well as work at mass disaster scenes, and clandestine graves. They aid law enforcement in many situations where human remains have been skeletonized. This course will provide students with an understanding of the processes and procedures involved in each.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58242 ARCHAEOLOGICAL CERAMICS 3 Credit Hours
(Slashed with ANTH 48242) This course will provide students with essential archaeological knowledge of ceramic materials via lectures and hands-on learning activities. Pottery will be addressed in a holistic manner, starting with its geochemical origins, through the various ways humans have sourced and manipulated this versatile raw material, as well as standard archaeological methods for study and interpretation. Ceramic materials from cultures all around the world will be discussed in depth to reveal both functional and social significance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58245 PSYCHOLOGICAL ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 48245) Overview of psychological anthropology. Includes comparative cross-cultural socialization and personality development; group and national character; relationship of personality to politics, social and occupational roles, and recent explorations of the relationship between culture and cognition. Examines contributions by leading figures, from Freud, Boas, Benedict, and Whorf through modern studies of spatial cognition and navigation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58250 MEDICAL ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 48250) This course teaches students the central concepts and methods of medical anthropology, treating illness and healing as biocultural, political and experiential phenomena. The course considers both the specificity of local medical cultures and the complex interactions among the environment, human behavior and political and economic policies that shape them. The course will sensitize students to cultural issues in sickness and health care, and provide some critical analytic concepts and tools.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58262 PEOPLES AND CULTURES OF AMAZONIA 3 Credit Hours
(Slashed with ANTH 48262) This course introduces students to the cultural traditions of Lowland South American peoples. Through a variety of ethnographic readings and films students will explore key anthropological themes such as the relationship between 'nature' and 'culture', gender relations, violence, anthropological ethics and the impacts of colonialism and globalization. Topics covered include: cosmology, personhood, ritual practices, sorcery, shamanism, gender and indigenous activism.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58295 SPECIAL TOPICS IN CULTURAL ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58300 ADVANCED FORENSIC GENETICS 3 Credit Hours
(Slashed with ANTH 48300) Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them. This is the second in a two-course series, and it focuses on the analysis and interpretation of molecular forensic data, as used in criminal investigations. Topics include quantitative PCR, capillary electrophoresis and electrophoretic artifacts, NRC and ISFG recommendations, CODIS database, familial searches, low-copy DNA, mixture deduction, forensic statistics, missing persons, paternity tests, mass disaster identifications, quality control, accreditations and validations, courtroom testimony, legal challenges to DNA typing, and new approaches and technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58330 PRIMATE ENDOCRINOLOGY 3 Credit Hours
(Slashed with ANTH 48330) This course provides a comprehensive overview of primate behavioral endocrinology, with an emphasis on primate adaptation to maximize reproductive fitness. We learn to identify the major taxonomic groups and their behavioral and physiological diversity, and explore how hormones contribute to shape different primate societies. Throughout the course, we explore hormonal influences on sexual behavior, aggression and dominance, stress and energetic balance, social bonding and parental care, as well as field and laboratory techniques to study nonhuman primates in their natural habitat.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58440 ARCHAEOLOGY OF ANCIENT OHIO 3 Credit Hours
(Slashed with ANTH 48440) Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000 year period from initial occupation to the beginning of European written history.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58450 ANCIENT CIVILIZATIONS 3 Credit Hours
(Slashed with ANTH 48450) This course will explore the mechanisms involved in the development of early complex societies around the globe. Students will be introduced to cross-cultural comparative analysis to explore theories regarding the rise of the state in various ecological environments, as well as other causal explanations and organizational parameters associated with ancient state formation and maintenance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58492 ARCHAEOLOGICAL FIELD METHODS 3 Credit Hours
(Repeatable for credit) (Slashed with ANTH 48492) Field and laboratory techniques in archaeological research.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.66 lecture, 4 other
Grade Mode: Standard Letter

ANTH 58495 SPECIAL TOPICS IN ARCHAEOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58550 FORENSIC SCIENCE IN THE COURTROOM 3 Credit Hours
(Slashed with ANTH 48550) This course will provide students with an understanding of the types of biological forensic data utilized in court, and the strengths and weaknesses of these data. Though multiple types of analyses will be discussed, emphasis will be placed on DNA (STR) data, as it is the predominant type of biological evidence used today. The course will also cover the steps required to determine whether a new type of analysis is admissible at trial. Basic courtroom procedures, biases in data interpretation and presentation, case studies, and moot courts will be included.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58623 HUMAN VARIATION 3 Credit Hours
(Slashed with ANTH 48623) A detailed anthropological examination of the causes and extent of modern human variability.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours
Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58810 HUMAN PALEONTOLOGY 3 Credit Hours
(Slashed with ANTH 48810) Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58820 HUMAN MUSCULO-SKELETAL SYSTEM 3 Credit Hours
(Slashed with ANTH 48820) A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy, biomechanics, and estimation of age and sex from isolated bones.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58835 PRIMATE ECOLOGY AND CONSERVATION 3 Credit Hours
(Slashed with ANTH 48835) Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes and human and climatic effects on their long-term survival.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58850 NATURAL SELECTION ACCORDING TO DARWIN 3 Credit Hours
(Slashed with ANTH 48850) Darwin's Origin of Species transformed our understanding of the natural world. Although he was not aware of the biological constituents of inheritance (i.e. genetics and the modern synthesis), his three ingredients for a system of descent with modification – variation, inheritance, and sorting – were wildly influential. This course will not only explore how Darwin understood his monumental theory, but also show that Darwin's original proposal explains both biological and cultural evolution. Students will gain an understanding of how Darwin's theory provided a foundation for modern anthropological thought and continues to inform anthropological queries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 58889 INTERNATIONAL EXPERIENCE 1-4 Credit Hours
(Slashed with ANTH 48889) Faculty-led study abroad experiences.
Prerequisite: Graduate standing.
Schedule Type: Field Experience, International Experience
Contact Hours: 3-12 other
Grade Mode: Standard Letter

ANTH 68095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours
(Repeatable for credit) Offered irregularly when unusual resources and/or opportunities permit.
Prerequisite: 6 graduate hours toward MA in Anthropology; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 68096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Readings and/or research supervised by member of graduate faculty. Petition form available in the anthropology department office.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ANTH 68098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Repeated registration permitted. Petition form available in the anthropology department office.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ANTH 68199 THESIS I 2-6 Credit Hours
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester, or distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ANTH 68230 PROBLEMS IN CULTURAL ANTHROPOLOGY 3 Credit Hours
Basic graduate course in cultural anthropology required of all M.A. candidates. Course deals with major topics within this subdiscipline of anthropology.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 68299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ANTH 68199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ANTH 68430 PROBLEMS IN WORLD PREHISTORY 3 Credit Hours
Basic graduate course in prehistoric archaeology required of all M.A. candidates.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 68630 PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY 3 Credit Hours
(Cross-listed with BMS 78630) A graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates, early man.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ANTH 68637 BIOANTHROPOLOGICAL DATA ANALYSIS I 5 Credit Hours
(Cross-listed with BMS 78637) Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

ANTH 68638 BIOANTHROPOLOGICAL DATA ANALYSIS II 3 Credit Hours
(Cross-listed with BMS 78638) This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple sample problems and regression methods. It also includes computer application. Graduate standing.
Prerequisite: ANTH 68637 (same course as BMS 78638).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Anthropology - B.A.

College of Arts and Sciences
Department of Anthropology
www.kent.edu/anthropology

About This Program

Looking for a fascinating new perspective on the world around you? Our Anthropology bachelor's degree program might just be for what you are looking. With a diverse array of courses and opportunities to participate in groundbreaking research, your journey of discovery starts today. Read more...

Contact Information

- **Richard Meindl** | rmeindl@kent.edu | 330-672-4363
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Anthropologists and archeologists

- 5.2% faster than the average
- 8,000 number of jobs
- $66,130 potential earnings

Anthropology and archeology teachers, postsecondary

- 4.4% about as fast as the average
- 7,200 number of jobs
- $89,220 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ANTH 18210	INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS)	3
ANTH 18420	INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
ANTH 18630	HUMAN EVOLUTION (KBS)	3
ANTH 18631	ISSUES IN HUMAN EVOLUTION (KBS) (KLAB)	1
ANTH 38490	QUANTITATIVE ANTHROPOLOGY	3
or ANTH 48001	QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY	
Anthropology (ANTH) Upper-Division Electives (30000 or 40000 level)		12
Archaeology Elective, choose from the following:		3
ANTH 38480	ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) [1]	
ANTH 48010	NORTH AMERICA'S ICE AGE HUNTERS	
ANTH 48225	ARCHAEOLOGY OF DEATH (ELR) (WIC) [1]	
ANTH 48242	ARCHAEOLOGICAL CERAMICS	
ANTH 48440	ARCHAEOLOGY OF ANCIENT OHIO	
ANTH 48450	ANCIENT CIVILIZATIONS	
ANTH 48492	ARCHAEOLOGICAL FIELD METHODS (ELR)	
Biological Anthropology Elective, choose from the following:		3
ANTH 28300	INTRODUCTION TO FORENSIC GENETICS	
ANTH 38680	PRIMATE SOCIETIES	

ANTH 48330	PRIMATE ENDOCRINOLOGY	
ANTH 48623	HUMAN VARIATION	
ANTH 48810	HUMAN PALEONTOLOGY	
ANTH 48820	HUMAN MUSCULO-SKELETAL SYSTEM	
ANTH 48835	PRIMATE ECOLOGY AND CONSERVATION	
ANTH 48850	NATURAL SELECTION ACCORDING TO DARWIN	
Cultural Anthropology Elective, choose from the following:		3
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
ANTH 48214	POLITICS OF CULTURE (ELR) (WIC) [1]	
ANTH 48220	CULTURAL ECOLOGY AND SUSTAINABILITY	
ANTH 48245	PSYCHOLOGICAL ANTHROPOLOGY (DIVG)	
ANTH 48250	MEDICAL ANTHROPOLOGY (DIVG)	
ANTH 48262	PEOPLES AND CULTURES OF AMAZONIA (DIVG)	
ANTH 48280	BEING HUMAN: SIGNS AND SYMBOLS	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences		3
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		48
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- To fulfill the diversity requirement, students must take a domestic diversity course that is not an ANTH course.

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	ANTH 18210 or ANTH 18420	INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS) or INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
	UC 10001	FLASHES 101	1
	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		**14**
	Semester Two		
!	ANTH 18210 or ANTH 18420	INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS) or INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		**16**
	Semester Three		
	Anthropology (ANTH) Upper-Division Elective (30000 or 40000 level)		3
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		**15**
	Semester Four		
!	ANTH 18630	HUMAN EVOLUTION (KBS)	3
	ANTH 18631	ISSUES IN HUMAN EVOLUTION (KBS) (KLAB)	1
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
	General Electives		6
	Credit Hours		**16**

	Semester Five		
	ANTH 38490 or ANTH 48001	QUANTITATIVE ANTHROPOLOGY or QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY	3
	Archaeology Elective		3
	General Electives		9
		Credit Hours	**15**
	Semester Six		
	Cultural Anthropology Elective		3
	Anthropology (ANTH) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		9
		Credit Hours	**15**
	Semester Seven		
!	Biological Anthropology Elective		3
	Anthropology (ANTH) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		9
		Credit Hours	**15**
	Semester Eight		
	Anthropology (ANTH) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		11
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Learn how anthropologists investigate the past using the methods of social scientists.
2. Demonstrate comprehension of anthropology's special role in making archaeology, particularly the study of prehistoric Ohio, come to life and become relevant for them.
3. Gain a special appreciation of archaeology's other mandate — the need to conserve the precious heritage of the archaeological record — not only in Ohio, but also that of all the eastern woodlands and the Americas.
4. Demonstrate an understanding of biological anthropology as the most relevant evolution science; the one that gives them an appreciation of their place in nature.
5. See the two dimensions of human evolution and adaptation: a global one (modern human variation) and a temporal one (human origins). Both dimensions require an appreciation of the neo-Darwinian theory of evolution, which includes both the process of natural selection and roles that genetics and developmental biology play.
6. Achieve a holistic view of human cultures and an extensive knowledge base of diverse human behavior.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Anthropology focuses on human cultural and biological diversity and the impact on past and present environments. Anthropology's relevance to other areas of study —

including sociology, social-psychology, biology and pre-medicine — links it to culture area studies, community planning and public health.

The Anthropology major provides in-depth area studies in cultural anthropology, archaeology and biological anthropology. Students who focus on the biological aspect of human evolution benefit from the freshman-level human evolution laboratory.

Anthropology - B.S.

College of Arts and Sciences
Department of Anthropology
www.kent.edu/anthropology

About This Program

Ready to take your understanding of human society to the next level? Kent State University's Anthropology Bachelor of Science degree program is here to help. With a focus on scientific analysis and experiential learning, you will be prepared to tackle some of the most pressing issues facing our world today. Read more...

Contact Information

- **Richard Meindl** | rmeindl@kent.edu | 330-672-4363
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Anthropologists and archeologists

- 5.2% faster than the average
- 8,000 number of jobs
- $66,130 potential earnings

Anthropology and archeology teachers, postsecondary

- 4.4% about as fast as the average
- 7,200 number of jobs
- $89,220 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ANTH 18210	INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS)	3
ANTH 18420	INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
ANTH 18630	HUMAN EVOLUTION (KBS)	3
ANTH 18631	ISSUES IN HUMAN EVOLUTION (KBS) (KLAB)	1
ANTH 38480	ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) [1]	3
ANTH 38490	QUANTITATIVE ANTHROPOLOGY	3
MATH 11022	TRIGONOMETRY (KMCR)	3

MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Anthropology (ANTH) Upper-Division Electives (30000 or 40000 level)		15
Archaeology Elective, choose from the following:		3
ANTH 48010	NORTH AMERICA'S ICE AGE HUNTERS	
ANTH 48225	ARCHAEOLOGY OF DEATH (ELR) (WIC) [1]	
ANTH 48242	ARCHAEOLOGICAL CERAMICS	
ANTH 48440	ARCHAEOLOGY OF ANCIENT OHIO	
ANTH 48450	ANCIENT CIVILIZATIONS	
Biological Anthropology Elective, choose from the following:		3
ANTH 38680	PRIMATE SOCIETIES	
ANTH 48330	PRIMATE ENDOCRINOLOGY	
ANTH 48623	HUMAN VARIATION	
ANTH 48820	HUMAN MUSCULO-SKELETAL SYSTEM	
ANTH 48835	PRIMATE ECOLOGY AND CONSERVATION	
Cultural Anthropology Elective, choose from the following:		3
ANTH 48214	POLITICS OF CULTURE (ELR) (WIC) [1]	
ANTH 48220	CULTURAL ECOLOGY AND SUSTAINABILITY	
ANTH 48245	PSYCHOLOGICAL ANTHROPOLOGY (DIVG)	
ANTH 48250	MEDICAL ANTHROPOLOGY (DIVG)	
Additional Requirements (course do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines) (cannot be ANTH)		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		18
Concentrations		
Choose from the following:		27
Archaeology		
Biological Anthropology		
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Archaeology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CHEM 10058	GENERAL CHEMISTRY FOR LIFE SCIENCES I	4
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
or PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	
CHEM 10059	GENERAL CHEMISTRY FOR LIFE SCIENCES II	4
or CHEM 10061	GENERAL CHEMISTRY II (KBS)	
or PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) [1]	1
or PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB) [1]	1
or PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
ESCI 11040	HOW THE EARTH WORKS (KBS)	3
ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
ESCI 23063	EARTH MATERIALS I	4
or ESCI 32066	GEOMORPHOLOGY	
GEOG 10160	INTRODUCTION TO GEOGRAPHY	3
Concentration Electives, choose from the following:		6-7
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49230	REMOTE SENSING	
Minimum Total Credit Hours:		**27**

[1] Students take the lectures and associated labs in either chemistry or physics.

Biological Anthropology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ANTH 28300	INTRODUCTION TO FORENSIC GENETICS	3
or BSCI 30050	HUMAN GENETICS	
or BSCI 30156	ELEMENTS OF GENETICS	
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
CHEM 10058	GENERAL CHEMISTRY FOR LIFE SCIENCES I	4
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10059	GENERAL CHEMISTRY FOR LIFE SCIENCES II	4
or CHEM 10061	GENERAL CHEMISTRY II (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
Biology Electives, choose from the following:		6-7
BSCI 30360	GENERAL ECOLOGY	
BSCI 30518	VERTEBRATE ANATOMY	
BSCI 40163	EVOLUTION	
BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 40520	BEHAVIORAL EVOLUTION (WIC) [1]	
BSCI 40558	MAMMALOGY	
Minimum Total Credit Hours:		**27**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.00	2.00

- To fulfill the diversity requirement, students must take a domestic diversity course that is not an ANTH course.

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]

- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

[1] All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

[2] The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Archaeology Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	ANTH 18210 or ANTH 18420	INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS) or INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
	CHEM 10058 or CHEM 10060 or PHY 13001	GENERAL CHEMISTRY FOR LIFE SCIENCES I or GENERAL CHEMISTRY I (KBS) or GENERAL COLLEGE PHYSICS I (KBS)	4
	CHEM 10062 or PHY 13021	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) or GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	ESCI 11040	HOW THE EARTH WORKS (KBS)	3
	ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	ANTH 18210 or ANTH 18420	INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS) or INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
	CHEM 10059 or CHEM 10061 or PHY 13002	GENERAL CHEMISTRY FOR LIFE SCIENCES II or GENERAL CHEMISTRY II (KBS) or GENERAL COLLEGE PHYSICS II (KBS)	4
	CHEM 10063 or PHY 13022	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB) or GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Three		
	MATH 11022	TRIGONOMETRY (KMCR)	3
	Anthropology (ANTH) Upper-Division Elective (30000 or 40000 level)		3
	Foreign Language		4
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**16**
	Semester Four		
!	ANTH 18630	HUMAN EVOLUTION (KBS)	3
	ANTH 18631	ISSUES IN HUMAN EVOLUTION (KBS) (KLAB)	1
	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Foreign Language		4
	General Elective		3
		Credit Hours	**16**
	Semester Five		
!	ANTH 38480 or ANTH 38490	ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) or QUANTITATIVE ANTHROPOLOGY	3
	GEOG 10160	INTRODUCTION TO GEOGRAPHY	3
!	Archaeology Elective		3
	General Electives		6
		Credit Hours	**15**
	Semester Six		
!	ANTH 38480 or ANTH 38490	ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) or QUANTITATIVE ANTHROPOLOGY	3
!	Biological Anthropology Elective		3
	Concentration Elective		3-4
	Cultural Anthropology Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Seven		
	Anthropology (ANTH) Upper-Division Electives (30000 or 40000 level)		6
	Concentration Elective		3-4
	General Elective		3
		Credit Hours	**12**
	Semester Eight		
	ESCI 23063 or ESCI 32066	EARTH MATERIALS I or GEOMORPHOLOGY	4
	Anthropology (ANTH) Upper-Division Electives (30000 or 40000 level)		6

	General Elective		3
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

Biological Anthropology Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	ANTH 18210 or ANTH 18420	INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS) or INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
	MATH 11022	TRIGONOMETRY (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
!	ANTH 18210 or ANTH 18420	INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS) or INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Three		
	CHEM 10058 or CHEM 10060	GENERAL CHEMISTRY FOR LIFE SCIENCES I or GENERAL CHEMISTRY I (KBS)	4
	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	Foreign Language		4
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Four		
!	ANTH 18630	HUMAN EVOLUTION (KBS)	3
	ANTH 18631	ISSUES IN HUMAN EVOLUTION (KBS) (KLAB)	1
	CHEM 10059 or CHEM 10061	GENERAL CHEMISTRY FOR LIFE SCIENCES II or GENERAL CHEMISTRY II (KBS)	4
	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Foreign Language		4
	General Elective		3
		Credit Hours	**16**
	Semester Five		
	ANTH 38480 or ANTH 38490	ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) or QUANTITATIVE ANTHROPOLOGY	3
	BSCI 30140	CELL BIOLOGY	4
	Cultural Anthropology Elective		3
	General Electives		4
		Credit Hours	**14**
	Semester Six		
	ANTH 28300 or BSCI 30050 or BSCI 30156	INTRODUCTION TO FORENSIC GENETICS or HUMAN GENETICS or ELEMENTS OF GENETICS	3
	ANTH 38480 or ANTH 38490	ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) or QUANTITATIVE ANTHROPOLOGY	3
	Archaeology Elective		3
	General Electives		6
		Credit Hours	**15**
	Semester Seven		
	Anthropology (ANTH) Upper-Division Electives (30000 or 40000 level)		9
	Biology Elective		3-4
	General Elective		2
		Credit Hours	**14**
	Semester Eight		
	Anthropology (ANTH) Upper-Division Electives (30000 or 40000 level)		6
	Biological Anthropology Elective		3
	Biology Elective		3-4
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3

Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Acquire a foundational view of human cultures and an extensive knowledge base of diverse human behavior.
2. Demonstrate broad skills in social, physical and biological sciences.
3. Understand how social scientists think and apply their findings.

Graduates of the Archaeology concentration will be able to:

1. Learn how anthropologists investigate the past combining the methods of social and natural scientists.
2. Demonstrate comprehension of anthropology's special role in making archaeology (particularly the study of the ancient Americas) come to life and become relevant for them.
3. Gain a special appreciation of archaeology's other mandate — the need to conserve the precious heritage of the archaeological record, both in the New World and the Old World.
4. Demonstrate thorough knowledge of general chemistry and/or physics, fundamental mathematics, as well as specific areas of geology and geography.

Graduates of the Biological Anthropology concentration will be able to:

1. Demonstrate an understanding of biological anthropology as the most relevant evolution science, the one which gives them an appreciation of their place in nature.
2. See the two dimensions of human evolution and adaptation: a global one (modern human variation) and a deep temporal one (human origins). Both dimensions require an appreciation of the neo-Darwinian theory of evolution, which includes both the process of natural selection and the roles which genetics and developmental biology play.
3. Demonstrate thorough knowledge of general chemistry and fundamental mathematics, as well as specific areas in the biological sciences.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Anthropology is for students who wish to acquire in-depth training in archaeology and biological anthropology. The program is more structured in terms of course requirements than the B.A. degree in Anthropology and provides students with methods and theory that will prepare them for graduate school and future careers in the discipline.

The Anthropology major comprises the following concentrations:

- The **Archaeology** concentration provides students with in-depth training in analysis and field opportunities, as well as coursework in archeological theory and cultural ecology. The program emphasizes the interdisciplinary nature of archaeology. Students take courses in geography, geology and mathematics; and have the option of chemistry or physics courses, depending on interests and aspirations. The program features hands-on training using the latest technologies, including morphometric analysis, material properties testing, artifact replication, digital recording and mapping equipment. Areas of specialization include experimental archaeology, Old World Paleolithic archaeology and North American archaeology.
- The **Biological Anthropology** concentration trains students in aspects of evolutionary theory, human evolution and human variation. Coursework includes studies of living primates, their anatomy, behavior, ecology and conservation. Laboratory work for genetics, endocrinology, bone biology and neurobiology are available for undergraduate training. Additionally, the freshmen human evolution laboratory enhances the learning process in the biological aspects of human nature.

Anthropology - M.A.

College of Arts and Sciences
Department of Anthropology
www.kent.edu/anthropology

About This Program

The Master of Arts degree in Anthropology provides opportunities for students to study in three fields: cultural anthropology, archaeology and biological anthropology. The research-oriented program encourages students to develop their own projects or participate in existing projects by their second semester. More than 80 percent of M.A. graduates continue for the Ph.D. degree or find employment in an area directly related to their training.

Contact Information

- **Richard Meindl** | rmeindl@kent.edu | 330-672-4363
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Anthropologists and archeologists

- 5.2% faster than the average
- 8,000 number of jobs
- $66,130 potential earnings

Anthropology and archeology teachers, postsecondary

- 4.4% about as fast as the average
- 7,200 number of jobs
- $89,220 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: February 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ANTH 68230	PROBLEMS IN CULTURAL ANTHROPOLOGY (min B grade)	3
ANTH 68430	PROBLEMS IN WORLD PREHISTORY (min B grade)	3
ANTH 68630	PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY (min B grade)	3
Major Electives, choose from the following: [1]		21
BSCI 50220	BIOINFORMATICS	
BSCI 50431	NEUROENDOCRINOLOGY	
BSCI 50432	ENDOCRINOLOGY	
BSCI 50519	HORMONES AND BEHAVIOR	
BSCI 60200	FOUNDATIONS OF NEUROSCIENCE	
ESCI 54070	SEDIMENTOLOGY AND STRATIGRAPHY	
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE	
LIS 60700	FOUNDATIONS OF MUSEUM STUDIES	
Any Anthropology (ANTH) Graduate course (50000 or 60000 level)		
Culminating Experience		
ANTH 68199	THESIS I [2]	6
Minimum Total Credit Hours:		**36**

[1] Students are encouraged to select at least one course in either linguistics or statistics in consultation with their advisors. Students may be permitted to present a maximum 6 credit hours of coursework from outside of anthropology. The 6 credit hours, however, are expected to relate to the course of study being pursued (all cases will be considered on an individual basis, and outside courses must be selected in consultation with the advisor and the coordinator of graduate studies). Students wishing to take statistics or linguistics courses from outside of anthropology may be permitted to do so without those credit hours counting against their allotted 6 credit hours, in the event that the courses are not available within the department when they are needed.

[2] By the end of the first semester of graduate work, students should select two members of the graduate anthropology faculty, in addition to their principal advisor, to constitute a thesis committee. This committee must approve the thesis before it is submitted to the College of Arts and Sciences. Students should arrange for the appointment of this committee with the graduate coordinator for anthropology. See Graduation Requirements section below for more information.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Final Examinations

Formal final examinations are administered in ANTH 68230, ANTH 68430 and ANTH 68630. Students who do not pass these examinations (earning "Unsatisfactory") may be dismissed from the program. Students who do not earn a minimum B grade in these courses will be required to pass an appropriate additional examination. Students who earn less than a C grade in any of the courses cannot subsequently qualify for an M.A. degree in Anthropology.

Thesis Requirement

A completed written thesis must be unanimously approved as a work of professional caliber as to content and form by a thesis committee of three graduate faculty. This thesis will be defended orally by the student. The defense is not to be considered a mere formality. The committee may range beyond the actual content of the thesis to questions about concepts, methods, theories upon which the thesis is based and about the content of relevant studies included in the bibliography of the thesis.

In cases in which the faculty believe that a student's career would be better served by additional coursework rather than a thesis, 6 credit hours of additional coursework may be substituted for the thesis. The additional courses should compose an intensive investigation within the student's specialty. Permission for using the non-thesis option must be arranged through the graduate coordinator. In the very rare cases where a student is granted permission to use the non-thesis option, special written comprehensive examinations will be required.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a holistic view of human cultures. They are to appreciate that the global species is a social and cultural as well as a biological organism, with a past that is both historic and prehistoric. A student who wishes to emphasize socio-cultural anthropology will demonstrate a fundamental appreciation of diverse human and institutional behavior.
2. Appreciate and demonstrate how anthropologists investigate the past using the methods of the social sciences and the natural sciences, particularly geography and geology. They demonstrate comprehension of anthropology's special role in making archaeology(particularly the study of prehistoric Ohio, woodland North America and Mesoamerica) come to life and become relevant for them. In addition, they gain a special appreciation of archaeology's other mandate — the need to conserve the precious heritage of the archaeological record, not only Ohio's but that of the Americas and the Old World as well.
3. Demonstrate an understanding of biological anthropology as the most relevant evolution science, the one which gives them an appreciation of their own place in nature. They see the two dimensions of human evolution and adaptation: a global one (modern human variation) and a deep temporal one (human origins). Both dimensions require an appreciation of the neo-Darwinian theory of evolution, which includes both the process of natural selection and also the roles which genetics and developmental biology play in adaptation and evolution. They appreciate the urgency of primate and rainforest conservation.

Anthropology - Minor

College of Arts and Sciences
Department of Anthropology
www.kent.edu/anthropology

About This Program

The Anthropology minor gives students a strong liberal arts background combined with an awareness and understanding of ethnic and cultural differences and similarities—skills sought after by businesses worldwide.

Contact Information

- **Richard Meindl** | rmeindl@kent.edu | 330-672-4363
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Minor Electives, choose from the following:		6
ANTH 18210	INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS)	
ANTH 18420	INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	
ANTH 18630	HUMAN EVOLUTION (KBS)	
Anthropology (ANTH) Elective		3
Anthropology (ANTH) Upper-Division Electives (30000 or 40000 level)		9
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Forensic Anthropology - Minor

College of Arts and Sciences
Department of Anthropology
www.kent.edu/anthropology

About This Program

The Forensic Anthropology minor introduces students to analyses of skeletal remains, bodily fluids and DNA profiles associated with missing persons cases and violent crimes. Courses focus on the science of forensic anthropology and the presentation of such data in the courtroom.

Contact Information

- **Anthony Tosi, Ph.D.** | atosi@kent.edu | 330-672-5121
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ANTH 18230	INTRODUCTION TO FORENSIC ANTHROPOLOGY	3
ANTH 28300	INTRODUCTION TO FORENSIC GENETICS	3
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
Anthropology Electives, choose from the following:		6
ANTH 38789	FACES: HUMAN HEAD ANATOMY WITH A FORENSIC ART FOCUS (DIVG) (ELR)	
ANTH 48092	FORENSIC ARCHAEOLOGY FIELD SCHOOL (ELR)	
ANTH 48225	ARCHAEOLOGY OF DEATH (ELR) (WIC)	
ANTH 48300	ADVANCED FORENSIC GENETICS	
ANTH 48550	FORENSIC SCIENCE IN THE COURTROOM	
ANTH 48820	HUMAN MUSCULO-SKELETAL SYSTEM	
Criminology and Justice Studies Elective, choose from the following:		3
CRIM 22301	THE INVESTIGATIVE PROCESS	
CRIM 33200	CRIMINAL LAW	
CRIM 34200	CRIMINAL PROCEDURES AND EVIDENCE	
CRIM 46200	CURRENT CONTROVERSIAL LEGAL ISSUES	
CRIM 47211	COURT FUNCTIONS	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Gain an understanding of basic forensic anthropological techniques and biological processes relevant to death investigations, including a working knowledge of bone biology and body decomposition.
2. Learn the workflow of forensic DNA laboratories, beginning with evidence examination, continuing through the benchwork steps of DNA analysis and ending with statistical evaluation.
3. Become familiar with courtroom procedures, specifically those relevant to criminal cases that include biological evidence, and deliver related testimony as they develop an understanding of the responsibilities and privileges of an expert witness.

Medical Anthropology - Minor

College of Arts and Sciences
Department of Anthropology
www.kent.edu/anthropology

About This Program

Explore the intersection of anthropology and medicine with Kent State's Medical Anthropology minor. Gain insight into how culture, health and healing are intertwined and prepare for a career in healthcare or social services. Read more...

Contact Information

- **Richard Meindl** | rmeindl@kent.edu | 330-672-4363
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

The Medical Anthropology minor is not accepting students at this time.

Admission Requirements

The Medical Anthropology minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ANTH 18210	INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS)	3
ANTH 18630	HUMAN EVOLUTION (KBS)	3
ANTH 48250	MEDICAL ANTHROPOLOGY (DIVG)	3
Anthropology Elective, choose from the following:		3
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
ANTH 48245	PSYCHOLOGICAL ANTHROPOLOGY (DIVG)	
ANTH 48623	HUMAN VARIATION	
ANTH 48820	HUMAN MUSCULO-SKELETAL SYSTEM	
Minor Electives, choose from the following		6
GEOG 42052	HEALTH GEOGRAPHY	
GEOG 49072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
HIST 31550	MEDICINE IN THE MODERN WORLD SINCE 1500	
PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	
PH 20001	ESSENTIALS OF EPIDEMIOLOGY	
PH 22001	PLAGUES AND PANDEMICS: HOW INFECTION SHAPED CULTURE AND HISTORY	
PSYC 31532	SOCIAL PSYCHOLOGY	
PSYC 41364	DRUGS AND BEHAVIOR	
SOC 22570	UNDERSTANDING DIFFERENCES AND INEQUALITY	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
SOC 42010	DEATH AND DYING	
SOC 42400	SELF AND IDENTITY	
SOC 42562	SOCIOLOGY OF MENTAL ILLNESS	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Full Description

The Medical Anthropology minor is attractive to any student in nursing, pre-med, public health, psychology and related disciplines. It is designed to give students the skills needed to provide culturally sensitive and effective health care.

Medical Anthropology is the fastest growing sub-discipline of anthropology with a variety of applications. It is a broad field that includes medical and psychiatric anthropology, global health, disability, social suffering, humanitarianism, death and dying, caregiving, public health, medical ethics, human rights and medical humanities.

Department of Biological Sciences

College of Arts and Sciences
Department of Biological Sciences
256 Cunningham Hall
Kent Campus
330-672-3613
kentbiology@kent.edu
www.kent.edu/biology

Undergraduate Programs

- Biology - B.A.
- Biology - B.S.
- Biotechnology - B.S.
- Environmental and Conservation Biology - B.S.
- Medical Laboratory Science - B.S.
- Neuroscience - B.S.
- Plant Biology - B.S.
- Zoology - B.S.

Minors

- Biological Sciences
- Biology for Environmental Management and Conservation
- Human Disease
- Microbiology

Graduate Programs

- Biological Sciences - Cell Biology and Molecular Genetics - M.S.
- Biological Sciences - Cell Biology and Molecular Genetics - Ph.D.
- Biological Sciences - Ecology and Evolutionary Biology - M.S.
- Biological Sciences - Ecology and Evolutionary Biology - Ph.D.
- Biological Sciences - Integrative Physiology and Neurobiology - M.S.
- Biological Sciences - Integrative Physiology and Neurobiology - Ph.D.
- Biology - M.A.

Department of Biological Sciences Faculty

- Bade, Darren L. (2006), Associate Professor, Ph.D., University of Wisconsin, 2004
- Bagavandoss, Paul (1993), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1986
- Bahlai, Christine (2017), Associate Professor, Ph.D., University Of Guelph, 2012
- Bailey, Erin L. (2012), Associate Professor, Ph.D., Kent State University, 2001
- Bedont, Joseph L. (2023), Assistant Professor, Ph.D., The Johns Hopkins University, 2016

- Caldwell, Heather K. (2007), Professor, Ph.D., Georgia State University, 2004
- Chung, Wilson C. (2011), Associate Professor, Ph.D., University of Amsterdam, 2003
- Clements, Robert J. (1997), Associate Professor, Ph.D., Kent State University, 2004
- Costello, David M. (2014), Associate Professor, Ph.D., University of Notre Dame, 2010
- De Szalay, Ferenc A. (1997), Associate Professor, Ph.D., University of California-Berkeley, 1995
- Delorme, Thierry A. (2004), Associate Professor, Ph.D., University of Lyon, 1997
- Ding, Qunxing (2007), Associate Professor, Ph.D., Beijing University of Agriculture , 1994
- Eichler, Sarah E. (2019), Assistant Professor, Ph.D., University of Tennessee, Knoxville
- Eisermann, Kurtis (2002), Assistant Professor, Ph.D., Kent State University, 2011
- Engohang-Ndong, Jean (2010), Professor
- Gerbig, Donald G. (1996), Associate Professor, Ph.D., University of Tennessee-Knoxville, 1991
- Grafton, Brian W. (1994), Professor, Ph.D., Kent State University, 2004
- Groff, Chi-Hua (2009), Associate Professor, Ph.D., Wayne State University, 1997
- Gupta, Sanhita (2009), Professor, Ph.D., Case Western Reserve University, 1998
- Hamilton, Robert (2005), Associate Professor, Ph.D., Rutgers, State University of New Jersey, 2006
- Hegmann, Elda (2011), Associate Professor, Ph.D., Laval University, 2003
- Hoeh, Walter R. (1998), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1991
- Johnson, John D. (2007), Professor, Ph.D., University of Colorado-Boulder, 2002
- Kershner, Mark W. (1999), Associate Professor, Ph.D., The Ohio State University, 1998
- Kim, Min-Ho (2012), Associate Professor, Ph.D., University of Toledo, 2002
- Kim, Woo-Yang (2018), Associate Professor, Ph.D., University at Buffalo-SUNY, 2004
- Kinsman-Costello, Lauren E. (2013), Associate Professor, Ph.D., Michigan State University, 2012
- Kooijman, Edgar (1998), Professor, Ph.D., Utrecht University, 2006
- Koski, Gary K. (2010), Professor, Ph.D., Johns Hopkins University, 1995
- Kurokawa, Manabu (2017), Associate Professor, Ph.D., University of Massachusetts-Amherst, 2004
- Lamichhaney, Sangeet (2019), Assistant Professor, Ph.D., Uppsala University, 2016
- Leff, Adam A. (1994), Associate Professor, D.V.M., University of Georgia, 1991
- Leff, Laura G. (1994), Professor, Ph.D., University of Georgia, 1992
- Lehman, Michael N. (2019), Professor
- Lehnert, Matthew S. (2012), Professor, Ph.D., University of Florida, 2010
- Lovell, John A. (1995), Associate Professor, Ph.D., Kent State University, 1993
- McDonough, Jennifer A. (2006), Associate Professor
- Meek, Leah M. (1995), Senior Lecturer, Youngstown State University
- Mintz, Eric M. (2002), Professor, Ph.D., University of California-Santa Cruz, 1995
- Model, Michael A. (2004), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1995
- Moore, Aleisha M. (2019), Assistant Professor, Ph.D., University of Otago, 2015
- Mou, Xiaozhen (2008), Professor, Ph.D., University of Georgia, 2006
- Mueller, Devin (2018), Professor, Ph.D., Concordia University, 2005
- Novak-Barnett, Colleen M. (2009), Professor, Ph.D., Michigan State University, 1999
- Piet, Richard (2019), Assistant Professor, Univ De Bordeaux, 2003
- Piontkivska, Olena (2005), Professor, Ph.D., Pennsylvania State University, 2003
- Popescu, Daniela C. (2013), Associate Professor, Ph.D., Vanderbilt University, 2006
- Qutob, Dinah S. (2018), Assistant Professor, Ph.D., University Of Western Ontario, 2002
- Redfearn, James C. (2006), Associate Professor, Ph.D., Kent State University, 2016
- Rocha, Oscar J. (2004), Professor, Ph.D., Penn State University, 1990
- Russell, Mary A. (2003), Professor, Ph.D., The Ohio State University, 1996
- Smith, Gregory A. (2014), Associate Professor, Ph.D., University of Oklahoma, 2007
- Steele, Louise (2012), Associate Professor, Ph.D., Case Western Reserve University, 2002
- Stone, Jonathan F. (2003), Associate Professor, B.S., University of Akron, 1985
- Trevelline, Brian (2023), Assistant Professor, Ph.D., Duquesne University, 2017
- Vash, Sarah R. (2004), Senior Lecturer, M.S., Kent State University, 2003
- Veney, Sean L. (2004), Associate Professor, Ph.D., University of Virginia-Main Campus, 2000
- Ward, David (2015), Professor, Ph.D., University of KwaZulu-Natal, 1988
- Zhu, Haiyan (2010), Associate Professor, Ph.D., University of Kentucky, 2006

Biological Sciences (BSCI)

BSCI 10001 HUMAN BIOLOGY (KBS) 3 Credit Hours
Study of the scientific method and life's properties, emphasizing human biology. Topics include energy, genetics, reproduction, development disease, nutrition and physical fitness in humans. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

BSCI 10002 LIFE ON PLANET EARTH (KBS) 3 Credit Hours
Explores the fascinating breadth of life on Earth including the unique ecology and survival strategies of animals, plants and microbes in their natural habitats. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

BSCI 10003 LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB) 1 Credit Hour
Introductory college-level laboratory in biology for non-majors. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Pre/corequisite: BSCI 10001 or BSCI 10002.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

BSCI 10005 SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS 4 Credit Hours
Identification of anatomy and basic physiological functions of domestic small animals: skeletal, muscles, integumentary, special sense organs, respiratory, digestive, urinary, reproductive, endocrine, nerves, circulatory and immune. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 10110 BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB) 4 Credit Hours
This introductory course examines the biodiversity of life from its origins to present day, including the evolution, ecology, behavior, form, function and reproduction of major groups of organisms. Students must earn a final grade of at least C- in order to meet prerequisites for selected upper-division BSCI courses.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

BSCI 10120 BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB) 4 Credit Hours
This introductory course examines the organization of life from subcellular biochemistry and molecular biology, to genetics, bioenergetics and system homeostasis. Three hours of lecture and three hours of lab weekly. Students must earn a final grade of at least C- in order to meet prerequisites for selected upper-division BSCI courses.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

BSCI 10195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) Selected subjects and/or themes in biology.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 3 Credit Hours
Anatomy and physiology to include organization of the human body, cells, tissues, organs and systems; integumentary, skeletal, muscular and respiratory systems; and overviews of the nervous and circulatory system. This course is taught on Kent State's regional campuses for associate degree programs. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

BSCI 11020 FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 3 Credit Hours
Anatomy and physiology of the circulatory, digestive, urinary, nervous, endocrine and reproductive systems. This course is taught on Kent State's regional campuses for associate degree programs. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 11010; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

BSCI 16001 HORTICULTURAL BOTANY 3 Credit Hours
Provides students with an understanding of the basic anatomy and physiology and growth characteristics of plants. Offered only at the Geauga and Salem campuses. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 20019 BIOLOGICAL STRUCTURE AND FUNCTION 4 Credit Hours
Basic design of human systems emphasizing the physiochemical and cellular bases of organ-system structure, function and development. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 20021 BASIC MICROBIOLOGY 3 Credit Hours
Principles of microorganisms having a direct relationship on the health and well-being of humans. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: ATTR 25057 or BSCI 10005 or BSCI 11010 or BSCI 20019 or BSCI 21010 or EXSC 25057; and CHEM 10050 or CHEM 10055 or CHEM 10058 or CHEM 10060 or CHEM 11060 or NRST 10014.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 20022 BASIC MICROBIOLOGY LABORATORY 1 Credit Hour
Laboratory experience in microbiology. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Corequisite: BSCI 20021.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

BSCI 20195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) Selected subjects and/or themes in Biology.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BSCI 20196 INTRODUCTION TO INDIVIDUAL INVESTIGATION 1-2 Credit Hours
(Repeatable for credit)Introduction to research in the biological sciences under the direction of a BSCI faculty mentor.
Prerequisite: Minimum C grade in 8 hours of BSCI courses; and departmental and faculty mentor approvals required.
Schedule Type: Individual Investigation
Contact Hours: 1-2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours
Anatomy, physiological chemistry, cytology, tissues and homeostatic mechanisms of the integumentary, skeletal, nervous, muscular and sensory systems. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

BSCI 21020 ANATOMY AND PHYSIOLOGY II 4 Credit Hours
Anatomy and physiological processes as related to the following organ systems: endocrine, circulatory, respiratory, digestive, urinary and reproductive. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 21010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: TAG Science

BSCI 26002 ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT 3 Credit Hours
Basic principles of integrated pest management, pesticide application, pest identification and environmental effects. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 16001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 26003 PLANT IDENTIFICATION AND SELECTION I 3 Credit Hours
Identification and selection of horticulturally important plant species. Emphasis on woody species, shrubs and trees. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 16001 and HORT 16003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 26004 PLANT IDENTIFICATION AND SELECTION II 3 Credit Hours
Identification and selection of horticulturally important plant species. Emphasis on herbaceous species, ground covers and vines. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: BSCI 16001 and HORT 16003.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30050 HUMAN GENETICS 3 Credit Hours
Modern concepts of genetics applicable to the human including examination of genetically related diseases and their societal implications. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: Minimum 8 credit hours of Biology (BSCI) courses; and 3 credit hours of Chemistry (CHEM) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30100 NEUROSCIENCE I 3 Credit Hours
(Cross-listed with NEUR 30100) Neuroscience I will cover basic principles in neuroscience from the cellular to systems levels. After completion of the course, students will have a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems, and motor pathways.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour
Orients students toward various career pathways in the biological sciences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 30130 HUMAN PHYSIOLOGY 3 Credit Hours
Integrating mechanisms, pharmacological and pathological considerations for selected organ systems.
Prerequisite: Minimum C- grade in BSCI 20019 (or BSCI 10110 and BSCI 10120); and 4 credit hours of chemistry (CHEM) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30140 CELL BIOLOGY 4 Credit Hours
Investigation of the cell as the fundamental unit of life with an emphasis on the relationship between cellular structure and function.
Prerequisite: Minimum C- grade in the following courses: BSCI 10120; and CHEM 10058 or CHEM 10060 or CHEM 11060; and CHEM 10062.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30156 ELEMENTS OF GENETICS 3 Credit Hours
Principles of organic mechanisms for expression and transmission of traits as studied in molecules, cells, organisms and populations.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and 10120; and MATH 10675 or MATH 10775 or MATH 11010 or MATH 11022 or MATH 12002 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

BSCI 30157 GENETICS LABORATORY 1 Credit Hour
Consists of hands-on experiments with modern computational and molecular biology experimental approaches.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Corequisite: BSCI 30156.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

BSCI 30158 READINGS IN GENETICS 1 Credit Hour
This course emphasizes principles covered in elements of genetics.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Corequisite: BSCI 30156.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 30171 GENERAL MICROBIOLOGY 4 Credit Hours
Fundamental principles of microbiology and organisms including their structure, physiology, genetics, pathogenicity, classification, mechanisms of cultivation and control.
Prerequisite: Minimum C- grade in the following courses: BSCI 10110 and BSCI 30140; and CHEM 10058 or CHEM 10060 or CHEM 11060; and CHEM 10059 or CHEM 10061; and CHEM 10062 and CHEM 10063.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30189 SCIENTIFIC INQUIRY AND OBSERVATION OF THE NATURAL WORLD (DIVG) (ELR) 3 Credit Hours
This course offers the overview of scientific inquiry and methods used in biological and biomedical sciences, using the wealth of biological resources available in Florence. Students actively explore these resources through field trips to biology-related lab sites, visits to science museums and walking tours of relevant sites.
Prerequisite: Special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BSCI 30200 NEUROSCIENCE II 3 Credit Hours
(Cross-listed with NEUR 30200) The course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. The course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control, and higher-order cognitive functioning.
Prerequisite: NEUR 30100 or BSCI 30100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30267 PLANT PHYSIOLOGY 4 Credit Hours
Introduction to biochemical processes in plants and plant cells and how plants grow and maintain their bodies through dynamic interactions with the environment.
Prerequisite: Minimum C- grade in the following courses: BSCI 10110 or BSCI 10120; and CHEM 10058 or CHEM 10060 or CHEM 11060; and CHEM 10062.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30270 GENERAL PLANT BIOLOGY 3 Credit Hours
Covers all topics in modern plant biology, including molecular and cellular biology, physiology, anatomy, development, ecology, evolution and diversity.
Prerequisite: Minimum C- grades in BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30271 GENERAL PLANT BIOLOGY LABORATORY 1 Credit Hour
Laboratory and greenhouse exercises in general plant biology.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Corequisite: BSCI 30270.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

BSCI 30274 FORESTRY 3 Credit Hours
Management of the forest resource within appropriate environmental constraints for sustained use relative to watershed protection, lumber production, recreation and wildlife.
Prerequisite: Minimum C- grade in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30275 LOCAL FLORA (ELR) 4 Credit Hours
Identification and field study of local plants: native, naturalized and cultivated.
Prerequisite: BSCI 10110 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 30277 ECONOMIC BOTANY 3 Credit Hours
Economic botany is the scientific study of plants that are important to humans.It considers how plants are used and how plants have shaped up past and modern cultural development.
Prerequisite: Minimum C- grades in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour
(Cross-listed with NEUR 30300) Accompanying laboratory course to NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception.
Prerequisite: Minimum C grade in NEUR 30100 or BSCI 30100.
Pre/corequisite: NEUR 30200 or BSCI 30200.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

BSCI 30360 GENERAL ECOLOGY 4 Credit Hours
Principles of ecology based on field studies of local plant and animal communities.
Prerequisite: BSCI 10110 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30361 BIOGEOGRAPHY 3 Credit Hours
Geographical distribution of biotic communities with special reference to North America and to their environmental control.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30362 INTRODUCTION TO BIOLOGY OF THE TROPICS 3 Credit Hours
Biology and conservation of tropical ecosystems and organisms.
Prerequisite: Minimum C- grade in BSCI 10110; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30370 CLIMATE CHANGE BIOLOGY 3 Credit Hours
This course focuses on the biological impacts of climate change. It includes background on the issue of the biological consequences of climate change, as well as the history of research, current impacts and projected changes discussed in the Inter-Governmental Panel on Climate Change report, and the controversies of climate-change skeptics. It also includes the biogeochemistry of climate change effects on biology, climate change, and biological interactions, vector-borne infectious diseases, rates of evolution, and Great Lakes biology.
Prerequisite: Minimum C- grade in BSCI 10110; or ENVS 22070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30517 HUMAN ANATOMY 4 Credit Hours
An intensive investigation of the anatomy and development of the human body.
Prerequisite: Senior standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30518 VERTEBRATE ANATOMY 4 Credit Hours
Concepts and methods of functional morphology. Comparative study of vertebrate organs and systems: skeletal, muscular, digestive, respiratory, circulatory, urogenital, nervous and endocrine.
Prerequisite: BSCI 10110 or BSCI 10120 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30520 INTRODUCTION TO NEUROSCIENCE 3 Credit Hours
Basic principles in neuroscience from the cellular to systems level. Covers how the nervous system is organized, how it detects sensory stimuli to create a mental representation of their environment and output pathways by which the nervous system can control movement, hormone levels and physiological processes.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 30560 INVERTEBRATE ZOOLOGY 4 Credit Hours
Survey of the animal kingdom emphasizing evolutionary developments.
Prerequisite: BSCI 10110 and BSCI 10120 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30580 ENTOMOLOGY 4 Credit Hours
Classification, biology and ecology of the principal groups of insects.
Prerequisite: BSCI 10110 and BSCI 10120 with a minimum C- grade; and 10 credit hours of Biological Sciences (BIOL) courses.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30582 ORNITHOLOGY 4 Credit Hours
Field study of the natural history of local birds.
Prerequisite: BSCI 10110 and BSCI 10120 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 30789 FEASTS AND PLAGUES: THE SCIENCE OF ITALIAN FOOD, WINE AND DISEASE - INTERNATIONAL EXPERIENCE (DIVG) (ELR) 3 Credit Hours
This course explores the microbial mechanisms responsible for plagues such as the Black Death as well as for their positive roles in food and wine production. These costs and benefits are explored in Florence, Italy, since each is ingrained in the city's history, culture, art and biology. Course activities include food and wine tastings and field trips to historical sites and museums in Florence and Siena. This course is designed to appeal to students with a wide array of interests in human health and society. Students analyze genomes of microbes responsible for human disease; discuss ecological and biological factors associated with disease transmission; construct cemetery life tables; discuss the impacts of disease on Italian art, architecture and culture; master knowledge of the fermentation process; and compare and contrast the microbiomes and environments of vineyards in Tuscany vs. California.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BSCI 30889 BEAUTY AND THE BRAIN: EXPLORING FLORENCE THROUGH THE SENSES (DIVG) (ELR) 3 Credit Hours
(Cross-listed with NEUR 30889) This is an introductory sensory neuroscience course for undergraduate students. By exploring the sensory richness of Florence, Italy, students delve into the biology of their sensory systems. Through a combination of field trips, laboratory exercises, lectures and presentations, students learn how our sensory systems function to change diverse environmental signals into information that can be interpreted by the brain. Site visits are used to highlight specific sensory systems and laboratories/lectures provide the conceptual framework. Together, these experiences lay the foundation for students' understanding of vision, taste, smell, touch and hearing in the unique environment of Florence, Italy.
Prerequisite: Special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BSCI 40020 BIOLOGY OF AGING 3 Credit Hours
(Slashed with BSCI 50020) Course covers theories of aging and the normal aging process, dysfunction, and diseases of the elderly categorized by body systems and how nutrition and exercise can offset those changes. This course may not be used to fulfill major or minor requirements in the following programs: B.A. Biology, B.S. Biology, B.S. Biotechnology, B.S. Environmental and Conservation Biology, B.S. Medical Laboratory Science, B.S. Plant Biology, B.S. Zoology and the Biological Sciences minor.
Prerequisite: (ATTR 25057 and ATTR 25058) or BSCI 10001 or (BSCI 11010 and BSCI 11020) or BSCI 20019 or (BSCI 21010 and BSCI 21020) or (EXSC 25057 and EXSC 25058).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40104 INTRODUCTION TO BEEKEEPING 2 Credit Hours
(Slashed with BSCI 50104) Covers basic beekeeping practices and provides students with an in-depth understanding of the honey bee colony through participation in hands-on activities, observation and experimentation.
Prerequisite: BSCI 10110 and 10120 with minimum C- grades; and junior or senior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 40141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 50141 and BSCI 70141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.
Prerequisite: BSCI 30156 and BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40142 BIOENERGETICS 3 Credit Hours
(Slashed with BSCI 50142 and BSCI 70142) Lecture and discussion of respiration and photosynthesis, their origin, development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.
Prerequisite: BSCI 30140 and CHEM 20481 or 30481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours
(Slashed with BSCI 50143 and BSCI 70143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology.
Prerequisite: BSCI 30140; and BSCI 30156 or CHEM 20481 or CHEM 30481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40146 DEVELOPMENTAL BIOLOGY 3 Credit Hours
(Slashed with BSCI 50146 and BSCI 70146) Fundamental concepts and paradigms of development as exemplified by major model organisms. Examines our modern understanding of the molecular, cellular and genetic basis of developmental biology.
Prerequisite: BSCI 30156 with a minimum C grade; and 6 additional credit hours of Biological Sciences (BIOL) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours
(Slashed with BSCI 50147 and BSCI 70147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.
Prerequisite: BSCI 30140; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours
(Slashed with BSCI 50148 and BSCI 70148) Basic principles of infectious disease with emphasis on major human pathogens, including protozoa, bacteria and viruses. Topics include infection establishment, spread within the host, pathology, immunity and host behavior.
Prerequisite: BSCI 30171 and CHEM 10061 and CHEM 10062 and CHEM 10063; and CHEM 10060 or CHEM 11060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours
(Slashed with BSCI 50150 and BSCI 70150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.
Prerequisite: BSCI 30156 and BSCI 30140; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours
(Slashed with BSCI 50151 and BSCI 70151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.
Prerequisite: BSCI 21010 or BSCI 30130 or (BSCI 30140 and NEUR 30100) or BSCI 40430; and BSCI 10120 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours
(Slashed with BSCI 50152 and BSCI 70152) Major concepts and theoretical principles underlying neurological disorders.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours
(Slashed with BSCI 50154 and BSCI 70154) Physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.
Prerequisite: BSCI 40430; or BSCI 30140 and BSCI 30130.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours
(Slashed with BSCI 50157 and BSCI 70157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.
Prerequisite: Minimum C- grades in BSCI 10110 and BSCI 10120; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40158 MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 50158 and BSCI 70158) Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.
Prerequisite: BSCI 30140 and BSCI 30156.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40159 MOLECULAR BIOLOGY LABORATORY (ELR) (WIC) 3 Credit Hours
(Slashed with BSCI 50159 and BSCI 70159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.
Prerequisite: BSCI 30140 and BSCI 30156.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

BSCI 40160 MARINE BIOLOGY 3 Credit Hours
(Slashed with BSCI 50160 and BSCI 70160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40162 SOIL BIOLOGY 3 Credit Hours
(Slashed with BSCI 50162 and BSCI 70162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40163 EVOLUTION 3 Credit Hours
(Slashed with BSCI 50163 and BSCI 70163) History of evolutionary theory, the evidences of evolution, the evolutionary forces and the products of these forces. Lecture three hours weekly.
Prerequisite: BSCI 30156; and 4 credit hours of Biological Sciences (BSCI) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours
(Slashed with BSCI 50166 and BSCI 70166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 40170 STREAM BIOLOGY 3 Credit Hours
(Slashed with BSCI 50170 and BSCI 70170) This course explores the physical, chemical and biological aspects of flowing water ecosystems. We cover topics across many levels of biological organization (individual organisms to communities) and broad geographic extents (habitat patches to global cycles), and process these ranges from simple to complex. The lecture covers basic concepts and the lab supports these concepts with field and lab measurements. The course culminates with independent projects that explore current issues related to human impacts on streams.
Prerequisite: BSCI 10110 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 40174 IMMUNOLOGY 3 Credit Hours
(Slashed with BSCI 50174 and BSCI 70174) This course covers innate and adaptive immune recognition and response, generation of diversity in antigen receptors of T cells and B cells, lymphocyte development and T cell activation and regulation pathways. It also covers immune resistance to infection, mechanisms of allergic responses, autoimmune disease, tissue and organ transplantation and cancer immunology.
Prerequisite: BSCI 30171 and CHEM 10061 and CHEM 10062 and CHEM 10063; and CHEM 10058 or CHEM 10060 or CHEM 11060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40191 SENIOR SEMINAR 1 Credit Hour
(Repeatable for credit)A capstone seminar course to examine biological topics and scientific contributions across subdisciplines. Discussion of current problems in the biological sciences related to societal needs and concerns.
Prerequisite: Biology major; and senior standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 40192 INTERNSHIP IN BIOLOGICAL SCIENCES (ELR) 3-12 Credit Hours
(Repeatable for credit) Work experience and training in the biological sciences under the supervision of appropriate personnel in a government agency, nonprofit organization or business. Maximum of 4 credit hours to count toward BSCI degrees as upper division elective hours.
Prerequisite: 18 hours of Biology; and 2.750 minimum overall GPA in Biology coursework; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 50195 and BSCI 70195) Special topics in biology.
Prerequisite: 18 hours of Biology coursework; and special approval of instructor.
Schedule Type: Laboratory, Lecture
Contact Hours: 1-3 lecture, 2-6 lab
Grade Mode: Standard Letter-IP

BSCI 40196 INDIVIDUAL INVESTIGATION (ELR) 1-3 Credit Hours
(Repeatable for credit) Research study under the direction of a BSCI faculty mentor. May be repeated; however, a maximum of 6 credit hours count toward BSCI degrees as upper-division elective hours.
Prerequisite: A minimum BSCI grade average of 2.750; and at least 18 credit hours of BSCI coursework; and departmental and faculty mentor approvals required.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

BSCI 40199 SENIOR HONORS THESIS (ELR) 1-9 Credit Hours
(Repeatable for credit) Honors thesis research project completed during the senior year with BSCI faculty mentor and research committee. Maximum of 4 credit hours to count toward BSCI degrees as upper division elective hours.
Prerequisite: Departmental faculty mentor; and honors college approval.
Schedule Type: Project or Capstone
Contact Hours: 1-9 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

BSCI 40218 INTRODUCTION TO GENOMICS 3 Credit Hours
(Slashed with BSCI 50218 and BSCI 70218) This course provides an introduction to the structure, organization and function of genomes as well as technological approaches to sequencing and analyzing genomes. Students will explore the application of genomic tools to real-world problems, such as developing sustainable food and fuel supplies, improving disease treatment, understanding biodiversity and protecting the environment.
Prerequisite: Minimum C- grade in BSCI 10110 and BSCI 10120.
Pre/corequisite: BSCI 30156.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40220 BIOINFORMATICS 3 Credit Hours
(Cross-listed with BTEC 40220) (Slashed with BSCI 50220 and BSCI 70220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics and protein structure analysis.
Prerequisite: BSCI 30140 and BSCI 30156 and BSCI 40158.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40221 ECOLOGICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 50221 and BSCI 70221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic and metatranscriptomic data.
Prerequisite: BSCI 30140; and BSCI 30156; and BSCI 30360.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40222 INVASION BIOLOGY 3 Credit Hours
(Slashed with BSCI 50222 and BSCI 70222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.
Prerequisite: BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40224 QUANTITATIVE METHODS IN BIOLOGY 4 Credit Hours
Introduction to the quantitative skills required of practicing biologists (experimental design, graphing, inference, and management of biological data). Real data from biological studies will be used to address fundamental questions in the biological sciences. Laboratory exercises will give experience with spreadsheet and statistical software used by practicing biologists.
Prerequisite: Minimum C- grade in BSCI 10110 or BSCI 10120; and minimum 55 ALEKS math score, or MATH 10675 or MATH 10775 or MATH 11010 with minimum C- grade.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 40242 SEMINAR ON MEDICAL PRACTICE FOR UNDERSERVED POPULATIONS 2 Credit Hours
(Slashed with BSCI 50242). Course will introduce students to primary care and medical practice in rural and urban settings. Physicians and other healthcare practitioners from rural and urban settings will serve as invited speakers in this seminar. Preference for registration will be given to students following the Baccalaureate-MD program with junior standing and minimum 3.500 overall GPA.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 40270 PLANT ECOLOGY 3 Credit Hours
(Slashed with BSCI 50270 and BSCI 70270) Develop knowledge of plant ecology. Learn about the abiotic and biotic effects of plant ecology. Differentiate among population ecology, metapopulation ecology and community ecology as it applies to plants. Use stage-structured population models to understand population dynamics. Learn about resource-ratio models as they apply to plant competition. Study the patterns and mechanisms of succession. BSCI 30360 and/or any courses covering plant science are recommended prior to taking this course.
Prerequisite: BSCI 10110 and BSCI 10120 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40272 PLANT ANATOMY 4 Credit Hours
(Slashed with BSCI 50272 and BSCI 70272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, lab six hours weekly.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 40273 INTRODUCTION TO MYCOLOGY 3 Credit Hours
(Slashed with BSCI 50273 and BSCI 70273) Introduces key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40274 PLANT COMMUNITIES OF OHIO 3 Credit Hours
(Slashed with BSCI 50274 and BSCI 70274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40292 INTERNSHIP IN PRIMARY CARE FOR THE UNDERSERVED (ELR) 2 Credit Hours
Students are placed in internships in urban or rural healthcare settings. Registration preference will be given to students following the Baccalaureate/M.D. pathway and who have junior standing and a minimum 3.500 overall GPA.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours
(Slashed with BSCI 50341 and BSCI 70341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40360 ICHTHYOLOGY 4 Credit Hours
Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 40363 MICROBIAL ECOLOGY 3 Credit Hours
(Slashed with BSCI 50363 and BSCI 70363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; biochemical cycles; current techniques; emphasis on bacteria in aquatic systems.
Prerequisite: BSCI 30171 or BSCI 30360.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

BSCI 40364 LIMNOLOGY 3 Credit Hours
(Slashed with BSCI 50364 and BSCI 70364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.
Prerequisite: BSCI 30360.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40365 FIELD METHODS IN ORNITHOLOGY (ELR) 3 Credit Hours
(Slashed with BSCI 50365 and BSCI 70365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.
Prerequisite: Minimum C- grade in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40368 WETLAND ECOLOGY AND MANAGEMENT (ELR) 4 Credit Hours
(Slashed with BSCI 50368 and BSCI 70368) Lecture, laboratory and field study of the principles of wetland ecology, including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management.
Prerequisite: BSCI 10110 with a minimum C- grade; and 4 credit hours of Biological Sciences (BSCI) courses.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40374 CONSERVATION BIOLOGY (ELR) 4 Credit Hours
(Slashed with BSCI 50374 and BSCI 70374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.
Prerequisite: BSCI 30360.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 50375 and BSCI 70375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.
Prerequisite: BSCI 30360.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 40376 TROPICAL FIELD BIOLOGY AND CONSERVATION (ELR) 5 Credit Hours
(Slashed with BSCI 50376 and BSCI 70376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; junior or senior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 6 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40377 PREPARATION FOR FIELD COURSE TO SOUTH AFRICA 1 Credit Hour
(Slashed with BSCI 50377 and BSCI 70377) Introduction to major issues in field ecology and conservation in South Africa, including the threats to the biological diversity of subtropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses. Three major biomes in South Africa will be studied: the savanna, the fynbos (macchia) and Succulent Karoo (= Cape Floral Kingdom.) Lectures will focus on the geography and history of South Africa, as well as introductions to the major South African biomes. Students will design field projects targeted to South African biomes.
Prerequisite: BSCI 10110 with a minimum C- grade; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture, 0 lab, 0 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 40378 FIELD COURSE TO SOUTH AFRICA (ELR) 4 Credit Hours
(Slashed with BSCI 50378 and BSCI 70378) This course covers all steps of the development and implementation of field-based research in South African environments, including design and analysis. Students write a report, present their research, apply data management and statistical tests appropriate for field courses (including contingency tables, basic t-tests, ANOVA and regression techniques) and develop scientific graphs and figures.
Prerequisite: BSCI 40377.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40380 BIOGEOCHEMISTRY 3 Credit Hours
(Cross-listed with ESCI 40380)(Slashed with BSCI 50380, BSCI 70380 and ESCI 50380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Minimum C grade in the following courses: (BSCI 10110 and BSCI 10120) or (ESCI 11041 or ESCI 11043); and (CHEM 10058 or CHEM 10060) and CHEM 10062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40385 CURRENT TOPICS IN NEUROSCIENCE 3 Credit Hours
(Cross-listed with NEUR 40385)(Slashed with BSCI 50385 and BSCI 70385) This is a discussion- and readings-based course that focuses on cellular and molecular mechanisms underpinning functions of the central nervous system. Topics covered include synaptic plasticity; neuron-glia interactions; gene-environment interactions involved in learning, memory and disease; big data in neuroscience; and more. During this course, students develop knowledge and understanding of communication between brain cells; how gene-environment interactions impact learning and memory, behavior and disease; and modern techniques used in neuroscience research. Students read, summarize and discuss primary research papers in the context of neuroscience-related topics.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40389 ECOLOGY AND NATURAL HISTORY OF MEDITERRANEAN ECOSYSTEMS (DIVG) (ELR) 3 Credit Hours
The Mediterranean basin is a hotspot of diversity made of plant and animal species adapted to survive to hot dry summers and cool wet winters. The origin and drivers of the today's Mediterranean diversity will be examined through this course, and the ecology of this biome will be investigated through textbooks, videos and up-to-date research papers. Impacts of climate change and of human-practices will be considered both on terrestrial and marine ecosystems to give a wide view of the ongoing processes in the considered habitats and conservation strategies will be critically analyzed through discussion.
Prerequisite: BSCI 10110.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

BSCI 40429 NEURAL CONTROL OF REPRODUCTIVE FUNCTION 2 Credit Hours
(Cross-listed with NEUR 40429)(Slashed with BSCI 50429 and BSCI 70429) Course explores the role of the brain in regulating functions that are essential to ensure successful reproduction. Topics covered include an overview of the endocrine and neuroendocrine systems involved in reproduction, as well as regulation of puberty, fertility, pregnancy and lactation. The course also explores disorders, such as polycystic ovary syndrome, affecting the central regulation of reproduction.
Prerequisite: BSCI 30130 or BSCI 40430 or NEUR 30100.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 40430 ANIMAL PHYSIOLOGY 3 Credit Hours
Physiologic principles and concepts.
Prerequisite: Minimum C- grade in the following courses: BSCI 10110 and BSCI 10120; and (CHEM 10058 or CHEM 10060) and (CHEM 10059 or CHEM 10061).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40431 NEUROENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 50431 and BSCI 70431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.
Prerequisite: BSCI 30130 or BSCI 40430 or BSCI 40460 or NEUR 30100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40432 ENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 50432 and BSCI 70432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems.
Prerequisite: (BSCI 21010 and BSCI 21020) or BSCI 30130 or (BSCI 30140 and NEUR 30100 and NEUR 30200) or BSCI 40430.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40450 BIOLOGICAL CLOCKS 2 Credit Hours
(Slashed with BSCI 50450 and BSCI 70450) Topics covered include the characteristics of biological clocks; their ecology, molecular biology and neurobiology; the function and organization of sleep; and the medical implications of biological rhythmicity.
Prerequisite: BSCI 30156; and BSCI 30520 or BSCI 40430 or PSYC 41363.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 40460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours
(Slashed with BSCI 50460 and BSCI 70460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.
Prerequisite: BSCI 30140; and junior standing.
Corequisite: BSCI 40462.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour
(Slashed with BSCI 50462 and BSCI 70462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.
Prerequisite: BSCI 30140; and junior standing.
Corequisite: BSCI 40460.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 40463 MEDICAL BIOTECHNOLOGY 3 Credit Hours
(Slashed with BSCI 50463 and BSCI 70463) (Cross-listed BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours
(Slashed with BSCI 50466 and BSCI 70466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40515 ANIMAL BEHAVIOR 3 Credit Hours
(Slashed with BSCI 50515 and BSCI 70515) Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.
Prerequisite: Minimum C- grade in BSCI 10110 and BSCI 10120; and 6 additional credit hours of Biological Sciences (BSCI) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40517 MEDICAL HISTOLOGY 3 Credit Hours
(Slashed with BSCI 50517 and BSCI 70517) Study of the microscopic and submicroscopic structure of the human body in relation to function.
Prerequisite: Minimum C- grade in the following courses: BSCI 10110 and BSCI 10120 and BSCI 30140.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 40519 HORMONES AND BEHAVIOR 3 Credit Hours
(Slashed with BSCI 50519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40520 BEHAVIORAL EVOLUTION (WIC) 3 Credit Hours
(Slashed with BSCI 50520 and BSCI 70520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals.
Prerequisite: BSCI 40163.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

BSCI 40525 WILDLIFE RESOURCES (ELR) 3 Credit Hours
(Slashed with BSCI 50525 and BSCI 70525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic, economic and environmental values are discussed. Lecture three hours weekly.
Prerequisite: Minimum C- grade in BSCI 10110; plus 4 hours of Biology coursework.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BSCI 40556 VERTEBRATE ZOOLOGY 4 Credit Hours
(Slashed with BSCI 50556 and BSCI 70556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours, lab and field three hours weekly.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 4 hours of Biology coursework.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 40558 MAMMALOGY 3 Credit Hours
(Slashed with BSCI 50558 and BSCI 70558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.
Prerequisite: Minimum C- grade in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40560 HERPETOLOGY 3 Credit Hours
(Slashed with BSCI 50560 and BSCI 70560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.
Prerequisite: Minimum C- grade in BSCI 10110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 40581 ANIMAL PARASITOLOGY 4 Credit Hours
(Slashed with BSCI 50581) Morphology, physiology, life-histories, systematics and economic importance of parasites. Lecture two hours lab, six hours weekly.
Prerequisite: Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 4 hours of Biology coursework.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES (WIC) 1 Credit Hour
Writing-intensive course taken with a 3- or 4-credit-hour upper-division biology course. This course may be used to satisfy the writing-intensive course requirement with approval of major department.
Prerequisite: Biology major; and junior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

BSCI 40621 ISLAND BIOLOGY: STUDY OF NATURAL LABORATORIES 2 Credit Hours
Islands have long been regarded as important "natural laboratories" that have contributed to the advancements of many scientific disciplines, including evolution, ecology and conservation biology. Although islands comprise only 5% of the world's land surface, they support 30% of the world's biodiversity hotspots, which include rare and recently extinct species. This course provides students with an introduction to island biology and focuses on the following four areas: (1) defining islands and biodiversity, (2) identifying characteristics of islands and their implications for ecology, evolution of biodiversity, (3) understanding dynamics of spatially subsidized food webs on islands, and (4) identifying conservation and management concerns of island biotas. The goal of the course is to increase student awareness and appreciation of islands and associated biodiversity. This course is for students pursuing careers in any biological field including ecology, evolutionary biology, conservation biology, invasive ecology, wildlife management and pre-professional fields.
Prerequisite: BSCI 10110; and junior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 41110 BIOPHOTONICS 3 Credit Hours
(Cross-listed with CHEM 41010 and PHY 41010)(Slashed with BSCI 51110, CHEM 51010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microcopy.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 41120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours
(Slashed with BSCI 51120 and BSCI 71120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50020 BIOLOGY OF AGING 3 Credit Hours
(Slashed with BSCI 40020) Course covers theories of aging and the normal aging process, dysfunction, and diseases of the elderly categorized by body systems and how nutrition and exercise can offset those changes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50104 INTRODUCTION TO BEEKEEPING 2 Credit Hours
(Slashed with BSCI 40104) Covers basic beekeeping practices and provides students with an in-depth understanding of the honey bee colony through participation in hands-on activities, observation and experimentation. This course may not be used to fulfill degree requirements in the MS or MA Biology programs.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 50105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour
This course orients students to graduate studies and to various career pathways in the biological sciences. Students will learn about a variety of possible careers, and prepare application materials needed to enter the workforce or apply to additional graduate programs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 50141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 40141 and BSCI 70141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50142 BIOENERGETICS 3 Credit Hours
(Slashed with BSCI 40142 and BSCI 70142) Lecture and discussion of respiration and photosynthesis, their origin development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.
Prerequisite: BSCI 40430; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40143 and BSCI 70143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50146 DEVELOPMENTAL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40146 and BSCI 70146) Fundamental concepts and paradigms of development as exemplified by major model organisms. Examines our modern understanding of the molecular, cellular and genetic basis of developmental biology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours
(Slashed with BSCI 40147 and BSCI 70147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours
(Slashed with BSCI 40148 and BSCI 70148) Basic principles of infectious disease with emphasis on major human pathogens, including protozoa, bacteria and viruses. Topics include infection establishment, spread within the host, pathology, immunity and host behavior.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours
(Slashed with BSCI 40150 and BSCI 70150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours
(Slashed with BSCI 40151 and BSCI 70151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours
(Slashed with BSCI 40152 and BSCI 70152) Major concepts and theoretical principles underlying neurological disorders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours
(Slashed with BSCI 40154 and BSCI 70154) This course covers physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours
(Slashed with BSCI 40157 and BSCI 70157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50158 MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 40158 and BSCI 70158) Molecular genetics, DNA and RNA structure, chromosomes DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.
Prerequisite: BSCI 30156; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50159 MOLECULAR BIOLOGY LABORATORY 3 Credit Hours
(Slashed with BSCI 40159 and BSCI 70159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.
Prerequisite: Graduate standing; and special approval from instructor.
Schedule Type: Laboratory
Contact Hours: 9 lab
Grade Mode: Standard Letter

BSCI 50160 MARINE BIOLOGY 3 Credit Hours
(Slashed with BSCI 40160 and BSCI 70160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours weekly.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50162 SOIL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40162 and BSCI 70162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50163 EVOLUTION 3 Credit Hours
(Slashed with BSCI 40163 and BSCI 70163) Discussion of the history of evolutionary theory, the evidence of evolution the evolutionary forces and the products of those forces.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours
(Slashed with BSCI 40166 and BSCI 70166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 50170 STREAM BIOLOGY 3 Credit Hours
(Slashed with BSCI 40170 and BSCI 70170) This course explores the physical, chemical and biological aspects of flowing water ecosystems. We cover topics across many levels of biological organization (individual organisms to communities) and broad geographic extents (habitat patches to global cycles), and process these ranges from simple to complex. The lecture covers basic concepts and the lab supports these concepts with field and lab measurements. The course culminates with independent projects that explore current issues related to human impacts on streams.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50174 IMMUNOLOGY 3 Credit Hours
(Slashed with BSCI 40174 and BSCI 70174) This course covers innate and adaptive immune recognition and response, generation of diversity in antigen receptors of T cells and B cells, lymphocyte development and T cell activation and regulation pathways. It also covers immune resistance to infection, mechanisms of allergic responses, autoimmune disease, tissue and organ transplantation and cancer immunology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 40195 and BSCI 70195) Special topics in biology.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Laboratory, Lecture
Contact Hours: 1-3 lecture, 2-6 lab
Grade Mode: Standard Letter-IP

BSCI 50218 INTRODUCTION TO GENOMICS 3 Credit Hours
(Slashed with BSCI 40218 and BSCI 70218) This course provides an introduction to the structure, organization and function of genomes as well as technological approaches to sequencing and analyzing genomes. Students will explore the application of genomic tools to real-world problems, such as developing sustainable food and fuel supplies, improving disease treatment, understanding biodiversity and protecting the environment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50220 BIOINFORMATICS 3 Credit Hours
(Slashed with BSCI 40220, BSCI 70220 and BTEC 40220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50221 ECOLOGICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 40221 and BSCI 70221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic, and metatranscriptomic data.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50222 INVASION BIOLOGY 3 Credit Hours
(Slashed with BSCI 40222 and BSCI 70222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50242 SEMINAR ON MEDICAL PRACTICE FOR UNDERSERVED POPULATIONS 2 Credit Hours
(Slashed with BSCI 40242). Course will introduce students to primary care and medical practice in rural and urban settings. Physicians and other healthcare practitioners from rural and urban settings will serve as invited speakers in this seminar. Preference for registration will be given to students following the MA-MD program.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 50270 PLANT ECOLOGY 3 Credit Hours
(Slashed with BSCI 40270 and BSCI 70270) Develop knowledge of plant ecology. Learn about the abiotic and biotic effects of plant ecology. Differentiate among population ecology, metapopulation ecology and community ecology as it applies to plants. Use stage-structured population models to understand population dynamics. Learn about resource-ratio models as they apply to plant competition. Study the patterns and mechanisms of succession.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50272 PLANT ANATOMY 4 Credit Hours
(Slashed with BSCI 40272 and BSCI 70272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, laboratory six hours weekly.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 1 lab
Grade Mode: Standard Letter

BSCI 50273 INTRODUCTION TO MYCOLOGY 3 Credit Hours
(Slashed with BSCI 40273 and BSCI 70273) Introduces the key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50274 PLANT COMMUNITIES OF OHIO 3 Credit Hours
(Slashed with BSCI 40274 and BSCI 70274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours
(Slashed with BSCI 40341 and BSCI 70341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50360 ICHTHYOLOGY 4 Credit Hours
(Slashed with BSCI 40360 and 70360) Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50363 MICROBIAL ECOLOGY 3 Credit Hours
(Slashed with BSCI 40363 and BSCI 70363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50364 LIMNOLOGY 3 Credit Hours
(Slashed with BSCI 40364 and BSCI 70364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50365 FIELD METHODS IN ORNITHOLOGY 3 Credit Hours
(Slashed with BSCI 40365 and BSCI 70365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50368 WETLAND ECOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 40368 and BSCI 70368) Lecture, laboratory and field study of the principles of wetland ecology, including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50374 CONSERVATION BIOLOGY 4 Credit Hours
(Slashed with BSCI 40374 and BSCI 70374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.
Prerequisite: BSCI 30360; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 50375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 40375 and BSCI 70375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 50376 TROPICAL FIELD BIOLOGY AND CONSERVATION 5 Credit Hours
(Slashed with BSCI 40376 and BSCI 70376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 50377 PREPARATION FOR FIELD COURSE TO SOUTH AFRICA 1 Credit Hour
(Slashed with BSCI 40377 and BSCI 70377) Introduction to major issues in field ecology and conservation in South Africa, including the threats to the biological diversity of subtropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses. Three major biomes in South Africa will be studied: the savanna, the fynbos (macchia) and Succulent Karoo (= Cape Floral Kingdom.) Lectures on the geography and history of South Africa, as well as introductions to the major South African biomes will be covered. Students will design field projects targeted to South African biomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 50378 FIELD COURSE TO SOUTH AFRICA 4 Credit Hours
(Slashed with BSCI 40378 and BSCI 70378) This course covers all steps of the development and implementation of field-based research in South African environments, including design and analysis. Students write a report, present their research, apply data management and statistical tests appropriate for field courses (including contingency tables, basic t-tests, ANOVA and regression techniques) and develop scientific graphs and figures.
Prerequisite: BSCI 50377; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 50380 BIOGEOCHEMISTRY 3 Credit Hours
(Cross-listed with ESCI 50380)(Slashed with BSCI 40380, BSCI 70380 and ESCI 40380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50385 CURRENT TOPICS IN NEUROSCIENCE 3 Credit Hours
(Slashed with BSCI 40385, BSCI 70385 and NEUR 40385) This is a discussion- and readings-based course that focuses on cellular and molecular mechanisms underpinning functions of the central nervous system. Topics covered include synaptic plasticity; neuron-glia interactions; gene-environment interactions involved in learning, memory and disease; big data in neuroscience; and more. During this course, students develop knowledge and understanding of communication between brain cells; how gene-environment interactions impact learning and memory, behavior and disease; and modern techniques used in neuroscience research. Students read, summarize and discuss primary research papers in the context of neuroscience-related topics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50429 NEURAL CONTROL OF REPRODUCTIVE FUNCTION 2 Credit Hours
(Slashed with BSCI 40429, BSCI 70429 and NEUR 40429) Course explores the role of the brain in regulating functions that are essential to ensure successful reproduction. Topics covered include an overview of the endocrine and neuroendocrine systems involved in reproduction, as well as regulation of puberty, fertility, pregnancy and lactation. The course also explores disorders, such as polycystic ovary syndrome, affecting the central regulation of reproduction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 50431 NEUROENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 40431 and BSCI 70431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50432 ENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 40432 and BSCI 70432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems.
Prerequisite: BSCI 40430; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50450 BIOLOGICAL CLOCKS 2 Credit Hours
(Slashed with BSCI 40450 and BSCI 70450) Topics covered include the characteristics of biological clocks; their ecology, molecular biology and neurobiology; the function and organization of sleep; and the medical implications of biological rhythmicity. Students enrolling at the graduate level should have some background in neurobiology and genetics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 50460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours
(Slashed with BSCI 40460 and BSCI 70460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.
Prerequisite: Graduate standing.
Corequisite: BSCI 50462.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour
(Slashed with BSCI 40462 and BSCI 70462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.
Prerequisite: Graduate standing.
Corequisite: BSCI 50460.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 50463 MEDICAL BIOTECHNOLOGY 3 Credit Hours
(Slashed with BSCI 40463, BSCI 70463 and BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours
(Slashed with BSCI 40466 and BSCI 70466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50515 ANIMAL BEHAVIOR 3 Credit Hours
(Slashed with BSCI 40515 and BSCI 70515) Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50517 MEDICAL HISTOLOGY 3 Credit Hours
(Slashed with BSCI 40517 and BSCI 70517) Study of the microscopic and submicroscopic structure of the human body in relation to function.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50519 HORMONES AND BEHAVIOR 3 Credit Hours
(Slashed with BSCI 40519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50520 BEHAVIORAL EVOLUTION 3 Credit Hours
(Slashed with BSCI 40520 and BSCI 70520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals. Students enrolled at the graduate level in the course are expected to have had a course in evolution.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50525 WILDLIFE RESOURCES 3 Credit Hours
(Slashed with BSCI 40525 and BSCI 70525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic economic and environmental values are discussed. Lecture three hours weekly.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50556 VERTEBRATE ZOOLOGY 4 Credit Hours
(Slashed with BSCI 40556 and BSCI 70556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours, laboratory and field three hours weekly.
Prerequisite: 4 hours of Biology; and graduate standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 50558 MAMMALOGY 3 Credit Hours
(Slashed with BSCI 40558 and BSCI 70558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50560 HERPETOLOGY 3 Credit Hours
(Slashed with BSCI 40560 and BSCI 70560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 50581 ANIMAL PARASITOLOGY 4 Credit Hours
(Slashed with BSCI 40581) Morphology, physiology, life-histories, systematics and economic importance of parasites. Lecture two hours, lab six hours weekly.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 6 other
Grade Mode: Standard Letter

BSCI 51110 BIOPHOTONICS 3 Credit Hours
(Cross-listed with CHEM 51010 and PHY 51010)(Slashed with BSCI 41110, CHEM 41010 and PHY 41010) Interdisciplinary overview of the basics of biophotonics and application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 51120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours
(Slashed with BSCI 41120 and BSCI 71120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 60104 BIOLOGICAL STATISTICS 4 Credit Hours
(Slashed with BSCI 70104) Principles of experimental design and statistical analysis and how to choose and interpret statistical tests using biological data sets.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 60105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour
This course orients students to graduate studies and to various career pathways in the biological sciences. Students will learn about a variety of possible careers, and prepare application materials needed to enter the workforce or apply to additional graduate programs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 60107 REPRODUCIBLE QUANTITATIVE METHODS FOR ECOLOGICAL DATA 4 Credit Hours
(Slashed with BSCI 80107) Using real, data driven examples from ecology and the environmental sciences, this course walks students through the process of scientific analysis and communication in a new, open, technologically enabled framework, and place technical skills in the context of reproducible research philosophy, ethics and regulations. Topics include data management and metadata, reproducible programming, and data visualization.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 60110 CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS 2 Credit Hours
(Cross-listed with BMS 60110)(Slashed with BMS 80110 and BSCI 80110) This course helps prepare graduate students for advanced careers in science. Students learn about a variety of possible careers, prepare application materials and develop their professional oral and writing skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 60144 SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY 1 Credit Hour
(Slashed with BSCI 70144) Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students.
Prerequisite: Graduate standing.
Corequisite: BSCI 50143.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 60145 MEDICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 80145) Explores the relationship and contribution of genetics and genomics to healthcare issues, including disease susceptibility and therapeutic efficacy. Up-to-date genomics concepts and their applications to health care and the challenges of personalized medicine including genetic analyses (e.g., linkage and estimating population risks), ethical issues in genetic testing and therapy, genetic basis of disease processes (e.g., neurological, cardiovascular and neoplastic diseases) and epigenetic processes (that may link the environment to the risk of chronic diseases) are covered. This course requires an understanding of genetics and physiology; students should contact the Department of Biological Sciences to determine if they have the requisite prior training.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 60184 RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES 2 Credit Hours
(Slashed with BSCI 70184) Educates biology graduate students in central aspects of the responsible and effective conduct of research and teaching. Topics include appropriate conduct in the laboratory, effective presentations and issues related to proposal and manuscript preparation and review.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 60191 SEMINAR IN BIOLOGY 1 Credit Hour
(Repeatable for credit) Departmental seminar required of all graduate students.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 70196) Individual investigation in biology.
Prerequisite: Special approval of instructor and graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BSCI 60198 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward degree requirements if department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60200 FOUNDATIONS OF NEUROSCIENCE 3 Credit Hours
(Cross-listed with BMS 60200)(Slashed with BMS 80200 and BSCI 80200) This is a graduate-level introductory neuroscience course that will survey aspects of molecular and cellular neuroscience, the biophysics of the nervous system, basic neuroanatomy, and the homeostatic regulation of the periphery. After completion of this course students should have an understanding of how cells of the nervous system work, how these cells interact with homeostatic systems important to the regulation of peripheral physiology and behavior, and the basic neuroanatomy of these regulatory systems, including major neurotransmitter and neuroendocrine systems. Upon completion of this course, students should be prepared for advanced neuroscience coursework.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: BSCI 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60370 ECOLOGICAL AND EVOLUTIONARY GENETICS 2 Credit Hours
(Slashed with BSCI 70370) Genetic and genomic approaches to studying ecology and evolution in populations and communities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 60371 EVOLUTIONARY BIOLOGY 2 Credit Hours
(Slashed with BSCI 70371) Theoretical and experimental approaches to studying evolution from genes to populations and communities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 60372 COMMUNITIES AND ECOSYSTEMS 2 Credit Hours
(Slashed with BSCI 70372) Theory and experimental approaches to studying community and ecosystem ecology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 60373 POPULATION AND COMMUNITY ECOLOGY 2 Credit Hours
(Slashed with BSCI 70373) Theory and experimental approaches to studying population and community ecology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 60391 SEMINAR IN ECOLOGY 1 Credit Hour
(Slashed with BSCI 70391)(Repeatable for credit) Seminar on topics in animal and plant ecology. Credits earned may be applied to degree if department approves.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours
(Cross-listed with BMS 60462)(Slashed with BMS 70462 and BSCI 80462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.
Prerequisite: BMS 60729 or BMS 70729; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 60491 SEMINAR IN PHYSIOLOGY 1 Credit Hour
(Repeatable for credit)(Slashed with BSCI 70491) Credits may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 60630 ADVANCED WRITING IN THE BIOLOGICAL SCIENCES 2 Credit Hours
(Slashed with BSCI 80630) Graduate students will track progress on a substantive writing task (e.g., thesis, dissertation, or manuscript) and complete exercises to enhance their capacity to communicate scientific findings in written formats and overcome barriers to productive writing habits. Students who do not have a specific writing project will work with the instructor to identify a project that aligns with their scholarly development and career goals, including but not limited to grant proposals, fellowship applications, literature review articles, research reports, etc. Students will pass the course by demonstrating consistent participation through attendance, submission of reflections on writing progress, and submission of short-term, skills based writing activities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 0 lab, 0 other
Grade Mode: Satisfactory/Unsatisfactory

BSCI 70104 BIOLOGICAL STATISTICS 4 Credit Hours
(Slashed with BSCI 60104) Principles of experimental design and statistical analysis, and how to choose and interpret statistical tests using biological data sets.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 70141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 40141 and BSCI 50141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70142 BIOENERGETICS 3 Credit Hours
(Slashed with BSCI 40142 and BSCI 50142) Lecture and discussion of respiration and photosynthesis, their origin development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.
Prerequisite: BSCI 40430; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40143 and BSCI 50143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70144 SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY 1 Credit Hour
(Slashed with BSCI 60144) Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students.
Prerequisite: Doctoral standing.
Corequisite: BSCI 70143.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 70146 DEVELOPMENTAL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40146 and BSCI 50146) Fundamental concepts and paradigms of development as exemplified by major model organisms. Examines our modern understanding of the molecular, cellular and genetic basis of developmental biology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours
(Slashed with BSCI 40147 and BSCI 50147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours
(Slashed with BSCI 40148 and BSCI 50148) Basic principles of infectious disease with emphasis on major human pathogens, including protozoa, bacteria and viruses. Topics include infection establishment, spread within the host, pathology, immunity and host behavior.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours
(Slashed with BSCI 40150 and BSCI 50150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours
(Slashed with BSCI 40151 and BSCI 50151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours
(Slashed with BSCI 40152 and BSCI 50152) Major concepts and theoretical principles underlying neurological disorders.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours
(Slashed with BSCI 40154 and BSCI 50154) This course covers physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours
(Slashed with BSCI 40157 and BSCI 50157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70158 MOLECULAR BIOLOGY 3 Credit Hours
(Slashed with BSCI 40158 and BSCI 50158) Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.
Prerequisite: BSCI 30156; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70159 MOLECULAR BIOLOGY LABORATORY 3 Credit Hours
(Slashed with BSCI 40159 and BSCI 50159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.
Prerequisite: Doctoral standing; and special approval from instructor.
Schedule Type: Laboratory
Contact Hours: 9 lab
Grade Mode: Standard Letter

BSCI 70160 MARINE BIOLOGY 3 Credit Hours
(Slashed with BSCI 40160 and BSCI 50160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours weekly.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70162 SOIL BIOLOGY 3 Credit Hours
(Slashed with BSCI 40162 and BSCI 50162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70163 EVOLUTION 3 Credit Hours
(Slashed with BSCI 40163 and BSCI 50163) Discussion of the history of evolutionary theory, the evidence of evolution, the evolutionary forces and the products of those forces.
Prerequisite: BSCI 30156; and 4 credit hours of Biological Sciences (BSCI) courses; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours
(Slashed with BSCI 40166 and BSCI 50166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70170 STREAM BIOLOGY 3 Credit Hours
(Slashed with BSCI 40170 and BSCI 50170) This course explores the physical, chemical and biological aspects of flowing water ecosystems. We cover topics across many levels of biological organization (individual organisms to communities) and broad geographic extents (habitat patches to global cycles), and process these ranges from simple to complex. The lecture covers basic concepts and the lab supports these concepts with field and lab measurements. The course culminates with independent projects that explore current issues related to human impacts on streams.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70174 IMMUNOLOGY 3 Credit Hours
(Slashed with BSCI 40174 and BSCI 50174) This course covers innate and adaptive immune recognition and response, generation of diversity in antigen receptors of T cells and B cells, lymphocyte development and T cell activation and regulation pathways. It also covers immune resistance to infection, mechanisms of allergic responses, autoimmune disease, tissue and organ transplantation and cancer immunology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70184 RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES 2 Credit Hours
(Slashed with BSCI 60184) Educates biology graduate students in central aspects of the responsible and effective conduct of research and teaching. Topics include appropriate conduct in the laboratory, effective presentations and issues related to proposal and manuscript preparation and review.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 70191 SEMINAR IN BIOLOGY 1 Credit Hour
(Repeatable for credit) Departmental seminar required of all graduate students.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 70195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 40195 and BSCI 50195)
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Laboratory, Lecture
Contact Hours: 1-3 lecture, 2-6 lab
Grade Mode: Standard Letter-IP

BSCI 70196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with BSCI 60196) Individual investigation in biology.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BSCI 70218 INTRODUCTION TO GENOMICS 3 Credit Hours
(Slashed with BSCI 40218 and BSCI 50218) This course provides an introduction to the structure, organization and function of genomes as well as technological approaches to sequencing and analyzing genomes. Students will explore the application of genomic tools to real-world problems, such as developing sustainable food and fuel supplies, improving disease treatment, understanding biodiversity and protecting the environment.
Prerequisite: Doctoral Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70220 BIOINFORMATICS 3 Credit Hours
(Slashed with BSCI 40220, BSCI 50220 and BTEC 40220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70221 ECOLOGICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 40221 and BSCI 50221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic and metatranscriptomic data.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70222 INVASION BIOLOGY 3 Credit Hours
(Slashed with BSCI 40222 and BSCI 50222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70270 PLANT ECOLOGY 3 Credit Hours
(Slashed with BSCI 40270 and BSCI 50270) Develop knowledge of plant ecology. Learn about the abiotic and biotic effects of plant ecology. Differentiate among population ecology, metapopulation ecology and community ecology as it applies to plants. Use stage-structured population models to understand population dynamics. Learn about resource-ratio models as they apply to plant competition. Study the patterns and mechanisms of succession.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70272 PLANT ANATOMY 4 Credit Hours
(Slashed with BSCI 40272 and BSCI 50272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, laboratory six hours weekly.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 0 lab
Grade Mode: Standard Letter

BSCI 70273 INTRODUCTION TO MYCOLOGY 3 Credit Hours
(Slashed with BSCI 40273 and BSCI 50273) Introduces the key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70274 PLANT COMMUNITIES OF OHIO 3 Credit Hours
(Slashed with BSCI 40274 and BSCI 50274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours
(Slashed with BSCI 40341 and BSCI 50341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70360 ICHTHYOLOGY 4 Credit Hours
(Slashed with BSCI 40360 and BSCI 50360) Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70363 MICROBIAL ECOLOGY 3 Credit Hours
(Slashed with BSCI 40363 and BSCI 50363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70364 LIMNOLOGY 3 Credit Hours
(Slashed with BSCI 40364 and BSCI 50364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70365 FIELD METHODS IN ORNITHOLOGY 3 Credit Hours
(Slashed with BSCI 40365 and BSCI 50365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70368 WETLAND ECOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 40368 and BSCI 50368) Lecture, laboratory and field study of the principles of wetland ecology, including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70370 ECOLOGICAL AND EVOLUTIONARY GENETICS 2 Credit Hours
(Slashed with BSCI 60370) Genetic and genomic approaches to studying ecology and evolution in populations and communities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70371 EVOLUTIONARY BIOLOGY 2 Credit Hours
(Slashed with BSCI 60371) Theoretical and experimental approaches to studying evolution from genes to populations and communities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70372 COMMUNITIES AND ECOSYSTEMS 2 Credit Hours
(Slashed with BSCI 60372) Theory and experimental approaches to studying community and ecosystem ecology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70373 POPULATION AND COMMUNITY ECOLOGY 2 Credit Hours
(Slashed with BSCI 60373) Theory and experimental approaches to studying population and community ecology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70374 CONSERVATION BIOLOGY 4 Credit Hours
(Slashed with BSCI 40374 and BSCI 50374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.
Prerequisite: BSCI 30360; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 70375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours
(Slashed with BSCI 40375 and BSCI 50375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 70376 TROPICAL FIELD BIOLOGY AND CONSERVATION 5 Credit Hours
(Slashed with BSCI 40376 and BSCI 50376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 70377 PREPARATION FOR FIELD COURSE TO SOUTH AFRICA 1 Credit Hour
(Slashed with BSCI 40377 and BSCI 50377) Introduction to major issues in field ecology and conservation in South Africa, including the threats to the biological diversity of subtropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses. Three major biomes in South Africa will be studied: the savanna, the fynbos (macchia) and Succulent Karoo (= Cape Floral Kingdom.) Lectures on the geography and history of South Africa, as well as introductions to the major South African biomes will be covered. Students will design field projects targeted to South African biomes.
Prerequisite: Doctoral Standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 70378 FIELD COURSE TO SOUTH AFRICA 4 Credit Hours
(Slashed with BSCI 40378 and BSCI 50378) This course covers all steps of the development and implementation of field-based research in South African environments, including design and analysis. Students write a report, present their research, apply data management and statistical tests appropriate for field courses (including contingency tables, basic t-tests, ANOVA and regression techniques) and develop scientific graphs and figures.
Prerequisite: BSCI 70377; and doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

BSCI 70380 BIOGEOCHEMISTRY 3 Credit Hours
(Slashed with BSCI 40380, BSCI 50380, ESCI 40380 and ESCI 50380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70385 CURRENT TOPICS IN NEUROSCIENCE 3 Credit Hours
(Slashed with BSCI 40385, BSCI 50385 and NEUR 40385) This is a discussion- and readings-based course that focuses on cellular and molecular mechanisms underpinning functions of the central nervous system. Topics covered include synaptic plasticity; neuron-glia interactions; gene-environment interactions involved in learning, memory and disease; big data in neuroscience; and more. During this course, students develop knowledge and understanding of communication between brain cells; how gene-environment interactions impact learning and memory, behavior and disease; and modern techniques used in neuroscience research. Students read, summarize and discuss primary research papers in the context of neuroscience-related topics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70391 SEMINAR IN ECOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BSCI 60391) Seminar on topics in animal and plant ecology. Credits earned may be applied to degree if department approves.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 70429 NEURAL CONTROL OF REPRODUCTIVE FUNCTION 2 Credit Hours
(Slashed with BSCI 40429, BSCI 50429 and NEUR 40429) Course explores the role of the brain in regulating functions that are essential to ensure successful reproduction. Topics covered include an overview of the endocrine and neuroendocrine systems involved in reproduction, as well as regulation of puberty, fertility, pregnancy and lactation. The course also explores disorders, such as polycystic ovary syndrome, affecting the central regulation of reproduction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70431 NEUROENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 40431 and BSCI 50431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70432 ENDOCRINOLOGY 3 Credit Hours
(Slashed with BSCI 40432 and BSCI 50432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems.
Prerequisite: BSCI 40430; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70450 BIOLOGICAL CLOCKS 2 Credit Hours
(Slashed with BSCI 40450 and BSCI 50450) Topics covered include the characteristics of biological clocks; their ecology, molecular biology and neurobiology; the function and organization of sleep; and the medical implications of biological rhythmicity. Students enrolling at the graduate level should have some background in neurobiology and genetics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BSCI 70460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours
(Slashed with BSCI 40460 and BSCI 50460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.
Prerequisite: Doctoral standing.
Corequisite: BSCI 70462.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour
(Slashed with BSCI 40462 and BSCI 50462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.
Prerequisite: Doctoral standing.
Corequisite: BSCI 70460.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BSCI 70463 MEDICAL BIOTECHNOLOGY 3 Credit Hours
(Slashed with BSCI 40463, BSCI 50463 and BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours
(Slashed with BSCI 40466 and BSCI 50466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70491 SEMINAR IN PHYSIOLOGY 1 Credit Hour
(Repeatable for credit)(Slashed with BSCI 60491) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 70515 ANIMAL BEHAVIOR 3 Credit Hours
(Slashed with BSCI 40515 and BSCI 50515) Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70517 MEDICAL HISTOLOGY 3 Credit Hours
(Slashed with BSCI 40517 and BSCI 50517) Study of the microscopic and submicroscopic structure of the human body in relation to function.
Prerequisite: 4 credit hours of Biological Sciences (BSCI) courses; and doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70519 HORMONES AND BEHAVIOR 3 Credit Hours
(Slashed with BSCI 40519 and BSCI 50519) Current concepts of hormone and behavior interactions across species.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70520 BEHAVIORAL EVOLUTION 3 Credit Hours
(Slashed with BSCI 40520 and BSCI 50520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals. Students enrolled at the graduate level will be expected to have had a course in evolution.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70525 WILDLIFE RESOURCES 3 Credit Hours
(Slashed with BSCI 40525 and BSCI 50525)Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic economic and environmental values are discussed. Lecture three hours weekly.
Prerequisite: 4 hours of Biology; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70556 VERTEBRATE ZOOLOGY 4 Credit Hours
(Slashed with BSCI 40556 and BSCI 50556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours laboratory and field three hours weekly.
Prerequisite: 4 hours of Biology; and doctoral standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

BSCI 70558 MAMMALOGY 3 Credit Hours
(Slashed with BSCI 40558 and BSCI 50558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 70560 HERPETOLOGY 3 Credit Hours
(Slashed with BSCI 40560 and BSCI 50560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 71120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours
(Slashed with BSCI 41120 and BSCI 51120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 80107 REPRODUCIBLE QUANTITATIVE METHODS FOR ECOLOGICAL DATA 4 Credit Hours
(Slashed with BSCI 60107) Using real, data driven examples from ecology and the environmental sciences, this course walks students through the process of scientific analysis and communication in a new, open, technologically enabled framework, and place technical skills in the context of reproducible research philosophy, ethics and regulations. Topics include data management and metadata, reproducible programming, and data visualization.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

BSCI 80110 CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS 2 Credit Hours
(Cross-listed with BMS 80110)(Slashed with BMS 60110 and BSCI 60110) This course helps prepare graduate students for advanced careers in science. Students learn about a variety of possible careers, prepare application materials and develop their professional oral and writing skills.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BSCI 80145 MEDICAL GENOMICS 3 Credit Hours
(Slashed with BSCI 60145) Explores the relationship and contribution of genetics and genomics to healthcare issues, including disease susceptibility and therapeutic efficacy. Up-to-date genomics concepts and their applications to health care and the challenges of personalized medicine including genetic analyses (e.g., linkage and estimating population risks), ethical issues in genetic testing and therapy, genetic basis of disease processes (e.g., neurological, cardiovascular and neoplastic diseases) and epigenetic processes (that may link the environment to the risk of chronic diseases) are covered. This course requires an understanding of genetics and physiology; students should contact the Department of Biological Sciences to determine if they have the requisite prior training.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 80198 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed candidacy examination.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Special approval; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 80200 FOUNDATIONS OF NEUROSCIENCE 3 Credit Hours
(Cross-listed with BMS 80200)(Slashed with BMS 60200 and BSCI 60200) This is a graduate-level introductory neuroscience course that will survey aspects of molecular and cellular neuroscience, the biophysics of the nervous system, basic neuroanatomy, and the homeostatic regulation of the periphery. After completion of this course students should have an understanding of how cells of the nervous system work, how these cells interact with homeostatic systems important to the regulation of peripheral physiology and behavior, and the basic neuroanatomy of these regulatory systems, including major neurotransmitter and neuroendocrine systems. Upon completion of this course, students should be prepared for advanced neuroscience coursework.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BSCI 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: BSCI 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BSCI 80462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours
(Cross-listed with BMS 70462)(Slashed with BMS 60462 and BSCI 60462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.
Prerequisite: BMS 60729 or BMS 70729; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BSCI 80630 ADVANCED WRITING IN THE BIOLOGICAL SCIENCES 2 Credit Hours
(Slashed with BSCI 60630) Graduate students will track progress on a substantive writing task (e.g., thesis, dissertation, or manuscript) and complete exercises to enhance their capacity to communicate scientific findings in written formats and overcome barriers to productive writing habits. Students who do not have a specific writing project will work with the instructor to identify a project that aligns with their scholarly development and career goals, including but not limited to grant proposals, fellowship applications, literature review articles, research reports, etc. Students will pass the course by demonstrating consistent participation through attendance, submission of reflections on writing progress, and submission of short-term, skills based writing activities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 0 lab, 0 other
Grade Mode: Satisfactory/Unsatisfactory

Clinical Laboratory Sciences (CLS)

CLS 49010 CLINICAL MICROBIOLOGY: THEORY 4 Credit Hours
Theoretical consideration of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 8 other
Grade Mode: Standard Letter-IP

CLS 49011 CLINICAL MICROBIOLOGY: APPLICATIONS 4 Credit Hours
Applied and practical considerations of theoretical aspects of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 8 other
Grade Mode: Standard Letter-IP

CLS 49012 CLINICAL IMMUNOLOGY: THEORY 1 Credit Hour
Theoretical considerations of laboratory practices involving quantitation and detection of antigens and antibodies and the significance of these findings in pathological states.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49013 CLINICAL IMMUNOLOGY: APPLICATIONS 1 Credit Hour
Applied and practical consideration of laboratory practices in immunology and serology relating to diagnosis of disease states.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49014 CLINICAL MYCOLOGY: THEORY AND APPLICATIONS 1 Credit Hour
Theoretical, applied and practical consideration of the isolation, identification and characterization of pathogenic fungi and their relation to human disease states.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49015 CLINICAL PARASITOLOGY: THEORY AND APPLICATIONS 1 Credit Hour
Theoretical, applied and practical considerations of the isolation identification and characterization of human parasites and their relations to pathologic conditions.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49020 CLINICAL CHEMISTRY: THEORY 4 Credit Hours
Theoretical considerations of the principles of clinical chemistry relating to the identification and quantitation of biologically important substances in blood and other body fluids.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 8 other
Grade Mode: Standard Letter-IP

CLS 49021 CLINICAL CHEMISTRY: APPLICATIONS 3 Credit Hours
Applied and practical considerations of clinical chemistry principles relating to significant changes in body fluids as the result of pathologic conditions.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 6 other
Grade Mode: Standard Letter-IP

CLS 49022 URINALYSIS: THEORY 1 Credit Hour
Theoretical considerations of the physiological activities of the renal system together with laboratory principles of analysis of urine and other body fluids.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49023 URINALYSIS: APPLICATIONS 1 Credit Hour
Applied and practical considerations of laboratory practices in urine and other body fluid analysis as aids in diagnosis of disease.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49030 IMMUNOHEMATOLOGY: THEORY 2 Credit Hours
Theoretical consideration of laboratory procedures involved in blood grouping and typing; identification of blood group antigens and antibodies collection and preparation of blood for transfusion.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

CLS 49031 IMMUNOHEMATOLOGY: APPLICATIONS 2 Credit Hours
Applied and practical consideration of laboratory methods for the administration of blood and its components.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

CLS 49032 COAGULATION: THEORY AND APPLICATIONS 1 Credit Hour
Theoretical consideration of the coagulation mechanism and its relation to pathological states; identification of abnormalities and deficiencies.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49033 CLINICAL HEMATOLOGY: THEORY 2 Credit Hours
Theoretical considerations of the development of formed elements; identification of marrow and blood cells; study of normal and abnormal cellular blood components.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

CLS 49034 CLINICAL HEMATOLOGY: APPLICATIONS 2 Credit Hours
Applied and practical consideration of laboratory methods and procedures in identification and enumeration of normal and abnormal formed elements of blood.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

CLS 49040 TOPICS IN LABORATORY MANAGEMENT 1 Credit Hour
Consideration of topics relating to safety, education, personnel, budgeting, scheduling and medical legal problems. Repeatable for a total of 4 hours.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

CLS 49095 SPECIAL TOPICS IN MEDICAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for a maximum of 4 credit hours) Topical consideration of special techniques encountered in nuclear medicine, cytology, cytogenetics, virology, toxicology and special instrumentation.
Prerequisite: Medical Laboratory Science major.
Schedule Type: Clinical Laboratory
Contact Hours: 2-8 other
Grade Mode: Standard Letter-IP

Neuroscience (NEUR)

NEUR 10100 SEMINAR IN NEUROSCIENCE 1 Credit Hour
Course provides an overview of the neuroscience field, including areas of neuroscience research, foundational principles in neuroscience, current questions and techniques, career possibilities and examples of research being conducted by neuroscience faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

NEUR 30100 NEUROSCIENCE I 3 Credit Hours
(Crosslisted with BSCI 30100) Course covers basic principles in neuroscience, from the cellular to systems levels. Provides students a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems and motor pathways.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NEUR 30200 NEUROSCIENCE II 3 Credit Hours
(Cross-listed with BSCI 30200) Course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. Course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control and higher order cognitive functioning.
Prerequisite: NEUR 30100 or BSCI 30100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NEUR 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour
(Cross-listed with BSCI 30300) Accompanying laboratory for NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception. .
Prerequisite: NEUR 30100 or BSCI 30100 with minimum C grade.
Pre/corequisite: NEUR 30200 or BSCI 30200.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

NEUR 30889 BEAUTY AND THE BRAIN: EXPLORING FLORENCE THROUGH THE SENSES (DIVG) (ELR) 3 Credit Hours
(Cross-listed with BSCI 30889) This is an introductory sensory neuroscience course for undergraduate students. By exploring the sensory richness of Florence, Italy, students delve into the biology of their sensory systems. Through a combination of field trips, laboratory exercises, lectures and presentations, students learn how our sensory systems function to change diverse environmental signals into information that can be interpreted by the brain. Site visits are used to highlight specific sensory systems and laboratories/lectures provide the conceptual framework. Together, these experiences lay the foundation for students' understanding of vision, taste, smell, touch and hearing in the unique environment of Florence, Italy.
Prerequisite: Special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

NEUR 40192 INTERNSHIP IN NEUROSCIENCE (ELR) 3-12 Credit Hours
Work experience and training in neuroscience under the supervision of appropriate personnel in a government agency, nonprofit organization or business.
Prerequisite: NEUR 30200; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-36 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NEUR 40195 SPECIAL TOPICS IN NEUROSCIENCE 1-3 Credit Hours
Topics in neuroscience vary per course offering.
Prerequisite: NEUR 30200.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-3 lecture, 2-6 lab
Grade Mode: Standard Letter

NEUR 40196 INDIVIDUAL INVESTIGATION IN NEUROSCIENCE 1-3 Credit Hours
(Repeatable for credit) Research study under the guidance of a neuroscience faculty member and under the direction of a Biological Sciences faculty mentor.
Prerequisite: NEUR 30200; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

NEUR 40385 CURRENT TOPICS IN NEUROSCIENCE 3 Credit Hours
(Cross-listed with BSCI 40385)(Slashed with BSCI 50385 and BSCI 70385) This is a discussion- and readings-based course that focuses on cellular and molecular mechanisms underpinning functions of the central nervous system. Topics covered include synaptic plasticity; neuron-glia interactions; gene-environment interactions involved in learning, memory and disease; big data in neuroscience; and more. During this course, students develop knowledge and understanding of communication between brain cells; how gene-environment interactions impact learning and memory, behavior and disease; and modern techniques used in neuroscience research. Students read, summarize and discuss primary research papers in the context of neuroscience-related topics.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NEUR 40429 NEURAL CONTROL OF REPRODUCTIVE FUNCTION 2 Credit Hours
(Cross-listed with BSCI 40429) (Slashed with BSCI 50429 and BSCI 70429) Course explores the role of the brain in regulating functions that are essential to ensure successful reproduction. Topics covered include an overview of the endocrine and neuroendocrine systems involved in reproduction, as well as regulation of puberty, fertility, pregnancy and lactation. The course also explores disorders, such as polycystic ovary syndrome, affecting the central regulation of reproduction.
Prerequisite: BSCI 30130 or BSCI 40430 or NEUR 30100.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NEUR 47387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours
(Cross-listed with PSYC 47387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. This course introduces students to the behavioral effects of psychoactive therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Biological Sciences - Cell Biology and Molecular Genetics - M.S.

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology/graduate

About This Program

The Master of Science degree in Biological Sciences - Cell Biology and Molecular Genetics is an individualized program of study and research that prepares students for career opportunities in teaching and research in academic, governmental and industrial settings. A core series of courses sets a rigorous foundation in theory, experimental design and technical knowledge of contemporary investigations at the cellular level of organization. Areas of research include developmental biology, cellular and developmental neuroscience, immunology, reproductive biology, cellular endocrinology and molecular genetics.

Contact Information

- **Oscar Rocha** | bscigrad@kent.edu | 330-672-2297
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person

- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Biological scientists, all other

- 2.2% slower than the average
- 44,700 number of jobs
- $85,290 potential earnings

Biological technicians

- 4.9% about as fast as the average
- 87,500 number of jobs
- $46,340 potential earnings

Microbiologists

- 3.1% about as fast as the average
- 20,200 number of jobs
- $84,400 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Completion of undergraduate coursework roughly equivalent to the Biology minor
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s) - copies of official transcripts can be submitted for initial review of application
- Résumé or curriculum vitae
- Personal statement that clearly explains why the applicant wishes to pursue an advanced degree and describes research experience and interest; statement must include a list of potential faculty mentors
- Three letters of recommendation that comment on chance of success in an advanced degree program, with minimum one from someone who can comment on research aptitude
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: November 15
    Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BSCI 50142	BIOENERGETICS	3
BSCI 50143	EUKARYOTIC CELL BIOLOGY	3
BSCI 60104	BIOLOGICAL STATISTICS [1]	4
BSCI 60144	SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY	1
BSCI 60184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES [2]	2
BSCI 60191	SEMINAR IN BIOLOGY (taken 2-4 times)	2-4
Major Electives [3]		9-11
Student Seminar Presentation [4]		
Culminating Requirement		
BSCI 60199	THESIS I [5]	6
Minimum Total Credit Hours:		**32**

[1] Students may substitute a different graduate-level statistics course for BSCI 60104, if deemed appropriate by the students' advisor/guidance committee.

[2] Students are required to enroll in BSCI 60184 their first semester (or the following fall semester for those starting their studies in the spring semester).

[3] Students are to select courses in consultation with their academic faculty advisor. It is recommended that students enroll in BSCI 50195 for selected current topics. Additional coursework should provide the necessary skills and/or knowledge base to aid in the completion of the student's research project and be beneficial for their professional development.

[4] Students are required to present at least one departmental seminar about their work.

[5] After completing 6 credit hours of BSCI 60199, students must register continually for BSCI 60299 until the degree is earned. Students begin research by successfully preparing, presenting and defending a formal prospectus for their research project to their committee. For the thesis and final defense, it is expected that students will present the results of their study in a defense open to students and faculty. The thesis must be presented and defended before the Guidance Committee with not more than one negative vote in order to be recommended to the Department of Biological Sciences and the College of Arts and Sciences for degree conferral.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students must complete a minimum 14 credit hours of graduate courses beyond BSCI 60198 toward their degree.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain advanced biological concepts specific to cellular biology and molecular genetics beyond the undergraduate level.
2. Design experiments to test scientific hypotheses using appropriate methods and research techniques.
3. Conduct original research studies to investigate specific biological questions and present findings in a written thesis.
4. Communicate scientific findings effectively to disciplinary and interdisciplinary audiences.

Biological Sciences - Cell Biology and Molecular Genetics - Ph.D.

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology/graduate

About This Program

The Ph.D. degree in Biological Sciences - Cell Biology and Molecular Genetics is an individualized program of study and research that prepares students for career opportunities in teaching and research in academic, governmental and industrial settings. A core series of courses sets a rigorous foundation in theory, experimental design and technical knowledge of contemporary investigations at the cellular level of organization. Areas of research include developmental biology, cellular and developmental neuroscience, immunology, reproductive biology, cellular endocrinology and molecular genetics.

Contact Information

- **Oscar Rocha** | bscigrad@kent.edu | 330-672-2297
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Biological scientists, all other

- 2.2% slower than the average
- 44,700 number of jobs
- $85,290 potential earnings

Medical scientists, except epidemiologists

- 6.1% faster than the average
- 138,300 number of jobs
- $91,510 potential earnings

Microbiologists

- 3.1% about as fast as the average
- 20,200 number of jobs
- $84,400 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Strong background in biology and related subjects such as chemistry and mathematics[1]
- Official transcript(s) - copies of official transcripts can be submitted for initial review of application
- Résumé or curriculum vitae
- Personal statement that clearly explains why the applicant wishes to pursue an advanced degree and describes research experience and interest; statement must include a list of potential faculty mentors
- Three letters of recommendation that comment on chance of success in an advanced degree program, with minimum one from someone who can comment on research aptitude
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] Student deficiencies in these areas at the time of admission shall be rectified during the first year of graduate study.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: November 15
    Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BSCI 70104	BIOLOGICAL STATISTICS [1]	4
BSCI 70142	BIOENERGETICS	3
BSCI 70143	EUKARYOTIC CELL BIOLOGY	3
BSCI 70144	SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY	1
BSCI 70184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES [2]	2
BSCI 70191	SEMINAR IN BIOLOGY (taken 2-4 times)	2-4
Additional Electives [3]		13-15
Student Seminar Presentation [4]		
Culminating Requirement		
BSCI 80199	DISSERTATION I [5]	30
Minimum Total Credit Hours for Post-Baccalaureate Students		**90**
Minimum Total Credit Hours for Post-Master's Students		**60**

[1] Students may substitute a different graduate-level statistics course for BSCI 70104, if deemed appropriate by the students' advisor/guidance committee.

[2] Students are required to take BSCI 70184 their first semester (or the following fall semester for those starting their studies in the spring semester).

[3] Students are to select courses in consultation with their academic faculty advisor. It is recommended that students enroll in BSCI 70195 for selected current topics. Additional coursework should provide the necessary skills and/or knowledge base to aid in the completion of the student's research project and be beneficial for their professional development.

[4] Students are required to present at least one departmental seminar about their work.

[5] Doctoral candidates, upon admission to candidacy, must register for BSCI 80199 for a total of 30 hours. It is expected that doctoral candidates will continuously register for BSCI 80199, and thereafter BSCI 80299, each semester, until all requirements for the degree have been met. It is expected that candidates will present the results of their research in a defense open to students and faculty, at which the dissertation will be presented and defended before the dissertation committee, with not more than one negative vote, in order to be recommended to the Department of Biological Sciences and the College of Arts and Sciences for degree conferral.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students entering the program with a bachelor's degree must complete a minimum 20 credit hours of graduate courses beyond BSCI 80198 toward their degree.
- Students entering the program with a master's degree should consult with their guidance committee to determine how many courses are required.

Candidacy for the Degree

Following completion of the candidacy exam, doctoral students must successfully prepare, present and defend a formal prospectus of the research project before the dissertation committee.

Candidacy Exams: Students are admitted to doctoral candidacy following successful completion of both written and oral candidacy examinations. These exams are based on prior coursework and coursework taken in this graduate program as determined by students' academic Guidance Committee, which must consist of at least three eligible faculty members. The advisor(s) and a majority of members of the Guidance Committee must be members of the appropriate graduate program. This committee is responsible for determining the student's academic curriculum and for administering the candidacy exams. Following successful completion of candidacy exams, students register for dissertation - BSCI 80199 for two semesters and, thereafter, for BSCI 80299 continually until complete.

Prospectus: Following completion of the candidacy exam, doctoral students must successfully prepare, present and defend a formal prospectus of the research project before their dissertation committee.

Dissertation and Final Defense: Doctoral candidates must complete a dissertation. It is expected that candidates will present the results of their research in a defense open to students and faculty, during which they will present and defend their dissertation before their dissertation committee, with not more than one negative vote, in order to be recommended to the department and College of Arts and Sciences for degree conferral

Program Learning Outcomes

Graduates of this program will be able to:

1. Synthesize complex biological theories and empirical findings in cellular biology and molecular genetic beyond the master's level.

2. Formulate and test novel hypotheses using advanced research techniques.

3. Produce original research that contributes new knowledge to the biological sciences and defend findings in a written dissertation.

4. Disseminate scientific research through professional presentations and publications for diverse audiences with colleagues as well as with those outside their research field

Biological Sciences - Ecology and Evolutionary Biology - M.S.

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology/graduate

About This Program

The Biological Sciences - Ecology and Evolutionary Biology M.S. program offers a comprehensive curriculum that combines theory and practice to provide you with a deep understanding of the complex relationships between organisms and their environment. With access to cutting-edge research facilities, experienced faculty and real-world opportunities, you will gain the skills and knowledge needed to make a meaningful impact in the industry. Read more...

Contact Information

- **Oscar Rocha** | bscigrad@kent.edu | 330-672-2297
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Biological scientists, all other

- 2.2% slower than the average
- 44,700 number of jobs
- $85,290 potential earnings

Environmental science teachers, postsecondary

- 3.7% about as fast as the average
- 7,600 number of jobs
- $84,740 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Undergraduate coursework roughly equivalent to the Biology minor
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s) - copies of official transcripts can be submitted for initial review of application
- Résumé or curriculum vitae
- Personal statement that clearly explains why the applicant wishes to pursue an advanced degree and describes research experience and interest; statement must include a list of potential faculty mentors
- Three letters of recommendation that comment on chance of success in an advanced degree program, with minimum one from someone who can comment on research aptitude
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: November 15
    Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BSCI 60104	BIOLOGICAL STATISTICS	4
BSCI 60184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES [1]	2
BSCI 60191	SEMINAR IN BIOLOGY (taken 2-4 times)	2-4
BSCI 60370	ECOLOGICAL AND EVOLUTIONARY GENETICS	2
or BSCI 60371	EVOLUTIONARY BIOLOGY	
BSCI 60372	COMMUNITIES AND ECOSYSTEMS	2
or BSCI 60373	POPULATION AND COMMUNITY ECOLOGY	
Additional Electives		12-14
Student Seminar Presentation [2]		
Culminating Requirement		
BSCI 60199	THESIS I [3]	6
Minimum Total Credit Hours:		**32**

[1] Students are required to take BSCI 60184 their first semester (or the following fall semester for those starting their studies in the spring semester).

[2] Students are required to present at least one departmental seminar about their research.

[3] After completing 6 credit hours of BSCI 60199, students must register continually for BSCI 60299 until the degree is earned. Students begin

research by successfully preparing, presenting and defending a formal prospectus for their research project to their committee. For the thesis and final defense, it is expected that students will present the results of their study in a defense open to students and faculty. The thesis must be presented and defended before the Guidance Committee with not more than one negative vote in order to be recommended to the Department of Biological Sciences and the College of Arts and Sciences for degree conferral.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students must complete a minimum 14 credit hours of graduate courses beyond BSCI 60198 toward their degree.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain advanced biological concepts specific to ecology and evolutionary biology beyond the undergraduate level.
2. Design experiments to test scientific hypotheses using appropriate methods and research techniques.
3. Conduct original research studies to investigate specific biological questions and present findings in a written thesis.
4. Communicate scientific findings effectively to disciplinary and interdisciplinary audiences.

Full Description

The Master of Science degree in Biological Sciences - Ecology and Evolutionary Biology provides opportunities to study in areas such as animal behavior, entomology, limnology, microbial ecology, ornithology, systems ecology, systematic and evolutionary biology, environmental physiology, vertebrate ecology and population and community ecology. Although courses of study are tailored to students' interests and needs, the program for all students normally includes training in population, community, ecosystems and evolutionary ecology and statistical theory. Because of the interdisciplinary nature of ecology, students are encouraged to take courses in geology, mathematics, chemistry and other disciplines.

Biological Sciences - Ecology and Evolutionary Biology - Ph.D.

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology/graduate

About This Program

The Biological Sciences - Ecology and Evolutionary Biology Ph.D. program offers a rigorous curriculum that prepares you for a wide range of leadership roles in the field. With access to state-of-the-art research facilities, experienced faculty and real-world opportunities, you will gain the skills and knowledge needed to conduct groundbreaking research and make a meaningful impact in the industry. Read more...

Contact Information

- **Oscar Rocha** | bscigrad@kent.edu | 330-672-2297
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Biological scientists, all other

- 2.2% slower than the average
- 44,700 number of jobs
- $85,290 potential earnings

Environmental science teachers, postsecondary

- 3.7% about as fast as the average
- 7,600 number of jobs
- $84,740 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university
- Strong background in biology and related subjects such as chemistry and mathematics[1]
- Minimum 2.750 GPA on a 4.000-point scale

- Official transcript(s) - copies of official transcripts can be submitted for initial review of application
- Résumé or curriculum vitae
- Personal statement that clearly explains why the applicant wishes to pursue an advanced degree, describes research experience and interest; statement must include a list of potential faculty mentors
- Three letters of recommendation that comment on chance of success in an advanced degree program, with minimum one from someone who can comment on research aptitude
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] Student deficiencies in these areas at the time of admission shall be rectified during the first year of graduate study.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: November 15
    Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BSCI 70104	BIOLOGICAL STATISTICS	4
BSCI 70184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES [1]	2
BSCI 70191	SEMINAR IN BIOLOGY (taken 2-4 times)	2-4
Additional Electives		14-16
Student Seminar Presentation [2]		
Majors Electives, choose from the following:		6
BSCI 70370	ECOLOGICAL AND EVOLUTIONARY GENETICS	
BSCI 70371	EVOLUTIONARY BIOLOGY	
BSCI 70372	COMMUNITIES AND ECOSYSTEMS	
BSCI 70373	POPULATION AND COMMUNITY ECOLOGY	
Culminating Requirement		
BSCI 80199	DISSERTATION I [3]	30
Minimum Total Credit Hours for Post-Baccalaureate Students		**90**
Minimum Total Credit Hours for Post-Master's Students		**60**

[1] Students are required to take BSCI 70184 their first semester (or the following fall semester for those starting their studies in the spring semester).

[2] Students are required to present at least one departmental seminar about their work.

[3] Each doctoral candidate, upon admission to candidacy, must register for BSCI 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for BSCI 80199, and thereafter BSCI 80299, each semester, until all requirements for the degree have been met. It is expected that candidates will present the results of their research in a defense open to students and faculty, at which the dissertation will be presented and defended before the dissertation committee, with not more than one negative vote, in order to be recommended to the Department of Biological Sciences and the College of Arts and Sciences for degree conferral.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students entering the program with a bachelor's degree must complete a minimum 20 credit hours of graduate courses beyond BSCI 80198 toward their degree.
- Students entering the program with a master's degree should consult with their guidance committee to determine how many courses are required.

Candidacy for the Degree

After completing the required coursework, students complete the doctoral program by being admitted to candidacy, by proposing a research project to the faculty and by completing and defending that research with a written dissertation before a faculty committee.

Candidacy Exams: Students are admitted to doctoral candidacy following successful completion of both written and oral candidacy examinations. These exams are based on prior coursework and coursework taken in this graduate program as determined by students' academic Guidance Committee, which must consist of at least three eligible faculty members. The advisor(s) and a majority of members of the Guidance Committee must be members of the appropriate graduate program. This committee is responsible for determining the student's academic curriculum and for administering the candidacy exams. Following successful completion of candidacy exams, students register for dissertation - BSCI 80199 for two semesters and, thereafter, for BSCI 80299 continually until complete.

Prospectus: Following completion of the candidacy exam, students must successfully prepare, present and defend a formal prospectus of the research project before their dissertation committee.

Dissertation and Final Defense: Doctoral candidates must complete a dissertation. It is expected that candidates will present the results of their research in a defense open to students and faculty, during which they will present and defend before the dissertation committee, with not more than one negative vote, in order to be recommended to the department and College of Arts and Sciences for degree conferral.

Program Learning Outcomes

Graduates of this program will be able to:

1. Synthesize complex biological theories and empirical findings in ecology and evolutionary biology beyond the master's level.

2. Formulate and test novel hypotheses using advanced research techniques.

3. Produce original research that contributes new knowledge to the biological sciences and defend findings in a written dissertation.

4. Disseminate scientific research through professional presentations and publications for diverse audiences with colleagues as well as with those outside their research field

Full Description

The Ph.D. degree in Biological Sciences - Ecology and Evolutionary Biology provides opportunities to study in areas such as animal behavior, entomology, limnology, microbial ecology, ornithology, systems ecology, systematic and evolutionary biology, environmental physiology, vertebrate ecology and population and community ecology. Although courses of study are tailored to students' interests and needs, the program for all students normally includes training in population, community, ecosystems and evolutionary ecology and statistical theory. Because of the interdisciplinary nature of ecology, students are encouraged to take courses in geology, mathematics, chemistry and other disciplines.

Biological Sciences - Integrative Physiology and Neurobiology - M.S.

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology/graduate

About This Program

The Master of Science degree in Biological Sciences - Integrative Physiology and Neurobiology is the study of a broad range of topics, including endocrinology, neuroscience, immunology, reproductive biology and other regulatory systems. Students have access to resources for physiological research, including a vivarium, tissue culture facility, confocal microscope/visualization facility, laser capture microscope, genomics and proteomics facilities.

Contact Information

- **Oscar Rocha** | bscigrad@kent.edu | 330-672-2297
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Biological scientists, all other

- 2.2% slower than the average
- 44,700 number of jobs
- $85,290 potential earnings

Biological technicians

- 4.9% about as fast as the average
- 87,500 number of jobs
- $46,340 potential earnings

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Medical scientists, except epidemiologists

- 6.1% faster than the average
- 138,300 number of jobs
- $91,510 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Undergraduate coursework roughly equivalent to a Biology minor
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s) - copies of official transcripts can be submitted for initial review of application
- Résumé or curriculum vitae
- Personal statement that clearly explains why the applicant wishes to pursue an advanced degree and describes research experience and interest; statement must include a list of potential faculty mentors
- Three letters of recommendation that comment on chance of success in an advanced degree program, with minimum one from someone who can comment on research aptitude
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: November 15
    Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BSCI 60104	BIOLOGICAL STATISTICS [1]	4
BSCI 60184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES [2]	2
BSCI 60191	SEMINAR IN BIOLOGY (taken 2-4 times)	2-4
Major Electives [3]		16-18
Student Seminar Presentation [4]		
Culminating Requirement		
BSCI 60199	THESIS I [5]	6
Minimum Total Credit Hours:		**32**

1. Students may substitute a different graduate-level statistics course for BSCI 60104 if deemed appropriate by the students' advisor/guidance committee.
2. Students are required to take BSCI 60184 their first semester (or the following fall semester for those starting their studies in the spring semester).
3. Students are to select courses in consultation with their academic faculty advisor. It is recommended that students enroll in BSCI 50142 and BSCI 50195 for selected current topics. Additional coursework should provide the necessary skills and/or knowledge base to aid in the completion of the student's research project and be beneficial for their professional development.
4. Students are required to present at least one departmental seminar about their research.
5. After completing 6 credit hours of BSCI 60199, students must register continually for BSCI 60299 until the degree is earned. Students begin research by successfully preparing, presenting and defending a formal prospectus for their research project to their committee. For the thesis and final defense, it is expected that students will present the results of their study in a defense open to students and faculty. The thesis must be presented and defended before the Guidance Committee with not more than one negative vote in order to be recommended to the Department of Biological Sciences and the College of Arts and Sciences for degree conferral.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students must complete a minimum 14 credit hours of graduate courses beyond BSCI 60198 toward their degree.
- No more than one-half of a graduate student’s coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain advanced biological concepts specific to physiology and neurobiology beyond the undergraduate level.

2. Design experiments to test scientific hypotheses using appropriate methods and research techniques.

3. Conduct original research studies to investigate specific biological questions and present findings in a written thesis.

4. Communicate scientific findings effectively to disciplinary and interdisciplinary audiences.

Biological Sciences - Integrative Physiology and Neurobiology - Ph.D.

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology/graduate

About This Program

The Ph.D. degree in Biological Sciences - Integrative Physiology and Neurobiology is the study of a broad range of topics, including endocrinology, neuroscience, immunology, reproductive biology and other regulatory systems. Students have access to resources for physiological research, including a vivarium, tissue culture facility, confocal microscope/visualization facility, laser capture microscope, genomics and proteomics facilities.

Contact Information

- **Oscar Rocha** | bscigrad@kent.edu | 330-672-2297
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Biological scientists, all other

- 2.2% slower than the average
- 44,700 number of jobs
- $85,290 potential earnings

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Medical scientists, except epidemiologists

- 6.1% faster than the average
- 138,300 number of jobs
- $91,510 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university in the natural sciences
- Strong background in biology and related subjects such as chemistry and mathematics[1]
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s) - copies of official transcripts can be submitted for initial review of application
- Résumé or curriculum vitae
- Personal statement that clearly explains why the applicant wishes to pursue an advanced degree and describes research experience and interest; statement must include a list of potential faculty mentors
- Three letters of recommendation that comment on chance of success in an advanced degree program, with minimum one from someone who can comment on research aptitude
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

1 Student deficiencies in these areas at the time of admission shall be rectified during the first year of graduate study.

2 International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: November 15
    Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BSCI 70104	BIOLOGICAL STATISTICS [1]	4
BSCI 70184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES [2]	2
BSCI 70191	SEMINAR IN BIOLOGY (taken 2-4 times)	2-4
Additional Electives [3]		20-22
Student Seminar Presentation [4]		
Culminating Requirement		
BSCI 80199	DISSERTATION I [5]	30
Minimum Total Credit Hours for Post-Baccalaureate Students		**90**
Minimum Total Credit Hours for Post-Master's Students		**60**

1 Students may substitute a different graduate-level statistics course for BSCI 70104, if deemed appropriate by the students' advisor/guidance committee.

2 Students are required to take BSCI 70184 their first semester (or the following fall semester for those starting their studies in the spring semester).

3 Students are to select courses in consultation with their academic faculty advisor. It is recommended that students enroll in BSCI 70142 and BSCI 70195 for selected current topics. Additional coursework should provide the necessary skills and/or knowledge base to aid in the completion of the student's research project and be beneficial for their professional development.

4 Students are required to present at least one departmental seminar about their work.

5 Doctoral candidates, upon admission to candidacy, must register for BSCI 80199 for a total of 30 hours. It is expected that doctoral candidates will continuously register for BSCI 80199, and thereafter BSCI 80299, each semester, until all requirements for the degree have been met. It is expected that candidates will present the results of their research in a defense open to students and faculty, at which the dissertation will be presented and defended before the dissertation committee, with not more than one negative vote, in order to be recommended to the Department of Biological Sciences and the College of Arts and Sciences for degree conferral.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students entering the program with a bachelor's degree must complete a minimum 20 credit hours of graduate courses beyond BSCI 80198 toward their degree.
- Students entering the program with a master's degree should consult with their guidance committee to determine how many courses are required.

Candidacy for the Degree

After completing the required coursework, students complete the doctoral program by being admitted to candidacy, by proposing a research project to the faculty and by completing and defending that research with a written dissertation before a faculty committee.

Candidacy Exams: Students are admitted to doctoral candidacy following successful completion of both written and oral candidacy examinations. These exams are based on prior coursework and coursework taken in this graduate program as determined by students' academic Guidance Committee, which must consist of at least three eligible faculty members. The advisor(s) and a majority of members of the Guidance Committee must be members of the appropriate graduate program. This committee is responsible for determining the student's academic curriculum and for administering the candidacy exams. Following successful completion of candidacy exams, students register for dissertation - BSCI 80199 for two semesters and, thereafter, for BSCI 80299 continually until complete.

Prospectus: Following completion of the candidacy exam, students must successfully prepare, present and defend a formal prospectus of the research project before their dissertation committee.

Dissertation and Final Defense: Doctoral candidates must complete a dissertation. It is expected that candidates will present the results of their research in a defense open to students and faculty, during which they will present and defend before the dissertation committee, with not more than one negative vote, in order to be recommended to the department and College of Arts and Sciences for degree conferral.

Program Learning Outcomes

Graduates of this program will be able to:

1. Synthesize complex biological theories and empirical findings in physiology and neurobiology beyond the master's level.
2. Formulate and test novel hypotheses using advanced research techniques.
3. Produce original research that contributes new knowledge to the biological sciences and defend findings in a written dissertation.
4. Disseminate scientific research through professional presentations and publications for diverse audiences with colleagues as well as with those outside their research field.

Biological Sciences - Minor

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology

About This Program

The Biological Sciences minor provides a background in fundamental principles of biology to complement other areas of study. The minor is ideal for students who want to enter non-science professions where having an understanding of biology is beneficial.

Contact Information

- **Edgar Kooijman** | ekooijma@kent.edu | 330-672-8568
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
Minor Requirements		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40163	EVOLUTION	3
Biology (BSCI) Electives [1]		8
Minimum Total Credit Hours:		**22**

[1] Students should consult with a biology advisor to determine the most appropriate elective courses given their disciplinary interests and career aspirations.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS	4
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4

BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

Biology - B.A.

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology

About This Program

Explore the fascinating world of biology with Kent State's Biology B.A. program. Gain a deep understanding of the complexities of life, from the molecular level to the ecosystem level, through engaging coursework and hands-on experience. Our program prepares you for a variety of career paths, from healthcare to research and beyond. Enroll now for endless opportunities in biology. Read more...

Contact Information

- **Edgar Kooijman** | ekooijma@kent.edu | 330-672-8568
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus (major and optional concentration)
  - Stark Campus (major only)

Examples of Possible Careers and Salaries*

Biological scientists, all other

- 2.2% slower than the average
- 44,700 number of jobs
- $85,290 potential earnings

Biological technicians

- 4.9% about as fast as the average
- 87,500 number of jobs
- $46,340 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30105	CAREER PATHWAYS IN BIOLOGY	1
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40163	EVOLUTION	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) [1]	1
CHEM 10058	GENERAL CHEMISTRY FOR LIFE SCIENCES I [2]	4
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Biology (BSCI) Electives [3]		5
Biology (BSCI) Upper-Division Electives (30000 or 40000 level) [3]		10
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		22
Additional Requirements or Concentration		
Choose from the following:		27
Additional Requirements for Students Not Declaring a Concentration		
Animal Ecology Concentration		
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Students who plan to attend a professional or graduate program are strongly encouraged to take CHEM 10060.

[3] Students should consult with a faculty advisor to determine the most appropriate courses given their disciplinary interests and career aspirations. A maximum 6 credit hours of any combination of BSCI 40192, BSCI 40196 and BSCI 40199 may be used to fulfill electives.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CHEM 10059	GENERAL CHEMISTRY FOR LIFE SCIENCES II [1]	4
or CHEM 10061	GENERAL CHEMISTRY II (KBS)	
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
MATH 11022	TRIGONOMETRY (KMCR)	3
Additional Requirements (courses do not count in major GPA)		
General Electives		19
Minimum Total Credit Hours:		**27**

[1] Students who took CHEM 10058 must take CHEM 10059. Students who took CHEM 10060 must take CHEM 10061.

Animal Ecology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 30360	GENERAL ECOLOGY	4
Botany Elective, choose from the following:		3-4
BSCI 30267	PLANT PHYSIOLOGY	
BSCI 30270	GENERAL PLANT BIOLOGY	
BSCI 30274	FORESTRY	
BSCI 30275	LOCAL FLORA (ELR)	
BSCI 30277	ECONOMIC BOTANY	
BSCI 40270	PLANT ECOLOGY	
Conservation and Management Elective, choose from the following:		3-4
BSCI 30362	INTRODUCTION TO BIOLOGY OF THE TROPICS	
BSCI 30370	CLIMATE CHANGE BIOLOGY	
BSCI 40170	STREAM BIOLOGY	
BSCI 40364	LIMNOLOGY	
BSCI 40368	WETLAND ECOLOGY AND MANAGEMENT (ELR)	
BSCI 40374	CONSERVATION BIOLOGY (ELR)	
BSCI 40375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT	
General Animal Ecology Electives, choose from the following:		6-8
BSCI 30361	BIOGEOGRAPHY	
BSCI 30560	INVERTEBRATE ZOOLOGY	
BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 40515	ANIMAL BEHAVIOR	
BSCI 40556	VERTEBRATE ZOOLOGY	
Zoology Electives, choose from the following:		6-8
BSCI 30580	ENTOMOLOGY	
BSCI 30582	ORNITHOLOGY	
BSCI 40360	ICHTHYOLOGY	
BSCI 40558	MAMMALOGY	
BSCI 40560	HERPETOLOGY	
Additional Requirements (courses do not count in major GPA)		
Kent Core Additional		5
Minimum Total Credit Hours:		**27**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS	4

BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmaps

Biology Major (No Concentration)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	Note: Placement in MATH courses may require additional coursework before the spring semester during first year of enrollment		
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
	MATH 11022	TRIGONOMETRY (KMCR)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	BSCI 30105	CAREER PATHWAYS IN BIOLOGY	1
!	CHEM 10058 or CHEM 10060	GENERAL CHEMISTRY FOR LIFE SCIENCES I or GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Four		
!	BSCI 30156	ELEMENTS OF GENETICS	3
!	CHEM 10059 or CHEM 10061	GENERAL CHEMISTRY FOR LIFE SCIENCES II or GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	General Electives		7
		Credit Hours	**15**
	Semester Five		
	BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	Biology (BSCI) Electives		5
	Foreign Language		4
	General Elective		3
		Credit Hours	**13**
	Semester Six		
	Biology (BSCI) Upper-Division Elective (30000 or 40000 level)		3
	Foreign Language		4
	General Electives		9
		Credit Hours	**16**
	Semester Seven		
	BSCI 40163	EVOLUTION	3
	Biology (BSCI) Upper-Division Electives (30000 or 40000 level)		4
	Foreign Language and/or General Elective		3
	General Electives		6
		Credit Hours	**16**
	Semester Eight		
	Biology (BSCI) Upper-Division Elective (30000 or 40000 level)		3
	Foreign Language and/or General Elective		3

	General Electives		9
	Credit Hours		**15**
	Minimum Total Credit Hours:		**120**

Animal Ecology Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		**14**
	Semester Two		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
	Credit Hours		**16**
	Semester Three		
	BSCI 30105	CAREER PATHWAYS IN BIOLOGY	1
!	CHEM 10058 or CHEM 10060	GENERAL CHEMISTRY FOR LIFE SCIENCES I or GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		2
	General Elective		3
	Credit Hours		**17**
	Semester Four		
	BSCI 30156	ELEMENTS OF GENETICS	3
	Kent Core Requirement		3
	General Electives		9
	Credit Hours		**15**
	Semester Five		
!	BSCI 30360	GENERAL ECOLOGY	4
	BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	Biology (BSCI) Elective		3
	Concentration Elective		3-4
	Foreign Language		4
	Credit Hours		**15**
	Semester Six		
	Concentration Electives		6-8
	Foreign Language		4
	General Elective		3
	Credit Hours		**13**
	Semester Seven		
	BSCI 40163	EVOLUTION	3
	Biology (BSCI) Elective		2
	Concentration Electives		6-8
	Foreign Language and/or General Elective		3
	Credit Hours		**14**
	Semester Eight		
	Biology (BSCI) Upper-Division Electives (30000 or 40000 level)		10
	Concentration Elective		3-4
	Foreign Language and/or General Elective		3
	Credit Hours		**16**
	Minimum Total Credit Hours:		**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand fundamental biological principles.
2. Acquire the foundational skills necessary for laboratory and field investigations.
3. Conduct proper experimental design, analyze biological data and communicate research results.

4. Know and appreciate the role that biology plays in societal issues, such as those related to the environment, biodiversity, ethics and human health and disease.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Biology is for students who are interested in the biological sciences, but who also want a degree with a strong liberal arts component. The program provides a basic background in biology while offering the opportunity to take a wide range of classes in other disciplines.

The Biology major includes the following optional concentration:

- The **Animal Ecology** concentration focuses on animals and their environment. Students choose electives from several categories, including zoology, conservation and environmental management and botany.

Biologists work in a variety of settings, and career opportunities are available in government agencies, privately owned companies and non-profit groups. Graduates may also choose to further their education beyond a bachelor's degree by attending graduate or professional school. The Department of Biological Sciences has several mechanisms to help students prepare for their future careers.

Biology - B.S.

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology

About This Program

Our Biology B.S. program provides you with a solid foundation in the fundamental principles of biology, as well as advanced knowledge in specialized areas of the discipline. With state-of-the-art facilities, cutting-edge technology and experienced faculty, you will gain the skills needed to succeed in the fast-paced world of biology. Read more...

Contact Information

- **Edgar Kooijman** | ekooijma@kent.edu | 330-672-8568
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Biological scientists, all other

- 2.2% slower than the average
- 44,700 number of jobs
- $85,290 potential earnings

Biological technicians

- 4.9% about as fast as the average
- 87,500 number of jobs
- $46,340 potential earnings

Life scientists, all other

- 4.6% about as fast as the average
- 7,000 number of jobs
- $82,000 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40163	EVOLUTION	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) [1]	1
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	3-4
or CHEM 30481	ORGANIC CHEMISTRY I	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		10
Concentrations		
Choose from the following:		61
Molecular and Cellular Biology		
Organismal Biology		
Pre-Medicine/Pre-Podiatry/Pre-Dentistry		
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Molecular and Cellular Biology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 30140	CELL BIOLOGY	4
BSCI 40158	MOLECULAR BIOLOGY	3
BSCI 40224	QUANTITATIVE METHODS IN BIOLOGY	3-5
or MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
CHEM 20482	BASIC ORGANIC CHEMISTRY II [1]	1-3
or CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
or CHEM 30482	ORGANIC CHEMISTRY II	
Biology Elective, choose from the following: [2,3]		1-6
BSCI 30105	CAREER PATHWAYS IN BIOLOGY	
BSCI 40192	INTERNSHIP IN BIOLOGICAL SCIENCES (ELR)	
BSCI 40196	INDIVIDUAL INVESTIGATION (ELR)	
BSCI 40199	SENIOR HONORS THESIS (ELR)	
Biology, Chemistry, Physics Electives, choose from the following: [2]		25-30
CHEM 20482	BASIC ORGANIC CHEMISTRY II [1]	
or CHEM 30482	ORGANIC CHEMISTRY II	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
Any Biological Sciences (BSCI) Upper-Division course (30000 or 40000 level) [3]		
General Chemistry Electives, choose from the following: [4]		8
CHEM 10058 & CHEM 10059	GENERAL CHEMISTRY FOR LIFE SCIENCES I and GENERAL CHEMISTRY FOR LIFE SCIENCES II [1]	
CHEM 10060 & CHEM 10061	GENERAL CHEMISTRY I (KBS) and GENERAL CHEMISTRY II (KBS)	
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Additional		2
General Elective		3
Minimum Total Credit Hours:		**61**

[1] CHEM 20482 may be substituted with CHEM 30284 with faculty advisor approval.

[2] Students should select their electives in consultation with a faculty advisor. A total of 31 credit hours combined are required to fulfill the Biology Elective and Biology, Chemistry, Physics Electives.

[3] A maximum 6 credit hours of any combination of BSCI 30105, BSCI 40192, BSCI 40196 and BSCI 40199 may be applied toward the major (with no more than 4 credit hours S/U graded). Enrollment in these courses must be determined with a faculty advisor.

[4] Students who plan to attend a professional or graduate program are strongly encouraged to take CHEM 10060 and CHEM 10061.

Organismal Biology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 40224	QUANTITATIVE METHODS IN BIOLOGY	3-5
or MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
CHEM 20482	BASIC ORGANIC CHEMISTRY II [1]	1-3
or CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
or CHEM 30482	ORGANIC CHEMISTRY II	
Biology Elective, choose from the following: [2,3]		1-6
BSCI 30105	CAREER PATHWAYS IN BIOLOGY	
BSCI 40192	INTERNSHIP IN BIOLOGICAL SCIENCES (ELR)	
BSCI 40196	INDIVIDUAL INVESTIGATION (ELR)	
BSCI 40199	SENIOR HONORS THESIS (ELR)	
Biology, Chemistry, Physics Electives, choose from the following: [2]		24-29
CHEM 20482	BASIC ORGANIC CHEMISTRY II [1]	
or CHEM 30482	ORGANIC CHEMISTRY II	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
Any Biological Sciences (BSCI) Upper-Division course (30000 or 40000 level) [3]		
General Chemistry Electives, choose from the following: [4]		8
CHEM 10058 & CHEM 10059	GENERAL CHEMISTRY FOR LIFE SCIENCES I and GENERAL CHEMISTRY FOR LIFE SCIENCES II	
CHEM 10060 & CHEM 10061	GENERAL CHEMISTRY I (KBS) and GENERAL CHEMISTRY II (KBS)	
Organismal Core Electives, choose from the following:		7-8
BSCI 30171	GENERAL MICROBIOLOGY	
BSCI 30270	GENERAL PLANT BIOLOGY	
BSCI 30275	LOCAL FLORA (ELR)	
BSCI 30360	GENERAL ECOLOGY	
BSCI 30560	INVERTEBRATE ZOOLOGY	
BSCI 30580	ENTOMOLOGY	
BSCI 40272	PLANT ANATOMY	
BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 40556	VERTEBRATE ZOOLOGY	
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Additional		2
General Electives		4
Minimum Total Credit Hours:		**61**

[1] CHEM 20482 may be substituted with CHEM 30284 with faculty advisor approval.

[2] Students should select their electives in consultation with a faculty advisor. A total of 30 credit hours combined are required to fulfill the Biology Elective and Biology, Chemistry, Physics Electives.

[3] A maximum 6 credit hours of any combination of BSCI 30105, BSCI 40192, BSCI 40196 and BSCI 40199 may be applied toward the major (with no more than 4 credit hours S/U graded). Enrollment in these courses must be determined with a faculty advisor.

[4] Students who plan to attend a professional or graduate program are strongly encouraged to take CHEM 10060 and CHEM 10061.

Pre-Medicine/Pre-Podiatry/Pre-Dentistry Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 30105	CAREER PATHWAYS IN BIOLOGY	1
BSCI 30130	HUMAN PHYSIOLOGY	3
or BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 30140	CELL BIOLOGY	4
BSCI 30171	GENERAL MICROBIOLOGY	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 20482	BASIC ORGANIC CHEMISTRY II [1]	2-3
or CHEM 30482	ORGANIC CHEMISTRY II	
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
or CHEM 40245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	3-5
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Biological Sciences (BSCI) Upper-Division Electives (30000 or 40000 level) [2]		14
Physics Electives, choose from the following:		10
PHY 13001 & PHY 13002 & PHY 13021 & PHY 13022	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 23101 & PHY 23102	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) and GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
Minimum Total Credit Hours:		**61**

[1] Students must stay within a single organic chemistry series. CHEM 20482 is required if CHEM 20481 is selected in the major core; CHEM 30482 is required if CHEM 30481 is selected in the major core.

[2] Students should select their upper-division biological sciences electives in consultation with a faculty advisor. The following courses are not required, but highly recommended for this major: BSCI 30518, BSCI 40174, BSCI 40517. In addition, students may take the following

(maximum 6 credit hours total, maximum 4 credit hours S/U graded) for biological sciences electives, but are not required to do so: BSCI 40192, BSCI 40196, BSCI 40199.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS	4
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

[1] All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

[2] The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Molecular and Cellular Biology Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10001	FLASHES 101	1
!	General Chemistry Elective		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	General Chemistry Elective		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	BSCI 30140	CELL BIOLOGY	4
!	CHEM 20481 or CHEM 30481	BASIC ORGANIC CHEMISTRY I or ORGANIC CHEMISTRY I	3-4
	CHEM 20482 or CHEM 30475 or CHEM 30482	BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR) or ORGANIC CHEMISTRY II	0-3
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	Biology Elective and/or Biology, Chemistry, Physics Elective		3
		Credit Hours	**16**
	Semester Four		
!	BSCI 30156	ELEMENTS OF GENETICS	3
	BSCI 40224 or MATH 12003 or MATH 30011	QUANTITATIVE METHODS IN BIOLOGY or ANALYTIC GEOMETRY AND CALCULUS II or BASIC PROBABILITY AND STATISTICS	3-5
	CHEM 20482 or CHEM 30475 or CHEM 30482	BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR) or ORGANIC CHEMISTRY II	0-3
	Kent Core Requirement		3

	Kent Core Requirement		3
	Kent Core Requirement		2
		Credit Hours	**14**
	Semester Five		
	Biology Elective and/or Biology, Chemistry, Physics Electives		9
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Six		
	BSCI 40158	MOLECULAR BIOLOGY	3
	Biology Elective and/or Biology, Chemistry, Physics Electives		8
	Foreign Language		4
		Credit Hours	**15**
	Semester Seven		
	BSCI 40163	EVOLUTION	3
	BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	Biology Elective and/or Biology, Chemistry, Physics Electives		8
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
	Biology Elective and/or Biology, Chemistry, Physics Elective		3
	General Electives		10
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

Organismal Biology Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10001	FLASHES 101	1
!	General Chemistry Elective		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	General Chemistry Elective		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	CHEM 20481 or CHEM 30481	BASIC ORGANIC CHEMISTRY I or ORGANIC CHEMISTRY I	3-4
	CHEM 20482 or CHEM 30475 or CHEM 30482	BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR) or ORGANIC CHEMISTRY II	0-3
	Biology Elective and/or Biology, Chemistry, Physics Electives		4
	Organismal Core Electives		4
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	BSCI 30156	ELEMENTS OF GENETICS	3
	CHEM 20482 or CHEM 30475 or CHEM 30482	BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR) or ORGANIC CHEMISTRY II	0-3
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		2
		Credit Hours	**16**
	Semester Five		
	Biology Elective and/or Biology, Chemistry, Physics Electives		9
	Organismal Core Elective		3-4
	Foreign Language		4
		Credit Hours	**16**
	Semester Six		
	BSCI 40224 or MATH 12003 or MATH 30011	QUANTITATIVE METHODS IN BIOLOGY or ANALYTIC GEOMETRY AND CALCULUS II or BASIC PROBABILITY AND STATISTICS	3-5
	Biology Elective and/or Biology, Chemistry, Physics Electives		7
	Foreign Language		4
		Credit Hours	**14**
	Semester Seven		
	BSCI 40163	EVOLUTION	3
	BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	Biology Elective and/or Biology, Chemistry, Physics Electives		7
	General Elective		3
		Credit Hours	**14**
	Semester Eight		
	Biology Elective and/or Biology, Chemistry, Physics Elective		3
	General Electives		11
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

Pre-Medicine/Pre-Podiatry/Pre-Dentistry Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	BSCI 30140	CELL BIOLOGY	4
	CHEM 20481 or CHEM 30481	BASIC ORGANIC CHEMISTRY I or ORGANIC CHEMISTRY I	3-4
	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
!	BSCI 30105	CAREER PATHWAYS IN BIOLOGY	1
!	BSCI 30156	ELEMENTS OF GENETICS	3
	BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	CHEM 20482 or CHEM 30482	BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY II	2-3
	CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
	MATH 12003 or MATH 30011	ANALYTIC GEOMETRY AND CALCULUS II or BASIC PROBABILITY AND STATISTICS	3-5
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Five		
!	BSCI 30130 or BSCI 40430	HUMAN PHYSIOLOGY or ANIMAL PHYSIOLOGY	3
	Biological Sciences (BSCI) Upper-Division Electives (30000 or 40000 level)		4
	Physics Electives		5
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
!	BSCI 30171	GENERAL MICROBIOLOGY	4
	CHEM 30284 or CHEM 40245	INTRODUCTORY BIOLOGICAL CHEMISTRY or BIOCHEMICAL FOUNDATIONS OF MEDICINE	4
	Biological Sciences (BSCI) Upper-Division Elective (30000 or 40000 level)		3
	Physics Electives		5
		Credit Hours	**16**
	Semester Seven		
	BSCI 40163	EVOLUTION	3
	Biological Sciences (BSCI) Upper-Division Elective (30000 or 40000 level)		3
	Foreign Language		4
	General Electives		4
		Credit Hours	**14**
	Semester Eight		
	Biological Sciences (BSCI) Upper-Division Electives (30000 or 40000 level)		4
	Foreign Language		4
	General Electives		6
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the fundamental biological principles.
2. Acquire the fundamental skills necessary for laboratory and field investigations.

3. Conduct proper experimental design, analyze biological data and communicate research results.
4. Know and appreciate the role that biology plays in societal issues, such as those related to the environment, biodiversity, ethics, human health and disease.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Biology is for students who are interested in pursuing an in-depth specialization as a biologist or wish to pursue a medical or healthcare career.

The Biology major comprises the following concentrations:

- The **Molecular and Cellular Biology** concentration is the study of biological processes within and between individual cells, allowing for a better understanding of biological principles in normal and diseased states. The focus of this program includes concepts related to the genetic basis of life, regulation of gene expression and cellular functions.
- The **Organismal Biology** concentration allows students to examine organisms in their natural environment and address fundamental principles of survival and adaptation in discrete micro-environments and entire ecosystems. While basic concepts of biological and chemical functions are covered, the focus of this concentration is comprehensive aspects of the whole organism.
- The **Pre-Medicine/Pre-Podiatry/Pre-Dentistry** concentration prepares students for careers in medicine and healthcare. The curriculum provides the courses necessary for admission to advanced degree programs in healthcare and biomedical science professions.

Biology - M.A.

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology/graduate

About This Program

The Biology M.A. program is designed for students who want to deepen their knowledge in biology and prepare for advanced studies or careers in research, education or industry. With a focus on research and advanced coursework, you will gain the skills needed to tackle complex biological questions and make a meaningful impact in the field. Read more...

Contact Information

- **Oscar Rocha** | bscigrad@kent.edu | 330-672-2297
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Biological scientists, all other

- 2.2% slower than the average
- 44,700 number of jobs
- $85,290 potential earnings

Biological technicians

- 4.9% about as fast as the average
- 87,500 number of jobs
- $46,340 potential earnings

Food scientists and technologists

- 4.4% about as fast as the average
- 14,200 number of jobs
- $73,450 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s) - copies of official transcripts can be used for initial application
- Goal statement
- One letter of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BSCI 60104	BIOLOGICAL STATISTICS	4
BSCI 60110	CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS	2
BSCI 60184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES	2
BSCI 60191	SEMINAR IN BIOLOGY (repeated for 2 credit hours total) [2]	2
BSCI 60196	INDIVIDUAL INVESTIGATION	6
Additional Requirements or Concentration		
Choose from the following:		15
Additional Requirements for Students Not Declaring a Concentration		
Biological Data Analytics Concentration		
Cellular and Molecular Biology Concentration		
Environmental Biology Concentration		
Medical Biology Concentration		
Minimum Total Credit Hours:		**31**

[1] Students must enroll for 1-3 credit hours of BSCI 60196 each semester.
[2] Students must enroll for 1 credit hour of BSCI 60191 each semester.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements		
Courses selected in consultation with academic faculty advisor [1]		15-16
Students interested in cell-/molecular-/biomedical-/biotechnology-related areas are encouraged to choose from the following:		
BSCI 50142	BIOENERGETICS	
BSCI 50143 & BSCI 60144	EUKARYOTIC CELL BIOLOGY and SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY	
BSCI 50158	MOLECULAR BIOLOGY	
BSCI 50174	IMMUNOLOGY	
BSCI 50432	ENDOCRINOLOGY	
Students interested in ecology are encouraged to choose from the following:		
BSCI 50163	EVOLUTION	
BSCI 50363	MICROBIAL ECOLOGY	
BSCI 50364	LIMNOLOGY	
BSCI 50368	WETLAND ECOLOGY AND MANAGEMENT	
BSCI 50374	CONSERVATION BIOLOGY	
BSCI 50556	VERTEBRATE ZOOLOGY	
BSCI 60371	EVOLUTIONARY BIOLOGY	
Teachers holding or pursuing K-12 licensure are encourged to choose from the following:		
BSCI 50141	EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY	
BSCI 50163	EVOLUTION	
Minimum Total Credit Hours:		**15**

[1] Students may not use BSCI 50104 to fulfill degree requirements.

Biological Data Analytics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
BSCI 50218	INTRODUCTION TO GENOMICS	3-4
or BSCI 50220	BIOINFORMATICS	
or BSCI 60107	REPRODUCIBLE QUANTITATIVE METHODS FOR ECOLOGICAL DATA	
Concentration Electives, choose from the following:		12-13
BSCI 50141	EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY	
BSCI 50158	MOLECULAR BIOLOGY	
BSCI 50159	MOLECULAR BIOLOGY LABORATORY	
BSCI 50218	INTRODUCTION TO GENOMICS	
BSCI 50220	BIOINFORMATICS	
BSCI 60107	REPRODUCIBLE QUANTITATIVE METHODS FOR ECOLOGICAL DATA	
BSCI 60145	MEDICAL GENOMICS	
BSCI 60371	EVOLUTIONARY BIOLOGY	
BSCI 60372	COMMUNITIES AND ECOSYSTEMS	
BSCI 60373	POPULATION AND COMMUNITY ECOLOGY	
CS 54202	MACHINE LEARNING AND DEEP LEARNING	
CS 63015	DATA MINING TECHNIQUES	
CS 63016	BIG DATA ANALYTICS	
CS 63017	BIG DATA MANAGEMENT	

CS 63018	PROBABILISTIC DATA MANAGEMENT	
LIS 60030	PEOPLE IN THE INFORMATION ECOLOGY	
Minimum Total Credit Hours:		**15**

Cellular and Molecular Biology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
BSCI 50143	EUKARYOTIC CELL BIOLOGY	3
BSCI 50158	MOLECULAR BIOLOGY	3
Concentration Electives, choose from the following:		9-10
BMS 60729	CELLULAR AND MOLECULAR NEUROSCIENCE	
BSCI 50141	EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY	
BSCI 50148	PRINCIPLES OF INFECTIOUS DISEASE	
BSCI 50150	MOLECULAR MECHANISMS OF DISEASE: CANCER	
BSCI 50151	MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES	
BSCI 50152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 50154	DIABETES AND CARDIOVASCULAR DISEASE	
BSCI 50159	MOLECULAR BIOLOGY LABORATORY	
BSCI 50174	IMMUNOLOGY	
BSCI 50220	BIOINFORMATICS	
BSCI 60145	MEDICAL GENOMICS	
BSCI 60200	FOUNDATIONS OF NEUROSCIENCE	
Minimum Total Credit Hours:		**15**

Environmental Biology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
BSCI 50374	CONSERVATION BIOLOGY	4
or BSCI 50375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT	
Concentration Requirements, choose from the following:		11-12
BSCI 50160	MARINE BIOLOGY	
BSCI 50162	SOIL BIOLOGY	
BSCI 50163	EVOLUTION	
BSCI 50170	STREAM BIOLOGY	
BSCI 50222	INVASION BIOLOGY	
BSCI 50363	MICROBIAL ECOLOGY	
BSCI 50364	LIMNOLOGY	
BSCI 50365	FIELD METHODS IN ORNITHOLOGY	
BSCI 50368	WETLAND ECOLOGY AND MANAGEMENT	
BSCI 50374	CONSERVATION BIOLOGY	
BSCI 50375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT	
BSCI 50376	TROPICAL FIELD BIOLOGY AND CONSERVATION	
BSCI 50380	BIOGEOCHEMISTRY	
BSCI 50556	VERTEBRATE ZOOLOGY	
BSCI 60370	ECOLOGICAL AND EVOLUTIONARY GENETICS	
BSCI 60371	EVOLUTIONARY BIOLOGY	
BSCI 60372	COMMUNITIES AND ECOSYSTEMS	
BSCI 60373	POPULATION AND COMMUNITY ECOLOGY	
ESCI 53042	ENVIRONMENTAL GEOCHEMISTRY	
GEOG 51077	WATER AND SOCIETY	
GEOG 56080	URBAN SUSTAINABILITY	
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59230	REMOTE SENSING	
or ESCI 52030	REMOTE SENSING	
Minimum Total Credit Hours:		**15**

Medical Biology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Medical Biology Electives, choose from the following:		6
BSCI 50148	PRINCIPLES OF INFECTIOUS DISEASE	
BSCI 50150	MOLECULAR MECHANISMS OF DISEASE: CANCER	
BSCI 50151	MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES	
BSCI 50152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 50154	DIABETES AND CARDIOVASCULAR DISEASE	
BSCI 50460	ADVANCED HUMAN PHYSIOLOGY	
Concentration Electives, choose from the following:		9-10
BSCI 50143	EUKARYOTIC CELL BIOLOGY	
BSCI 50146	DEVELOPMENTAL BIOLOGY	
BSCI 50147	DEVELOPMENTAL NEUROBIOLOGY	
BSCI 50148	PRINCIPLES OF INFECTIOUS DISEASE	
BSCI 50150	MOLECULAR MECHANISMS OF DISEASE: CANCER	
BSCI 50151	MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES	
BSCI 50152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 50154	DIABETES AND CARDIOVASCULAR DISEASE	
BSCI 50157	NEUROBIOLOGY OF DRUG ADDICTION	
BSCI 50174	IMMUNOLOGY	
BSCI 50431	NEUROENDOCRINOLOGY	
BSCI 50432	ENDOCRINOLOGY	
BSCI 50450	BIOLOGICAL CLOCKS	
BSCI 50460	ADVANCED HUMAN PHYSIOLOGY	
BSCI 50462	ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES	
BSCI 50517	MEDICAL HISTOLOGY	
BSCI 50519	HORMONES AND BEHAVIOR	
BSCI 60145	MEDICAL GENOMICS	
BSCI 60200	FOUNDATIONS OF NEUROSCIENCE	
HED 64050	HEALTH BEHAVIOR	
PHIL 50005	HEALTH CARE ETHICS	
SOC 62332	SOCIAL CONTROL OF MENTAL ILLNESS	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students must complete a minimum of 23 credit hours of biological science (BSCI) courses toward the degree with one exception: Teachers holding or pursuing K-12 licensure who do not declare a

concentration may complete a minimum 18 credit hours of biological sciences (BSCI) courses toward the degree.
- The Department of Biological Sciences frequently offers special topics classes in specialized areas of interest, which can count towards the degree when approved to be part of a student's program of study. Coursework in other fields within the natural and physical sciences may be used to meet credit hour requirements when approved to be part of the student's program of study.

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain advanced biological concepts that extend beyond the undergraduate level.

2. Design studies to test scientific hypotheses using appropriate biological research methods.

3. Communicate scientific ideas clearly to both biology and non-biology audiences.

Full Description

The Master of Arts degree in Biology is for students wishing to gain additional knowledge in any area of the biological sciences. This is a non-thesis master's degree designed for secondary school science teachers, individuals looking for additional background or preparation for professional school (e.g. medicine, dentistry or Ph.D. programs) and those seeking employment in life science industries in a non-research capacity.

The Biology major includes the following optional concentrations:

- The **Biological Data Analytics** concentration combines required courses in data analytics and elective options in biology to provide students with the understanding of the type of data collected while conducting biological research and how to analyze it.
- The **Cellular and Molecular Biology** concentration provides a heavy focus on cell-to-cell interactions and signaling pathways to give students a deep understanding of the cellular and molecular processes that occur within cells and physiological systems.
- The **Environmental Biology** concentration provides students with a balance between better understanding the relationships between organisms and the environment and how this balance can be sustained through environmental management and conservation.
- The **Medical Biology** concentration provides students with a deep understanding of physiological systems and the mechanisms that underlie various disorders and disease pathologies.

Students who declare the Biology major with no concentration will select their area of specialization in consultation with an academic faculty advisor.

Biology for Environmental Management and Conservation - Minor

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology

About This Program

The Biology for Environmental Management and Conservation minor gives students an understanding of fundamental concepts as well as broader impacts of applied biology, habitat assessment, environmental management and conservation biology in terrestrial and aquatic ecosystems.

Contact Information

- **Edgar Kooijman** | ekooijma@kent.edu | 330-672-8568
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 30360	GENERAL ECOLOGY	4
BSCI 40374	CONSERVATION BIOLOGY (ELR)	4
BSCI 40375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT	4
Biology Electives, choose from the following:		3-5
BSCI 30275	LOCAL FLORA (ELR)	
BSCI 30277	ECONOMIC BOTANY	
BSCI 30370	CLIMATE CHANGE BIOLOGY	
BSCI 40170	STREAM BIOLOGY	
BSCI 40222	INVASION BIOLOGY	
BSCI 40364	LIMNOLOGY	
BSCI 40365	FIELD METHODS IN ORNITHOLOGY (ELR)	
BSCI 40368	WETLAND ECOLOGY AND MANAGEMENT (ELR)	

BSCI 40376	TROPICAL FIELD BIOLOGY AND CONSERVATION (ELR)
BSCI 40377 & BSCI 40378	PREPARATION FOR FIELD COURSE TO SOUTH AFRICA and FIELD COURSE TO SOUTH AFRICA (ELR)
Minimum Total Credit Hours:	**19**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS	4
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge about environmental management, general ecology and conservation biology.
2. Apply knowledge in the identification of plants and animals, habitat management and conservation, and their relevance to environmental management and conservation.
3. Read scientific reports and evaluate and communicate scientific data collected in the field.
4. Apply ecological theory to problems in conservation and environmental management.

Biotechnology - B.S.

College of Arts and Sciences
Department of Biological Sciences
Department of Chemistry and Biochemistry
www.kent.edu/biology

About This Program

Our Biotechnology program offers a thorough education on the principles and techniques of biotechnology, equipping you with the necessary skills for a diverse array of careers in academia, government and industry. With access to cutting-edge research facilities, experienced faculty and real-world opportunities, you will gain the skills and knowledge needed to make an impact in this exciting field. Read more...

Contact Information

- **Min-Ho Kim** | mkim15@kent.edu | 330-672-1445
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Biological technicians

- 4.9% about as fast as the average
- 87,500 number of jobs
- $46,340 potential earnings

Medical scientists, except epidemiologists

- 6.1% faster than the average
- 138,300 number of jobs
- $91,510 potential earnings

Biological scientists, all other

- 2.2% slower than the average
- 44,700 number of jobs
- $85,290 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at

which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30171	GENERAL MICROBIOLOGY	4
BSCI 40158	MOLECULAR BIOLOGY	3
BTEC 10210	INTRODUCTION TO BIOTECHNOLOGY	3
BTEC 40191	SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY	1
BTEC 40192	INTERNSHIP IN BIOTECHNOLOGY (ELR)	6-12
or BTEC 40196	INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)	
BTEC 40210	CASE STUDIES IN BIOTECHNOLOGY (WIC) [1]	3
BTEC 40220	BIOINFORMATICS	3
BUS 10123	EXPLORING BUSINESS	3
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC) (min grade C) [1]	2
CHEM 40262	BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 30011	BASIC PROBABILITY AND STATISTICS	3
PHIL 30015	MEDICINE AND MORALITY	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Major Electives, choose from the following:		9
BSCI 30518	VERTEBRATE ANATOMY	
BSCI 40143	EUKARYOTIC CELL BIOLOGY	
BSCI 40159	MOLECULAR BIOLOGY LABORATORY (ELR) (WIC) [1]	
BSCI 40174	IMMUNOLOGY	
BSCI 40463	MEDICAL BIOTECHNOLOGY	
CHEM 30105	ANALYTICAL CHEMISTRY I	
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) [1]	
CHEM 30301	INORGANIC CHEMISTRY I	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
CHEM 40109	BIOANALYTICAL CHEMISTRY	
CHEM 40365	BIOLOGICAL INORGANIC CHEMISTRY	
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	
PSYC 41363	BIOPSYCHOLOGY	
Any Upper-Division course (30000 or 40000 level) approved by program director		
Additional Requirements (courses do not count in major GPA)		
CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	4
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences (must be from two disciplines)		6
General Elective (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		1
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

[1] All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

[2] The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
		Credit Hours	**15**
	Semester Two		
	BSCI 30140	CELL BIOLOGY	4
	BTEC 10210	INTRODUCTION TO BIOTECHNOLOGY	3
	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	BSCI 30171	GENERAL MICROBIOLOGY	4
	CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
	PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
	Foreign Language		4
		Credit Hours	**15**
	Semester Four		
	BSCI 30156	ELEMENTS OF GENETICS	3
	CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	4
	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	Foreign Language		4
		Credit Hours	**16**
	Semester Five		
	BUS 10123	EXPLORING BUSINESS	3
	MATH 30011	BASIC PROBABILITY AND STATISTICS	3
	PHIL 30015	MEDICINE AND MORALITY	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		1
		Credit Hours	**16**
	Semester Six		
	BSCI 40158	MOLECULAR BIOLOGY	3
	CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	Major Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Third Summer Term		
	BTEC 40192 or BTEC 40196	INTERNSHIP IN BIOTECHNOLOGY (ELR) or INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)	2-6
		Credit Hours	**2**
	Semester Seven		
	BTEC 40191	SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY	1
	BTEC 40210	CASE STUDIES IN BIOTECHNOLOGY (WIC)	3
	BTEC 40220	BIOINFORMATICS	3
	Major Elective		3
	Kent Core Requirement		3
		Credit Hours	**13**
	Semester Eight		
	BTEC 40192 or BTEC 40196	INTERNSHIP IN BIOTECHNOLOGY (ELR) or INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)	4-6
	CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC)	2
	CHEM 40262	BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION	3
	Major Elective		3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge and information to complex issues in biotechnology.
2. Use problem-solving and data-gathering skills to comprehend issues in biotechnology.
3. Develop inductive reasoning and technical communications skills in the context of working in a complex group environment.
4. Analyze scientific papers and expand skills for listening to and critiquing scientific seminars based on the literature or current research.
5. Effectively communicate scientific information.
6. Develop collaborative working relationships with research mentors and laboratory members.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Biotechnology is an interdisciplinary program that provides a strong academic foundation in biological sciences and chemistry, practical training in the various biotechnologies and a solid understanding of their application in industry and biomedicine. The science of biotechnology extends across many areas of biology and chemistry and provides cutting-edge technology tools for modern biology and biomedical research. The curriculum includes a research experience at Kent State and/or an internship at a biotechnology company.

Biotechnology graduates have employment opportunities in biomedical research and in the rapidly growing biotechnology and pharmaceutical industries.

Environmental and Conservation Biology - B.S.

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology

About This Program

The Environmental and Conservation Biology program combines the fundamental science of ecology with applied aspects of conservation and management to prepare you for one of many rewarding careers in environmental science. Enroll now and make a difference for future generations. Read more...

Contact Information

- **Edgar Kooijman** | ekooijma@kent.edu | 330-672-8568
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Conservation scientists

- 5.1% faster than the average
- 24,500 number of jobs
- $64,020 potential earnings

Forest and conservation technicians

- 0.6% little or no change
- 21,200 number of jobs
- $38,940 potential earnings

Foresters

- 3.8% about as fast as the average
- 11,600 number of jobs
- $63,980 potential earnings

Forestry and conservation science teachers, postsecondary

- 2.2% slower than the average
- 2,100 number of jobs
- $87,400 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30360	GENERAL ECOLOGY	4
BSCI 40163	EVOLUTION	3
BSCI 40224	QUANTITATIVE METHODS IN BIOLOGY [1]	3-4
or ESCI 42035	DATA ANALYSIS IN THE EARTH SCIENCES	
or GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY	
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) [2]	1
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
ESCI 11040	HOW THE EARTH WORKS (KBS)	3
ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Biology Elective, choose from the following: [3]		1-6
BSCI 30105	CAREER PATHWAYS IN BIOLOGY	
BSCI 40192	INTERNSHIP IN BIOLOGICAL SCIENCES (ELR)	
BSCI 40196	INDIVIDUAL INVESTIGATION (ELR)	
BSCI 40199	SENIOR HONORS THESIS (ELR)	
Earth Science Electives, choose from the following:		6-8
ESCI 32066	GEOMORPHOLOGY	
ESCI 33025	WATER AND THE ENVIRONMENT	
ESCI 41077	GEOLOGY OF THE NATIONAL PARKS	
ESCI 42065	WATERSHED HYDROLOGY	
ESCI 42066	PHYSICAL HYDROGEOLOGY	
ESCI 43042	ENVIRONMENTAL GEOCHEMISTRY	
ESCI 44072	MARINE PROCESSES	
ESCI 44074	PALEOCEANOGRAPHY	
Any Earth Science (ESCI) Upper-Division course (30000 or 40000 level) with biology advisor approval		
General Chemistry Electives, choose from the following: [4]		8

CHEM 10058 & CHEM 10059	GENERAL CHEMISTRY FOR LIFE SCIENCES I and GENERAL CHEMISTRY FOR LIFE SCIENCES II	
CHEM 10060 & CHEM 10061	GENERAL CHEMISTRY I (KBS) and GENERAL CHEMISTRY II (KBS)	
Geography Electives, choose from the following:		6
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 31064	CLIMATE AND THE ENVIRONMENT	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 41066	GLOBAL CLIMATE CHANGE	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 41077	WATER AND SOCIETY	
GEOG 41800	GLOBAL ENVIRONMENTAL ISSUES	
GEOG 46080	URBAN SUSTAINABILITY	
GEOG 49078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49230	REMOTE SENSING	
Any Geography (GEOG) Upper-Division course (30000 or 40000 level) with biology advisor approval		
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		7
Concentrations		
Choose from the following:		25
Conservation Biology		
Environmental Policy and Management		
Minimum Total Credit Hours:		**120**

1 BSCI 40224, ESCI 42035 or GEOG 39002 can be taken during either fall or spring semester depending on which course is selected. Please speak with a faculty advisor to adjust courses accordingly.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

3 Students should select their electives in consultation with a faculty advisor. A maximum 6 credit hours of any combination of BSCI 30105, BSCI 40192, BSCI 40196 and BSCI 40199 may be applied toward the major (with no more than 4 credit hours S/U graded).

4 Students who plan to attend a professional or graduate program are strongly encouraged to take CHEM 10060 and CHEM 10061.

Conservation Biology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 40374	CONSERVATION BIOLOGY (ELR)	4
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 20482	BASIC ORGANIC CHEMISTRY II	1-2
or CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
Concentration Electives, choose from the following: [1]		15
ANTH 48835	PRIMATE ECOLOGY AND CONSERVATION	
POL 10300	PUBLIC POLICY	
POL 40440	U.S. ENVIRONMENTAL POLITICS AND POLICIES	
Any Biological Sciences (BSCI) Upper-Division course (30000 or 40000 level) [2]		
Additional Requirements (courses do not count in major GPA)		
General Elective		1
Minimum Total Credit Hours:		**25**

1 Students should select their electives in consultation with a faculty advisor.

2 A maximum 6 credit hours of any combination of BSCI 30105, BSCI 40192, BSCI 40196 and BSCI 40199 may be applied toward the major (with no more than 4 credit hours S/U graded). Students cannot select biological sciences (BSCI) courses that will be used to meet major or concentration requirements. Students should consult with their faculty advisor to determine the most appropriate courses given their disciplinary interests and career aspirations.

Environmental Policy and Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 40375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT	4
Economics, Policies, Resources Electives, choose from the following:		6
ECON 22060 & ECON 32084	PRINCIPLES OF MICROECONOMICS (KSS) and ECONOMICS OF THE ENVIRONMENT	
POL 10300 & POL 40440	PUBLIC POLICY and U.S. ENVIRONMENTAL POLITICS AND POLICIES	
RPTM 26081 & RPTM 36082	PRINCIPLES OF OUTDOOR RECREATION and INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	
RPTM 26081 & RPTM 36083	PRINCIPLES OF OUTDOOR RECREATION and ENVIRONMENTAL EDUCATION AND CONSERVATION	
Concentration Electives, choose from the following: [1]		15
CHEM 20481	BASIC ORGANIC CHEMISTRY I	
CHEM 20482	BASIC ORGANIC CHEMISTRY II	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
Any Biological Sciences (BSCI) Upper-Division course (30000 or 40000 level) [2]		
Minimum Total Credit Hours:		**25**

1 Students should select their electives in consultation with a faculty advisor.

2 A maximum 6 credit hours of any combination of BSCI 30105, BSCI 40192, BSCI 40196 and BSCI 40199 may be applied toward the major (with no more than 4 credit hours S/U graded). Students cannot select biological sciences (BSCI) courses that will be used to meet major or concentration requirements. Students should consult with their faculty advisor to determine the most appropriate courses given their disciplinary interests and career aspirations.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS	4
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

[1] All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

[2] The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Conservation Biology Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10001	FLASHES 101	1
!	General Chemistry Elective		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	General Chemistry Elective		4
	Kent Core Requirement		3
	General Elective		2
		Credit Hours	**14**
	Semester Three		
!	BSCI 30360	GENERAL ECOLOGY	4
	CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
	CHEM 20482 or CHEM 30475	BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR)	0-2
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	BSCI 30156	ELEMENTS OF GENETICS	3
	CHEM 20482 or CHEM 30475	BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR)	0-2
	GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	BSCI 40224 or ESCI 42035 or GEOG 39002	QUANTITATIVE METHODS IN BIOLOGY or DATA ANALYSIS IN THE EARTH SCIENCES or STATISTICAL METHODS IN GEOGRAPHY	0-4
	BSCI 40374	CONSERVATION BIOLOGY (ELR)	4
	ESCI 11040	HOW THE EARTH WORKS (KBS)	3
	ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
	Foreign Language		4
		Credit Hours	**15**

	Semester Six		
	BSCI 40224 or ESCI 42035 or GEOG 39002	QUANTITATIVE METHODS IN BIOLOGY or DATA ANALYSIS IN THE EARTH SCIENCES or STATISTICAL METHODS IN GEOGRAPHY	0-4
	BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	Concentration Elective		3
	Geography Elective		3
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Seven		
!	BSCI 40163	EVOLUTION	3
	Biology Elective		1-6
	Concentration Elective		3
	Earth Science Elective		3-4
	Geography Elective		3
	General Elective		3
		Credit Hours	**16**
	Semester Eight		
	Concentration Electives		9
	Earth Science Elective		3-4
	General Elective		3
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

Environmental Policy and Management Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10001	FLASHES 101	1
!	General Chemistry Elective		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	General Chemistry Elective		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	BSCI 30360	GENERAL ECOLOGY	4
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Economics, Policies, Resources Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	BSCI 30156	ELEMENTS OF GENETICS	3
	BSCI 40375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT	4
	GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
	Economics, Policies, Resources Elective		3
	General Elective		2
		Credit Hours	**16**
	Semester Five		
	BSCI 40224 or ESCI 42035 or GEOG 39002	QUANTITATIVE METHODS IN BIOLOGY or DATA ANALYSIS IN THE EARTH SCIENCES or STATISTICAL METHODS IN GEOGRAPHY	0-4
	ESCI 11040	HOW THE EARTH WORKS (KBS)	3
	ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Six		
	BSCI 40224 or ESCI 42035 or GEOG 39002	QUANTITATIVE METHODS IN BIOLOGY or DATA ANALYSIS IN THE EARTH SCIENCES or STATISTICAL METHODS IN GEOGRAPHY	0-4
	BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	Biology Elective		1-6
	Concentration Elective		3
	Geography Elective		3
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Seven		
!	BSCI 40163	EVOLUTION	3
	Concentration Electives		6
	Earth Science Elective		3-4
	Geography Elective		3
		Credit Hours	**15**
	Semester Eight		
	Concentration Electives		6
	Earth Science Elective		3-4
	General Electives		5
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	

Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of fundamental biological principles.
2. Acquire fundamental skills necessary for laboratory and field investigations.
3. Demonstrate an understanding of proper experimental design, analysis of biological data and communication of research results.
4. Demonstrate a greater knowledge and appreciation of the role that biology plays in societal issues, such as those related to the environment, biodiversity, ethics, human health and disease.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Environmental and Conservation Biology is designed for students interested in a career in the environmental sciences. This program provides an interdisciplinary education in biology and the supporting fields of earth sciences, geography and chemistry. Environmental and conservation biologists work to sustainably manage or restore ecosystems, develop and implement environmental policies, or conduct research on how ecological processes affect biological diversity.

Potential careers for graduates include wildlife ecologists, environmental educators, forest managers, environmental consultants and personnel at public environmental regulatory or land use planning agencies. The Department of Biological Sciences has several mechanisms to help students prepare for their future careers.

The Environmental and Conservation Biology major comprises the following concentrations:

- The **Conservation Biology** concentration provides a strong background in applied ecology, restoration ecology and habitat management strategies used to sustain biological diversity.
- The **Environmental Policy and Management** concentration provides opportunities to learn about the development and implementation of habitat management methods and public policies that promote the sustainable use of natural resources and address environmental problems.

Human Disease - Minor

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology

About This Program

The Human Disease minor provides students with a chance to develop a deep understanding of the complex processes and mechanisms that cause the human diseases commonly seen in medical settings.

Contact Information

- **Edgar Kooijman** | ekooijma@kent.edu | 330-672-8568
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the

A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
Biological Sciences (BSCI) Electives, choose from the following:		11-12
BSCI 30171	GENERAL MICROBIOLOGY	
BSCI 40148	PRINCIPLES OF INFECTIOUS DISEASE	
BSCI 40150	MOLECULAR MECHANISMS OF DISEASE: CANCER	
BSCI 40151	MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES	
BSCI 40152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 40154	DIABETES AND CARDIOVASCULAR DISEASE	
BSCI 40157	NEUROBIOLOGY OF DRUG ADDICTION	
BSCI 40174	IMMUNOLOGY	
BSCI 40581	ANIMAL PARASITOLOGY	
Minimum Total Credit Hours:		**22**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS	4
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand disease processes of prevalent human diseases, including cancer, neurological diseases, addiction, obesity, cardiovascular disease and diabetes and infectious disease.
2. Appreciate the deleterious health impacts of these diseases, and demonstrate understanding of current treatment options.
3. Read and analyze primary scientific reports related to human disease and their underlying cellular, molecular, physiological and behavioral mechanisms.

Medical Laboratory Science - B.S.

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology

About This Program

The Bachelor of Science in Medical Laboratory Science at Kent State provides students with a strong foundation in laboratory science and prepares them for a range of careers in the healthcare industry. Read more...

Contact Information

- **Devin Mueller** | dmuell10@kent.edu | 330-672-2934
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Clinical laboratory technologists and technicians

- 7.3% faster than the average
- 337,800 number of jobs
- $54,180 potential earnings

Health specialties teachers, postsecondary

- 20.5% much faster than the average
- 254,000 number of jobs
- $99,090 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30050	HUMAN GENETICS	3
BSCI 30130	HUMAN PHYSIOLOGY	3
BSCI 30140	CELL BIOLOGY	4
BSCI 30171	GENERAL MICROBIOLOGY	4
BSCI 40148	PRINCIPLES OF INFECTIOUS DISEASE	3
BSCI 40174	IMMUNOLOGY	3
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) (min C grade) [1]	1
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 30301	INORGANIC CHEMISTRY I	3
CLS 49010	CLINICAL MICROBIOLOGY: THEORY [2]	4
CLS 49011	CLINICAL MICROBIOLOGY: APPLICATIONS	4
CLS 49012	CLINICAL IMMUNOLOGY: THEORY	1
CLS 49013	CLINICAL IMMUNOLOGY: APPLICATIONS	1
CLS 49014	CLINICAL MYCOLOGY: THEORY AND APPLICATIONS	1
CLS 49015	CLINICAL PARASITOLOGY: THEORY AND APPLICATIONS	1
CLS 49020	CLINICAL CHEMISTRY: THEORY	4
CLS 49021	CLINICAL CHEMISTRY: APPLICATIONS	3
CLS 49022	URINALYSIS: THEORY	1
CLS 49023	URINALYSIS: APPLICATIONS	1
CLS 49030	IMMUNOHEMATOLOGY: THEORY	2
CLS 49031	IMMUNOHEMATOLOGY: APPLICATIONS	2
CLS 49032	COAGULATION: THEORY AND APPLICATIONS	1
CLS 49033	CLINICAL HEMATOLOGY: THEORY	2
CLS 49034	CLINICAL HEMATOLOGY: APPLICATIONS	2
CLS 49040	TOPICS IN LABORATORY MANAGEMENT	1
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	3-4
or EMAT 25310	CREATIVE CODING	
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 30011	BASIC PROBABILITY AND STATISTICS	3
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		5
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Students who complete the required in-hospital clinical experience fulfill the experiential learning requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students are expected to consult with a medical technology advisor before registering for courses each semester.
- The fourth year clinical training is NOT guaranteed, but it is required to graduate with this major. Acceptance to clinical training is at the discretion of the clinical affiliates, is highly competitive and is based on multiple criteria. Typically, clinical affiliates will interview students with a minimum 3.000 major GPA and hospital experience.
- Students declared in the Medical Laboratory Science major are not required to meet the College of Arts and Sciences' foreign language requirement.

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS	4
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	MATH 11022	TRIGONOMETRY (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Three		
!	BSCI 30140	CELL BIOLOGY	4
!	CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Four		
!	BSCI 30130	HUMAN PHYSIOLOGY	3
	BSCI 30171	GENERAL MICROBIOLOGY	4
!	CHEM 30301	INORGANIC CHEMISTRY I	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Five		
	BSCI 30050	HUMAN GENETICS	3
	BSCI 40148	PRINCIPLES OF INFECTIOUS DISEASE	3
!	CHEM 30105	ANALYTICAL CHEMISTRY I	3
!	CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
	MATH 30011	BASIC PROBABILITY AND STATISTICS	3
		Credit Hours	**13**
	Semester Six		
!	BSCI 40174	IMMUNOLOGY	3
!	CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	CS 10062 or EMAT 25310	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES or CREATIVE CODING	3-4
	Kent Core Requirement		3
	General Elective		2
		Credit Hours	**15**
	Semester Seven		
!	CLS 49010	CLINICAL MICROBIOLOGY: THEORY	4
!	CLS 49011	CLINICAL MICROBIOLOGY: APPLICATIONS	4
!	CLS 49012	CLINICAL IMMUNOLOGY: THEORY	1
!	CLS 49013	CLINICAL IMMUNOLOGY: APPLICATIONS	1
!	CLS 49014	CLINICAL MYCOLOGY: THEORY AND APPLICATIONS	1
!	CLS 49015	CLINICAL PARASITOLOGY: THEORY AND APPLICATIONS	1
!	CLS 49020	CLINICAL CHEMISTRY: THEORY	4
		Credit Hours	**16**

	Semester Eight		
!	CLS 49021	CLINICAL CHEMISTRY: APPLICATIONS	3
!	CLS 49022	URINALYSIS: THEORY	1
!	CLS 49023	URINALYSIS: APPLICATIONS	1
!	CLS 49030	IMMUNOHEMATOLOGY: THEORY	2
!	CLS 49031	IMMUNOHEMATOLOGY: APPLICATIONS	2
!	CLS 49032	COAGULATION: THEORY AND APPLICATIONS	1
!	CLS 49033	CLINICAL HEMATOLOGY: THEORY	2
!	CLS 49034	CLINICAL HEMATOLOGY: APPLICATIONS	2
!	CLS 49040	TOPICS IN LABORATORY MANAGEMENT	1
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Be certified as professional medical laboratory scientists.
2. Perform assays of clinical samples in a hospital or laboratory setting.
3. Demonstrate an understanding of human physiology and familiarity with human health issues.
4. Interpret chemical and molecular data for clinical diagnosis.

Program Policies

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Three-Plus-One Programs

Students who choose to pursue Three-Plus-One programs take three years of preprofessional study at Kent State University, followed by a year or more of intensive professional training at an accredited professional school or clinical facility. Upon the satisfactory completion of this professional training, the B.S. degree from the College of Arts and Sciences at Kent State University is awarded. Students must earn 97 credit hours in a university. Appropriate transfer credit from other institutions may be included in these 97 credit hours, but the students must complete at least 42 credit hours in-residence at Kent State University, including the last 32 credit hours of the 97 credit hours requirement.

Students must have a minimum 2.000 GPA in all work taken at Kent State University. They must also complete with at least a 2.000 average all off-campus work taken to fulfill fourth-year requirements. In some fields, students may also be required to present other evidence of the satisfactory completion of the off-campus professional training.

Students must satisfy all degree requirements, including the B.S. General Requirements and field of concentration requirements, by a combination of credits earned at Kent State University and the professional school. The only exception is that the college's foreign language requirement is waived for students who successfully complete a Three-Plus-One program.

Three-Plus-One programs are designed for students with a well-defined, specific, professional career goal. Currently, the College of Arts and Sciences offers a Three-Plus-One program in Medical Laboratory Science. Because of the intensive, professional focus of these programs, students pursuing them should work closely with their faculty advisors. Students who are interested in this program should consult the Department of Biological Sciences, 256 Cunningham Hall, for further information.

Please see the program requirements for the Medical Laboratory Science program offered under the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Medical Laboratory Science allows students to combine three years of study at Kent State with 12 months of professional training at an approved hospital. Medical laboratory scientists are trained to perform complex chemical, microscopic and microbiological procedures. Graduates are eligible to sit for the Board of Registry of the American Society of Clinical Pathologists Exam.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or

certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Microbiology - Minor

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology

About This Program

The Microbiology minor gives students an understanding of biology and the broader impacts of microorganisms, as well as specialized knowledge of the role of microbiology in medicine and environmental science.

Contact Information

- **Edgar Kooijman** | ekooijma@kent.edu | 330-672-8568
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30171	GENERAL MICROBIOLOGY	4
Biological Sciences (BSCI) Electives, choose from the following:		6-7
BSCI 30156	ELEMENTS OF GENETICS	
BSCI 40148	PRINCIPLES OF INFECTIOUS DISEASE	
BSCI 40162	SOIL BIOLOGY	
BSCI 40174	IMMUNOLOGY	
BSCI 40273	INTRODUCTION TO MYCOLOGY	
BSCI 40363	MICROBIAL ECOLOGY	
BSCI 40380	BIOGEOCHEMISTRY	
BSCI 40581	ANIMAL PARASITOLOGY	
Minimum Total Credit Hours:		**22**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS	4
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge about the biology of microorganisms, including physiology, cell biology, genetics, evolution, diversity and ecology of microorganisms.
2. Apply knowledge about microorganisms to issues in medicine, environmental science, public health or industry.
3. Read scientific reports and evaluate and communicate scientific data collected in the field of microbiology.
4. Acquire experience in laboratory procedures used in culturing and identifying microorganisms.

Neuroscience - B.S.

College of Arts and Sciences
Department of Biological Sciences
Department of Psychological Sciences
https://www.kent.edu/neuroscience/bs

About This Program

The Bachelor of Science in Neuroscience combines biology, chemistry, psychology and other disciplines to provide you with a comprehensive understanding of the nervous system. Together with our Neuroscience faculty, you will gain the advanced skills and knowledge needed to pursue careers in health professions, research or science communication. Read more...

Contact Information

- **Wilson Chung, Ph.D.** | neuroundergrad@kent.edu | 330-672-3641
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) [1]	1
or PSYC 41901	WRITING IN PSYCHOLOGY (WIC)	
or PSYC 41980	RESEARCH WRITING IN PSYCHOLOGY (WIC)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
NEUR 10100	SEMINAR IN NEUROSCIENCE	1
NEUR 30100	NEUROSCIENCE I	3
NEUR 30200	NEUROSCIENCE II	3
NEUR 30300	EXPERIMENTAL METHODS IN NEUROSCIENCE	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Biology Electives, choose from the following:		6
BSCI 40147	DEVELOPMENTAL NEUROBIOLOGY	
BSCI 40151	MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES	
BSCI 40152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 40157	NEUROBIOLOGY OF DRUG ADDICTION	
BSCI 40158	MOLECULAR BIOLOGY	
BSCI 40159	MOLECULAR BIOLOGY LABORATORY (ELR) (WIC) [1]	
BSCI 40431	NEUROENDOCRINOLOGY	
BSCI 40432	ENDOCRINOLOGY	
BSCI 40450	BIOLOGICAL CLOCKS	
BSCI 40460	ADVANCED HUMAN PHYSIOLOGY	
BSCI 40462	ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES	
BSCI 40515	ANIMAL BEHAVIOR	
BSCI 40519	HORMONES AND BEHAVIOR	
Psychology Electives, choose from the following:		6
PSYC 40111	PSYCHOPATHOLOGY	
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY	
PSYC 40446	COGNITIVE NEUROSCIENCE	
PSYC 41043	BASIC LEARNING PROCESSES	
PSYC 41364	DRUGS AND BEHAVIOR	
PSYC 43001	CLINICAL NEUROANATOMY	
PSYC 47387	NEUROPSYCHOPHARMACOLOGY	
Neuroscience Elective, choose from the following:		2
BSCI 40147	DEVELOPMENTAL NEUROBIOLOGY	

BSCI 40151	MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES	
BSCI 40152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 40157	NEUROBIOLOGY OF DRUG ADDICTION	
BSCI 40158	MOLECULAR BIOLOGY	
BSCI 40159	MOLECULAR BIOLOGY LABORATORY (ELR) (WIC) [1]	
BSCI 40431	NEUROENDOCRINOLOGY	
BSCI 40432	ENDOCRINOLOGY	
BSCI 40450	BIOLOGICAL CLOCKS	
BSCI 40460	ADVANCED HUMAN PHYSIOLOGY	
BSCI 40462	ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES	
BSCI 40515	ANIMAL BEHAVIOR	
BSCI 40519	HORMONES AND BEHAVIOR	
NEUR 40192	INTERNSHIP IN NEUROSCIENCE (ELR) [2]	
NEUR 40195	SPECIAL TOPICS IN NEUROSCIENCE	
NEUR 40196	INDIVIDUAL INVESTIGATION IN NEUROSCIENCE [2]	
PSYC 40111	PSYCHOPATHOLOGY	
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY	
PSYC 40446	COGNITIVE NEUROSCIENCE	
PSYC 41043	BASIC LEARNING PROCESSES	
PSYC 41364	DRUGS AND BEHAVIOR	
PSYC 43001	CLINICAL NEUROANATOMY	
PSYC 47387	NEUROPSYCHOPHARMACOLOGY	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Additional Requirements or Concentration		
Choose from the following:		48
Additional Requirements for Students Not Declaring a Concentration		
Pre-Medicine/Pre-Podiatry Concentration		
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] A maximum 6 credit hours of NEUR 40192 and NEUR 40196 combined may be applied toward major requirements.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
Neuroscience Electives, choose from the list in the major		13
General Chemistry Electives, choose from the following:		8
CHEM 10058 & CHEM 10059	GENERAL CHEMISTRY FOR LIFE SCIENCES I and GENERAL CHEMISTRY FOR LIFE SCIENCES II	
CHEM 10060 & CHEM 10061	GENERAL CHEMISTRY I (KBS) and GENERAL CHEMISTRY II (KBS)	
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		18
Minimum Total Credit Hours:		**48**

Pre-Medicine/Pre-Podiatry Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 30130	HUMAN PHYSIOLOGY	3
or BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 30171	GENERAL MICROBIOLOGY	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
or CHEM 40245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
CHEM 30481	ORGANIC CHEMISTRY I	3
CHEM 30482	ORGANIC CHEMISTRY II	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	5
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	5
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Minimum Total Credit Hours:		**48**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

[1] All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

[2] The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Neuroscience Major (No Concentration)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
NEUR 10100	SEMINAR IN NEUROSCIENCE	1
UC 10001	FLASHES 101	1
General Chemistry Elective		4
	Credit Hours	**14**
Semester Two		
BSCI 30140	CELL BIOLOGY	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
General Chemistry Elective		4
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
BSCI 30156	ELEMENTS OF GENETICS	3
NEUR 30100	NEUROSCIENCE I	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
Foreign Language Requirement		4
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
NEUR 30200	NEUROSCIENCE II	3
NEUR 30300	EXPERIMENTAL METHODS IN NEUROSCIENCE	1
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Foreign Language Requirement		4
Kent Core Requirement		3
	Credit Hours	**14**
Semester Five		
Biology and/or Neuroscience and/or Psychology Electives		9
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Six		
BSCI 40600 or PSYC 41901 or PSYC 41980	WRITING IN THE BIOLOGICAL SCIENCES (WIC) or WRITING IN PSYCHOLOGY (WIC) or RESEARCH WRITING IN PSYCHOLOGY (WIC)	1
Biology and/or Neuroscience and/or Psychology Electives		9
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Seven		
Biology and/or Neuroscience and/or Psychology Electives		6
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Eight		
Biology and/or Neuroscience and/or Psychology Elective		3
General Electives		12
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

Pre-Medicine/Pre-Podiatry Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
NEUR 10100	SEMINAR IN NEUROSCIENCE	1
UC 10001	FLASHES 101	1
	Credit Hours	**14**
Semester Two		
BSCI 30140	CELL BIOLOGY	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
BSCI 30156	ELEMENTS OF GENETICS	3
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30481	ORGANIC CHEMISTRY I	3
NEUR 30100	NEUROSCIENCE I	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
CHEM 30482	ORGANIC CHEMISTRY II	3
MATH 11022	TRIGONOMETRY (KMCR)	3
NEUR 30200	NEUROSCIENCE II	3
NEUR 30300	EXPERIMENTAL METHODS IN NEUROSCIENCE	1
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Credit Hours	**17**

Semester Five		
BSCI 30130 or BSCI 40430	HUMAN PHYSIOLOGY or ANIMAL PHYSIOLOGY	3
BSCI 30171	GENERAL MICROBIOLOGY	4
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001 & PHY 13021 or PHY 23101	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Credit Hours	**17**
Semester Six		
CHEM 30284 or CHEM 40245	INTRODUCTORY BIOLOGICAL CHEMISTRY or BIOCHEMICAL FOUNDATIONS OF MEDICINE	4
PHY 13002 & PHY 13022 or PHY 23102	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Biology and/or Neuroscience and/or Psychology Electives		5
	Credit Hours	**14**
Semester Seven		
BSCI 40600 or PSYC 41901 or PSYC 41980	WRITING IN THE BIOLOGICAL SCIENCES (WIC) or WRITING IN PSYCHOLOGY (WIC) or RESEARCH WRITING IN PSYCHOLOGY (WIC)	1
Biology and/or Neuroscience and/or Psychology Electives		6
Foreign Language		4
Kent Core Requirement		3
	Credit Hours	**14**
Semester Eight		
Biology and/or Neuroscience and/or Psychology Elective		3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**13**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand fundamental principles of neuroscience.
2. Acquire fundamental hands-on research skills necessary for laboratory investigations into central nervous system function.
3. Understand proper experimental design, data analysis and communication of research results.
4. Gain greater knowledge and appreciation of the role neuroscience plays in societal issues, such as those related to neurological disorders, mental health, medicine and human and animal behavior.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Neuroscience offers a broad-based and hands-on study of the mechanisms of brain function from the cell

and molecular level through cognition and behavior. This major is for students interested in medicine, other health professions, research and graduate studies in biology, neuroscience and psychology. The major also prepares students for careers in industries, including biotechnology, pharmaceuticals, research administration and policy, science communication, teaching and other science-related businesses.

The Neuroscience major includes the following optional concentration:

- The **Pre-Medicine/Pre-Podiatry** concentration provides the courses necessary for admission to advanced degree programs in healthcare and biomedical science professions.

Zoology - B.S.

College of Arts and Sciences
Department of Biological Sciences
www.kent.edu/biology

About This Program

The Bachelor of Science in Zoology program explores the diversity of animal life and supports understanding of the behavior, ecology and physiology of animals. You will also have the opportunity to participate in internships and research opportunities, allowing you to gain practical experience in the field. Whether you are interested in pursuing a career in wildlife conservation, veterinary medicine or research, this program provides you with the tools and knowledge needed to succeed. Read more...

Contact Information

- **Edgar Kooijman** | ekooijma@kent.edu | 330-672-8568
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Biological technicians

- 4.9% about as fast as the average
- 87,500 number of jobs
- $46,340 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

Zoologists and wildlife biologists

- 3.9% about as fast as the average
- 21,000 number of jobs
- $66,350 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40163	EVOLUTION	3
BSCI 40224	QUANTITATIVE METHODS IN BIOLOGY	3-5
or MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) [1]	1
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	3-4
or CHEM 30481	ORGANIC CHEMISTRY I	
CHEM 20482	BASIC ORGANIC CHEMISTRY II	1-3
or CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
or CHEM 30482	ORGANIC CHEMISTRY II	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Biology Elective, choose from the following: [2,3]		1-6
BSCI 30105	CAREER PATHWAYS IN BIOLOGY	
BSCI 40192	INTERNSHIP IN BIOLOGICAL SCIENCES (ELR)	
BSCI 40196	INDIVIDUAL INVESTIGATION (ELR)	
BSCI 40199	SENIOR HONORS THESIS (ELR)	
Biology, Chemistry, Physics Electives, choose from the following: [2]		20-25
CHEM 20482	BASIC ORGANIC CHEMISTRY II	
or CHEM 30482	ORGANIC CHEMISTRY II	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
Any Biological Sciences (BSCI) Upper-Division course (30000 or 40000 level) [3]		
General Chemistry Electives, choose from the following: [4]		8
CHEM 10058 & CHEM 10059	GENERAL CHEMISTRY FOR LIFE SCIENCES I and GENERAL CHEMISTRY FOR LIFE SCIENCES II	
CHEM 10060 & CHEM 10061	GENERAL CHEMISTRY I (KBS) and GENERAL CHEMISTRY II (KBS)	
Zoology Core Electives, choose from the following:		11-12
BSCI 30140	CELL BIOLOGY	
BSCI 30171	GENERAL MICROBIOLOGY	
BSCI 30360	GENERAL ECOLOGY	
BSCI 30518	VERTEBRATE ANATOMY	
BSCI 30560	INVERTEBRATE ZOOLOGY	
BSCI 30580	ENTOMOLOGY	
BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 40515	ANIMAL BEHAVIOR	
BSCI 40556	VERTEBRATE ZOOLOGY	
BSCI 40581	ANIMAL PARASITOLOGY	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Additional		2
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		14
Minimum Total Credit Hours:		**120**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

2 Students should select their electives in consultation with a faculty advisor. A total of 26 credit hours combined are required to fulfill the Biology Elective and Biology, Chemistry, Physics Electives.

3 A maximum 6 credit hours of any combination of BSCI 30105, BSCI 40192, BSCI 40196 and BSCI 40199 may be applied toward the major (with no more than 4 credit hours S/U graded). Enrollment in these courses must be determined with a faculty advisor.

4 Students who plan to attend a professional or graduate program are strongly encouraged to take CHEM 10060 and CHEM 10061.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS	4
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

1 All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

2 The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10001	FLASHES 101	1
!	General Chemistry Elective		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	General Chemistry Elective		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	BSCI 30156	ELEMENTS OF GENETICS	3
!	CHEM 20481 or CHEM 30481	BASIC ORGANIC CHEMISTRY I or ORGANIC CHEMISTRY I	3-4
	CHEM 20482 or CHEM 30475 or CHEM 30482	BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR) or ORGANIC CHEMISTRY II	0-3
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	BSCI 40224 or MATH 12003 or MATH 30011	QUANTITATIVE METHODS IN BIOLOGY or ANALYTIC GEOMETRY AND CALCULUS II or BASIC PROBABILITY AND STATISTICS	3-5
	CHEM 20482 or CHEM 30475 or CHEM 30482	BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR) or ORGANIC CHEMISTRY II	0-3
	Zoology Core Electives		7
	Kent Core Requirement		3
	Kent Core Requirement		2
		Credit Hours	**15**
	Semester Five		
	BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	Biology Elective and/or Biology, Chemistry, Physics Electives		7
	Zoology Core Electives		4
	Foreign Language		4
		Credit Hours	**16**
	Semester Six		
	Biology Elective and/or Biology, Chemistry, Physics Electives		9
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Seven		
	BSCI 40163	EVOLUTION	3
	Biology Elective and/or Biology, Chemistry, Physics Electives		7
	General Elective		3
		Credit Hours	**13**
	Semester Eight		
	Biology Elective and/or Biology, Chemistry, Physics Elective		3
	General Electives		11
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses

Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of fundamental biological principles as outlined in specific courses.
2. Acquire fundamental skills necessary for laboratory and field investigations.
3. Demonstrate an understanding of proper experimental design, analysis of biological data and communication of research results.
4. Demonstrate a greater knowledge and appreciation of the role that biology plays in societal issues, such as those related to the environment, biodiversity, ethics, human health and disease.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Zoology offers a modern and integrative study of animals. Students learn about individual animals, as well as populations of animals across all levels of biological organization, from genes to ecosystems. The program also focuses on animal behavior and physiology, as well as how animals evolve, contribute to biodiversity and interact with each other and their environment.

Students may seek employment immediately after graduation or continue their education in graduate or professional programs. Those entering the workforce may go on to work for national or local parks, zoos/aquaria, museums, animal research facilities, wildlife rehabilitation centers, veterinarian offices or humane societies. The Department of Biological Sciences has several mechanisms to help students prepare for their future careers.

Department of Chemistry and Biochemistry

College of Arts and Sciences
Department of Chemistry and Biochemistry
214 Williams Hall
Kent Campus
330-672-2032
chem@kent.edu
www.kent.edu/chemistry

Undergraduate Programs

- Biochemistry - B.S.
- Biotechnology - B.S.
- Chemistry - B.A.
- Chemistry - B.S.

Minors

- Chemistry

Graduate Programs

- Chemistry - M.A.
- Chemistry - M.S.
- Chemistry - Ph.D.

Department of Chemistry and Biochemistry Faculty

- Abeysirigunawardena, Sanjaya C. (2015), Associate Professor, Ph.D., Wayne State University, 2008
- Abraham, Ann C. (2004), Associate Professor, Ph.D., University of Pittsburgh, 1983

- Bowers, David J. (2013), Associate Professor
- Bunge, Scott D. (2004), Associate Professor, Ph.D., Georgia Institute of Technology, 2001
- Burns, Andrew (1994), Professor, Ph.D., Brown University, 1990
- Cubon-Bell, Valerie A. (2010), Professor, Ph.D., Princeton University, 2008
- Datta, Bansidhar (2000), Associate Professor, University of Nebraska-Lincoln, 1989
- Dunietz, Barry (2012), Professor
- Ekanayake, Sujeewani K. (2012), Professor
- Fenk, Christopher J. (1990), Professor, Ph.D., University of Pittsburgh, 1987
- Fouad, Farid S. (2008), Professor, Ph.D., Northeastern University, 2003
- Friedrich, Dirk (2016), Associate Professor, Ph.D., Universitat Leipzig, 2013
- Goncalves Schmidt, Diana P. (2019), Assistant Professor
- Hegmann, Torsten (2011), Professor , Ph.D., Martin Luther University, 2001
- Huang, Songping D. (1998), Professor, Ph.D., Michigan State University, 1993
- Konar, Arkaprabha (2019), Assistant Professor, 2019, Michigan State University, 2015
- Leslie, Margaret R. (2004), Professor, Ph.D., Rhodes University, 1995
- Mao, Hanbin (2005), Professor, Ph.D., Texas A&M University, 2003
- Mighion, Jeffrey D. (2017), Assistant Professor, Ph.D., Princeton University, 2014
- Motry, Douglas H. (1996), Associate Professor, Ph.D., Michigan State University, 1996
- Pal Chaudhuri, Urmila (2008), Associate Professor, Ph.D., Indian Institute of Technology Madras, 2004
- Perera, Roshinee S. (2013), Associate Professor, Ph.D., University of Akron, 2011
- Prevot, Marianne (2016), Assistant Professor
- Seed, Alexander J. (1996), Associate Professor, Ph.D., University Of Hull
- Shen, Hao (2018), Assistant Professor, Ph.D., Cornell University, 2015
- Subramanian, Pritha (2006), Associate Professor, Ph.D., Kent State University, 2013
- Tandon, Santokh S. (2004), Professor, Ph.D., Guru Nanak Dev University, 1979
- Tubergen, Michael J. (1995), Professor, Ph.D., University of Chicago, 1991
- Wang, Zhiqiang (2007), Professor, Fudan University, 2000
- Zheng, Yaorong (2015), Associate Professor, Ph.D., University of Utah, 2011

Chemistry (CHEM)

CHEM 00020 INTRODUCTION TO CHEMISTRY 2 Credit Hours
Problem-based introduction to the fundamentals of chemistry including significant figures, unit conversions, measurement, structure of matter, energy, composition of matter, atomic structure, the periodic table, introduction to bonding, and the formulas and names of both ionic and covalent compounds. Course does not count toward graduation.
Prerequisite: Math ACT score of 18; or ALEKS math assessment score of 45; or minimum C grade in any MATH course.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 10030 CHEMISTRY IN OUR WORLD (KBS) 3 Credit Hours
A course for non-science majors that utilizes environmental and consumer topics to introduce chemical principles and develop critical-thinking skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

CHEM 10031 CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB) 1 Credit Hour
Discovery-based experiments to introduce chemical principles and develop critical-thinking skills. A course for non-science majors; includes chemistry that is related to environmental and consumer issues.
Pre/corequisite: CHEM 10030.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) 3 Credit Hours
Basic concepts of chemistry (including atomic structure, chemical bonding and reactions) necessary for courses in elementary organic chemistry and physiological chemistry. Students may only receive credit toward graduation for one of the following: CHEM 10050; or CHEM 10060 and CHEM 10061; or CHEM 10970 and CHEM 10971.
Prerequisite: Minimum 16 ACT math score or MATH 10675 or MATH 11009 or MATH 11010 or MATH 11012 or MATH 12002 or MATH 12011 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

CHEM 10055 MOLECULES OF LIFE (KBS) 3 Credit Hours
An integrated introduction to molecular systems and their participation in the processes of life.
Pre/corequisite: MATH 10040 or MATH 10041 or MATH 10772 or MATH 10775 with a minimum C grade or any course between MATH 11009 to MATH 49998; or minimum 55 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences

CHEM 10058 GENERAL CHEMISTRY FOR LIFE SCIENCES I 4 Credit Hours
This is a chemistry course for non-chemistry majors and those who are not on the premed/pre-pharm track. It focuses on fundamental concepts and the development of problem-solving strategies. Students are introduced to a variety of concepts in modern chemistry, emphasizing stoichiometry, introduction to chemical reactions, thermochemistry, periodicity, molecular structure, chemical bonding and behavior of gases. Classroom time is divided into lectures, discussions and problem-solving activities to enable students to develop foundational knowledge. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10058 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Prerequisite: MATH 10675 or MATH 10772 with a minimum C grade; or a pre/co-requisite of MATH 10775 or MATH 11009 or MATH 11010 and minimum 45 ALEKS math score.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 10059 GENERAL CHEMISTRY FOR LIFE SCIENCES II 4 Credit Hours
Continuation of CHEM 10058, emphasizing intermolecular forces, properties of mixtures, kinetics, equilibrium, main group chemistry, acid-base chemistry, thermodynamics and electrochemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10059 or CHEM 10061 or CHEM 10971.
Prerequisite: Minimum C grade in the following courses: CHEM 10058 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 10060 GENERAL CHEMISTRY I (KBS) 4 Credit Hours
(Equivalent to CHEM 11060) This course is a college-level chemistry course for science majors, focusing on fundamental concepts and the development of problem-solving strategies and critical thinking. Students will be introduced to a variety of concepts in modern chemistry, emphasizing stoichiometry, introduction to chemical reactions, thermochemistry, atomic structure, periodicity, molecular structure, chemical bonding, and behavior of gases. Classroom time will be divided into lectures, discussions, and problem-solving activities to enable students to develop both foundational knowledge and analytical skills. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Prerequisite: Minimum 67 ALEKS math score or higher; or ACT MATH score of 27 or higher; or minimum C grade in the following courses: MATH 11010 or MATH 10775 or MATH 10675 or MATH 11009 or MATH 10772.
Pre/corequisite: MATH 11022 or MATH 12002 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science

CHEM 10061 GENERAL CHEMISTRY II (KBS) 4 Credit Hours
Continuation of CHEM 10060, emphasizing intermolecular forces, properties of mixtures, main group chemistry, kinetics, equilibrium, acid-base chemistry, thermodynamics and electrochemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10061 or CHEM 10971.
Prerequisite: Minimum C grade in either CHEM 10060 or CHEM 10970 or CHEM 11060.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science

CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) 1 Credit Hour
Laboratory covering pertinent aspects of CHEM 10060.
Pre/corequisite: CHEM 10058 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB) 1 Credit Hour
Laboratory covering pertinent aspects of CHEM 10061, including qualitative analysis.
Prerequisite: CHEM 10062.
Pre/corequisite: CHEM 10059 or CHEM 10061 or CHEM 10971.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

CHEM 10970 HONORS GENERAL CHEMISTRY I (KBS) 4 Credit Hours
Rigorous general chemistry course for qualified students. Stoichiometry, equilibrium, thermochemistry, atomic structure and chemical bonding, descriptive inorganic and nuclear chemistry.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences

CHEM 10971 HONORS GENERAL CHEMISTRY II (KBS) 4 Credit Hours
A continuation of CHEM 10970. Topics include properties of mixtures, properties of the elements, periodic patterns, organic compounds, kinetics, equilibrium, thermodynamics and electrochemistry.
Prerequisite: Minimum C grade in CHEM 10970.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences

CHEM 11060 GENERAL CHEMISTRY I BOOST (KBS) 6 Credit Hours
(Equivalent to CHEM 10060) This course is a college-level chemistry course for science majors with extended time devoted to fundamental concepts and the development of problem-solving strategies and critical thinking. Students will be introduced to a variety of concepts in modern chemistry, emphasizing stoichiometry, introduction to chemical reactions, thermochemistry, atomic structure, periodicity, molecular structure, chemical bonding, and behavior of gases. This course includes 5 lecture sessions and 1 recitation session. Classroom time will be divided into lectures, discussions, and problem-solving activities to enable students to develop both foundational knowledge and analytical skills. Recitation sessions will include problem-solving with an emphasis on developing core skills. The endpoint of this course is identical to that of CHEM 10060. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10060 or CHEM 10970 or CHEM 11060.
Prerequisite: ALEKS math score of 45 or higher and a pre/co-requisite of MATH 11010 or MATH 10775 or MATH 11009; or a prerequisite of MATH 10675 with a minimum C grade or MATH 10772 with a minimum C grade.
Schedule Type: Lecture, Recitation
Contact Hours: 5 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences

CHEM 20095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Selected topics in chemistry.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 20098 INTRODUCTION TO CHEMICAL RESEARCH (ELR) 1-3 Credit Hours
Research experience for freshmen and sophomores. Registration requires prior approval of the research director. Does not count toward the electives for the BS or BA chemistry degree. A written report is required.
Prerequisite: Minimum overall 2.500 GPA in Chemistry and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CHEM 20481 BASIC ORGANIC CHEMISTRY I 4 Credit Hours
Survey of the structure, preparation and reactions (including mechanisms) of organic compounds emphasizing the chemistry of biologically important functional groups. Students may only receive credit toward graduation for one of the following courses: CHEM 10055 or CHEM 20481 or CHEM 30481.
Prerequisite: Minimum C grade in the following courses: CHEM 10059 or CHEM 10061 or CHEM 10971.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 20482 BASIC ORGANIC CHEMISTRY II 2 Credit Hours
Continuation of CHEM 20481, emphasizing the chemistry of functional groups prevalent in biological chemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10055 or CHEM 20482 or CHEM 30482.
Prerequisite: Minimum C grade in CHEM 20481.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 30051 CAREER PATHWAYS IN CHEMISTRY 1 Credit Hour
Designed to introduce students to the wide range of career pathways available in chemistry. Students learn different strategies for identifying and pursuing career opportunities, and develop their communication skills through writing assignments and oral presentations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 30105 ANALYTICAL CHEMISTRY I 3 Credit Hours
Covers the fundamental theory, experimental methods, and applications of analytical chemistry principles in chemistry as well as other related disciplines such as life sciences and environmental science. It covers analytical measurements, experimental error, statistics, chemical equilibrium and titration, spectrometry as well as analytical separation techniques.
Prerequisite: CHEM 10061 or CHEM 10971.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 30106 ANALYTICAL CHEMISTRY II 2 Credit Hours
Covers the theoretical basis and experimental methods of analytical chemistry not considered in Analytical Chemistry I (CHEM 30105), such as noise reduction, advanced chemical equilibria and titrations, electrochemistry, atomic spectroscopy, instrumental design, and sample preparation.
Prerequisite: CHEM 30105.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 30107 ANALYTICAL CHEMISTRY LABORATORY I (WIC) 1 Credit Hour
Fundamental laboratory class for analytical chemistry. Provides hands-on experience to students on the subjects including data treatment, volumetric analysis, spectrophotometry, separation techniques and mass spectroscopy.
Prerequisite: CHEM 10063.
Pre/corequisite: CHEM 30105.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

CHEM 30108 ANALYTICAL CHEMISTRY LABORATORY II (WIC) 2 Credit Hours
Advanced analytical chemistry laboratory class which covers a broad range of modern analytical techniques, including ion-selective electrodes, voltammetry, atomic spectroscopy, mass-spectrometry and capillary electrophoresis. Unlike Analytic Chemistry Laboratory I (CHEM 30107) this class focuses on forensic rather than bioanalytical applications.
Prerequisite: CHEM 30105.
Pre/corequisite: CHEM 30107.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY 4 Credit Hours
Chemistry and metabolism of biochemically important compounds; nature of enzyme action; metabolic regulation and bioenergetics.
Prerequisite: CHEM 20481; or CHEM 30481 and CHEM 30482.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 30301 INORGANIC CHEMISTRY I 3 Credit Hours
Chemistry of hydrogen, ions in aqueous solution, redox reactions, coordination complexes: d-block chemistry, crystal field model, electronic spectra and magnetism, introduction to organometallic chemistry, periodic trends for p-block elements.
Prerequisite: CHEM 10061 or CHEM 10971.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 30475 ORGANIC CHEMISTRY LABORATORY I (ELR) 1 Credit Hour
Practical experience in organic laboratory techniques on both micro- and macroscale: physical methods for purification and characterization of organic compounds, introduction to organic reactions.
Prerequisite: CHEM 10063.
Pre/corequisite: CHEM 20481 or 30481.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, TAG Science

CHEM 30476 ORGANIC CHEMISTRY LABORATORY II 1 Credit Hour
Continuation of CHEM 30475, involving multi-step organic experiments that utilize techniques introduced in CHEM 30475.
Prerequisite: CHEM 30475.
Pre/corequisite: CHEM 20482 or 30482.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 30481 ORGANIC CHEMISTRY I 3 Credit Hours
Introduction to organic chemistry from structural, mechanistic and synthetic viewpoints with an emphasis on the chemistry of biologically relevant functional groups. Students may only receive credit toward graduation for one of the following courses: CHEM 10055 or CHEM 20481 or CHEM 30481.
Prerequisite: Minimum C grade in CHEM 10061 or CHEM 10971.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 30482 ORGANIC CHEMISTRY II 3 Credit Hours
Continuation of CHEM 30481; organic chemistry from mechanistic and synthetic viewpoints; IR and NMR spectroscopy; mass spectrometry. Students may only receive credit toward graduation for one of the following courses: CHEM 10055 or CHEM 20482 or CHEM 30482.
Prerequisite: Minimum C grade in CHEM 30481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Science

CHEM 40092 INTERNSHIP IN CHEMISTRY AND BIOCHEMISTRY (ELR) 1-9 Credit Hours
(Repeatable for credit) Workplace experience in chemistry or biochemistry relevant to a student's career objectives. Includes career advising and job search strategies. Comprehensive written report and presentation of activities required after completion of internship.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CHEM 40093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours
(Repeatable for credit) Variable titled workshop in chemistry.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CHEM 40099 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours
(Repeatable for credit)For departmental honors may be started summer prior to senior year. Register each semester during senior year. Minimum total credit 5-hours.
Prerequisite: Departmental and honors college approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 1-10 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

CHEM 40109 BIOANALYTICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50109 and CHEM 70109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. Provides an overview of the fundamental biological targets for bioanalytical assays, such as lipids, peptides, proteins, nucleic acids and cells. Briefly introduces traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Discusses approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.
Prerequisite: CHEM 30105.
Pre/corequisite: CHEM 30284 or CHEM 40245 or CHEM 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40113 CHEMICAL SEPARATIONS 3 Credit Hours
(Cross-listed with CHEM 50113 and CHEM 70113) Theory, instrumentation and applications of chemical separations for chemical analysis with an emphasis on gas and liquid chromatography.
Prerequisite: CHEM 30106.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40115 APPLICATIONS OF SPECTROSCOPY AND IMAGING 3 Credit Hours
(Slashed with CHEM 50115 and CHEM 70115) This course covers the fundamentals of optics, recent developments in spectroscopy and microscopy and their applications in chemistry. Included are methods of optical microscope-based spectroscopy and imaging in relation to analytical chemistry, biochemistry and polymer chemistry research; such as principles and applications of fluorescence spectroscopy, atomic force microscopy, optical tweezer and patch clamp.
Prerequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40195 SPECIAL TOPICS IN ANALYTICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50195 and CHEM 70195) (Repeatable for credit) In depth examination of current topics in analytical chemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40245 BIOCHEMICAL FOUNDATIONS OF MEDICINE 4 Credit Hours
(Slashed with CHEM 50245) Chemistry and metabolism of biologically important compounds; enzyme catalysis; metabolic regulation, inborn and induced errors of metabolism. Does not count toward the B.S. Biochemistry major.
Prerequisite: CHEM 30481.
Pre/corequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 40248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50248 and CHEM 70248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.
Prerequisite: CHEM 30284 or CHEM 40245.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40251 ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC) 2 Credit Hours
Practical experience in the characterization of biomolecules; recombinant DNA technology; electrophoretic separation of macromolecules, affinity purification; mass spectrometric approaches; protein folding; RNA structure, interactions and catalytic mechanisms.
Pre/corequisite: CHEM 40262.
Schedule Type: Lecture
Contact Hours: 6 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

CHEM 40261 BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION 3 Credit Hours
(Slashed with CHEM 50261 and CHEM 70261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphasis on enzymes, membranes and bioenergetics.
Prerequisite: CHEM 20481 or CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40262 BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION 3 Credit Hours
(Slashed with CHEM 50262 and CHEM 70262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, post-translational modification.
Prerequisite: CHEM 30284 OR CHEM 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40263 PHYSICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 50263 and CHEM 70263) Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems, spectroscopy, structure and properties of biological molecules.
Prerequisite: CHEM 40555 or CHEM 40567; and CHEM 30284 or CHEM 40245 or CHEM 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40264 MEDICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 50264 and CHEM 70264) The course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.
Prerequisite: CHEM 40262 or BSCI 40143.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40295 SPECIAL TOPICS IN BIOCHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50295 and CHEM 70295) (Repeatable for credit) In depth examination of current topics in biochemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40302 INORGANIC CHEMISTRY II 2 Credit Hours
(Slashed with CHEM 50302) Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nanomaterials, nanoscience and nanotechnology.
Prerequisite: CHEM 30301.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 40303 INORGANIC CHEMISTRY III 2 Credit Hours
(Slashed with CHEM 50303) Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedra complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends of Groups 1 and 2 and d-block, bioinorganic chemistry.
Prerequisite: CHEM 40302.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 40352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50352 and CHEM 70352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.
Prerequisite: CHEM 40302.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40364 INTERMEDIATE INORGANIC CHEMISTRY LAB 1 Credit Hour
A laboratory course providing experience in the synthesis of significant inorganic compounds and the techniques of various experimental and spectroscopic methods and chromatographic separations.
Prerequisite: CHEM 40302.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

CHEM 40365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50365 and CHEM 70365) Physical methods, s-block metals, metal ion-induced folding, electron transfer proteins, oxidoreductases, substrate binding and activation by non-redox mechanisms, biomineralization, group-atom transfer and metals in medicine.
Prerequisite: CHEM 30301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40395 SPECIAL TOPICS IN INORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50395 and CHEM 70395) (Repeatable for credit) In depth examination of current topics in inorganic chemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50451 and CHEM 70451) Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials.
Prerequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours
(Slashed with CHEM 50476 and CHEM 70476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR, and mass spectrometric data through lectures and problem solving.
Prerequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 40477 INTERMEDIATE ORGANIC CHEMISTRY LABORATORY 1 Credit Hour
(Slashed with CHEM 50477) Continuation of CHEM 30476, including hands-on use of a high-field NMR spectrometer; single and multistep organic syntheses.
Prerequisite: CHEM 30476 and CHEM 40483.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

CHEM 40483 INTERMEDIATE ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 50483 and CHEM 70483) Continuation of CHEM 30482; organic chemistry from mechanistic and synthetic viewpoints, including synthetic design, organotransition metal chemistry and free radical chemistry.
Prerequisite: CHEM 30482 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CHEM 40485 PHYSICAL ORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50485 and CHEM 70485) This course presents a modern view of organic chemistry through the study of organic reaction mechanisms, advanced chemical bonding theories, high-energy intermediates and reactivity patterns common to organic chemical reactions. Emphasis is placed on synthetic organic chemistry with a focus on chemical structure, reactivity, chemical kinetics, thermodynamics, physical and chemical behavior and reaction mechanisms. Central to these investigations is understanding the use of molecular spectroscopy and molecular modeling software as investigative tools. A specific goal of this course is to introduce students to concepts necessary to solving mechanistic organic problems encountered in the research laboratory. The course covers common organic reaction mechanisms, experimental techniques and theoretical approaches to understanding reaction mechanisms. All topics are approached from a structural and mechanistic perspective. Emphasis is also placed on the importance of organic chemistry in biochemical systems. Classroom time is divided into lectures, discussions and problem solving sessions to enable students to develop both advanced knowledge and problem solving skills in organic chemistry.
Prerequisite: Minimum C grade in CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40495 SPECIAL TOPICS IN ORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50495 and CHEM 70495) (Repeatable for credit) In depth examination of current topics in organic chemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50541 and CHEM 70541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.
Prerequisite: CHEM 40556.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40555 PHYSICAL CHEMISTRY I 3 Credit Hours
(Slashed with CHEM 50555 and CHEM 70555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences.
Prerequisite: Minimum C grade in CHEM 10061 or CHEM 10971; and a minimum C grade in MATH 12003; and PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40556 PHYSICAL CHEMISTRY II 3 Credit Hours
(Slashed with CHEM 50556 and CHEM 70556) A continuation of CHEM 40555. Areas covered include quantum mechanics, atomic and molecular structure, spectroscopy, statistical mechanics, theories of reaction rates and the solid state.
Prerequisite: CHEM 40555 or PHY 45301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours
(Slashed with CHEM 50557 and CHEM 70557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data.
Prerequisite: CHEM 40556.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

CHEM 40559 NANOMATERIALS 3 Credit Hours
(Slashed with CHEM 50559 and CHEM 70559) Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.
Prerequisite: CHEM 10061 or CHEM 10971 and; CHEM 40555 or CHEM 40567.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40563 QUANTUM CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50563 and CHEM 70563) This course builds on the physical chemistry course sequence and introduces advanced topics of quantum mechanics and their applications in chemistry and towards understanding the electronic structure of atoms and molecules.
Prerequisite: CHEM 40556.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40564 COMPUTATIONAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 50564 and CHEM 70564) The course introduces the theoretical foundations and practical techniques of computational chemistry research.
Pre/corequisite: CHEM 40556 or CHEM 40567.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 40567 PHYSICAL CHEMISTRY FOR LIFE SCIENCES 4 Credit Hours
Traditional aspects of physical chemistry with minimal calculus treatment. Applications to the health sciences emphasized.
Prerequisite: Minimum C grade in CHEM 10061 or CHEM 10971; and MATH 12002 or MATH 12021.
Pre/corequisite: PHY 13002 or PHY 23102.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 40568 ELEMENTARY PHYSICAL CHEMISTRY LABORATORY 1 Credit Hour
Provides hands-on experience with calorimetry, viscosimetry and spectroscopic techniques.
Prerequisite: CHEM 40555 or CHEM 40567.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

CHEM 40571 SURFACE CHEMISTRY 2 Credit Hours
(Slashed with CHEM 50571 and CHEM 70571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized. Two hours lecture weekly.
Prerequisite: CHEM 40555 or CHEM 40567.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 40595 SPECIAL TOPICS IN PHYSICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 50595 and CHEM 70595) (Repeatable for credit) In depth examination of current topics in physical chemistry through guided study of literature and presentations.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 40795 CURRENT TOPICS IN CHEMICAL EDUCATION 1-3 Credit Hours
(Slashed with CHEM 50795) (Repeatable for credit) Recent advances in chemical research, instrumentation and theory important to chemical educators.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 40796 INDIVIDUAL INVESTIGATION 1-8 Credit Hours
(Repeatable for credit) Registration requires prior approval of the research director. Written report required. Maximum of two hours may be applied to the four hour CHEM 40000 elective requirement for the chemistry concentration within the B.S. in Chemistry.
Prerequisite: Minimum 2.500 overall GPA in Chemistry; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 41010 BIOPHOTONICS 3 Credit Hours
(Slashed with CHEM 51010) (Cross-listed with BSCI 41110 and BSCI 51110 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

CHEM 50093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours
(Repeatable for credit) Variable titled workshop in chemistry.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CHEM 50109 BIOANALYTICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40109 and CHEM 70109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. The course will provide an overview of the fundamental biological targets for the bioanalytical assays, such as lipids, peptides, proteins, nucleic acids, and cells. The course will then briefly introduce traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Finally, the course will discuss approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.
Prerequisite: CHEM 30105; and graduate standing; and special approval.
Corequisite: CHEM 30284 or 40245 or 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50113 CHEMICAL SEPARATIONS 3 Credit Hours
(Slashed with CHEM 40113 and CHEM 70113) Theory, instrumentation and applications of chemical separations for chemical analysis. Emphasis on gas and liquid chromatography.
Prerequisite: CHEM 30106; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50115 APPLICATIONS OF SPECTROSCOPY AND IMAGING 3 Credit Hours
(Slashed with CHEM 40115 and CHEM 70115) This course covers the fundamentals of optics, recent developments in spectroscopy and microscopy and their applications in chemistry. Included are methods of optical microscope-based spectroscopy and imaging in relation to analytical chemistry, biochemistry and polymer chemistry research; such as principles and applications of fluorescence spectroscopy, atomic force microscopy, optical tweezer and patch clamp.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50166 PRINCIPLES AND APPLICATIONS IN ANALYTICAL CHEMISTRY 2 Credit Hours
Survey of important principles and concepts and their application in Analytical Chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50195 SPECIAL TOPICS IN ANALYTICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40195 and CHEM 70195) (Repeatable for credit) In depth examination of current topics in analytical chemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50245 BIOCHEMICAL FOUNDATIONS OF MEDICINE 4 Credit Hours
(Slashed with CHEM 40245) Introduction to chemistry and metabolism of important compounds in biological systems; enzymes and characteristics of enzyme catalysis; regulation of metabolism at molecular, cellular and organism levels; inborn and induced errors of metabolism. Designed and scheduled for and priority given to students in integrated life sciences program.
Prerequisite: CHEM 30481; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHEM 50248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40248 and CHEM 70248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50261 BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION 3 Credit Hours
(Slashed with CHEM 40261 and CHEM 70261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50262 BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION 3 Credit Hours
(Slashed with CHEM 40262 and CHEM 70262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, and post-translational modification.
Prerequisite: CHEM 50261 or CHEM 70261; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50263 PHYSICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 40263 and CHEM 70263) Principles and techniques of physical chemistry used in studying biomacro-molecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules.
Prerequisite: Graduate standing in Chemistry.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50264 MEDICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 40264 and CHEM 70264) Course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50266 PRINCIPLES AND APPLICATIONS IN BIOCHEMISTRY 2 Credit Hours
Survey of important principles and concepts and their application in biochemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

CHEM 50295 SPECIAL TOPICS IN BIOCHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40295 and CHEM 70295) (Repeatable for credit) In depth examination of current topics in biochemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50302 INORGANIC CHEMISTRY II 2 Credit Hours
(Slashed with CHEM 40302) Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nanomaterials, nanoscience and nanotechnology.
Prerequisite: CHEM 30301; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50303 INORGANIC CHEMISTRY III 2 Credit Hours
(Slashed with CHEM 40303) Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedral complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends Groups 1 and 2 and d-block, bioinorganic chemistry.
Prerequisite: CHEM 50302; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40352 and CHEM 70352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40365 and CHEM 70365) Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50366 PRINCIPLES AND APPLICATIONS IN INORGANIC CHEMISTRY 2 Credit Hours
Survey of important principles and concepts and their application in inorganic chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50395 SPECIAL TOPICS IN INORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40395 and CHEM 70395) (Repeatable for credit) In depth examination of current topics in inorganic chemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40451 and CHEM 70451) Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50466 PRINCIPLES AND APPLICATIONS IN ORGANIC CHEMISTRY 2 Credit Hours
Survey of important principles and concepts and their application in Organic Chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours
(Slashed with CHEM 40476 and CHEM 70476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR and mass spectrometric data through lectures and problem solving.
Prerequisite: CHEM 30482; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50477 INTERMEDIATE ORGANIC CHEMISTRY LABORATORY 1 Credit Hour
Continuation of CHEM 30476, including hands-on use of a high-field NMR spectrometer; single and multistep organic syntheses.
Prerequisite: CHEM 50483 and graduate standing.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

CHEM 50483 INTERMEDIATE ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 40483 and CHEM 70483) Organic chemistry from mechanistic and synthetic viewpoints, including synthetic design, organotransition metal chemistry and free radical chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CHEM 50485 PHYSICAL ORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40485 and CHEM 70485) This course presents a modern view of organic chemistry through the study of organic reaction mechanisms, advanced chemical bonding theories, high-energy intermediates and reactivity patterns common to organic chemical reactions. Emphasis is placed on synthetic organic chemistry with a focus on chemical structure, reactivity, chemical kinetics, thermodynamics, physical and chemical behavior and reaction mechanisms. Central to these investigations is understanding the use of molecular spectroscopy and molecular modeling software as investigative tools. A specific goal of this course is to introduce students to concepts necessary to solving mechanistic organic problems encountered in the research laboratory. The course covers common organic reaction mechanisms, experimental techniques and theoretical approaches to understanding reaction mechanisms. All topics are approached from a structural and mechanistic perspective. Emphasis is also placed on the importance of organic chemistry in biochemical systems. Classroom time is divided into lectures, discussions and problem solving sessions to enable students to develop both advanced knowledge and problem solving skills in organic chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50495 SPECIAL TOPICS IN ORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40495 and CHEM 70495) (Repeatable for credit) In depth examination of current topics in organic chemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40541 and CHEM 70541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.
Prerequisite: CHEM 50556; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50555 PHYSICAL CHEMISTRY I 3 Credit Hours
(Slashed with CHEM 40555 and CHEM 70555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing application in chemistry and the biological sciences.
Prerequisite: Graduate standing in Chemistry.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50556 PHYSICAL CHEMISTRY II 3 Credit Hours
(Slashed with CHEM 40556 and CHEM 70556) A continuation of CHEM 50555. Areas covered are chemical kinetics, quantum chemistry and the solid state.
Prerequisite: CHEM 50555 or PHY 45301; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours
(Slashed with CHEM 40557 and CHEM 70557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data.
Prerequisite: Graduate standing.
Pre/corequisite: CHEM 50555 and CHEM 50556.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

CHEM 50559 NANOMATERIALS 3 Credit Hours
(Slashed with CHEM 40559 and CHEM 70559). Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50563 QUANTUM CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40563 and CHEM 70563) This course builds on the physical chemistry course sequence and introduces advanced topics of quantum mechanics and their applications in chemistry and towards understanding the electronic structure of atoms and molecules.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50564 COMPUTATIONAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40564 and CHEM 70564) The course introduces the theoretical foundations and practical techniques of computational chemistry research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 50566 PRINCIPLES AND APPLICATIONS IN PHYSICAL CHEMISTRY 2 Credit Hours
Survey of key principles and concepts and their application in Physical Chemistry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50571 SURFACE CHEMISTRY 2 Credit Hours
(Slashed with CHEM 40571 and CHEM 70571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized.
Prerequisite: CHEM 40555 or 40567; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 50595 SPECIAL TOPICS IN PHYSICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40595 and CHEM 70595) (Repeatable for credit) In depth examination of current topics in physical chemistry through guided study of literature and presentations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 50795 CURRENT TOPICS IN CHEMICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CHEM 40795) Designed to present recent advances in chemical research, instrumentation and theory to chemistry educators.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 51010 BIOPHOTONICS 3 Credit Hours
(Slashed with CHEM 41010) (Cross-listed with BSCI 41110 and BSCI 51110 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

CHEM 60099 MASTERS CAPSTONE PROJECT 3-6 Credit Hours
Capstone project in the form of literature reviews or research projects on topics in chemistry, biochemistry, or chemical education.
Prerequisite: Graduate standing.
Schedule Type: Master's Project
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 60254 BIOMEMBRANES 2 Credit Hours
(Slashed with CHEM 70254) Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 60291 SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 70291) Presentation and discussion of research papers from current biochemistry literature. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 60299 THESIS II 2 Credit Hours
Thesis students must continue registration until all degree requirements are met.
Prerequisite: CHEM 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 60327 MODERN INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 70327) Synthesis, structure and reactivity of inorganic compounds including transition metal and organometallic complexes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 60391 SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 70391) Presentation and discussion of research papers from current inorganic chemistry literature. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 60472 ADVANCED ORGANIC CHEMISTRY-SYNTHETIC ASPECTS 3 Credit Hours
(Slashed with CHEM 70472) Disconnection approach to organic synthesis. Modern methods for carbon-carbon bond formation and functional group interconversion, and their application to natural product synthesis.
Prerequisite: CHEM 30482; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 60473 STEREOSELECTIVE ORGANIC SYNTHESIS 3 Credit Hours
(Slashed with CHEM 70473) Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis.
Prerequisite: CHEM 30482; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 60541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours
Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.
Prerequisite: CHEM 50556; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 60591 SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 70591) Presentation and discussion of research papers from current physical chemistry literature. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 60691 SEMINAR: RECENT DEVELOPMENTS IN INDUSTRIAL CHEMISTRY 1 Credit Hour
Presentation and discussion of research papers from the current industrial chemistry field. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

CHEM 60894 COLLEGE TEACHING OF CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 70894) Experience in teaching of chemistry at college level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 60898 MASTERS RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research for master's students. Credits earned may be applied toward degree if department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 61191 SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 71191) Problem solving in analytical chemistry, including chemical analysis methods, instrumentation, sample preparation, and data handling.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 61491 SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 71491) Practical experience in the solving of current problems of synthesis, spectroscopy, and mechanism in organic chemistry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62191 SEMINAR: ANALYTICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72191) Student and faculty presentations on topics in analytical chemistry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62291 SEMINAR: BIOCHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72291) Student and faculty presentations on topics in biochemistry
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62391 SEMINAR: INORGANIC CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72391) Student and faculty presentations on topics in inorganic chemistry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62491 SEMINAR: ORGANIC CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72491) Presentation of topics from the recent literature on aspects of organic chemistry including synthesis, spectroscopy, mechanism, and materials properties.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62591 SEMINAR: PHYSICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 72591) Student and faculty presentations on topics in physical chemistry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 62691 SEMINAR: INDUSTRIAL CHEMISTRY 1 Credit Hour
Presentation of current research in industrial chemistry. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

CHEM 62791 SEMINAR: CHEMICAL EDUCATION 1 Credit Hour
Presentation of current research in chemical education. Participation by students and faculty.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

CHEM 70093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours
(Repeatable for credit)Variable title workshop in Chemistry.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CHEM 70109 BIOANALYTICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40109 and CHEM 50109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. The course will provide an overview of the fundamental biological targets for the bioanalytical assays, such as lipids, peptides, proteins, nucleic acids, and cells. The course will then briefly introduce traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Finally, the course will discuss approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.
Prerequisite: CHEM 30105; and doctoral standing; and special approval.
Corequisite: CHEM 30284 or CHEM 40245 or CHEM 40261.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70113 CHEMICAL SEPARATIONS 3 Credit Hours
(Slashed with CHEM 40113 and CHEM 50113) Theory, instrumentation and applications of chemical separations for chemical analysis. Emphasis on gas and liquid chromatography.
Prerequisite: CHEM 30106; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70115 APPLICATIONS OF SPECTROSCOPY AND IMAGING 3 Credit Hours
(Slashed with CHEM 40115 and CHEM 50115) This course covers the fundamentals of optics, recent developments in spectroscopy and microscopy and their applications in chemistry. Included are methods of optical microscope-based spectroscopy and imaging in relation to analytical chemistry, biochemistry and polymer chemistry research; such as principles and applications of fluorescence spectroscopy, atomic force microscopy, optical tweezer and patch clamp.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70195 SPECIAL TOPICS IN ANALYTICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40195 and CHEM 50195) (Repeatable for credit) In depth examination of current topics in analytical chemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40248 and CHEM 50248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70254 BIOMEMBRANES 2 Credit Hours
(Slashed with CHEM 60254) Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 70261 BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION 3 Credit Hours
(Slashed with CHEM 40261 and CHEM 50261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70262 BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION 3 Credit Hours
(Slashed with CHEM 40262 and CHEM 50262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, and post-translational modification.
Prerequisite: CHEM 50261 or CHEM 70261; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70263 PHYSICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 40263 and CHEM 50263) Principles and techniques of physical chemistry used in studying biomacro-molecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules.
Prerequisite: Doctoral standing in Chemistry.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70264 MEDICAL BIOCHEMISTRY 3 Credit Hours
(Slashed with CHEM 40264 and CHEM 50264) The course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70291 SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY 1 Credit Hour
(Slashed with CHEM 60291)(Repeatable for credit) Presentation and discussion of research papers from current biochemistry literature. Participation by students and faculty.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 70295 SPECIAL TOPICS IN BIOCHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40295 and CHEM 50295) (Repeatable for credit) In depth examination of current topics in biochemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70327 MODERN INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 60327) Synthesis, structure and reactivity of inorganic compounds including transition metal and organometallic complexes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40352 and CHEM 50352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40365 and CHEM 50365) Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine.
Prerequisite: CHEM 30301; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70391 SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 60391)(Repeatable for credit) Presentation and discussion of research papers from current inorganic chemistry literature. Participation by students and faculty.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 70395 SPECIAL TOPICS IN INORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40395 and CHEM 50395) (Repeatable for credit) In depth examination of current topics in inorganic chemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40451 and CHEM 50451) Broad survey of the synthesis, properties characterization and applications of organic and polymeric materials.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70472 ADVANCED ORGANIC CHEMISTRY-SYNTHETIC ASPECTS 3 Credit Hours
(Slashed with CHEM 60472) Disconnection approach to organic synthesis. Modern methods for carbon-carbon bond formation and functional group interconversion, and their application to natural product synthesis. Doctoral standing.
Prerequisite: CHEM 30482.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70473 STEREOSELECTIVE ORGANIC SYNTHESIS 3 Credit Hours
(Slashed with CHEM 60473) Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis.
Prerequisite: CHEM 30482; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours
(Slashed with CHEM 40476 and CHEM 50476) Strategies for structural elucidation of organic compounds from analysis of infraret, proton and carbon NMR, and mass spectrometric data through lectures and problem solving.
Prerequisite: CHEM 30482; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 70483 INTERMEDIATE ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 40483 and CHEM 50483) Organic chemistry from mechanistic and synthetic viewpoints, including synthetic design, organotransition metal chemistry and free radical chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CHEM 70485 PHYSICAL ORGANIC CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40485 and CHEM 50485) This course presents a modern view of organic chemistry through the study of organic reaction mechanisms, advanced chemical bonding theories, high-energy intermediates and reactivity patterns common to organic chemical reactions. Emphasis is placed on synthetic organic chemistry with a focus on chemical structure, reactivity, chemical kinetics, thermodynamics, physical and chemical behavior and reaction mechanisms. Central to these investigations is understanding the use of molecular spectroscopy and molecular modeling software as investigative tools. A specific goal of this course is to introduce students to concepts necessary to solving mechanistic organic problems encountered in the research laboratory. The course covers common organic reaction mechanisms, experimental techniques and theoretical approaches to understanding reaction mechanisms. All topics are approached from a structural and mechanistic perspective. Emphasis is also placed on the importance of organic chemistry in biochemical systems. Classroom time is divided into lectures, discussions and problem solving sessions to enable students to develop both advanced knowledge and problem solving skills in organic chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70495 SPECIAL TOPICS IN ORGANIC CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40495 and CHEM 50495) (Repeatable for credit) In depth examination of current topics in organic chemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40541 and CHEM 50541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70555 PHYSICAL CHEMISTRY I 3 Credit Hours
(Slashed with CHEM 40555 and CHEM 50555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences.
Prerequisite: Doctoral standing in Chemistry.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70556 PHYSICAL CHEMISTRY II 3 Credit Hours
(Slashed with CHEM 40556 and CHEM 50556) Fundamental concepts of physical chemistry of current interest. Included are biological and medical aspects of physical chemistry. Graduate credit given to nonchemistry and nonphysics majors and with permission to certain chemistry majors.
Prerequisite: CHEM 50555 or 70555; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours
(Slashed with CHEM 40557 and CHEM 50557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data correlation of results with theory and an introduction to the computer treatment of data.
Prerequisite: Doctoral standing.
Pre/corequisite: CHEM 70555 and CHEM 70556.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

CHEM 70559 NANOMATERIALS 3 Credit Hours
(Slashed with CHEM 40559 and CHEM 50559) Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70563 QUANTUM CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40563 and CHEM 50563) This course builds on the physical chemistry course sequence and introduces advanced topics of quantum mechanics and their applications in chemistry and towards understanding the electronic structure of atoms and molecules.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70564 COMPUTATIONAL CHEMISTRY 3 Credit Hours
(Slashed with CHEM 40564 and CHEM 50564) The course introduces the theoretical foundations and practical techniques of computational chemistry research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHEM 70571 SURFACE CHEMISTRY 2 Credit Hours
(Slashed with CHEM 40571 and CHEM 50571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized.
Prerequisite: CHEM 40555 or CHEM 40567; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CHEM 70591 SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY 1 Credit Hour
(Slashed with CHEM 60591)(Repeatable for credit) Presentation and discussion of research papers from current physical chemistry literature. Participation by students and faculty.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 70595 SPECIAL TOPICS IN PHYSICAL CHEMISTRY 1-3 Credit Hours
(Slashed with CHEM 40595 and CHEM 50595) (Repeatable for credit) In depth examination of current topics in physical chemistry through guided study of literature and presentations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CHEM 70894 COLLEGE TEACHING OF CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 60894) Experience in teaching of chemistry at college level.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

CHEM 71191 SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY 1 Credit Hour
(Slashed with CHEM 61191)(Repeatable for credit) Problem solving in analytical chemistry, including chemical analysis methods, instrumentation, sample preparation, and data handling.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 71491 SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 61491)(Repeatable for credit) Practical experience in the solving of current problems of synthesis, spectroscopy, and mechanism in organic chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72191 SEMINAR: ANALYTICAL CHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 62191) Student and faculty presentations on topics in analytical chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72291 SEMINAR: BIOCHEMISTRY 1 Credit Hour
(Repeatable for credit) (Slashed with CHEM 62291) Student and faculty presentations on topics in biochemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72391 SEMINAR: INORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 62391)(Repeatable for credit) Student and faculty presentations on topics in inorganic chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72491 SEMINAR: ORGANIC CHEMISTRY 1 Credit Hour
(Slashed with CHEM 62491)(Repeatable for credit) Presentation of topics from the recent literature on aspects of organic chemistry including synthesis, spectroscopy, mechanism, and materials properties.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 72591 SEMINAR: PHYSICAL CHEMISTRY 1 Credit Hour
(Slashed with CHEM 62591)(Repeatable for credit) Student and faculty presentations on topics in physical chemistry.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

CHEM 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: CHEM 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CHEM 80898 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree if department approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Biochemistry - B.S.

College of Arts and Sciences
Department of Chemistry and Biochemistry
www.kent.edu/chemistry

About This Program

Our Biochemistry program equips you with the knowledge and skills needed to understand the molecular basis of life. With hands-on experiences in state-of-the-art labs and guidance from our experienced faculty, you will develop the strong foundation in biochemistry needed for careers in research, medicine and pharmaceutical fields. Read more...

Contact Information

- **Alex Seed** | aseed@kent.edu | 330-672-9528
- **Sanjaya Abeysirigunawardena** | sabeysir@kent.edu | 330-672-2667
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Agricultural and food science technicians

- 4.1% about as fast as the average
- 24,200 number of jobs
- $41,970 potential earnings

Biochemists and biophysicists

- 4.0% about as fast as the average
- 34,600 number of jobs
- $94,270 potential earnings

Bioengineers and biomedical engineers

- 4.7% about as fast as the average
- 21,200 number of jobs
- $92,620 potential earnings

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Biological technicians

- 4.9% about as fast as the average
- 87,500 number of jobs
- $46,340 potential earnings

Chemical engineers

- 4.4% about as fast as the average
- 32,600 number of jobs
- $108,540 potential earnings

Environmental engineers

- 3.1% about as fast as the average
- 55,800 number of jobs
- $92,120 potential earnings

Forensic science technicians

- 14.1% much faster than the average
- 17,200 number of jobs
- $60,590 potential earnings

Genetic counselors

- 21.5% much faster than the average
- 2,600 number of jobs
- $85,700 potential earnings

Medical scientists, except epidemiologists

- 6.1% faster than the average
- 138,300 number of jobs
- $91,510 potential earnings

Occupational health and safety technicians

- 4.8% about as fast as the average
- 22,100 number of jobs
- $53,340 potential earnings

Pharmacists

- -3.3% decline
- 321,700 number of jobs
- $128,710 potential earnings

Additional Careers

- Biochemical engineers
- DNA analysts
- Fermentation technicians
- Genetic engineers
- Grant writers
- National Institutes of Health officers
- Quality control technicians
- Research scientists
- Science writers and communicators

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30171	GENERAL MICROBIOLOGY	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4-6
or CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
or CHEM 11060	GENERAL CHEMISTRY I BOOST (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
or CHEM 10971	HONORS GENERAL CHEMISTRY II (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) [1]	1
CHEM 30301	INORGANIC CHEMISTRY I	3
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
CHEM 30481	ORGANIC CHEMISTRY I	4
CHEM 30482	ORGANIC CHEMISTRY II	4
CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC) [1]	2
CHEM 40261	BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION	3
CHEM 40262	BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION	3
CHEM 40263	PHYSICAL BIOCHEMISTRY	3
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4

CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	4-5
or MATH 12021	CALCULUS FOR LIFE SCIENCES	
MATH 12022	PROBABILITY AND STATISTICS FOR LIFE SCIENCES	3
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
Physics Electives, choose from the following:		10
PHY 13001 & PHY 13002 & PHY 13021 & PHY 13022	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 23101 & PHY 23102	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) and GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each) [2]		9
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [3]		5
Concentration or Additional Requirements		
Choose from the following:		13
Additional Requirements for Students Not Declaring a Concentration		
Pre-Medicine/Pre-Osteopathy/Pre-Dentistry/Pre-Podiatric Medicine Concentration		
Minimum Total Credit Hours:		**120**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

2 PHIL 21001 is recommended for students in the Pre-Medicine/Pre-Osteopathy/Pre-Dentistry/Pre-Podiatric Medicine concentration.

3 The following are recommended for students in the Pre-Medicine/Pre-Osteopathy/Pre-Dentistry/Pre-Podiatric Medicine concentration: COMM 15000, ECON 22060, ECON 42086, PSYC 40111, PSYC 41363, SOC 42563.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
Major Electives, choose from the following:		7
Strongly Suggested Electives		
BSCI 40174	IMMUNOLOGY	
BSCI 40220	BIOINFORMATICS	
BSCI 40430	ANIMAL PHYSIOLOGY	
or BSCI 40460	ADVANCED HUMAN PHYSIOLOGY	
BSCI 40462	ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES	
BTEC 40191	SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY	
CHEM 40109	BIOANALYTICAL CHEMISTRY	
CHEM 40113	CHEMICAL SEPARATIONS	
CHEM 40264	MEDICAL BIOCHEMISTRY	
CHEM 40295	SPECIAL TOPICS IN BIOCHEMISTRY	
CHEM 40365	BIOLOGICAL INORGANIC CHEMISTRY	
CHEM 40796	INDIVIDUAL INVESTIGATION [1]	
Other Suggested Electives		
CHEM 30106	ANALYTICAL CHEMISTRY II	
CHEM 30108	ANALYTICAL CHEMISTRY LABORATORY II (WIC) [2]	
CHEM 40195	SPECIAL TOPICS IN ANALYTICAL CHEMISTRY	
CHEM 40302	INORGANIC CHEMISTRY II	
CHEM 40364	INTERMEDIATE INORGANIC CHEMISTRY LAB	
CHEM 40395	SPECIAL TOPICS IN INORGANIC CHEMISTRY	
CHEM 40451	ORGANIC MATERIALS CHEMISTRY	
CHEM 40476	SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS	
CHEM 40477	INTERMEDIATE ORGANIC CHEMISTRY LABORATORY	
CHEM 40483	INTERMEDIATE ORGANIC CHEMISTRY	
CHEM 40495	SPECIAL TOPICS IN ORGANIC CHEMISTRY	
CHEM 40559	NANOMATERIALS	
CHEM 40571	SURFACE CHEMISTRY	
CHEM 40595	SPECIAL TOPICS IN PHYSICAL CHEMISTRY	
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		6
Minimum Total Credit Hours:		**13**

1 Maximum 4 credit hours of CHEM 40796 may be applied toward major electives.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

Pre-Medicine/Pre-Osteopathy/Pre-Dentistry/Pre-Podiatric Medicine Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 40430	ANIMAL PHYSIOLOGY	3
or BSCI 40460	ADVANCED HUMAN PHYSIOLOGY	
Concentration Electives, choose from the following:		4
BSCI 30517	HUMAN ANATOMY	
or BSCI 30518	VERTEBRATE ANATOMY	
BSCI 40174	IMMUNOLOGY	
BSCI 40220	BIOINFORMATICS	
BTEC 40191	SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY	
CHEM 30106	ANALYTICAL CHEMISTRY II	
CHEM 40109	BIOANALYTICAL CHEMISTRY	
CHEM 40264	MEDICAL BIOCHEMISTRY	
CHEM 40302	INORGANIC CHEMISTRY II	
CHEM 40365	BIOLOGICAL INORGANIC CHEMISTRY	
CHEM 40477	INTERMEDIATE ORGANIC CHEMISTRY LABORATORY	
CHEM 40483	INTERMEDIATE ORGANIC CHEMISTRY	
CHEM 40796	INDIVIDUAL INVESTIGATION [1]	
Additional Requirements (courses do not count in major GPA)		

PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Minimum Total Credit Hours:		**13**

[1] Maximum 3 credit hours of CHEM 40796 may be applied toward concentration electives.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

[1] All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

[2] The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Additional Requirements for Students Not Declaring a Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10060 or CHEM 10970 or CHEM 11060	GENERAL CHEMISTRY I (KBS) or HONORS GENERAL CHEMISTRY I (KBS) or GENERAL CHEMISTRY I BOOST (KBS)	4-6
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002 or MATH 12021	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) or CALCULUS FOR LIFE SCIENCES	4-5
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
!	CHEM 10061 or CHEM 10971	GENERAL CHEMISTRY II (KBS) or HONORS GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12022 or MATH 30011	PROBABILITY AND STATISTICS FOR LIFE SCIENCES or BASIC PROBABILITY AND STATISTICS	3
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	BSCI 30156	ELEMENTS OF GENETICS	3
!	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	CHEM 30481	ORGANIC CHEMISTRY I	3
	Physics Electives		5
	Foreign Language		4
		Credit Hours	**16**
	Semester Four		
!	BSCI 30140	CELL BIOLOGY	4
!	CHEM 30301	INORGANIC CHEMISTRY I	3
!	CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
!	CHEM 30482	ORGANIC CHEMISTRY II	3
	Physics Electives		5
		Credit Hours	**16**
	Semester Five		
!	CHEM 30105	ANALYTICAL CHEMISTRY I	3
!	CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
!	CHEM 40261	BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION	3
!	CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Six		
!	CHEM 40262	BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION	3
!	CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**13**
	Semester Seven		
!	BSCI 30171	GENERAL MICROBIOLOGY	4
	Major Electives		6
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Eight		
!	CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC)	2

!	CHEM 40263	PHYSICAL BIOCHEMISTRY	3
	Major Elective		3
	General Electives		5
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

Pre-Medicine/Pre-Osteopathy/Pre-Dentistry/Pre-Podiatric Medicine Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10060 or CHEM 10970 or CHEM 11060	GENERAL CHEMISTRY I (KBS) or HONORS GENERAL CHEMISTRY I (KBS) or GENERAL CHEMISTRY I BOOST (KBS)	4-6
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002 or MATH 12021	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) or CALCULUS FOR LIFE SCIENCES	4-5
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
		Credit Hours	**17**
	Semester Two		
!	CHEM 10061 or CHEM 10971	GENERAL CHEMISTRY II (KBS) or HONORS GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12022 or MATH 30011	PROBABILITY AND STATISTICS FOR LIFE SCIENCES or BASIC PROBABILITY AND STATISTICS	3
	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Foreign Language		4
		Credit Hours	**15**
	Semester Three		
!	BSCI 30156	ELEMENTS OF GENETICS	3
!	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	CHEM 30481	ORGANIC CHEMISTRY I	3
	Physics Electives		5
	Foreign Language		4
		Credit Hours	**16**
	Semester Four		
!	BSCI 30140	CELL BIOLOGY	4
!	CHEM 30301	INORGANIC CHEMISTRY I	3
!	CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
!	CHEM 30482	ORGANIC CHEMISTRY II	3
	Physics Electives		5
		Credit Hours	**16**
	Semester Five		
!	BSCI 30171	GENERAL MICROBIOLOGY	4
!	CHEM 40261	BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION	3
!	CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Six		
!	BSCI 40430 or BSCI 40460	ANIMAL PHYSIOLOGY or ADVANCED HUMAN PHYSIOLOGY	3
!	CHEM 40262	BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION	3
!	CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**13**
	Semester Seven		
!	CHEM 30105	ANALYTICAL CHEMISTRY I	3
!	CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
	Concentration Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Eight		
!	CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC)	2
!	CHEM 40263	PHYSICAL BIOCHEMISTRY	3
	Concentration Elective		3
	General Electives		5
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	

Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply broad-based chemical and biochemical knowledge to their profession.
2. Develop their abilities to plan and execute chemical and biochemical experiments.
3. Prepare and deliver written and oral scientific reports.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Biochemistry provides strong preparation for students interested in pursuing graduate studies in biochemistry or medicine or planning a career as a practicing biochemist in industrial research and development, government research laboratories or academia.

With the selection of appropriate elective courses, students in the Biochemistry major meet the minimum requirements for certification by the American Chemical Society.

The Biochemistry major includes the following optional concentration:

- The **Pre-Medicine/Pre-Osteopathy/Pre-Dentistry/Pre-Podiatric Medicine** concentration is the recommended track for students preparing for careers in medicine, veterinary medicine, dentistry, physical therapy, physician assisting or podiatry.

Students interested in careers in pharmacy have the opportunity to earn this B.S. degree while completing their studies towards a Doctor of Pharmacy degree at Northeast Ohio Medical University (NEOMED). After three years at Kent State, students may apply to and attend NEOMED, and then transfer 20 credit hours of courses from NEOMED to complete their Kent State Biochemistry requirements.

Biochemistry students may apply early to the M.S. degree in Chemistry and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Biotechnology - B.S.

College of Arts and Sciences
Department of Chemistry and Biochemistry
Department of Biological Sciences
www.kent.edu/chemistry

About This Program

Our Biotechnology program offers a thorough education on the principles and techniques of biotechnology, equipping you with the necessary skills for a diverse array of careers in academia, government and industry. With access to cutting-edge research facilities, experienced faculty and real-world opportunities, you will gain the skills and knowledge needed to make an impact in this exciting field. Read more...

Contact Information

- **Min-Ho Kim** | mkim15@kent.edu | 330-672-1445
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Biological technicians

- 4.9% about as fast as the average
- 87,500 number of jobs
- $46,340 potential earnings

Medical scientists, except epidemiologists

- 6.1% faster than the average
- 138,300 number of jobs
- $91,510 potential earnings

Biological scientists, all other

- 2.2% slower than the average
- 44,700 number of jobs
- $85,290 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30171	GENERAL MICROBIOLOGY	4
BSCI 40158	MOLECULAR BIOLOGY	3
BTEC 10210	INTRODUCTION TO BIOTECHNOLOGY	3
BTEC 40191	SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY	1
BTEC 40192	INTERNSHIP IN BIOTECHNOLOGY (ELR)	6-12
or BTEC 40196	INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)	
BTEC 40210	CASE STUDIES IN BIOTECHNOLOGY (WIC) [1]	3
BTEC 40220	BIOINFORMATICS	3
BUS 10123	EXPLORING BUSINESS	3
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC) (min grade C) [1]	2
CHEM 40262	BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 30011	BASIC PROBABILITY AND STATISTICS	3
PHIL 30015	MEDICINE AND MORALITY	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Major Electives, choose from the following:		9
BSCI 30518	VERTEBRATE ANATOMY	
BSCI 40143	EUKARYOTIC CELL BIOLOGY	
BSCI 40159	MOLECULAR BIOLOGY LABORATORY (ELR) (WIC) [1]	
BSCI 40174	IMMUNOLOGY	
BSCI 40463	MEDICAL BIOTECHNOLOGY	
CHEM 30105	ANALYTICAL CHEMISTRY I	
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) [1]	
CHEM 30301	INORGANIC CHEMISTRY I	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
CHEM 40109	BIOANALYTICAL CHEMISTRY	
CHEM 40365	BIOLOGICAL INORGANIC CHEMISTRY	

CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	
PSYC 41363	BIOPSYCHOLOGY	
Any Upper-Division course (30000 or 40000 level) approved by program director		
Additional Requirements (courses do not count in major GPA)		
CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	4
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences (must be from two disciplines)		6
General Elective (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		1
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

[1] All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

[2] The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
		Credit Hours	**15**
	Semester Two		
	BSCI 30140	CELL BIOLOGY	4
	BTEC 10210	INTRODUCTION TO BIOTECHNOLOGY	3
	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	BSCI 30171	GENERAL MICROBIOLOGY	4
	CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
	PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
	Foreign Language		4
		Credit Hours	**15**
	Semester Four		
	BSCI 30156	ELEMENTS OF GENETICS	3
	CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	4
	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	Foreign Language		4
		Credit Hours	**16**
	Semester Five		
	BUS 10123	EXPLORING BUSINESS	3
	MATH 30011	BASIC PROBABILITY AND STATISTICS	3
	PHIL 30015	MEDICINE AND MORALITY	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		1
		Credit Hours	**16**
	Semester Six		
	BSCI 40158	MOLECULAR BIOLOGY	3
	CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	Major Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Third Summer Term		
	BTEC 40192 or BTEC 40196	INTERNSHIP IN BIOTECHNOLOGY (ELR) or INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)	2-6
		Credit Hours	**2**
	Semester Seven		
	BTEC 40191	SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY	1
	BTEC 40210	CASE STUDIES IN BIOTECHNOLOGY (WIC)	3
	BTEC 40220	BIOINFORMATICS	3
	Major Elective		3

	Kent Core Requirement	3
	Credit Hours	**13**
	Semester Eight	
BTEC 40192 or BTEC 40196	INTERNSHIP IN BIOTECHNOLOGY (ELR) or INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)	4-6
CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC)	2
CHEM 40262	BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION	3
	Major Elective	3
	Credit Hours	**12**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge and information to complex issues in biotechnology.
2. Use problem-solving and data-gathering skills to comprehend issues in biotechnology.
3. Develop inductive reasoning and technical communications skills in the context of working in a complex group environment.
4. Analyze scientific papers and expand skills for listening to and critiquing scientific seminars based on the literature or current research.
5. Effectively communicate scientific information.
6. Develop collaborative working relationships with research mentors and laboratory members.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Biotechnology is an interdisciplinary program that provides a strong academic foundation in biological sciences and chemistry, practical training in the various biotechnologies and a solid understanding of their application in industry and biomedicine. The science of biotechnology extends across many areas of biology and chemistry and provides cutting-edge technology tools for modern biology and biomedical research. The curriculum includes a research experience at Kent State and/or an internship at a biotechnology company.

Biotechnology graduates have employment opportunities in biomedical research and in the rapidly growing biotechnology and pharmaceutical industries.

Chemistry - B.A.

College of Arts and Sciences
Department of Chemistry and Biochemistry
www.kent.edu/chemistry

About This Program

The Bachelor of Arts in Chemistry program offers a deep dive into the fascinating world of chemistry. With a focus on theoretical and practical knowledge, you will explore the fundamental principles of chemistry, conduct experiments and gain valuable skills for a wide range of careers in the field. Whether you are interested in chemical research, teaching or any other area, our program provides the foundation you need to succeed. Enroll now and unlock the secrets of the chemical world. Read more...

Contact Information

- **Scott Bunge** | sbunge@kent.edu | 330-672-9445
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Chemical technicians

- 2.8% slower than the average
- 68,100 number of jobs
- $49,820 potential earnings

Chemistry teachers, postsecondary

- 4.3% about as fast as the average
- 26,400 number of jobs
- $80,400 potential earnings

Chemists

- 4.7% about as fast as the average
- 86,700 number of jobs
- $79,300 potential earnings

Food scientists and technologists

- 4.4% about as fast as the average
- 14,200 number of jobs
- $73,450 potential earnings

Forensic science technicians

- 14.1% much faster than the average
- 17,200 number of jobs
- $60,590 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4-5
or CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
or CHEM 11060	GENERAL CHEMISTRY I BOOST (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
or CHEM 10971	HONORS GENERAL CHEMISTRY II (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
or CHEM 30481	ORGANIC CHEMISTRY I	
CHEM 20482	BASIC ORGANIC CHEMISTRY II	2-4
or CHEM 30482	ORGANIC CHEMISTRY II	
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) [1]	1
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 30301	INORGANIC CHEMISTRY I	3
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
CHEM 40302	INORGANIC CHEMISTRY II	3
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Chemistry Elective, choose from the following:		1-3
CHEM 30106	ANALYTICAL CHEMISTRY II	
CHEM 40248	ADVANCED BIOLOGICAL CHEMISTRY	
CHEM 40477	INTERMEDIATE ORGANIC CHEMISTRY LABORATORY	
CHEM 40483	INTERMEDIATE ORGANIC CHEMISTRY	
CHEM 40796	INDIVIDUAL INVESTIGATION	
Any Chemistry (CHEM) course approved by department		
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		29
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	CHEM 10060 or CHEM 10970 or CHEM 11060	GENERAL CHEMISTRY I (KBS) or HONORS GENERAL CHEMISTRY I (KBS) or GENERAL CHEMISTRY I BOOST (KBS)	4-5
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3

	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Two		
!	CHEM 10061 or CHEM 10971	GENERAL CHEMISTRY II (KBS) or HONORS GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 11022	TRIGONOMETRY (KMCR)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Three		
!	CHEM 20481 or CHEM 30481	BASIC ORGANIC CHEMISTRY I or ORGANIC CHEMISTRY I	4
!	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
!	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	Foreign Language		4
		Credit Hours	**19**
	Semester Four		
!	CHEM 20482 or CHEM 30482	BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY II	2-4
!	CHEM 30301	INORGANIC CHEMISTRY I	3
!	CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
!	PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
!	PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
	Foreign Language		4
		Credit Hours	**15**
	Semester Five		
	CHEM 30105	ANALYTICAL CHEMISTRY I	3
	CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
!	CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Six		
	CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**14**
	Semester Seven		
!	CHEM 40302	INORGANIC CHEMISTRY II	3
	Chemistry Elective		1-3
	General Electives		11
		Credit Hours	**15**
	Semester Eight		
	General Electives		12
		Credit Hours	**12**
		Minimum Total Credit Hours:	**121**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply fundamental chemical knowledge as demonstrated by achieving passing grades in general chemistry courses.
2. Comprehend the chemistry that underlies several fields, such as materials, industrial and biological chemistry.
3. Demonstrate skills in basic scientific report writing through laboratory courses.

Program Policies
Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Chemistry allows students greater flexibility in choosing electives than the B.S. degree. Although not intended for students planning to become practicing chemists, the B.A. degree program is well suited for those needing a strong chemistry background as preparation for other career opportunities.

The program may be used to meet pre-medicine and pre-dentistry requirements when appropriate courses from the biological sciences are used to fulfill elective hours. However, the B.S. degree in Biochemistry is strongly recommended for students interested in medical or dental school.

Students in the program have the opportunity to participate in an exchange program with the University of Leicester in England.

Chemistry - B.S.

College of Arts and Sciences
Department of Chemistry and Biochemistry
www.kent.edu/chemistry

About This Program

Kent State's Bachelor of Science in Chemistry program offers an exciting opportunity to pursue a dynamic career in the field. With a rigorous curriculum and hands-on experience, you will gain the skills and knowledge needed to excel in a wide range of industries, including pharmaceuticals, biotechnology, environmental science and more. Our program also provides a solid foundation for advanced studies in chemistry. Enroll now and start your journey toward a fulfilling career in chemistry. Read more...

Contact Information

- **Scott Bunge** | sbunge@kent.edu | 330-672-9445
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Chemical technicians

- 2.8% slower than the average
- 68,100 number of jobs
- $49,820 potential earnings

Chemistry teachers, postsecondary

- 4.3% about as fast as the average
- 26,400 number of jobs
- $80,400 potential earnings

Chemists

- 4.7% about as fast as the average
- 86,700 number of jobs
- $79,300 potential earnings

Food scientists and technologists

- 4.4% about as fast as the average
- 14,200 number of jobs
- $73,450 potential earnings

Forensic science technicians

- 14.1% much faster than the average
- 17,200 number of jobs
- $60,590 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

The B.S. degree in Chemistry is accredited by the American Chemical Society (ACS).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4-6
or CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
or CHEM 11060	GENERAL CHEMISTRY I BOOST (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
or CHEM 10971	HONORS GENERAL CHEMISTRY II (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30301	INORGANIC CHEMISTRY I	3
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
CHEM 30481	ORGANIC CHEMISTRY I	4
CHEM 30482	ORGANIC CHEMISTRY II	4
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		5
Concentrations		
Choose from the following:		65
Chemistry		
Industrial Chemistry		
Materials Chemistry		
Minimum Total Credit Hours:		**120**

Chemistry Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CHEM 30106	ANALYTICAL CHEMISTRY II	2
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) [1]	1
CHEM 30108	ANALYTICAL CHEMISTRY LABORATORY II (WIC) [1]	2
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 40302	INORGANIC CHEMISTRY II	3
CHEM 40364	INTERMEDIATE INORGANIC CHEMISTRY LAB	1
CHEM 40477	INTERMEDIATE ORGANIC CHEMISTRY LABORATORY	1
CHEM 40483	INTERMEDIATE ORGANIC CHEMISTRY	2
CHEM 40555	PHYSICAL CHEMISTRY I	3
CHEM 40556	PHYSICAL CHEMISTRY II	3
CHEM 40557	PHYSICAL CHEMISTRY LABORATORY	2
CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Advisor-Approved Chemistry (CHEM) Upper-Division Elective (40000 level)		3
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		6
General Electives		7
Minimum Total Credit Hours:		**65**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Industrial Chemistry Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CHEM 30051	CAREER PATHWAYS IN CHEMISTRY	1
CHEM 30106	ANALYTICAL CHEMISTRY II	2
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) [1]	1
CHEM 30108	ANALYTICAL CHEMISTRY LABORATORY II (WIC) [1]	2
CHEM 40302	INORGANIC CHEMISTRY II	3
CHEM 40364	INTERMEDIATE INORGANIC CHEMISTRY LAB	1
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES [2]	4
CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 12022	PROBABILITY AND STATISTICS FOR LIFE SCIENCES	3-4
or MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	
PHY 22564	INTRODUCTION TO MATERIALS PHYSICS	3
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Chemistry Elective, choose from the following:		3
CHEM 40352	INORGANIC MATERIALS CHEMISTRY	
CHEM 40451	ORGANIC MATERIALS CHEMISTRY	
CHEM 40559	NANOMATERIALS	
CHEM 40571	SURFACE CHEMISTRY	
Concentration Electives, choose from the following:		9
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	
BA 44152	PROJECT MANAGEMENT	
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	
CHEM 40092	INTERNSHIP IN CHEMISTRY AND BIOCHEMISTRY (ELR) [3]	
or CHEM 40796	INDIVIDUAL INVESTIGATION	
CHEM 40113	CHEMICAL SEPARATIONS	
CHEM 40352	INORGANIC MATERIALS CHEMISTRY	
CHEM 40451	ORGANIC MATERIALS CHEMISTRY	
CHEM 40557	PHYSICAL CHEMISTRY LABORATORY	
CHEM 40559	NANOMATERIALS	
CHEM 40571	SURFACE CHEMISTRY	
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	
PLST 48401	PATENT LAW	
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		3
General Electives		6
Minimum Total Credit Hours:		**65**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Taking both CHEM 40555 and CHEM 40556 may be substituted in place of CHEM 40567 and 2 credit hours of concentration electives.

[3] CHEM 40092 is strongly encouraged.

Materials Chemistry Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CHEM 30106	ANALYTICAL CHEMISTRY II	2
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 40302	INORGANIC CHEMISTRY II	3
CHEM 40352	INORGANIC MATERIALS CHEMISTRY	3
CHEM 40364	INTERMEDIATE INORGANIC CHEMISTRY LAB	1
CHEM 40451	ORGANIC MATERIALS CHEMISTRY	3
CHEM 40555	PHYSICAL CHEMISTRY I	3
CHEM 40556	PHYSICAL CHEMISTRY II	3
CHEM 40557	PHYSICAL CHEMISTRY LABORATORY	2
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Concentration Elective, choose from the following:		1-2
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) [1]	
CHEM 30108	ANALYTICAL CHEMISTRY LABORATORY II (WIC) [1]	
CHEM 40477	INTERMEDIATE ORGANIC CHEMISTRY LABORATORY	
CHEM 40483	INTERMEDIATE ORGANIC CHEMISTRY	
CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	
CHEM 40571	SURFACE CHEMISTRY	
CHEM 40796	INDIVIDUAL INVESTIGATION	
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		6
General Electives		10
Minimum Total Credit Hours:		**65**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

[1] All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

[2] The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Chemistry Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	CHEM 10060 or CHEM 10970 or CHEM 11060	GENERAL CHEMISTRY I (KBS) or HONORS GENERAL CHEMISTRY I (KBS) or GENERAL CHEMISTRY I BOOST (KBS)	4-6
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
!	CHEM 10061 or CHEM 10971	GENERAL CHEMISTRY II (KBS) or HONORS GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
!	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	CHEM 30481	ORGANIC CHEMISTRY I	3
!	MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
!	CHEM 30301	INORGANIC CHEMISTRY I	3
!	CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
!	CHEM 30482	ORGANIC CHEMISTRY II	3
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
!	CHEM 30105	ANALYTICAL CHEMISTRY I	3
!	CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
!	CHEM 40477	INTERMEDIATE ORGANIC CHEMISTRY LABORATORY	1
!	CHEM 40483	INTERMEDIATE ORGANIC CHEMISTRY	1
!	CHEM 40555	PHYSICAL CHEMISTRY I	3
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Six		
!	CHEM 30106	ANALYTICAL CHEMISTRY II	2
!	CHEM 30108	ANALYTICAL CHEMISTRY LABORATORY II (WIC)	2
!	CHEM 40556	PHYSICAL CHEMISTRY II	3
!	CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Seven		
!	CHEM 40302	INORGANIC CHEMISTRY II	2
!	CHEM 40557	PHYSICAL CHEMISTRY LABORATORY	2
	Chemistry (CHEM) Upper-Division Elective (40000 level)		3
	General Electives		6
		Credit Hours	**13**
	Semester Eight		
!	CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
!	CHEM 40303	INORGANIC CHEMISTRY III	2
!	CHEM 40364	INTERMEDIATE INORGANIC CHEMISTRY LAB	1
	General Electives		8
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

Industrial Chemistry Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	CHEM 10060 or CHEM 10970 or CHEM 11060	GENERAL CHEMISTRY I (KBS) or HONORS GENERAL CHEMISTRY I (KBS) or GENERAL CHEMISTRY I BOOST (KBS)	4-6
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1

	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
!	CHEM 10061 or CHEM 10971	GENERAL CHEMISTRY II (KBS) or HONORS GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
!	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	CHEM 30481	ORGANIC CHEMISTRY I	3
!	MATH 12022 or MATH 22005	PROBABILITY AND STATISTICS FOR LIFE SCIENCES or ANALYTIC GEOMETRY AND CALCULUS III	3
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	CHEM 30051	CAREER PATHWAYS IN CHEMISTRY	1
!	CHEM 30301	INORGANIC CHEMISTRY I	3
!	CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
!	CHEM 30482	ORGANIC CHEMISTRY II	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
		Credit Hours	**16**
	Semester Five		
!	CHEM 30105	ANALYTICAL CHEMISTRY I	3
!	CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
!	CHEM 40302	INORGANIC CHEMISTRY II	2
!	CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
	Foreign Language		4
		Credit Hours	**14**
	Semester Six		
!	CHEM 30106	ANALYTICAL CHEMISTRY II	2
!	CHEM 30108	ANALYTICAL CHEMISTRY LABORATORY II (WIC)	2
!	CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
!	PHY 22564	INTRODUCTION TO MATERIALS PHYSICS	3
	Concentration Elective		3
	Foreign Language		4
		Credit Hours	**15**
	Semester Seven		
	Chemistry Elective		3
	Concentration Electives		6
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Eight		
!	CHEM 40364	INTERMEDIATE INORGANIC CHEMISTRY LAB	1
	Concentration Elective		3
	General Electives		11
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

Materials Chemistry Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	CHEM 10060 or CHEM 10970 or CHEM 11060	GENERAL CHEMISTRY I (KBS) or HONORS GENERAL CHEMISTRY I (KBS) or GENERAL CHEMISTRY I BOOST (KBS)	4-6
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
!	CHEM 10061 or CHEM 10971	GENERAL CHEMISTRY II (KBS) or HONORS GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
!	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	CHEM 30481	ORGANIC CHEMISTRY I	3
!	MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
!	CHEM 30301	INORGANIC CHEMISTRY I	3
!	CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
!	CHEM 30482	ORGANIC CHEMISTRY II	3
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
!	CHEM 30105	ANALYTICAL CHEMISTRY I	3
!	CHEM 40302	INORGANIC CHEMISTRY II	2
!	CHEM 40451	ORGANIC MATERIALS CHEMISTRY	3
!	CHEM 40555	PHYSICAL CHEMISTRY I	3
	Foreign Language		4
		Credit Hours	**15**
	Semester Six		
!	CHEM 40303	INORGANIC CHEMISTRY III	2
!	CHEM 40352	INORGANIC MATERIALS CHEMISTRY	3

!	CHEM 40364	INTERMEDIATE INORGANIC CHEMISTRY LAB	1
!	CHEM 40556	PHYSICAL CHEMISTRY II	3
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Seven		
!	CHEM 40557	PHYSICAL CHEMISTRY LABORATORY	2
	Concentration Elective		1-2
	Kent Core Requirement		3
	General Electives		9
		Credit Hours	**15**
	Semester Eight		
!	CHEM 30106	ANALYTICAL CHEMISTRY II	2
!	CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	General Electives		7
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply chemical knowledge to their profession.
2. Develop their abilities to plan and execute chemical experiments.
3. Prepare and deliver written and oral scientific reports.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Chemistry is designed to provide a thorough foundation in the various fields of chemistry and the related sciences. The program is for students planning careers in the chemical industries or governmental laboratories, or who intend to do graduate work in chemistry. Students in the program have the opportunity to participate in an exchange program with the University of Leicester in England.

The Chemistry major comprises the following concentrations:

- The **Chemistry** concentration is designed for students interested in careers as practicing chemists in industrial research and development, in government research laboratories or in academia. It includes a strong foundation in both chemistry and related disciplines (physics and mathematics) and provides opportunities to pursue advanced chemistry electives. This concentration meets the requirements for certification by the American Chemical Society and is ideal for students who plan to pursue graduate studies in chemistry.
- The **Industrial Chemistry** concentration provides solid background training in the major areas of chemistry, as well as practical training and related experiences in fields sought by local and regional chemical industries.
- The **Materials Chemistry** concentration is recommended for students interested in pursuing graduate study or industrial careers in materials science, including nanotechnology. Its requirements, similar to those of the traditional chemistry concentration, provide an opportunity for more in-depth study in the synthesis and

characterization of inorganic and organic materials, including polymers.

Chemistry students in specific concentrations may apply early to the M.S. degree in Chemistry and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Chemistry - M.A.

College of Arts and Sciences
Department of Chemistry and Biochemistry
www.kent.edu/chemistry

About This Program

The Master of Arts in Chemistry program offers an advanced education for students looking to take their careers in chemistry to the next level. With a focus on research, you will gain the skills needed to design and execute experiments, analyze data and make groundbreaking discoveries in the field. Our program also offers opportunities for interdisciplinary studies in areas such as materials science, nanotechnology and environmental science. Read more...

Contact Information

- **Erin Michael-McLaughlin** | enmichae@kent.edu | 330-672-2032
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Chemical technicians

- 2.8% slower than the average
- 68,100 number of jobs
- $49,820 potential earnings

Chemistry teachers, postsecondary

- 4.3% about as fast as the average
- 26,400 number of jobs
- $80,400 potential earnings

Chemists

- 4.7% about as fast as the average
- 86,700 number of jobs
- $79,300 potential earnings

Food scientists and technologists

- 4.4% about as fast as the average
- 14,200 number of jobs
- $73,450 potential earnings

Forensic science technicians

- 14.1% much faster than the average
- 17,200 number of jobs
- $60,590 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Project management specialists and business operations specialists, all other

- 5.9% faster than the average
- 1,361,800 number of jobs
- $77,420 potential earnings

Additional Careers

- Quality control
- Quality assurance

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Completion of undergraduate courses consisting of one year each in analytical chemistry or biochemistry, organic chemistry, physical chemistry, calculus and physics is expected
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: December 15
- **Spring Semester**
  - Priority deadline: September 15

Applications submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CHEM 60099	MASTERS CAPSTONE PROJECT	6
Approved 50000 level Chemistry (CHEM) Courses [1]		10-15
Approved 60000 level Courses [2]		9-14
Minimum Total Credit Hours:		**30**

[1] Minimum 21 credit hours of classroom courses are required. Students select courses with their advisor. Suggested coursework for the biochemistry interest area includes CHEM 50109, CHEM 50261, CHEM 50262, CHEM 50263, and CHEM 50365. Suggested coursework for the chemical education interest area includes CHEM 50093 and CHEM 50795. Suggested coursework for the industrial chemistry interest area includes CHEM 50093, CHEM 50352, CHEM 50451,CHEM 50571 and CHEM 50559.

[2] At least half of the required credit hours must be taken at the 60000 level. Suggested course work for the chemical education interest area includes CHEM 60894.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a core knowledge and understanding of chemical and/or biochemical concepts.
2. Demonstrate a depth of knowledge of specific topics in chemistry and/or biochemistry and/or chemical education.
3. Demonstrate critical thinking and problem solving skills in chemistry and/or biochemistry.
4. Effectively and clearly communicate chemical and/or biochemical concepts and knowledge.

Full Description

The Master of Arts degree in Chemistry is for students interested in gaining additional knowledge of chemistry and biochemistry beyond the bachelor's degree. This non-thesis degree program is flexible and can be taken on a full-tine or part-time basis. Several course sequences have been designed for students interested in career advancement. The biochemistry interest area is recommended for students seeking to further develop their academic background in biochemistry and chemistry prior to applying to medical school or dental school. The industrial chemistry interest area is ideal for students seeking additional preparation for employment in the chemical industry. Current and future K-12 educators may pursue the chemical education interest area for advance chemical instruction including chemistry pedagogy.

Chemistry - M.S.

College of Arts and Sciences
Department of Chemistry and Biochemistry
www.kent.edu/chemistry

About This Program

The Master of Science degree in Chemistry provides opportunity in research in the areas of analytical, inorganic, organic and physical chemistry, as well as biochemistry. Many of the research topics are built around interdisciplinary themes in biomedical research (bioanalytical, bioinorganic and biophysical chemistry) and materials science (nanomaterials, liquid crystals, photonic materials, spectroscopy, surface science).

Contact Information

- **Erin Michael-McLaughlin** | enmichae@kent.edu | 330-672-2032
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Chemical technicians

- 2.8% slower than the average
- 68,100 number of jobs
- $49,820 potential earnings

Chemistry teachers, postsecondary

- 4.3% about as fast as the average
- 26,400 number of jobs
- $80,400 potential earnings

Chemistry teachers, postsecondary

- 4.3% about as fast as the average
- 26,400 number of jobs
- $80,400 potential earnings

Food scientists and technologists

- 4.4% about as fast as the average
- 14,200 number of jobs
- $73,450 potential earnings

Forensic science technicians

- 14.1% much faster than the average
- 17,200 number of jobs
- $60,590 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Project management specialists and business operations specialists, all other

- 5.9% faster than the average
- 1,361,800 number of jobs
- $77,420 potential earnings

Additional Careers

- Quality control
- Quality assurance
- Technology transfer
- Product development
- Formulation
- Research manager

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: December 15
- **Spring Semester**
  - Priority deadline: September 15

Applications submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CHEM 60894	COLLEGE TEACHING OF CHEMISTRY	1
Chemistry Electives [1]		19
Chemistry Seminar Electives, choose from the following:		2
CHEM 62191	SEMINAR: ANALYTICAL CHEMISTRY	
CHEM 62291	SEMINAR: BIOCHEMISTRY	
CHEM 62391	SEMINAR: INORGANIC CHEMISTRY	
CHEM 62491	SEMINAR: ORGANIC CHEMISTRY	
CHEM 62591	SEMINAR: PHYSICAL CHEMISTRY	
Chemistry Seminars in Development/Problem Solving Electives, choose from the following:		2
CHEM 60291	SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY	
CHEM 60391	SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY	
CHEM 60591	SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY	
CHEM 61191	SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY	
CHEM 61491	SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY	
Culminating Requirement		
CHEM 60199	THESIS I [2]	6
Minimum Total Credit Hours:		**30**

[1] Minimum 13 credit hours of graduate chemistry classroom courses are required; one of these courses must be outside the major area. At least half of the required credit hours must be taken at the 60000 level. The following courses may not be used to satisfy the requirements of the M.S. degree: CHEM 50166, CHEM 50266, CHEM 50366, CHEM 50466 and CHEM 50566.

[2] A thesis presenting and interpreting the results of original research is required. The Department of Chemistry and Biochemistry considers research to be a fundamental part of the M.S. degree. Areas in which research may be carried out are analytical chemistry, biochemistry, inorganic chemistry, organic chemistry and physical chemistry. The thesis must be successfully defended in an oral examination before the student's advisory committee.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Minimum 18 credit hours must be for graduate credit other than research and thesis.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an improved knowledge of a specialization within chemistry.
2. Plan and execute chemical experiments.

Chemistry - Minor

College of Arts and Sciences
Department of Chemistry and Biochemistry
www.kent.edu/chemistry

About This Program

The Chemistry minor provides a solid background in chemistry and biochemistry, which can be individually tailored to complement major studies in other sciences, education and business.

Contact Information

- **Alex Seed** | aseed@kent.edu | 330-672-9528
- **Hao Shen** | hshen7@kent.edu | 330-672-2523
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4-6
or CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
or CHEM 11060	GENERAL CHEMISTRY I BOOST (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
or CHEM 10971	HONORS GENERAL CHEMISTRY II (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4-8
or CHEM 30481 & CHEM 30482	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II	
CHEM 30301	INORGANIC CHEMISTRY I	3
Minor Electives, choose from the following:		7-9
CHEM 20482	BASIC ORGANIC CHEMISTRY II	
CHEM 30105	ANALYTICAL CHEMISTRY I	
CHEM 30106	ANALYTICAL CHEMISTRY II	
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	
CHEM 30108	ANALYTICAL CHEMISTRY LABORATORY II (WIC)	
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	
or CHEM 40245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	
or CHEM 40261	BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	
CHEM 40109	BIOANALYTICAL CHEMISTRY	
CHEM 40248	ADVANCED BIOLOGICAL CHEMISTRY	
or CHEM 40262	BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION	
CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC)	
CHEM 40263	PHYSICAL BIOCHEMISTRY	
CHEM 40302	INORGANIC CHEMISTRY II	
CHEM 40352	INORGANIC MATERIALS CHEMISTRY	
CHEM 40365	BIOLOGICAL INORGANIC CHEMISTRY	
CHEM 40451	ORGANIC MATERIALS CHEMISTRY	
CHEM 40476	SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS	
CHEM 40483	INTERMEDIATE ORGANIC CHEMISTRY	
CHEM 40555	PHYSICAL CHEMISTRY I [1]	
CHEM 40556	PHYSICAL CHEMISTRY II [1]	
CHEM 40559	NANOMATERIALS	
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES [1]	
CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	
CHEM 40571	SURFACE CHEMISTRY	
Minimum Total Credit Hours:		**24**

[1] Students who complete CHEM 40555 or CHEM 40556 may not take CHEM 40567.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.

- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Comprehend the chemistry that underlies several fields, such as materials, industrial and biological chemistry.
2. Demonstrate skills in basic scientific report writing.

Chemistry - Ph.D.

College of Arts and Sciences
Department of Chemistry and Biochemistry
www.kent.edu/chemistry

About This Program

The Ph.D. degree in Chemistry provides students with opportunities for research in the areas of analytical, inorganic, organic and physical chemistry, as well as biochemistry. Many of the research topics are built around interdisciplinary themes in biomedical research (bioanalytical, bioinorganic and biophysical chemistry) and materials science (nanomaterials, liquid crystals, photonic materials, spectroscopy, surface science).

Contact Information

- **Erin Michael-McLaughlin** | enmichae@kent.edu | 330-672-2032
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Chemical technicians

- 2.8% slower than the average
- 68,100 number of jobs
- $49,820 potential earnings

Chemistry teachers, postsecondary

- 4.3% about as fast as the average
- 26,400 number of jobs
- $80,400 potential earnings

Chemists

- 4.7% about as fast as the average
- 86,700 number of jobs
- $79,300 potential earnings

Food scientists and technologists

- 4.4% about as fast as the average
- 14,200 number of jobs
- $73,450 potential earnings

Forensic science technicians

- 14.1% much faster than the average
- 17,200 number of jobs
- $60,590 potential earnings

Additional Careers

- Patent law
- Product development
- Formulation

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university[1]
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] Completion of undergraduate courses consisting of one year each in analytical chemistry or biochemistry, organic chemistry, physical chemistry, calculus and physics is expected.
[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: December 15
- **Spring Semester**
  - Priority deadline: September 15

Applications submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CHEM 70894	COLLEGE TEACHING OF CHEMISTRY	1
CHEM 80898	RESEARCH	6-36
Approved Chemistry Lecture Electives		6
Chemistry Core Electives, choose from the following:		9
Analytical Chemistry		
CHEM 70109	BIOANALYTICAL CHEMISTRY	
CHEM 70113	CHEMICAL SEPARATIONS	
CHEM 70115	APPLICATIONS OF SPECTROSCOPY AND IMAGING	
Biochemistry		
CHEM 70261	BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION	
CHEM 70262	BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION	
CHEM 70263	PHYSICAL BIOCHEMISTRY	
Inorganic Chemistry		
CHEM 70327	MODERN INORGANIC CHEMISTRY	
CHEM 70352	INORGANIC MATERIALS CHEMISTRY	
CHEM 70365	BIOLOGICAL INORGANIC CHEMISTRY	
Organic Chemistry		
CHEM 70473	STEREOSELECTIVE ORGANIC SYNTHESIS	
CHEM 70476	SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS	
CHEM 70483	INTERMEDIATE ORGANIC CHEMISTRY	
CHEM 70485	PHYSICAL ORGANIC CHEMISTRY	
Physical Chemistry		
CHEM 70541	ADVANCED PHYSICAL CHEMISTRY	
CHEM 70563	QUANTUM CHEMISTRY	
CHEM 70564	COMPUTATIONAL CHEMISTRY	
Chemistry Seminar Electives, choose from the following:		4
CHEM 72191	SEMINAR: ANALYTICAL CHEMISTRY	
CHEM 72291	SEMINAR: BIOCHEMISTRY	
CHEM 72391	SEMINAR: INORGANIC CHEMISTRY	
CHEM 72491	SEMINAR: ORGANIC CHEMISTRY	
CHEM 72591	SEMINAR: PHYSICAL CHEMISTRY	
Chemistry Seminar in Development/Problem Solving Electives, choose from the following:		4
CHEM 70291	SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY	
CHEM 70391	SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY	
CHEM 70591	SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY	
CHEM 71191	SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY	
CHEM 71491	SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY	
Culminating Requirement		
CHEM 80199	DISSERTATION I [1]	30
Minimum Total Credit Hours for Post-Baccalaureate Students		**90**
Minimum Total Credit Hours for Post-Master's Students		**60**

[1] Each doctoral candidate, upon admission to candidacy, must register for CHEM 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter CHEM 80299, each semester, until all requirements for the degree have been met.

Candidacy for Degree

To be admitted to candidacy for the doctoral degree, the student must pass a written examination in the field of specialization. The form and time of the examinations are determined by the departmental Graduate Student Handbook. Those failing this examination may repeat the examination once. After passing the written examination, the student must present a detailed written proposal for their dissertation research. The successful oral defense of this proposal and its acceptance by the advisory committee admits the student to candidacy for the Ph.D. degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an improved knowledge of a specialization within chemistry.
2. Plan and execute chemical experiments.

Department of Computer Science

College of Arts and Sciences
Department of Computer Science
241 Mathematics and Computer Science Building
Kent Campus
330-672-9980
depsec@cs.kent.edu
www.kent.edu/cs

Undergraduate Programs

- Computer Science - B.A.
- Computer Science - B.S.

Minors

- Bioinformatics
- Computer Science
- Computers and Geosciences
- Cybersecurity Foundations
- Game Programming
- Web Programming

Graduate Programs

- Artificial Intelligence - M.S.
- Computer Science - M.A.
- Computer Science - M.S.

- Computer Science - Ph.D.
- Data Science - M.S.

Department of Computer Science Faculty

- Allouzi, Maha A. (2013), Associate Professor, Ph.D., Kent State University, 2022
- Bansal, Arvind K. (1988), Professor, Ph.D., Case Western Reserve University, 1985
- Bektic, Meldin (2024), Lecturer, B.S., Kent State University, 2021
- Bhati, Deepshikha (2017), Lecturer, Uttar Pradesh Tech University, 2016
- Chae, Younghun (2016), Associate Professor, Ph.D., University of Rhode Island, 2017
- DeLozier, Gregory S. (2014), Associate Professor
- Dragan, Feodor F. (2000), Professor, Ph.D., Belarus State University
- Guan, Qiang (2018), Associate Professor, M.S., University of North Texas, 2008
- Guercio, Angela (1999), Associate Professor, Ph.D., Kent State University, 2004
- Hasan, Md Raiful (2023), Assistant Professor
- Jin, Ruoming (2005), Professor, Ph.D., The Ohio State University, 2001
- Khan, Javed I. (1997), Professor , Ph.D., University of Hawaii-Manoa, 1995
- Kim, JungYoon (2019), Associate Professor, Ph.D., Penn State University, 2014
- Kim, Kwangtaek (2019), Associate Professor, Ph.D., Purdue University, 2010
- Kim, Jong-Hoon (2017), Associate Professor
- Lian, Xiang (2016), Associate Professor, Ph.D., Hong Kong University Of Science and Technology, 2009
- Maletic, Jonathan I. (2001), Professor, Ph.D., Wayne State University, 1995
- Nesterenko, Mikhail (1998), Professor, Ph.D., Kansas State University, 1998
- Peyravi, Hassan M. (1985), Professor, Ph.D., University of Oklahoma, 1995
- Samba, Augustine S. (2001), Professor, Ph.D., University of Liverpool, 1983
- Sharma, Gokarna (2015), Associate Professor, Ph.D., Louisiana State University, 2014
- Villalobos Herrera, Giovanni (2024), Lecturer, Tech Institute of Costa Rica, 2019
- Xu, Lei (2022), Assistant Professor, Chinese Academy Of Science, 2011
- Zhao, Ye (2006), Professor, Ph.D., State University of New York, Stony Brook, 2006

Computer Science (CS)

CS 10001 COMPUTER LITERACY 3 Credit Hours
Introduction to history, language, procedures, applications, abuses and impact of computers. Hands-on experience with microcomputers. Not open to students with previous experience.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

CS 10051 COMPUTER SCIENCE PRINCIPLES (KMCR) 4 Credit Hours
An introductory, broad and hands-on coverage of aspects of computer science, including algorithms, problem solving, operating systems concepts, computer architecture, programming languages and modern applications.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

CS 10062 PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES 4 Credit Hours
Solving problems in a science frequently requires a knowledge of programming. This course provides an introduction to using programs to solve problems. It is designed for majors and non-majors who have had little or no prior programming experience. The course emphasizes a hands-on, team-based approach to learning programming and problem solving.
Prerequisite: Minimum 55 ALEKS math score or minimum C grade in either MATH 11009 (or MATH 10772) or MATH 11010 (or MATH 10775 or MATH 10675).
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 13001 COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING 4 Credit Hours
Computer science concepts, including algorithm development and problem-solving strategies focused on procedural abstraction. High-level programming concepts, including data types, expressions, program structures, functions, parameter passing, scope, extent, arrays, introduction to recursion and an introduction to object oriented-concepts.
Prerequisite: MATH 11022 or MATH 12002 or MATH 12011; or minimum C grade in one of the following courses: MATH 10675 or MATH 10775 or MATH 11010; or minimum 67 ALEKS math score.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 13011 COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING 2 Credit Hours
Computer science concepts, including algorithm development and problem-solving strategies focused on programming abstractions. High-level programming concepts, including variables, branching, iteration and functions.
Prerequisite: MATH 11022 or MATH 12002 or MATH 12011; or minimum C grade in one of the following courses: MATH 10675 or MATH 10775 or MATH 11010; or minimum 67 ALEKS math score.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

CS 13012 COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING 2 Credit Hours
Computer science concepts, including algorithm development and problem-solving strategies focused on programming abstractions. High-level programming concepts, including introduction to recursion and object-oriented concepts.
Prerequisite: CS 13011 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

CS 19995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Special topics from all areas of computer science.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 20062 ADVANCED PROGRAMMING WITH PYTHON 4 Credit Hours
This course introduces students to advanced computer programming design and development with the main focus on data structures and abstraction using Python. Students learn basic object-oriented and GUI programming and graph algorithm applications.
Prerequisite: CS 10062 or CS 13001 or CS 13012.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 23001 COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION 4 Credit Hours
Advanced computer programming design, and development with a primary focus on data structures and abstraction using an object oriented programming language.
Prerequisite: Minimum C grade in CS 13001 or CS 13012.
Corequisite: CS 23022.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE 3 Credit Hours
(Cross-listed with MATH 23022) Discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling. Specific topics include propositional and predicate logic and logical modeling using Boolean algebra and logical gates, information representation using binary system, sets, functions, relations, logical argumentation and proof techniques, recursion and recursive modeling, sequences and summation, arithmetic and geometric progressions, algorithms, iterative vs recursive algorithms, mathematical and structural induction, recursive structures, counting, permutation and combination, binomial expansion, matrices and matrix-operations, graphs and trees and their traversal, probability and Bayes' theorem, finite state machines, their modeling and applications, Regular grammar, basics of number theory, modeling computation and Turing machines, decidability and halting problem.
Prerequisite: Minimum C grade in MATH 11009 or MATH 11010 or MATH 11022, or ALEKS score of 78.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 23301 ROBOTICS AND EMBEDDED SYSTEMS LABORATORY I 1 Credit Hour
This course provides a team based, hands-on introduction to linking and programming robotic and embedded systems. Students in this course work with junior and senior level students on projects building devices that require linking and programming robotic and embedded systems.
Prerequisite: Minimum C grade in CS 13001 or CS 13012.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

CS 23302 ROBOTICS AND EMBEDDED SYSTEMS LABORATORY II 2 Credit Hours
This course is the second computer science course on linking and programming robotic and embedded systems in a team based, hands-on environment. Students in this course work with junior and senior level students on projects building devices that require linking and programming robotic and embedded systems.
Prerequisite: CS 23001 and CS 23301 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

CS 29995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Special topics from all areas of computer science.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 30062 PYTHON FOR DATA SCIENCE 3 Credit Hours
This course will introduce basic topics in the field of data science, including data collection, storage, manipulation, and visualization, as well as the area of machine learning. Specifically, students will learn how to use Python to import, clean, analyze, visualize, and learn data for real-world applications.
Prerequisite: CS 20062 or CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 32301 HUMAN INTERFACE COMPUTING 3 Credit Hours
Foundations of human computer interaction including interaction design. Foundations of graphics and visualization. Basic concepts in security and secure design including cryptography. Introduction to intelligent systems including basic knowledge representation and basic machine learning.
Prerequisite: Minimum C grade in CS 20062 or CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33007 INTRODUCTION TO DATABASE SYSTEM DESIGN 3 Credit Hours
An introduction to the basic theoretical aspects of database systems, file organization, search methodologies, language design and performance evaluation techniques, initial modeling concepts and their use in hierarchical, network, relational and object-oriented database designs.
Prerequisite: Minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33011 SPEED PROGRAMMING TECHNIQUES 3 Credit Hours
Discussion and practice of pertinent aspects related to programming under time constraints.
Prerequisite: CS 23001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

CS 33092 SPEED PROGRAMMING PRACTICUM (ELR) 2 Credit Hours
(Repeatable for credit) Practice of pertinent aspects from CS 33011.
Prerequisite: CS 33011.
Schedule Type: Practical Experience
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CS 33101 STRUCTURE OF PROGRAMMING LANGUAGES 3 Credit Hours
Introduction to grammar, discrete and data structure concepts, syntax, semantics, abstraction, Advanced Programming Constructs, implementation model for imperative languages, dynamic memory management, type theory, concurrent programming, functional programming, logic programming, object oriented programming, event driven programming.
Prerequisite: Minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33192 INTERNSHIP IN COMPUTER SCIENCE (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised work experience in computer science. Since this work will be outside the department a report and final presentation will be required; a site visit might also be necessary.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CS 33211 OPERATING SYSTEMS 3 Credit Hours
Introduction to operating systems, processes and threads, CPU scheduling, mutual exclusion and synchronization, deadlock, memory management, file systems, security, networking and distributed systems and current topics. systems.
Prerequisite: Minimum C grade in CS 23001.
Pre/corequisite: CS 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33223 UNIX TOOLS 3 Credit Hours
Course will cover UNIX operating system environment topics that will make the user more productive. Topics will include the user environment, shells, files, the file system, editors, scripting languages, document processing, processes, remote access and documentation.
Prerequisite: CS 13001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33301 EMBEDDED SYSTEM PROGRAMMING 3 Credit Hours
An embedded system is a combination of computer hardware and software specifically designed for a particular function. Embedded systems have been playing important roles in various application areas such as industrial machines, automobiles, medical equipment, cameras, household appliances, airplanes, vending machines, toys and other uses. Students will learn fundamental concepts of designing and programming embedded computer systems, including requirements specifications, architectural and detailed design, and implementation, focusing on real-time aspects of programming languages, operating system kernels, and hardware architectures.
Prerequisite: Minimum C grade in CS 23001.
Corequisite: CS 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33302 INTRODUCTION TO INTELLIGENT ROBOTICS 3 Credit Hours
This course introduces students to the basic knowledge of programming of robotic systems, including algorithmic modeling and design, geometric motion planning and robot operating systems, all for making intelligent robots. Computer science is an integral part of robotics as it includes areas such as computer algorithms, computational geometry, artificial intelligence, machine learning and image processing. The material covered in this course consists of a brief description of the intrinsic geometry, kinematics, statics, mechanics and controls of robotic systems and goes deeper into developing algorithms and useful software libraries. In addition, this course introduces practical examples and performance results using them with hands-on experience in a lab setting.
Prerequisite: CS 20062 or CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 33901 SOFTWARE ENGINEERING 3 Credit Hours
An introduction to software engineering concepts: life cycle models; modeling languages; requirements analysis; specification; design; testing; validation; project management and maintenance.
Prerequisite: Minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 35101 COMPUTER ORGANIZATION 3 Credit Hours
Computer system organization, including performance measures, instruction sets, computer arithmetic, central processing unit, pipelining, memory hierarchy and parallel processors.
Prerequisite: Minimum C grade in the following courses: CS 10062 or CS 13001; or CS 13011 and CS 13012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 35201 COMPUTER COMMUNICATION NETWORKS 3 Credit Hours
An introduction to net-centric systems, data communication protocols, network architectures, routing protocols, network management, congestion control, network security, compression techniques, mobile and wireless networks and WWW as an example of a client-server system.
Prerequisite: CS 20062 or CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 38101 INTRODUCTION TO GAME PROGRAMMING 3 Credit Hours
Game engine scripting, event driven and data driven programming, game engine data structures, basic game related graphics and AI concepts, a short game development project.
Prerequisite: Minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 39995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Special topics from all areas of computer science.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 40510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with MCLS 40510)(Slashed with CS 50510, CS 70510, MCLS 50510 and MCLS 70510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 41038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with MATH 41038 and PHIL 41038)(Slashed with MATH 51038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics.
Prerequisite: Computer Science major or minor; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 42201 NUMERICAL LINEAR ALGEBRA 3 Credit Hours
(Cross-listed with MATH 42201)(Slashed with CS 52201 and MATH 52201) Fundamentals of numerical linear algebra; solving linear systems; QR factorization and least squares; iterative methods for eigenvalue problems.
Prerequisite: Minimum C grade in the following courses CS 13001 or (CS 13011 and CS 13012); and MATH 12003 or MATH 12013; and MATH 21001 or MATH 21002 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 42202 NUMERICAL APPROXIMATION AND OPTIMIZATION 3 Credit Hours
(Cross-listed with MATH 42202)(Slashed with CS 52202 and MATH 52202) This course introduces numerical methods for solving nonlinear equations, optimizing functions, performing interpolation, computing differentiation and integration and solving differential equations.
Prerequisite: Minimum C grade in the following courses: (MATH 22005 and MATH 32044) or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43016 BIG DATA ANALYTICS 3 Credit Hours
This course will introduce the state-of-art computing platforms with the focus on how to utilize them in processing (managing and analyzing) massive datasets. The course will utilize several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank, and massive graph analytics as the case study for large scale data processing.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43105 DATA MINING TECHNIQUES 3 Credit Hours
Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining, covering a set of interesting topics, including association rule mining, clustering, classification, web mining, etc. It covers the basics of some important theoretical foundations for data mining, including linear regression, Bayesian inferences, information theory, and markov chain random walk.
Prerequisite: CS 33007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43118 GRAPH AND SOCIAL NETWORK ANALYSIS 3 Credit Hours
(Slashed with CS 53118 and CS 73118) Catalog Description: This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph database.
Prerequisite: CS 33007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43202 SYSTEMS ADMINISTRATION 3 Credit Hours
(Slashed with CS 53202) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX, together with the analysis of problems which can arise in these activities.
Prerequisite: CS 33211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43203 SYSTEMS PROGRAMMING 3 Credit Hours
(Slashed with CS 53203) This course provides an in-depth exploration of the Unix/Linux operating system's structure while teaching students how to write system and network programs. It is ideal for those interested in developing system software for Unix/Linux or gaining a deeper understanding of a multi-tasking, multi-user operating system. The course covers key topics, including the file system, terminal and device input/output, multi-tasking, inter-process communication, video display management and network programming. Theoretical concepts are integrated with practical examples of how Unix implements them. By the end of the course, students have the skills to understand how most Unix commands function and are capable of drafting their own versions of many common commands.
Prerequisite: CS 33211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43301 SOFTWARE DEVELOPMENT FOR ROBOTICS 3 Credit Hours
(Slashed with CS 53301) Robots are being used in multiple places that are not easily accessible for humans to support the lack of available labor and gain extra precision, and for cost-effective manufacturing processes, monitoring, space exploration, precision surgery and artificial limb support for elderly and physically challenged persons. Computer science is an integral part of robotics as it includes areas such as computer algorithms, artificial intelligence and image processing, which are essential aspects of robotics. This first course on robotics teaches students various motions of rigid robots; mathematics and algorithms related to these motions; motion planning; obstacle avoidance; and intelligent path planning, including the use of various sensors. In addition, students learn Robot Operating System (ROS) and ROS programming which provide a structured, modular and well-supported environment that facilitates understanding and experimentation in the field of robotics.
Prerequisite: Minimum C grade in the following courses: CS 23001; and CS 33301 or CS 33302.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43302 ALGORITHMIC ROBOTICS 3 Credit Hours
(Slashed with CS 53302 and CS 73302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.
Prerequisite: CS 33301 and CS 43301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43303 INTERNET OF THINGS 3 Credit Hours
(Slashed with CS 53303 and CS 73303) This course will provide a comprehensive an understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.
Prerequisite: CS 33301 or CS 45231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43305 ADVANCED DIGITAL DESIGN 3 Credit Hours
(Slashed with CS 53305) This course describes techniques in the design of digital systems. Topics covered include combinational and sequential logic, gate-level minimization, registers and counters, memory and programmable logic, hardware description languages, digital communication including serial and parallel and synchronous and asynchronous methods.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43334 HUMAN-ROBOT INTERACTION 3 Credit Hours
(Slashed with CS 53334 and CS 73334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.
Prerequisite: CS 33301 and CS 43301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 43401 SECURE PROGRAMMING 3 Credit Hours
Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and cryptography, random number generators.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44001 COMPUTER SCIENCE III - PROGRAMMING PATTERNS 4 Credit Hours
(Slashed with CS 54001) Extends students' knowledge of object-oriented programming, and improves their C++ programming skills. Specifically, the course covers procedural and object-based programming, inheritance, polymorphism, popular design patterns and generic programming.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 44003 MOBILE APPS IN IOS PROGRAMMING 3 Credit Hours
(Slashed with CS 54003) Students are introduced to mobile applications programming in the iOS environment using model, view, controller paradigms. Other topics include swift, programming using on board devices like GPS, cameras, motion detectors, and screen touches.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44004 DRONE PROGRAMMING 3 Credit Hours
(Slashed with CS 54004) This course describes the design, programming and control of autonomous drones. Topics covered include drone software and hardware architecture, use case models, interoperability, trajectory programming, flight control programming and sensors. Students apply this knowledge in the context of programming assignments with a drone simulator. Subsequently, students develop custom programs designed to control and fly autonomous drones.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44105 WEB PROGRAMMING I 3 Credit Hours
(Slashed with CS 54105) This course is the first of a two-course sequence on Web Programming covering from basic to advanced topics on Web Programming based on open standards and best practices. Topics covered include the HyperText Markup Language (HTML), specifying look and feel using Cascading Style Sheets (CSS), client side programming in Javascript, server side programming in PHP, and the Hypertext Transfer Protocol (HTTP).
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44106 WEB PROGRAMMING II 3 Credit Hours
(Slashed with CS 54106) This course is the second of a two-course sequence on Web Programming covering advanced topics on Web Programming based on open standards and best practices. This is a project course exploring advanced aspects of Web programming. Topics covered include advanced server side programming in PHP; database driven websites; structured query language (SQL) and MySQL; E-commerce; web hosting using Apache, PHP and MySQL; basic and digest authentication; web security, encryption and digital certificates; Extensible Markup Language (XML) for the web, AJAX and web services; scalable vector graphics (SVG); mobile websites.
Prerequisite: CS 44105.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44201 ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CS 54201) Computational intelligence concepts and methods such as modeling real-world problems as state-space search problems; heuristics, local and meta-heuristics search; game playing and adversarial search; constraint-based problem solving and optimization; automated machine learning theory and techniques; Knowledge based systems including logical inference techniques, fuzzy logic and case-based reasoning; probabilistic and uncertainty-based reasoning; ontology and semantic networks, and planning
Prerequisite: CS 23001 and CS 23022.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44202 MACHINE LEARNING AND DEEP LEARNING 3 Credit Hours
(Slashed with CS 54202) This course provides an overview of some fundamental concepts, techniques and algorithms in machine learning and deep learning, and will give students a basic understanding (ideas and intuitions) of how modern machine learning works. Specifically, there are three main objectives: 1. To help student get familiar with the fundamental mathematical tools (linear algebra, probability theory, statistical inference, numerical optimization, and learning theory) which lays the foundation of machine learning algorithms and techniques; 2. To introduce the core machine learning concepts and topics, such as linear regression, classification, SVM, and neural networks (and its deep variants); in addition, we will utilize the recommendation system for students to learn how real world machine system works; 3. Teach students how to program and use the latest machine learning packages, such as Tensorflow.
Prerequisite: CS 23001 and MATH 21002 and MATH 20011 and MATH 12013.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 44901 SOFTWARE DEVELOPMENT PROJECT (ELR) (WIC) 4 Credit Hours
With the supervision of the instructor, students work in teams to design and implement a realistic software project similar to projects they would encounter in the workplace.
Prerequisite: CS 33901; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CS 44902 SOFTWARE REQUIREMENTS ENGINEERING 3 Credit Hours
(Slashed with CS 54902) Students will learn a systematic approach to requirements elicitation, envisioning, requirements engineering, while leveraging design-based ideation and validation. Topics include software and systems requirements engineering, interface design and modeling, systems architecture, performance engineering, ethics, systems verification and testing.
Prerequisite: CS 33901.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 45102 CENTRAL PROCESSING UNIT (CPU) ARCHITECTURES 3 Credit Hours
(Slashed with CS 55102) This course explores CPU architectures and concepts, focusing mostly on general purpose CPUs. It begins by examining the x86 architecture, the origins of reduced instruction set computers, and how those diverse concepts were reconciled. It looks at superscalar execution, out-of-order execution, branch prediction, and speculative execution, and their use in the Intel Pentium Pro and Pentium II. Finally, it concludes by exploring some contemporary CPU architectures such as embedded processors, graphics processors, and the open-source RISC-V architecture.
Prerequisite: CS 35101; and CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 45203 COMPUTER NETWORK SECURITY 3 Credit Hours
(Slashed with CS 55203) Overview of network security including attacks and vulnerabilities and defense measures, secure network design, network and transport layers security, intrusion detection techniques, defense against denial of service attacks, network hardware, software, and applications attacks and their defense, security policies, legal and ethical issues in cyber and computer crimes.
Prerequisite: CS 35201 and; MATH 20011 or MATH 30011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 45231 INTERNET ENGINEERING 3 Credit Hours
Design fundamentals and working principles of internet systems at the IP layer and above. DNS, inter-domain routing, internet client server programming, application level protocols (HTTP, XML,etc.) web server architecture, browser internet security and multimedia serving.
Prerequisite: CS 23001, 33211 and 35201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 46101 DESIGN AND ANALYSIS OF ALGORITHMS 3 Credit Hours
(Slashed with CS 56101) Introduction to algorithmic concepts, design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.
Prerequisite: MATH 12003 or MATH 12013; and minimum C grade in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47101 COMPUTER GRAPHICS 3 Credit Hours
Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man-machine communications.
Prerequisite: CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47102 COMPUTER HAPTICS 3 Credit Hours
(Slashed with CS 57102 and CS 77102) This course introduces students to computer haptics which is the study of touch with a focus on computing, developing algorithms and designing new user interfaces, innovatively enhancing existing human-computer systems. This course is organized into modules that include fundamental concept and theory lectures and practical programming assignments, including a term project with real haptic (touch feedback) devices combined with virtual reality display devices.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47205 INFORMATION SECURITY 3 Credit Hours
(Slashed with CS 57205) An introduction to concepts and methodology useful for information security, as specified by the NSTISSI NO. 4011 standard from the NSA.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47206 DATA SECURITY AND PRIVACY 3 Credit Hours
(Slashed with CS 57206) The goal of the course is to familiarize the students with basic concepts of security and privacy, their definitions, applications and current advances in research community and industry. This course addresses the security and privacy issues in legacy systems and also studies security and privacy policies and legislations. This course also reviews current research projects in the area of security and privacy.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47207 DIGITAL FORENSICS 3 Credit Hours
(Slashed with CS 57207) This course addresses the need for digital forensics, best practices for general incidence response, legal aspects of forensics, tools and techniques to perform a full computer forensic investigation.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 47221 INTRODUCTION TO CRYPTOLOGY 3 Credit Hours
This is a course on the modern science of Cryptology; that is, the process of hiding information by converting it, through a reversible process, into something unrecognizable. Of course, only the recipient should be able to reverse the “hiding” or encrypting process. As far as usage in life is concerned, this course will help you to set up cryptosystems in many different environments. This skill is highly employable; from the NSA, to banks, to anybody who needs to encrypt information is looking for people with knowledge in Cryptology.
Prerequisite: Minimum C grade in CS 20062 or in CS 23001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 48101 GAME ENGINE CONCEPTS 3 Credit Hours
Introduction to 3D game engine design, game memory management, multithreading in games, sprites and bitmap animation level design, path finding, audio-visual effects, AI and physical modeling in games, networked gaming.
Prerequisite: CS 23001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 48102 GAME DEVELOPMENT PRACTICUM (ELR) (WIC) 4 Credit Hours
With the supervision of the instructor, students will work in teams to design and implement a computer game or 3D interactive learning environment using a game engine in a professional setup.
Prerequisite: CS 33007 and CS 33901 and CS 35201; and CS 48101 or CS 38101; and junior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CS 49995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-4 Credit Hours
(Repeatable for credit) (Slashed with CS 59995) Special topics from all areas of computer science.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CS 49996 INDIVIDUAL STUDY 1-4 Credit Hours
(Repeatable for credit).
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

CS 49998 RESEARCH (ELR) 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with computer science under the supervision of a faculty member. The work for this course should result in a technical report, paper, presentation or some other appropriate product.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CS 49999 CAPSTONE PROJECT (ELR) (WIC) 4 Credit Hours
This course is an integrative experience that brings together all components of the undergraduate computer science curriculum in an applied, hands-on real-world setting.
Prerequisite: CS 33007 and CS 33901 and CS 35201.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab, Project or Capstone
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CS 50510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with MCLS 50510)(Slashed with CS 40510, CS 70510, MCLS 40510 and MCLS 70510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 52201 NUMERICAL LINEAR ALGEBRA 3 Credit Hours
(Cross-listed with MATH 52201)(Slashed with CS 42201 and MATH 42201) Fundamentals of numerical linear algebra; solving linear systems; QR factorization and least squares; iterative methods for eigenvalue problems.
Prerequisite: Computer Science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 52202 NUMERICAL APPROXIMATION AND OPTIMIZATION 3 Credit Hours
(Cross-listed with MATH 52202)(Slashed with CS 42202 and MATH 42202) This course introduces numerical methods for solving nonlinear equations, optimizing functions, performing interpolation, computing differentiation and integration and solving differential equations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53118 GRAPH AND SOCIAL NETWORK ANALYSIS 3 Credit Hours
(Slashed with CS 43118 and CS 73118) This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph databases.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53202 SYSTEMS ADMINISTRATION 3 Credit Hours
(Slashed with CS 43202) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX together with the analysis of problems which can arise in these activities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53203 SYSTEMS PROGRAMMING 3 Credit Hours
(Slashed with CS 43203) This course provides an in-depth exploration of the Unix/Linux operating system's structure while teaching students how to write system and network programs. It is ideal for those interested in developing system software for Unix/Linux or gaining a deeper understanding of a multi-tasking, multi-user operating system. The course covers key topics, including the file system, terminal and device input/output, multi-tasking, inter-process communication, video display management and network programming. Theoretical concepts are integrated with practical examples of how Unix implements them. By the end of the course, students have the skills to understand how most Unix commands function and are capable of drafting their own versions of many common commands.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53301 SOFTWARE DEVELOPMENT FOR ROBOTICS 3 Credit Hours
(Slashed with CS 43301) Robots are being used in multiple places that are not easily accessible for humans to support the lack of available labor and gain extra precision, and for cost-effective manufacturing processes, monitoring, space exploration, precision surgery and artificial limb support for elderly and physically challenged persons. Computer science is an integral part of robotics as it includes areas such as computer algorithms, artificial intelligence and image processing, which are essential aspects of robotics. This first course on robotics teaches students various motions of rigid robots; mathematics and algorithms related to these motions; motion planning; obstacle avoidance; and intelligent path planning, including the use of various sensors. In addition, students learn Robot Operating System (ROS) and ROS programming which provide a structured, modular and well-supported environment that facilitates understanding and experimentation in the field of robotics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53302 ALGORITHMIC ROBOTICS 3 Credit Hours
(Slashed with CS 43302 and CS 73302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53303 INTERNET OF THINGS 3 Credit Hours
(Slashed with CS 43303 and CS 73303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53305 ADVANCED DIGITAL DESIGN 3 Credit Hours
(Slashed with CS 43305) This course describes techniques in the design of digital systems. Topics covered include combinational and sequential logic, gate-level minimization, registers and counters, memory and programmable logic, hardware description languages, digital communication including serial and parallel and synchronous and asynchronous methods.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53334 HUMAN-ROBOT INTERACTION 3 Credit Hours
(Slashed with CS 43334 and CS 73334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 53401 SECURE PROGRAMMING 3 Credit Hours
Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and cryptography, random number generators.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54001 COMPUTER SCIENCE III - PROGRAMMING PATTERNS 4 Credit Hours
(Slashed with CS 44001) Extends students' knowledge of object-oriented programming, and improves their C++ programming skills. Specifically, the course covers procedural and object-based programming, inheritance, polymorphism, popular design patterns and generic programming.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

CS 54003 MOBILE APPS IN IOS PROGRAMMING 3 Credit Hours
Students are introduced to mobile applications programming in the iOS environment using model, view, controller paradigms. Other topics include swift, programming using on board devices like GPS, cameras, motion detectors, and screen touches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54004 DRONE PROGRAMMING 3 Credit Hours
(Slashed with CS 44004) This course describes the design, programming and control of autonomous drones. Topics covered include drone software and hardware architecture, use case models, interoperability, trajectory programming, flight control programming and sensors. Students apply this knowledge in the context of programming assignments with a drone simulator. Subsequently, students develop custom programs designed to control and fly autonomous drones.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54105 WEB PROGRAMMING I 3 Credit Hours
(Slashed with CS 44105) This course is the first of a two-course sequence on Web Programming covering from basic to advanced topics on Web Programming based on open standards and best practices. Topics covered include the HyperText Markup Language (HTML), specifying look and feel using Cascading Style Sheets (CSS), client side programming in Javascript, server side programming in PHP, and the Hypertext Transfer Protocol (HTTP).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54106 WEB PROGRAMMING II 3 Credit Hours
(Slashed with CS 44106) This course is the second of a two-course sequence on Web Programming covering advanced topics on Web Programming based on open standards and practices. This is a project course exploring advanced aspects of Web programming. Topics covered include advanced server side programming in PHP; database driven websites; structured query language (SQL) and MySQL; E-commerce; web hosting using Apache, PHP MySQL; basic and digest authentication; web security, encryption and digital certificates; Markup Language (XML) for the web, AJAX and web services; scalable vector graphics (SVG); websites.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54201 ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CS 44201) Computational intelligence concepts and methods such as modeling real-world problems as state-space search problems; heuristics and meta-heuristics search; game playing and adversarial search; constraint-based optimization and search; automated machine learning such as clustering, neural networks, regression analysis, decision trees, Markov models and HMM; Deep neural networks and its application in speech and image understanding; logical inference techniques, fuzzy systems, case-based reasoning and uncertainty based reasoning; Knowledge-based systems; planning techniques and systems
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54202 MACHINE LEARNING AND DEEP LEARNING 3 Credit Hours
(Slashed with CS 44202) This course provides an overview of some fundamental concepts, techniques and algorithms in machine learning and deep learning, and will give students a basic understanding (ideas and intuitions) of how modern machine learning works. Specifically, there are three main objectives: 1. To help student get familiar with the fundamental mathematical tools (linear algebra, probability theory, statistical inference, numerical optimization, and learning theory) which lays the foundation of machine learning algorithms and techniques; 2. To introduce the core machine learning concepts and topics, such as linear regression, classification, SVM, and neural networks (and its deep variants); in addition, we will utilize the recommendation system for students to learn how real world machine system works; 3. Teach students how to program and use the latest machine learning packages, such as Tensorflow.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 54902 SOFTWARE REQUIREMENTS ENGINEERING 3 Credit Hours
(Slashed with CS 44902) Students will learn a systematic approach to requirements elicitation, envisioning, requirements engineering, while leveraging design-based ideation and validation. Topics include software and systems requirements engineering, interface design and modeling, systems architecture, performance engineering, ethics, systems verification and testing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 55102 CENTRAL PROCESSING UNIT (CPU) ARCHITECTURES 3 Credit Hours
(Slashed with CS 45102) This course explores CPU architectures and concepts, focusing mostly on general purpose CPUs. It begins by examining the x86 architecture, the origins of reduced instruction set computers, and how those diverse concepts were reconciled. It looks at superscalar execution, out-of-order execution, branch prediction, and speculative execution, and their use in the Intel Pentium Pro and Pentium II. Finally, it concludes by exploring some contemporary CPU architectures such as embedded processors, graphics processors, and the open-source RISC-V architecture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 55203 COMPUTER NETWORK SECURITY 3 Credit Hours
(Slashed with CS 45203) Overview of network security including attacks and vulnerabilities and defense measures, secure network design, network and transport layers security, intrusion detection techniques, defense against denial of service attacks, network hardware, software, and applications attacks and their defense, security policies, legal and ethical issues in cyber and computer crimes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 55231 INTERNET ENGINEERING 3 Credit Hours
(Slashed with CS 45231) Design fundamentals and working principles of internet systems at the IP layer and above. DNS, inter-domain routing, internet client server programming, application level protocols (HTTP, XML,etc.) Web server architecture, browser, internet security, and multimedia serving.
Prerequisite: CS 23001 and CS 55201; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 56101 DESIGN AND ANALYSIS OF ALGORITHMS 3 Credit Hours
(Slashed with CS 46101) Introduction to algorithmic concepts, design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57101 COMPUTER GRAPHICS 3 Credit Hours
(Slashed with CS 47101) Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man-machine communications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57102 COMPUTER HAPTICS 3 Credit Hours
(Slashed with CS 47102 and CS 77102) This course introduces students to computer haptics which is the study of touch with a focus on computing, developing algorithms and designing new user interfaces, innovatively enhancing existing human-computer systems. This course is organized into modules that include fundamental concept and theory lectures and practical programming assignments, including a term project with real haptic (touch feedback) devices combined with virtual reality display devices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57205 INFORMATION SECURITY 3 Credit Hours
(Slashed with CS 47205) An introduction to concepts and methodology useful for information security, as specified by the NSTISSI NO. 4011 standard from the NSA.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57206 DATA SECURITY AND PRIVACY 3 Credit Hours
(Slashed with CS 47206) The goal of the course is to familiarize the students with basic concepts of security and privacy, their definitions, applications and current advances in research community and industry. This course addresses the security and privacy issues in legacy systems and also studies security and privacy policies and legislations. This course also reviews current research projects in the area of security and privacy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57207 DIGITAL FORENSICS 3 Credit Hours
(Slashed with CS 47207) This course addresses the need for digital forensics, best practices for general incidence response, legal aspects of forensics, tools and techniques to perform a full computer forensic investigation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 57221 INTRODUCTION TO CRYPTOLOGY 3 Credit Hours
(Slashed with CS 47221) This is a course on the modern science of Cryptology; that is, the process of hiding information by converting it, through a reversible process, into something unrecognizable. Of course, only the recipient should be able to reverse the “hiding” or encrypting process. As far as usage in life is concerned, this course will help you to set up cryptosystems in many different environments. This skill is highly employable; from the NSA, to banks, to anybody who needs to encrypt information is looking for people with knowledge in Cryptology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 59893 VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE 1-6 Credit Hours
(Repeatable for credit) Studies in special topics in computer science.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CS 59995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with CS 49995) Various special courses will be announced in the schedule of classes under this title.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 60093 VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Studies of special topics in computer science. Not acceptable for credit toward a graduate degree in computer science without approval of the student's adviser.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CS 61002 ALGORITHMS AND PROGRAMMING I 4 Credit Hours
This course is designed for graduate students with little knowledge of the undergraduate computer science curriculum. It is suitable for students with a background in engineering, physics, biology, geography, etc. This course is designed to introduce students to mapping scientific problems in their field of study into the computational framework. The primary purpose of this course is to help students become skillful in making the computer do what they want it to do. This course provides students with hands-on tools to develop computational methods for data modeling and analysis using Python packages such as Numpy and Matplotlib.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CS 61003 ALGORITHMS AND PROGRAMMING II 4 Credit Hours
Further exploration into the tools used in computer science. This course provides an introduction to algorithmic concepts and covers the design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.
Prerequisite: CS 61002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CS 61004 OPERATING SYSTEMS AND ARCHITECTURE 4 Credit Hours
This course introduces the fundamentals of modern computing systems. It covers the basic architecture, operating system that manages the underlying hardware and basic network that now enables building of networked computing systems. Students learn about key hardware and software components that make up computer and network internals and their essential functions, and learn how these work together as a whole to make computing systems that run efficiently, reliably and securely. This course is suitable for students who may not have an undergraduate degree in computer science or closely related areas.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CS 61092 PRACTICUM IN CS FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT 1-5 Credit Hours
(Repeatable for credit)This course is an alternative to IAKM 60198 for students interested in pursuing a CS thesis. Credit for IAKM 60198 or any other project course is not allowed.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 61199 THESIS I FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours. No credit for CS students.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 61299 THESIS II FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT STUDENTS 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CS 61199.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 62263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours
(Slashed with CS 72263) (Cross-listed with MATH 62263 and MATH 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.
Prerequisite: MATH 51021 and CS 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 62264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours
(Slashed with CS 72264) (Cross-listed MATH 62264 and MATH 72264) Construction and analysis of numerical methods for systems of non linear algebraic equations and optimization problems. Numerical implementation and software.
Prerequisite: MATH 52041 and CS 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63005 ADVANCED DATABASE SYSTEMS DESIGN 3 Credit Hours
(Slashed with CS 73005) Introduction to a variety of advanced database topics and on-going trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63015 DATA MINING TECHNIQUES 3 Credit Hours
(Slashed with CS 73015) Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63016 BIG DATA ANALYTICS 3 Credit Hours
(Slashed with CS 73016) Introduces computing platforms with focus on how to use them in processing, managing and analyzing massive datasets. Utilizes several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank and massive graph analytics as the case study for large scale data processing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63017 BIG DATA MANAGEMENT 3 Credit Hours
This course will cover a series of important Big-Data-related problems and their solutions. Specifically, we will introduce the characteristics and challenges of the Big Data, state-of-the-art computing paradigm sand platforms (e.g., MapReduce), big data programming tools (e.g., Hadoop and MongoDB), big data extraction and integration, big data storage, scalable indexing for big data, big graph processing, big data stream techniques and algorithms, big probabilistic data management, big data privacy, big data visualizations, and big data applications (e.g., spatial, finance, multimedia, medical, health, and social data).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63018 PROBABILISTIC DATA MANAGEMENT 3 Credit Hours
(Slashed with CS 73018) This course addresses the fundamental concepts and techniques for probabilistic data management in the area of databases. Probabilistic data are pervasive in many real-world applications, such as sensor networks, GPS system, location-based services, mobile computing, multimedia databases, data extraction and integration, trajectory data analysis, semantic web, privacy preserving, and so on. This class also covers major research topics such as probabilistic or uncertain data models, probabilistic queries, probabilistic query answering techniques, and data quality issues in databases.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63100 COMPUTATIONAL HEALTH INFORMATICS 3 Credit Hours
(Slashed with CS 73100) The course describes computational techniques and software tools for managing and transmitting health related information and automated analysis of medical and biosignal data.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63201 ADVANCED OPERATING SYSTEMS 3 Credit Hours
(Slashed with CS 73201) Introduction to distributed systems, interprocess communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63301 PARALLEL AND DISTRIBUTED COMPUTING 3 Credit Hours
(Slashed with CS 73301) Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using SIMD, SPMD, MIMD and associative computing; parallel and distributed architecture using existing machines as case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63304 CLUSTER COMPUTING 3 Credit Hours
(Slashed with CS 73304) This course will investigate clusters of computers as a computing platform, hardware and software trade-offs for clusters and application performance and programming of clusters.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63305 MULTICORE COMPUTING 3 Credit Hours
(Slashed with CS 73305) Starting about 2005, hardware architects began putting more than one processing core on a single chip, leading to the recent rapid advancements in multicore processor architectures. This shift has changed almost everything ranging from memory hierarchy and consistency to programming those architectures. The goal of this course is to study multicore processor architectures from the perspective of hardware, software and algorithm design, the challenges, and the technologies that are relevant to those architectures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63306 EMBEDDED COMPUTING 3 Credit Hours
(Slashed with CS 73306) Computational issues structuring programs for processors embedded in other devices, such as those found in automobiles and biological and chemical sample processing devices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63901 SOFTWARE ENGINEERING METHODOLOGIES 3 Credit Hours
(Slashed with CS 73901) Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation; reuse; and metrics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 63902 SOFTWARE EVOLUTION 3 Credit Hours
(Slashed with CS 73902) Methods and techniques supporting later lifecycle activities, including software testing and maintenance, reuse and reverse engineering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 64201 ADVANCED ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CS 74201) Advanced topics in AI such as Nature inspired meta-heuristics and their applications in real-world optimization problems; Bayesian networks and probabilistic reasoning over time with applications; Utility theory and decision networks and their applications; game theory and multi-agent systems and their applications; Advanced learning theory such as statistical learning, reinforced learning, probabilistic learning, deep convolution neural network, recurrent neural network, Long Short-term Memory (LSTM), transfer learning, federated learning, transformers, and their application to vision and speech understanding; introduction to object recognition, scene analysis and object tracking; introduction to speech understanding; Context-based discourse and conversation analysis; multi-modal emotion recognition.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 64401 IMAGE PROCESSING 3 Credit Hours
(Slashed with CS 74401) This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 64402 MULTIMEDIA SYSTEMS AND BIOMETRICS 3 Credit Hours
(Slashed with CS 74402) This course discusses computational techniques for the fusion of multimedia data recorded by sensors for human-identification using automated analysis of biometric signals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 65101 ADVANCED COMPUTER ARCHITECTURE 3 Credit Hours
(Slashed with CS 75101) System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 65202 ADVANCED COMMUNICATION NETWORKS 3 Credit Hours
(Slashed with CS 75202) This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and internet routing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 65203 WIRELESS AND MOBILE COMMUNICATION NETWORKS 3 Credit Hours
(Slashed with CS 75203) Examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. Course covers the architecture and the interactions among different functional units in wireless and mobile systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 66101 ADVANCED TOPICS IN ALGORITHMS 3 Credit Hours
(Slashed with CS 76101) Advanced algorithms, fast fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, gcd, factoring, numerical and symbolic computational algorithms, Risch integration algorithm, pattern matching.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 66105 PARALLEL AND DISTRIBUTED ALGORITHMS 3 Credit Hours
(Slashed with CS 76105) Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation, using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 66110 COMPUTATIONAL GEOMETRY 3 Credit Hours
(Slashed with CS 76110) Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational geometry studies algorithms for geometric problems.
Prerequisite: Graduate Standing
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 67101 ADVANCED COMPUTER GRAPHICS 3 Credit Hours
(Slashed with CS 77101) In-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 67301 SCIENTIFIC VISUALIZATION 3 Credit Hours
(Slashed with CS 77301) Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 67302 INFORMATION VISUALIZATION 3 Credit Hours
(Slashed with CS 77302) Information visualization is the science that unveils the underlying structure of data sets using visual representations that utilize the powerful processing capabilities of the human visual perceptual system. In this class, we will study algorithms and systems for visually exploring, understanding, and analyzing large, complex data sets. Information visualization focuses on abstract data such as symbolic, tabular, networked, hierarchical, or textual information sources. The objectives of the course are to learn the principles involved in information visualization and a variety of existing techniques and systems. The students will also gain backgrounds and skills that will aid the design of new, innovative visualizations in realistic applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 69098 RESEARCH 1-5 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if grade of "S" is given.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69099 CAPSTONE PROJECT 3,6 Credit Hours
(Repeatable for credit) This course is an integrative experience that brings together all components of the master's non-thesis graduate program in an applied, hands-on, real-world setting.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory

CS 69191 MASTER'S SEMINAR 1-2 Credit Hours
(Repeatable for credit) Seminar for masters students to present and discuss computer science related research and academics. Masters students are required to take at least 2 credit hours for completion of degree and make at least one presentation of project work or research. Only two credits count towards the masters degree.
Prerequisite: Computer Science major within the Master of Arts or Master of Science degree.
Schedule Type: Seminar
Contact Hours: 1-2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69192 GRADUATE INTERNSHIP 1-3 Credit Hours
(Repeatable for credit) Supervised experience in the chosen graduate program. Since this work will be outside the department, a report and a final presentation will be required.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69199 THESIS I 2-6 Credit Hours
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CS 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 69995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with CS 79995) Special topics in computer science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 70510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with MCLS 70510)(Slashed with CS 40510, CS 50510, MCLS 40510 and MCLS 50510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 72263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours
(Slashed with CS 62263) (Cross-listed with MATH 62263 and MATH 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.
Prerequisite: MATH 51021 and CS 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 72264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours
(Slashed with CS 62264) (Cross-listed with MATH 62264 and MATH 72264) Construction and analysis of numerical methods for systems of non linear algebraic equations and optimization problems. Numerical implementation and software.
Prerequisite: MATH 52041 and CS 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73005 ADVANCED DATABASE SYSTEMS DESIGN 3 Credit Hours
(Slashed with CS 63005) Introduction to a variety of advanced database topics and on-going trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73015 DATA MINING TECHNIQUES 3 Credit Hours
(Slashed with CS 63015) Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73016 BIG DATA ANALYTICS 3 Credit Hours
Introduces computing platforms with the focus on how to utilize them in processing, managing and analyzing massive datasets. The course will utilize several key data processing tasks, including simple statistics, data aggrefation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank, and massive graph analytics as the case study for large scale data processing.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73017 BIG DATA MANAGEMENT 3 Credit Hours
This course will cover a series of important Big-Data-related problems and their solutions. Specifically, we will introduce the characteristics and challenges of the Big Data, state-of-the-art computing paradigm sand platforms (e.g., MapReduce), big data programming tools (e.g., Hadoop and MongoDB), big data extraction and integration, big data storage, scalable indexing for big data, big graph processing, big data stream techniques and algorithms, big probabilistic data management, big data privacy, big data visualizations, and big data applications (e.g., spatial, finance, multimedia, medical, health, and social data).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73018 PROBABILISTIC DATA MANAGEMENT 3 Credit Hours
(Slashed with CS 63018) This course addresses the fundamental concepts and techniques for probabilistic data management in the area of databases. Probabilistic data are pervasive in many real-world applications, such as sensor networks, GPS system, location-based services, mobile computing, multimedia databases, data extraction and integration, trajectory data analysis, semantic web, and privacy preserving. This class also covers major research topics such as probabilistic or uncertain data models, probabilistic queries, probabilistic query answering techniques, and data quality issues in databases.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73100 COMPUTATIONAL HEALTH INFORMATICS 3 Credit Hours
(Slashed with CS 63100) The course describes computational techniques and software tools for managing and transmitting health related information and automated analysis of medical and biosignal data.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73118 GRAPH SOCIAL NETWK ANALYSIS 3 Credit Hours
(Slashed with CS 43118 and CS 53118) This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph database.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73201 ADVANCED OPERATING SYSTEMS 3 Credit Hours
(Slashed with CS 63201) Introduction to distributed systems, interprocess communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73301 PARALLEL AND DISTRIBUTED COMPUTING 3 Credit Hours
(Slashed with CS 63301) Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using simd spmd mimd and,associative computing parallel and distributed architecture using existing machines as case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73302 ALGORITHMIC ROBOTICS 3 Credit Hours
(Slashed with CS 43302 and CS 53302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73303 INTERNET OF THINGS 3 Credit Hours
(Slashed with CS 43303 and CS 53303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73304 CLUSTER COMPUTING 3 Credit Hours
(Slashed with CS 63304) This course will investigate clusters of computers as a computing platform, hardware and software tradeoffs for clusters and application performance and programming of clusters.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73305 MULTICORE COMPUTING 3 Credit Hours
(Slashed with CS 63305) Starting about 2005, hardware architects began putting more than one processing core on a single chip, leading to the recent rapid advancements in multicore processor architectures. This shift has changed almost everything ranging from memory hierarchy and consistency to programming those architectures. The goal of this course is to study multicore processor architectures from the perspective of hardware, software, and algorithm design, the challenges, and the technologies that are relevant to those architectures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73306 EMBEDDED COMPUTING 3 Credit Hours
(Slashed with CS 63306) Computational issues structuring programs for processors embedded in other devices such as those found in automobiles and biological chemical sample processing devices.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73334 HUMAN-ROBOT INTERACTION 3 Credit Hours
(Slashed with CS 43334 and CS 53334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73901 SOFTWARE ENGINEERING METHODOLOGIES 3 Credit Hours
(Slashed with CS 63901) Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation reuse; and metrics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 73902 SOFTWARE EVOLUTION 3 Credit Hours
(Slashed with CS 63902) Methods and techniques supporting later lifecycle activities, including software testing and maintenance reuse and reverse engineering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 74201 ADVANCED ARTIFICIAL INTELLIGENCE 3 Credit Hours
(Slashed with CS 64201) Advanced topics in AI such as Nature inspired meta-heuristics and their applications in real-world optimization problems; Bayesian networks and probabilistic reasoning over time with applications; Utility theory and decision networks and their applications; game theory and multi-agent systems and their applications; Advanced learning theory such as statistical learning, reinforced learning, probabilistic learning, deep convolution neural network, recurrent neural network, Long Short-term Memory (LSTM), transfer learning, federated learning, transformers, and their application to vision and speech understanding; introduction to object recognition, scene analysis and object tracking; introduction to speech understanding; Context-based discourse and conversation analysis; multi-modal emotion recognition.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 74401 IMAGE PROCESSING 3 Credit Hours
(Slashed with CS 64401) This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 74402 MULTIMEDIA SYSTEMS AND BIOMETRICS 3 Credit Hours
(Slashed with CS 64402) This course discusses computational techniques for fusion of multimedia data collected by sensors for human-identification using automated analysis of biometric signals.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 75101 ADVANCED COMPUTER ARCHITECTURE 3 Credit Hours
(Slashed with CS 65101) System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 75202 ADVANCED COMMUNICATION NETWORKS 3 Credit Hours
(Slashed with CS 65202) This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and internet routing.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 75203 WIRELESS AND MOBILE COMMUNICATION NETWORKS 3 Credit Hours
(Slashed with CS 65203) Examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. Course covers the architecture and the interactions among different functional units in wireless and mobile systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 76101 ADVANCED TOPICS IN ALGORITHMS 3 Credit Hours
(Slashed with CS 66101) Advanced algorithms, fast Fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, GCD, factoring, numerical and symbolic computational algorithms, Rischintegration algorithm, pattern matching.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 76105 PARALLEL AND DISTRIBUTED ALGORITHMS 3 Credit Hours
(Slashed with CS 66105) Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation, using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 76110 COMPUTATIONAL GEOMETRY 3 Credit Hours
(Slashed with CS 66110) Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational geometry studies algorithms for geometric problems.
Prerequisite: Doctoral Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 77101 ADVANCED COMPUTER GRAPHICS 3 Credit Hours
(Slashed with CS 67101) In-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 77102 COMPUTER HAPTICS 3 Credit Hours
(Slashed with CS 47102 and CS 57102) This course introduces students to computer haptics which is the study of touch with a focus on computing, developing algorithms and designing new user interfaces, innovatively enhancing existing human-computer systems. This course is organized into modules that include fundamental concept and theory lectures and practical programming assignments, including a term project with real haptic (touch feedback) devices combined with virtual reality display devices.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 77301 SCIENTIFIC VISUALIZATION 3 Credit Hours
(Slashed with CS 67301) Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 77302 INFORMATION VISUALIZATION 3 Credit Hours
(Slashed with CS 67302) Information visualization is the science that unveils the underlying structure of data sets using visual representations that utilize the powerful processing capabilities of the human visual perceptual system. In this class, we will study algorithms and systems for visually exploring, understanding, and analyzing large, complex data sets. Information visualization focuses on abstract data such as symbolic, tabular, networked, hierarchical, or textual information sources. The objectives of the course are to learn the principles involved in information visualization and a variety of existing techniques and systems. The students will also gain backgrounds and skills that will aid the design of new, innovative visualizations in realistic applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CS 79995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with CS 69995) Special topics in computer science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CS 89098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. The work for this course should result in a paper, presentation or some other appropriate product.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 89191 DOCTORAL SEMINAR 1-2 Credit Hours
(Repeatable for credit) Seminar for doctoral students to present and discuss computer science related research and academics. Doctoral students are required to take at least 3 credit hours for completion of degree and make at least two presentations of project work or research. Only two credits count towards the doctoral degree.
Prerequisite: Computer Science major within the Doctor of Philosophy degree.
Schedule Type: Seminar
Contact Hours: 1-2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 89199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 89299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: CS 89199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CS 89991 RESEARCH SEMINAR IN COMPUTER SCIENCE 1-3 Credit Hours
(Repeatable for credit)Research seminar on current research in computer science.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Artificial Intelligence - M.S.

College of Arts and Sciences
Department of Computer Science
www.kent.edu/cs

About This Program

The Master of Science in Artificial Intelligence program provides rigorous training in the theory and application of AI, equipping you with the skills to develop intelligent systems that can solve complex problems in a variety of fields. With access to state-of-the-art technology and experienced faculty, you will gain the knowledge and practical experience needed to make an impact in this rapidly growing field. Read more...

Contact Information

- **Arvind Bansal** | gradinfo@cs.kent.edu | 330-672-9047
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Computer and information research scientists

- 15.4% much faster than the average
- 32,700 number of jobs
- $126,830 potential earnings

Software developers and software quality assurance analysts and testers

- 21.5% much faster than the average
- 1,469,200 number of jobs
- $110,140 potential earnings

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Course Proficiency: Completion of high-level algebra, geometry and calculus courses (equivalent to MATH 12002, MATH 12003, MATH 21001)[1] *(starting with spring 2026 admissions, a minimum B grade in these courses will be required)*
- Official transcript(s)
- GRE scores
- Résumé
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

Admission to this interdisciplinary program is holistic. Highly qualified students from related disciplines who are lacking preparation in some standard areas may be considered for admission on a case-by-case basis.

[1] It is strongly recommended that applicants to the program have completed computer sciences courses with a minimum B grade in such areas as computer programming, discrete structures, data structures and abstraction, operating systems, database and computer algorithms (equivalent to CS 13011, CS 13012, CS 23001, CS 23022, CS 33007, CS 33211, CS 46101).

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: June 15
- **Spring Semester**
  - Application deadline: November 1
- **Summer Term**
  - Application deadline: April 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CS 53302	ALGORITHMIC ROBOTICS	3
or CS 63018	PROBABILISTIC DATA MANAGEMENT	
or CS 67302	INFORMATION VISUALIZATION	
CS 54201	ARTIFICIAL INTELLIGENCE	3
CS 54202	MACHINE LEARNING AND DEEP LEARNING	3
CS 63005	ADVANCED DATABASE SYSTEMS DESIGN	3
CS 64201	ADVANCED ARTIFICIAL INTELLIGENCE	3
Major Electives, choose from the following:		9
CS 53301	SOFTWARE DEVELOPMENT FOR ROBOTICS	
CS 53302	ALGORITHMIC ROBOTICS	
CS 53303	INTERNET OF THINGS	
CS 53305	ADVANCED DIGITAL DESIGN	
CS 53334	HUMAN-ROBOT INTERACTION	
CS 63015	DATA MINING TECHNIQUES	
CS 63016	BIG DATA ANALYTICS	
CS 63017	BIG DATA MANAGEMENT	
CS 63018	PROBABILISTIC DATA MANAGEMENT	
CS 63100	COMPUTATIONAL HEALTH INFORMATICS	
CS 63306	EMBEDDED COMPUTING	
CS 64401	IMAGE PROCESSING	
CS 64402	MULTIMEDIA SYSTEMS AND BIOMETRICS	
CS 65203	WIRELESS AND MOBILE COMMUNICATION NETWORKS	
CS 67301	SCIENTIFIC VISUALIZATION	
CS 67302	INFORMATION VISUALIZATION	
CS 69995	SPECIAL TOPICS IN COMPUTER SCIENCE (requires advisor approval to apply)	
Culminating Requirement		
Choose from the following:		6
Thesis Option		
CS 69199	THESIS I [1]	
Project Option		
CS 69099	CAPSTONE PROJECT	
Project Option Electives, choose from the following:		
CS 69192	GRADUATE INTERNSHIP	
CS 69995	SPECIAL TOPICS IN COMPUTER SCIENCE	
Computer Science (CS) Graduate course (50000 or 60000 level) with advisor approval		
Minimum Total Credit Hours:		**30**

[1] Students selecting the thesis option must form a master's thesis committee, which will include the advisor and at least two other graduate faculty members. The thesis topic and committee must be approved by the advisor and graduate coordinator. The final version of the thesis must be approved by the advisor, thesis committee and graduate coordinator.

Progression Requirements

- Students should complete a minimum of two required courses and either CS 53302, CS 63018 or CS 67302 before taking elective courses.
- Students must maintain a minimum 3.000 GPA. Students earning less than a 3.000 GPA or earning a C grade or lower in two courses will be placed on academic probation.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Combine intelligent analytics and automation, human-computer interaction and robotics techniques to optimize and automate transportation, industrial processes and/or healthcare processes.
2. Apply machine learning techniques on big data to predict, classify, data mine and explore patterns.
3. Apply intelligent visualization and Internet-based techniques for smart homes and communities.
4. Perform research, discovery and integration by applying knowledge of artificial intelligence theory and techniques.

Full Description

The Master of Science degree in Artificial Intelligence prepares students with a focused educational and research environment to develop career paths through necessary learning and training with emerging artificial intelligence technologies and applications to intelligent analytics, smart homes and communities and robotics and automation. Graduates have technical knowledge and research and development skills necessary for applying artificial intelligence to industry, community and military. These areas include sectors requiring intelligent pattern-analysis of big data such as retail, healthcare, biology, psychology and intelligent human-machine interactions and interfaces.

Bioinformatics - Minor

College of Arts and Sciences
Department of Computer Science
www.kent.edu/cs

About This Program

The Bioinformatics minor provides a foundation in computer science and computational data processing for students in any field of biological sciences, allowing students to work with substantial computing and data science-oriented cyber systems. The minor enables students to competitively manage the computing and cyber aspects of their professions.

Students in the Bioinformatics minor will use Python programming language to import, clean, analyze, visualize and learn data from their real-world applications.

Contact Information

- **Feodor F. Dragan** and **Augustine Samba** | ugradinfo@cs.kent.edu | 330-672-9120
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Prerequisites		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
Minor Requirements		
BSCI 40218	INTRODUCTION TO GENOMICS [1]	3
or BSCI 40224	QUANTITATIVE METHODS IN BIOLOGY	
BSCI 40220	BIOINFORMATICS	3
or BTEC 40220	BIOINFORMATICS	
CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	4
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	4
CS 20062	ADVANCED PROGRAMMING WITH PYTHON	4
CS 30062	PYTHON FOR DATA SCIENCE	3
Minimum Total Credit Hours:		**21**

[1] Students may seek an approved substitute to BSCI 40218 or BSCI 40224 in the same department.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the essential facts, concepts, principles and theories related to computer science and data science.
2. Understand Python programming basics and data structures in Python.
3. Solve practical problems over real-world data using Python (e.g., data collection, cleaning, manipulation, visualization and machine learning.)
4. Apply hands-on experience in Python projects for scientific data processing.
5. Collaborate with other team members in groups to complete scientific data processing projects.

Computer Science - B.A.

College of Arts and Sciences
Department of Computer Science
www.kent.edu/cs

About This Program

The Bachelor of Arts in Computer Science program provides a solid foundation in computer science principles and hands-on experience with industry-standard tools. With access to cutting-edge facilities and expert faculty, you will gain the skills needed to thrive in the tech industry. Read more...

Contact Information

- **Augustine Samba** | ugradinfo@cs.kent.edu | 330-672-9120
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING (min C grade in all) [1]	4
or CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION (min C grade)	4
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	3
CS 33211	OPERATING SYSTEMS	3
CS 33901	SOFTWARE ENGINEERING	3
CS 35101	COMPUTER ORGANIZATION	3
CS 44901	SOFTWARE DEVELOPMENT PROJECT (ELR) (WIC) [2]	4
Computer Science (CS) Upper-Division Electives (30000 or 40000 level) [3]		6
Computer Science (CS) Upper-Division Electives (40000 level) [3]		9
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Mathematics Elective, choose from the following:		3-5
MATH 10675	ALGEBRA FOR CALCULUS BOOST (KMCR)	
MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR)	
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		31
Minimum Total Credit Hours:		**120**

1. Students who meet the prerequisite for CS 13001 should take the course during semester one.
2. A minimum C grade must be earned to fulfill the writing-intensive requirement.
3. Students may apply a maximum 3 credit hours of CS 33192 and a maximum 6 credit hours of CS 49996, CS 49998 or a combination of the two courses to fulfill Computer Science (CS) electives. Please note that some Computer Science (CS) elective courses have math prerequisites that are not required in the B.A. degree. Please ensure that you have taken the necessary math courses before enrolling in these elective courses.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- A minimum C grade may be required in some courses

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States

iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	UC 10001	FLASHES 101	1
	Mathematics Elective		3-5
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**13**
	Semester Two		
!	CS 13001 or CS 13011 ***and*** CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING ***and*** COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
!	CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
!	CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
!	CS 35101	COMPUTER ORGANIZATION	3
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Four		
!	CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	3
!	CS 33211	OPERATING SYSTEMS	3
	Computer Science (CS) Upper-Division Elective (30000 or 40000 level)		3
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Five		
	CS 33901	SOFTWARE ENGINEERING	3
	Computer Science (CS) Upper-Division Elective (30000 or 40000 level)		3
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	Computer Science (CS) Upper-Division Elective (40000 level)		3
	Foreign Language and/or General Elective		3
	General Electives		9
		Credit Hours	**15**
	Semester Seven		
	Computer Science (CS) Upper-Division Elective (40000 level)		3
	General Electives		12
		Credit Hours	**15**
	Semester Eight		
!	CS 44901	SOFTWARE DEVELOPMENT PROJECT (ELR) (WIC)	4
	Computer Science (CS) Upper-Division Elective (40000 level)		3
	General Electives		6
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the essential facts, concepts, principles and theories relating to computer science.
2. Apply computer science concepts to solve computer-related problems.
3. Analyze algorithms, computer science methods and techniques.
4. Analyze and plan the development of a typical professional computer science problem.
5. Make succinct oral presentations and written expositions about technical problems and their solutions.
6. Work effectively as a member of a software development team.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Computer Science is designed for students who seek a liberal arts education combined with a solid foundation in computer science. Students may choose electives from any complementary liberal arts program beyond computer science.

Students have the option to have a double major to attain depth of knowledge across two related areas.

Computer Science - B.S.

College of Arts and Sciences
Department of Computer Science
www.kent.edu/cs

About This Program

The Bachelor of Science in Computer Science program provides a rigorous curriculum that covers a wide range of computer science topics. With a focus on problem solving and critical thinking, you will be equipped to tackle real-world challenges and make an impact in the industry. Read more...

Contact Information

- **Augustine Samba** | ugradinfo@cs.kent.edu | 330-672-9120
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus (major and all concentrations)
  - Stark Campus (no concentration and Cybersecurity optional concentration)

Accreditation

The Bachelor of Science degree in Computer Science is accredited by the Computing Accreditation Commission of ABET, www.abet.org.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's

English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING (min C grade) [1]	4
or CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION (min C grade)	4
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
CS 32301	HUMAN INTERFACE COMPUTING	3
CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	3
CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	3
CS 33211	OPERATING SYSTEMS	3
CS 33901	SOFTWARE ENGINEERING	3
CS 35101	COMPUTER ORGANIZATION	3
CS 35201	COMPUTER COMMUNICATION NETWORKS	3
CS 44001	COMPUTER SCIENCE III - PROGRAMMING PATTERNS	4
CS 46101	DESIGN AND ANALYSIS OF ALGORITHMS	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12013	BRIEF CALCULUS II	3
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
MATH 21002	APPLIED LINEAR ALGEBRA	3
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Science Electives, choose from the following (must include one laboratory):		6-7
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	
CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
CHEM 10971	HONORS GENERAL CHEMISTRY II (KBS)	
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	
GEOG 21062	PHYSICAL GEOGRAPHY (KBS)	
GEOG 21063	PHYSICAL GEOGRAPHY LABORATORY (KBS) (KLAB)	
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		6
Additional Requirements or Concentrations		
Choose from the following:		19
Additional Requirements for Students Not Declaring a Concentration		
Cybersecurity Concentration		
Data Engineering Concentration		
Game Programming Concentration		
Robotics and Embedded Systems Concentration		
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned in CS 13001 or in both CS 13011 and CS 13012 for graduation.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CS 49999	CAPSTONE PROJECT (ELR) (WIC) [1]	4
Computer Science (CS) Upper-Division Electives (30000 or 40000 level) [2]		6
Computer Science (CS) Upper-Division Electives (40000 level) [2]		9
Minimum Total Credit Hours:		**19**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Students may apply a maximum 4 credit hours of CS 33192 and a maximum 6 credit hours of CS 49996, CS 49998 or a combination of the two courses to fulfill computer science upper#division electives.

Cybersecurity Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CS 43203	SYSTEMS PROGRAMMING	3
CS 43401	SECURE PROGRAMMING	3
or CS 47206	DATA SECURITY AND PRIVACY	
or CS 47207	DIGITAL FORENSICS	
CS 45203	COMPUTER NETWORK SECURITY	3
CS 47205	INFORMATION SECURITY	3
CS 47221	INTRODUCTION TO CRYPTOLOGY	3
CS 49999	CAPSTONE PROJECT (ELR) (WIC) [1]	4
Minimum Total Credit Hours:		**19**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Data Engineering Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CS 43016	BIG DATA ANALYTICS	3
CS 43105	DATA MINING TECHNIQUES	3
CS 43118	GRAPH AND SOCIAL NETWORK ANALYSIS	3
CS 49999	CAPSTONE PROJECT (ELR) (WIC) [1]	4
Computer Science (CS) Upper-Division Elective (30000 or 40000 level) [2]		3
Computer Science (CS) Upper-Division Elective (40000 level) [2]		3
Minimum Total Credit Hours:		**19**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Students may apply a maximum 4 credit hours of CS 33192 and a maximum 6 credit hours of CS 49996, CS 49998 or a combination of the two courses to fulfill computer science upper#division electives.

Game Programming Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CS 38101	INTRODUCTION TO GAME PROGRAMMING	3
CS 47101	COMPUTER GRAPHICS	3
CS 48101	GAME ENGINE CONCEPTS	3
CS 48102	GAME DEVELOPMENT PRACTICUM (ELR) (WIC) [1]	4
Concentration Electives, choose from the following: [2]		6
CS 43203	SYSTEMS PROGRAMMING	
CS 44201	ARTIFICIAL INTELLIGENCE	
CS 47102	COMPUTER HAPTICS	
CS 47201	Course CS 47201 Not Found	
Minimum Total Credit Hours:		**19**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Students may apply a maximum 6 credit hours of CS 49996, CS 49998 or a combination of the two courses to fulfill computer science upper# division electives.

Robotic and Embedded Systems Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CS 33301	EMBEDDED SYSTEM PROGRAMMING	3
CS 33302	INTRODUCTION TO INTELLIGENT ROBOTICS	3
CS 43302	ALGORITHMIC ROBOTICS	3
or CS 43303	INTERNET OF THINGS	
or CS 43334	HUMAN-ROBOT INTERACTION	
CS 49999	CAPSTONE PROJECT (ELR) (WIC) [1]	4
Concentration Electives, choose from the following:		6
CS 43203	SYSTEMS PROGRAMMING	
CS 43301	SOFTWARE DEVELOPMENT FOR ROBOTICS	
CS 43302	ALGORITHMIC ROBOTICS	
CS 43303	INTERNET OF THINGS	
CS 43334	HUMAN-ROBOT INTERACTION	
CS 44201	ARTIFICIAL INTELLIGENCE	
CS 45102	CENTRAL PROCESSING UNIT (CPU) ARCHITECTURES	
CS 45203	COMPUTER NETWORK SECURITY	
CS 45231	INTERNET ENGINEERING	
CS 47102	COMPUTER HAPTICS	
CS 47201	Course CS 47201 Not Found	
Minimum Total Credit Hours:		**19**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- A minimum grade may be required in some courses

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

[1] All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer

than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

[2] The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Computer Science Major (No Concentration)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	CS 13001 or CS 13011 ***and*** CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING ***and*** COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**16**
	Semester Two		
!	CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
!	CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
	MATH 12013	BRIEF CALCULUS II	3
	MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
!	CS 33211	OPERATING SYSTEMS	3
!	CS 35101	COMPUTER ORGANIZATION	3
	MATH 21002	APPLIED LINEAR ALGEBRA	3
	Foreign Language		4
		Credit Hours	**13**
	Semester Four		
	CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	3
	CS 35201	COMPUTER COMMUNICATION NETWORKS	3
!	CS 44001	COMPUTER SCIENCE III - PROGRAMMING PATTERNS	4
	Foreign Language		4
		Credit Hours	**14**
	Semester Five		
	CS 32301	HUMAN INTERFACE COMPUTING	3
!	CS 33901	SOFTWARE ENGINEERING	3
!	CS 46101	DESIGN AND ANALYSIS OF ALGORITHMS	3
	Science Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
!	CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	3
	Computer Science (CS) Upper-Division Elective (30000 or 40000 level)		3
	Science Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Seven		
	CS 49999	CAPSTONE PROJECT (ELR) (WIC)	4
	Computer Science (CS) Upper-Division Elective (30000 or 40000 level)		3
	Computer Science (CS) Upper-Division Elective (40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Eight		
	Computer Science (CS) Upper-Division Electives (40000 level)		6
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

Cybersecurity Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	CS 13001 or CS 13011 ***and*** CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING ***and*** COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	General Elective		2
		Credit Hours	**15**
	Semester Two		
!	CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
!	CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
	MATH 12013	BRIEF CALCULUS II	3
	MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
!	CS 33211	OPERATING SYSTEMS	3
!	CS 35101	COMPUTER ORGANIZATION	3
	CS 47221	INTRODUCTION TO CRYPTOLOGY	3
	MATH 21002	APPLIED LINEAR ALGEBRA	3
	Foreign Language		4
		Credit Hours	**16**

	Semester Four		
!	CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	3
!	CS 35201	COMPUTER COMMUNICATION NETWORKS	3
	CS 43203	SYSTEMS PROGRAMMING	3
!	CS 44001	COMPUTER SCIENCE III - PROGRAMMING PATTERNS	4
	Foreign Language		4
		Credit Hours	**17**
	Semester Five		
!	CS 33901	SOFTWARE ENGINEERING	3
!	CS 46101	DESIGN AND ANALYSIS OF ALGORITHMS	3
!	CS 47205	INFORMATION SECURITY	3
	Science Elective		3
	General Elective		2
		Credit Hours	**14**
	Semester Six		
	CS 32301	HUMAN INTERFACE COMPUTING	3
!	CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	3
	CS 43401 or CS 47206 or CS 47207	SECURE PROGRAMMING or DATA SECURITY AND PRIVACY or DIGITAL FORENSICS	3
	CS 45203	COMPUTER NETWORK SECURITY	3
	Science Elective		3
		Credit Hours	**15**
	Semester Seven		
	CS 49999	CAPSTONE PROJECT (ELR) (WIC)	4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**13**
	Semester Eight		
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		2
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

Data Engineering Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

			Credits
	Semester One		
!	CS 13001 or CS 13011 ***and*** CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING ***and*** COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	General Elective		2
		Credit Hours	**15**
	Semester Two		
!	CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
!	CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
	MATH 12013	BRIEF CALCULUS II	3
	MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
!	CS 33211	OPERATING SYSTEMS	3
!	CS 35101	COMPUTER ORGANIZATION	3
	MATH 21002	APPLIED LINEAR ALGEBRA	3
	Foreign Language		4
		Credit Hours	**13**
	Semester Four		
!	CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	3
!	CS 35201	COMPUTER COMMUNICATION NETWORKS	3
!	CS 44001	COMPUTER SCIENCE III - PROGRAMMING PATTERNS	4
	Science Elective		3
	Foreign Language		4
		Credit Hours	**17**
	Semester Five		
!	CS 33901	SOFTWARE ENGINEERING	3
	CS 43105	DATA MINING TECHNIQUES	3
!	CS 46101	DESIGN AND ANALYSIS OF ALGORITHMS	3
	Science Elective		3
	General Elective		2
		Credit Hours	**14**
	Semester Six		
	CS 32301	HUMAN INTERFACE COMPUTING	3
!	CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	3
	CS 43016	BIG DATA ANALYTICS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Seven		
	CS 43118	GRAPH AND SOCIAL NETWORK ANALYSIS	3
	Computer Science (CS) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Eight		
	CS 49999	CAPSTONE PROJECT (ELR) (WIC)	4
	Computer Science (CS) Upper-Division Elective (40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		2
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

Game Programming Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence

based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	CS 13001 or CS 13011 *and* CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING *and* COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	General Elective		2
		Credit Hours	**15**
	Semester Two		
!	CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
!	CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
	MATH 12013	BRIEF CALCULUS II	3
	MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
!	CS 33211	OPERATING SYSTEMS	3
!	CS 35101	COMPUTER ORGANIZATION	3
	MATH 21002	APPLIED LINEAR ALGEBRA	3
	Foreign Language		4
		Credit Hours	**13**
	Semester Four		
!	CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	3
!	CS 35201	COMPUTER COMMUNICATION NETWORKS	3
!	CS 44001	COMPUTER SCIENCE III - PROGRAMMING PATTERNS	4
	Computer Science (CS) Upper-Division Elective (40000 level)		3
	Foreign Language		4
		Credit Hours	**17**
	Semester Five		
!	CS 33901	SOFTWARE ENGINEERING	3
!	CS 38101	INTRODUCTION TO GAME PROGRAMMING	3
!	CS 46101	DESIGN AND ANALYSIS OF ALGORITHMS	3
	Science Elective		3
	General Elective		2
		Credit Hours	**14**
	Semester Six		
	CS 32301	HUMAN INTERFACE COMPUTING	3
!	CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	3
!	CS 48101	GAME ENGINE CONCEPTS	3
	Science Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Seven		
!	CS 47101	COMPUTER GRAPHICS	3
	Computer Science (CS) Upper-Division Elective (40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Eight		
	CS 48102	GAME DEVELOPMENT PRACTICUM (ELR) (WIC)	4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		2
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

Robotics and Embedded Systems Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	CS 13001 or CS 13011 *and* CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING *and* COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	General Elective		2
		Credit Hours	**15**
	Semester Two		
!	CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
!	CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
	MATH 12013	BRIEF CALCULUS II	3
	MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
!	CS 33211	OPERATING SYSTEMS	3
	CS 33301	EMBEDDED SYSTEM PROGRAMMING	3
!	CS 35101	COMPUTER ORGANIZATION	3
	MATH 21002	APPLIED LINEAR ALGEBRA	3
	Foreign Language		4
		Credit Hours	**16**
	Semester Four		
!	CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	3
!	CS 35201	COMPUTER COMMUNICATION NETWORKS	3
!	CS 44001	COMPUTER SCIENCE III - PROGRAMMING PATTERNS	4
	Foreign Language		4
		Credit Hours	**14**
	Semester Five		
!	CS 33901	SOFTWARE ENGINEERING	3
!	CS 46101	DESIGN AND ANALYSIS OF ALGORITHMS	3
	Concentration Elective		3
	Science Elective		3

	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	CS 32301	HUMAN INTERFACE COMPUTING	3
!	CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	3
	CS 33302	INTRODUCTION TO INTELLIGENT ROBOTICS	3
	Science Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Seven		
	CS 43302 or CS 43303 or CS 43334	ALGORITHMIC ROBOTICS or INTERNET OF THINGS or HUMAN-ROBOT INTERACTION	3
	Concentration Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Eight		
	CS 49999	CAPSTONE PROJECT (ELR) (WIC)	4
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		4
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Apply computer science theory and software development fundamentals to produce computing-based solutions.

The educational objectives of the program are the following:

1. To have successful careers, constructed with sound ethical judgments and professional skills acquired in the program, while designing computing solutions and systems by applying principles of computing in areas such as software, hardware, network, data and algorithmic design.
2. To enjoy continued professional growth and advancement in the fast-evolving fields of computer science, built on the academic foundation and professional skills acquired in the program.
3. To become a lifelong learner staying abreast of emerging technologies, obtaining new skills and developing proficiencies with new software, networking and computing tools.
4. In addition to building a successful career, to also strive to be an impactful and contributing member of the global innovation ecosystem by applying the knowledge and skills of computer science, coupled with a well-rounded liberal education, and to practice ethical, legal and responsible computing, as acquired by the program, toward building a better and more inclusive world.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Computer Science seeks to prepare students for careers as computing professionals, developing, managing and building software in a variety of industries, including finance, health care, entertainment, telecommunications and manufacturing. The U.S. Bureau of Labor Statistics lists the following as top occupation choices for computer science majors: computer network architect; software developer; information security analyst; database administrator; computer systems analyst; computer programmer; and network and computer systems administrator.

The Computer Science major includes the following optional concentrations:

- The **Cybersecurity** concentration prepares students to meet the security needs of industry and government through coursework that provides a thorough understanding of security, privacy and cryptographic techniques and protocols used in computing and communication.
- The **Data Engineering** concentration prepares students to perform the data analysis and modeling needed by organizations and to process structured, semi-structured and unstructured data using statistical and semantic analysis techniques to meet their employers' needs.
- The **Game Programming** concentration provides students with a solid understanding of the algorithms, techniques and software used to construct interactive virtual environments. Students work in teams with content specialists and artists to develop the teamwork skills required in this multidisciplinary field, which includes a range of opportunities, from the game industry to education to training design.
- The **Robotics and Embedded Systems** concentration prepares students to work with devices that combine hardware and software. Such devices include robots and most high tech mechanical devices like cars, planes, farm equipment and construction equipment.

Students may declare the program with no concentration and develop a plan of study to meet their educational and career goals.

Computer Science students may apply early to the M.S. degree in Computer Science and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Computer Science - M.A.

College of Arts and Sciences
Department of Computer Science
www.kent.edu/cs

Program revisions are pending approval from the Ohio Department of Higher Education. After final approval, the program revisions will display.

About This Program

The Master of Arts degree in Computer Science enables students with a bachelor's degree in any area to enter the many fields that require both computer science skills and skills gained in a student's prior studies. The program requires no prior computer science training and covers a breadth of knowledge in advance computer science topics that can also be used to solve problems in the field of the student's bachelor's degree.

Contact Information

- **Hassan Peyravi** | gradinfo@cs.kent.edu | 330-672-9047
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the M.A. in Computer Science are not being accepted starting with the spring 2026 admission term.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.A. in Computer Science are not being accepted starting with the spring 2026 admission term.

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Successful completion of high-level algebra, geometry and calculus coursework (equivalent to MATH 12002, MATH 12003, MATH 21001)[1]
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] Applicants are strongly recommended to have completed successfully coursework in programming, data structures and discrete structures, (equivalent to CS 13001, CS 23001, CS 23022).

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: June 15
- **Spring Semester**
  - Application deadline: November 1
- **Summer Term**
  - Application deadline: April 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CS 61002	ALGORITHMS AND PROGRAMMING I	4
CS 61003	ALGORITHMS AND PROGRAMMING II	4
CS 61004	OPERATING SYSTEMS AND ARCHITECTURE	4
CS 69098	RESEARCH [1]	3
CS 69191	MASTER'S SEMINAR	2
Computer Science (CS) Electives [2]		15
Minimum Total Credit Hours:		**32**

[1] Students enroll in CS 69098 under the direction of a graduate faculty member and develop a master's project. A master's project committee must be formed that includes the advisor and at least two other graduate faculty members. The committee and project topic must be approved by the graduate coordinator. The student must present and defend the project before the committee.

[2] Maximum 12 credit hours of courses at the 50000 level may be applied toward the degree. Maximum 6 credit hours of 60000 level project-related course work outside computer science -that are approved by the student's advisor and may count towards the degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate breadth-of-knowledge and understanding of essential facts, concepts, principles and theories relating to advanced topics in computer science.
2. Conduct literature searches, comprehend advanced research materials and uncover connections between related work and critical evaluation and synthesis.
3. Perform research, discovery and integration by applying advanced knowledge of computer science.

Computer Science - M.S.

College of Arts and Sciences
Department of Computer Science
www.kent.edu/cs

About This Program

The Master of Science in Computer Science program provides a comprehensive curriculum that covers a wide range of computer science topics, including software engineering, data science and cybersecurity. With a focus on research and real-world experience, you will be well prepared to tackle complex tech challenges and advance your career. Read more...

Contact Information

- **Hassan Peyravi** | gradinfo@cs.kent.edu | 330-672-9047
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Successful completion of high-level algebra, geometry and calculus coursework (equivalent to MATH 12002, MATH 12003 and MATH 21001)[1]
- Official transcript(s)
- GRE scores
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] Applicants are strongly recommended to have completed coursework in computer science, including programming, data structures, abstraction, operating systems, combinatorial analysis and discrete structures (equivalent to CS 13001, CS 23001, CS 23022, CS 33211, CS 35101 and CS 46101). Highly qualified students lacking preparation in certain standard areas may be admitted.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: June 15
- **Spring Semester**
  - Application deadline: November 1
- **Summer Term**
  - Application deadline: April 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CS 69191	MASTER'S SEMINAR	2
Core Courses, choose one course each from four out of the five categories: [1]		12
Computational Data Science Category		
See courses under Computational Data Science concentration		
Computer Engineering Category		
See courses under Computer Engineering concentration		
Computer Security Category		
See courses under Computer Security concentration		
Software and Application Category		
CS 63005	ADVANCED DATABASE SYSTEMS DESIGN	
CS 63100	COMPUTATIONAL HEALTH INFORMATICS	
CS 63901	SOFTWARE ENGINEERING METHODOLOGIES	
CS 63902	SOFTWARE EVOLUTION	
CS 64401	IMAGE PROCESSING	
CS 64402	MULTIMEDIA SYSTEMS AND BIOMETRICS	
CS 67101	ADVANCED COMPUTER GRAPHICS	
CS 67301	SCIENTIFIC VISUALIZATION	
CS 67302	INFORMATION VISUALIZATION	
Theory and Algorithms Category		
CS 63301	PARALLEL AND DISTRIBUTED COMPUTING	
CS 64201	ADVANCED ARTIFICIAL INTELLIGENCE	
CS 66101	ADVANCED TOPICS IN ALGORITHMS	
CS 66105	PARALLEL AND DISTRIBUTED ALGORITHMS	
CS 66110	COMPUTATIONAL GEOMETRY	
Culminating Requirement		
Choose from the following:		6
Thesis Option		
CS 69199	THESIS I [2]	
Project Option		
CS 69099	CAPSTONE PROJECT	
Choose from the following:		
CS 69192	GRADUATE INTERNSHIP	
CS 69995	SPECIAL TOPICS IN COMPUTER SCIENCE	
Computer Science (CS) Graduate course (50000 or 60000 level) with advisor approval		
Additional Requirements or Concentrations		
Choose from the following:		12
Additional Requirements for Students Not Declaring a Concentration		
Computational Data Science Concentration		
Computer Engineering Concentration		
Computer Security Concentration		
Minimum Total Credit Hours:		**32**

[1] Courses taken for the core cannot be counted again as an elective or concentration course. The list of courses offered each semester, including department-approved special topics, is available in the department's graduate office.

[2] Students selecting the thesis option must form a master's thesis committee, which will include the advisor and at least two other graduate faculty members. The thesis topic and committee must be approved by the advisor and graduate coordinator. The final version of the thesis must be approved by the advisor, thesis committee and graduate coordinator.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements		
Computer Science (CS) Electives		12
Minimum Total Credit Hours:		**12**

Computational Data Science Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		12
CS 54001	COMPUTER SCIENCE III - PROGRAMMING PATTERNS	
CS 54201	ARTIFICIAL INTELLIGENCE	
CS 54202	MACHINE LEARNING AND DEEP LEARNING	
CS 63005	ADVANCED DATABASE SYSTEMS DESIGN	
CS 63015	DATA MINING TECHNIQUES	
CS 63016	BIG DATA ANALYTICS	
CS 63017	BIG DATA MANAGEMENT	
CS 63018	PROBABILISTIC DATA MANAGEMENT	
Minimum Total Credit Hours:		**12**

Computer Engineering Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		12
CS 53301	SOFTWARE DEVELOPMENT FOR ROBOTICS	
CS 53302	ALGORITHMIC ROBOTICS	
CS 53303	INTERNET OF THINGS	
CS 53305	ADVANCED DIGITAL DESIGN	
CS 53334	HUMAN-ROBOT INTERACTION	
CS 63201	ADVANCED OPERATING SYSTEMS	
CS 63304	CLUSTER COMPUTING	
CS 63305	MULTICORE COMPUTING	

CS 63306	EMBEDDED COMPUTING	
CS 65101	ADVANCED COMPUTER ARCHITECTURE	
CS 65202	ADVANCED COMMUNICATION NETWORKS	
CS 65203	WIRELESS AND MOBILE COMMUNICATION NETWORKS	
Minimum Total Credit Hours:		**12**

Computer Security Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		12
CS 53202	SYSTEMS ADMINISTRATION	
CS 53203	SYSTEMS PROGRAMMING	
CS 55203	COMPUTER NETWORK SECURITY	
CS 57205	INFORMATION SECURITY	
CS 57206	DATA SECURITY AND PRIVACY	
CS 57207	DIGITAL FORENSICS	
CS 57221	INTRODUCTION TO CRYPTOLOGY	
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Maximum 12 credit hours of 50000-level courses may be applied toward the degree.
- CS 61002, CS 61003 and CS 61004 may not be used to fulfill degree requirements.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate breadth-of-knowledge and understanding of essential facts, concepts, principles and theories relating to advanced topics in computer science.
2. Conduct literature searches, comprehend advanced research materials and uncover connections between related work and critical evaluation and synthesis.
3. Perform research, discovery and integration by applying advanced knowledge of computer science.

Full Description

The Master of Science degree in Computer Science provides students with an educational and research environment to develop career paths through necessary training with emerging technologies. Graduates have the technical knowledge and skills necessary for success within the information and high technology industries.

The M.S. degree in Computer Science has two culminating options: thesis or non-thesis. Students planning to pursue a Ph.D. degree an/or academic research should select the thesis option. Students planning to pursue applied research and development in industry may select the non-thesis option. The thesis option requires original research and a written thesis. The non-thesis option requires a capstone project and an optional industrial internship.

The Computer Science major includes the following optional concentrations:

- The **Computational Data Science** concentration prepares students to process big data. In a spectrum of real-world applications, the collected data (from such sources as mobile devices, GPS, sensor/RFID networks, Internet, social media, etc.) is so large and complex, the traditional data processing tools cannot efficiently and effectively handle it. This concentration focuses on algorithms development, machine learning, computation techniques, network and computing infrastructure and software.
- The **Computer Engineering** concentration prepares students to meet the need of computer engineering professionals in the industry for designing and managing emerging smart devices and computer-integrated physical systems with programmable intelligence. Students learn the hardware-software co-design principles and theory, architecture of the associated software and hardware, devices and sensors communication protocols and the interfaces to effectively design, build and evolve such smart devices and computer-driven intelligent physical systems.
- The **Computer Security** concentration exposes students to a wide range of topics on the security of computer systems. Students study the vulnerabilities in software and networks and develop algorithms and software to protect data, using digital encryption coding, protected databases and protected computer networking techniques.

Students opting to not pursue a concentration will create a 12-credit hour individualized plan of study with their advisor.

Computer Science - Minor

College of Arts and Sciences
Department of Computer Science
www.kent.edu/cs

About This Program

The Computer Science minor provides a foundation in computer science, which may be invaluable to students in any field, from the natural and social sciences to humanities and business, allowing them to work with substantial computing and cyber systems. The minor has been designed so that students from any discipline can complement their major, ensuring they will be able to competitively manage the computing and cyber aspects of their professions.

Contact Information

- **Feodor F. Dragan** and **Augustine Samba** | ugradinfo@cs.kent.edu | 330-672-9120
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person

- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Prerequisites		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
Minor Requirements		
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
or CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
Upper-Division Electives (30000 or 40000 level) [1]		9
Minimum Total Credit Hours:		**20**

[1] This course can be taken 1-3 credits. Maximum 3 credit hours of CS 33192 may fulfill the elective requirement. These courses can be aligned with the student's professional interests.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Computer Science - Ph.D.

College of Arts and Sciences
Department of Computer Science

www.kent.edu/cs

About This Program

The Ph.D. degree in Computer Science provides students with an educational and research environment that fosters personal and intellectual growth, flourishes academic goals and develops career paths through necessary training with emerging technologies. The program promotes research, discovery and integration, and is designed for students interested in becoming professional scholars, college and university professors or researchers in private, industrial or government research institutions.

Contact Information

- **Hassan Peyravi** | gradinfo@cs.kent.edu | 330-672-9047
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher in computer science (or closely related field) from an accredited college or university[1]
- Minimum 3.000 GPA on a 4.000-point scale
- Official transcript(s)
- GRE scores
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] Students whose records clearly indicate a potential to do doctoral-level work in computer science may be directly admitted and must fulfill the requirements of both the master's and doctorate degrees.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: June 15
- **Spring Semester**
  - Application deadline: November 1
- **Summer Term**
  - Application deadline: April 1

Applications submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Computer Science Electives (CS 70000 level) [1]		27-57
CS 89191	DOCTORAL SEMINAR [2]	3
Culminating Requirement		
CS 89199	DISSERTATION I [3]	30
Minimum Total Credit Hours for Post-Baccalaureate Students		**90**
Minimum Total Credit Hours for Post-Master's Students		**60**

1. Maximum 9 credit hours of CS 89098 or CS 89991 may be applied towards the degree.
2. Students must make a public presentation of project and/or research work (excluding dissertation defense and candidacy examination) at least two times before graduation. The presentation must take place in the doctoral seminar at least one full term before graduation and not more than two years after entering the program. The doctoral seminar is offered for 1 or 2 credit hours; therefore, the student must enroll in this course at least two times. This course can be taken multiple times but only 3 credit hours count toward the degree.
3. Each doctoral candidate, upon admission to candidacy, must register for CS 89199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter CS 89299, each semester, until all requirements for the degree have been met. A dissertation describes original research performed by the student. The dissertation topic must be approved by the advisor and graduate coordinator. A dissertation committee, made up of graduate faculty, must be formed to assess the quality and value of the work. A public dissertation defense is made by the student. The final dissertation and defense must be approved by the advisor and dissertation committee.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Proficiency Requirements and Candidacy

Students must clear core area proficiency requirements. Students admitted after completing a master's of computer science degree must take the Prelims examination within the first two semesters. Other students, including directly-admitted Ph.D. students, must take the Prelims examination within the first three semesters

The candidacy examination is a comprehensive examination in the field of the major subject. The format of the candidacy examination will be determined by the student's Candidacy Examination Committee, which is composed of the student's advisor and two other graduate faculty members. The Candidacy Examination Committee must be approved by the graduate coordinator. The student must complete the candidacy examination at least one year before the dissertation defense.

Program Learning Outcomes

Graduates of this program will be able to:

1. Have all around breadth-of-knowledge and understanding of essential facts, concepts, principles and theories relating to advanced topics in computer science to be regarded as a scholar of computer science.
2. Demonstrate depth of knowledge at least in one specialized topic.
3. Conduct independent research by advancing the body of knowledge in the area through the doctoral dissertation research.
4. Clearly articulate advanced research problems and their solutions.
5. Present general computer science topics in a learning environment.
6. Develop and write publishable papers that clearly articulate advanced research problems and their solutions.
7. Demonstrate integrative and deep knowledge of essential literature, facts, concepts, principles and theories relating to a chosen area of research.
8. Perform complete and thorough literature searches.
9. Evaluate, comprehensively and critically, the extent to which a particular work relates to and/or contributes to a given field.
10. Publish and participate in a chosen research community.

Computers and Geosciences - Minor

College of Arts and Sciences
Department of Computer Science
www.kent.edu/cs

About This Program

The Computers and Geosciences minor provides a foundation in computer science and computational data processing for students in any field of geosciences, allowing students to work with substantial computing- and data science-oriented cyber systems. The minor enables students to competitively manage the computing and cyber aspects of their professions.

Students in the minor use Python programming language to import, clean, analyze, visualize and learn data from their real-world applications.

Contact Information

- **Feodor F. Dragan** and **Augustine Samba** | ugradinfo@cs.kent.edu | 330-672-9120
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Prerequisites		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
Minor Requirements		
CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	4
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	4
CS 20062	ADVANCED PROGRAMMING WITH PYTHON	4
CS 30062	PYTHON FOR DATA SCIENCE	3
ESCI 42030	REMOTE SENSING [1]	3
or ESCI 42060	EARTH OBSERVING	
or GEOG 49230	REMOTE SENSING	
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
Minimum Total Credit Hours:		**22**

[1] Students may seek an approved substitute to ESCI 42030 or GEOG 49230 in the same department.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the essential facts, concepts, principles and theories related to computer science and data science.
2. Understand Python programming basics and data structures in Python.
3. Solve practical problems over real-world data using Python (e.g., data collection, cleaning, manipulation, visualization and machine learning).
4. Apply hands-on experience in Python projects for scientific data processing.
5. Collaborate with other team members in groups to complete scientific data processing projects.

Cybersecurity Foundations - Minor

College of Arts and Sciences
Department of Computer Science
www.kent.edu/cs

About This Program

The Cybersecurity Foundations minor provides students with a comprehensive understanding of cybersecurity concepts and practices. With the increasing demand for cybersecurity professionals across industries, this minor is a great way to supplement your degree and enhance your career prospects. Read more...

Contact Information

- **Feodor F. Dragan** and **Augustine Samba** | ugradinfo@cs.kent.edu | 330-672-9120
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Prerequisites		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
Minor Requirements		
C++ or Python Foundation Track, choose from the following:		11-12
C++ Track		
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
or CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	
Python Track		
CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	
CS 20062	ADVANCED PROGRAMMING WITH PYTHON	
Minor Electives, choose from the following: [1]		9
CRIM 46803	INFORMATION AND CYBER SECURITY	
CS 32301	HUMAN INTERFACE COMPUTING	
CS 33211	OPERATING SYSTEMS	
CS 35101	COMPUTER ORGANIZATION	
CS 35201	COMPUTER COMMUNICATION NETWORKS	

CS 43203	SYSTEMS PROGRAMMING
CS 43401	SECURE PROGRAMMING
CS 45203	COMPUTER NETWORK SECURITY
CS 47205	INFORMATION SECURITY
CS 47206	DATA SECURITY AND PRIVACY
CS 47207	DIGITAL FORENSICS
CS 47221	INTRODUCTION TO CRYPTOLOGY
Minimum Total Credit Hours:	**20**

[1] The following minor electives are recommended for students interested in the below focus areas:

- Connection security and component security: CS 33211, CS 35101, CS 35201, CS 45203, CS 47221
- Data security: CS 32301, CS 47205, CS 47206, CS 47207, CS 47221
- Human security and societal security: CRIM 46803, CS 32301, CS 47206, CS 47207
- Software security: CS 33211, CS 35101, CS 43203, CS 43401, CS 47207
- System security: CS 32301, CS 33211, CS 35101, CS 43203, CS 47221

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the essential facts, concepts, principles and theories related to computer science and cybersecurity.
2. Understand Python or C++ programming basics and data structures in Python or C++.
3. Understand the security, privacy and cryptographic techniques and protocols used in computing and information encryption and processing.
4. Understand the development of software with security and potential vulnerabilities in mind, the security aspects of systems that are composed of components and connections and use software.
5. Apply hands-on experience in programming projects for secure scientific data processing.
6. Collaborate with other team members in groups to complete secure scientific data processing projects.

Full Description

The Cybersecurity Foundations minor provides a foundation in computer science and cybersecurity for students in any field — from the natural sciences to social sciences, technology and business — allowing students to work with substantial computing and data-oriented cyber systems. The minor enables students to competitively manage the computing and cybersecurity aspects of their professions and prepares them to meet the cybersecurity needs of industry and government.

Courses in the Cybersecurity Foundations minor provide a thorough understanding of security, privacy and cryptographic techniques and protocols used in computing, communication and data encryption and processing. Students learn programming, data structures and algorithms through either C++ or Python programming language. Python is appropriate for all students, while C++ is more appropriate for students in the natural sciences majors. After these foundational courses, students select electives in such areas as data security, software security, connection security, component security, system security, human security and societal security.

Data Science - M.S.

College of Arts and Sciences
Department of Computer Science
Department of Mathematical Sciences
www.kent.edu/cs

About This Program

The Data Science M.S. program provides you with the theoretical knowledge and practical experience needed to succeed in today's data-driven world. With hands-on learning opportunities, experienced faculty and cutting-edge technology, you will be prepared to solve complex data challenges and make an impact in your field. Read more...

Contact Information

- **Hassan Peyravi** | gradinfo@cs.kent.edu | 330-672-9047
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Computer and information research scientists

- 15.4% much faster than the average
- 32,700 number of jobs
- $126,830 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

Computer and information systems managers

- 10.4% much faster than the average
- 461,000 number of jobs
- $151,150 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Database administrators and architects

- 9.7% much faster than the average
- 132,500 number of jobs
- $98,860 potential earnings

Computer programmers

- -9.4% decline
- 213,900 number of jobs
- $89,190 potential earnings

Software developers and software quality assurance analysts and testers

- 21.5% much faster than the average
- 1,469,200 number of jobs
- $110,140 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Prerequisite mathematics and computer science courses[1]
- Official transcript(s)
- GRE scores
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] Students entering the program are expected to have previously completed courses in linear algebra (equivalent to MATH 21001 or MATH 21002), statistics (equivalent to MATH 20011), advanced calculus (equivalent to MATH 22005), discrete mathematics/structures (equivalent to MATH 31011 or CS 23022), programming and data structures (equivalent to CS 23001) and database systems (equivalent to CS 33007). Applicants have not completed all the prerequisite courses may be admitted conditionally (based on a holistic review of their application) until they complete the remaining courses being before beginning the program's coursework.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: June 15
- **Spring Semester**
  - Application deadline: November 1
- **Summer Term**
  - Application deadline: April 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CS 63005	ADVANCED DATABASE SYSTEMS DESIGN	3
CS 63015	DATA MINING TECHNIQUES	3
CS 63016	BIG DATA ANALYTICS	3
MATH 50015	APPLIED STATISTICS	3
MATH 50024	COMPUTATIONAL STATISTICS	3
MATH 50028	STATISTICAL LEARNING	3
Major Electives, choose from the following: [1]		6
BSCI 60104	BIOLOGICAL STATISTICS	
CS 54201	ARTIFICIAL INTELLIGENCE	
CS 57206	DATA SECURITY AND PRIVACY	
CS 63017	BIG DATA MANAGEMENT	
CS 63018	PROBABILISTIC DATA MANAGEMENT	
CS 63100	COMPUTATIONAL HEALTH INFORMATICS	
CS 64201	ADVANCED ARTIFICIAL INTELLIGENCE	
CS 64402	MULTIMEDIA SYSTEMS AND BIOMETRICS	
CS 67302	INFORMATION VISUALIZATION	
CS 69098	RESEARCH	
or MATH 67098	RESEARCH	
ECON 62054	ECONOMETRICS I	
ECON 62055	ECONOMETRICS II	
ECON 62056	TIME SERIES ANALYSIS	
EHS 62018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	
EPI 62017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY	
EPI 63016	PRINCIPLES OF EPIDEMIOLOGIC RESEARCH	

EPI 63019	EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH	
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
HI 60401	HEALTH INFORMATICS MANAGEMENT	
HI 60411	CLINICAL ANALYTICS	
HI 60414	HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS	
HI 60418	CLINICAL ANALYTICS II	
KM 60301	FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT	
LIS 60020	INFORMATION ORGANIZATION	
MATH 50011	PROBABILITY THEORY AND APPLICATIONS	
MATH 50051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	
MATH 50059	STOCHASTIC ACTUARIAL MODELS	
PSYC 61651	QUANTITATIVE STATISTICAL ANALYSIS I	
PSYC 61654	QUANTITATIVE STATISTICAL ANALYSIS II	
Culminating Requirement		
Choose from the following:		6
Thesis Option		
DATA 69199	THESIS I	
Project and Internship Option		
DATA 69099	CAPSTONE PROJECT	
DATA 69192	GRADUATE INTERNSHIP	
Project and Course Option		
DATA 69099	CAPSTONE PROJECT	
Approved Graduate course (50000 level or higher)		
Minimum Total Credit Hours:		**30**

[1] With graduate coordinator approval, students may substitute a relevant graduate-level course (50000 or 60000 level) in either Computer Science (CS) or Mathematics (MATH).

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Culminating Experience

The culminating experience requirement is a master's thesis or an integrated learning experience.

The master's thesis requires a written thesis, a public defense of the thesis and approval by the student's supervisory committee. Students must form a master's thesis committee, which will include the advisor and at least two other graduate faculty members. The thesis topic and committee must be approved by the advisor and graduate coordinator. The final version of the thesis must be approved by the advisor, thesis committee and graduate coordinator.

The integrated learning experience may include a substantial capstone project or a capstone project and internship. Students must prepare a written document explaining and/or demonstrating their capstone project or internship activity and its significance. In addition, students must give a public presentation of their capstone project or internship, and the written document and presentation must be approved by their supervisory committee.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
CS 63005	ADVANCED DATABASE SYSTEMS DESIGN	3
MATH 50015	APPLIED STATISTICS	3
Major Elective		3
	Credit Hours	**9**
Semester Two		
CS 63015	DATA MINING TECHNIQUES	3
MATH 50024	COMPUTATIONAL STATISTICS	3
MATH 50028	STATISTICAL LEARNING	3
	Credit Hours	**9**
Semester Three		
CS 63016	BIG DATA ANALYTICS	3
Major Elective		3
Culminating Requirement		3
	Credit Hours	**9**
Semester Four		
Culminating Requirement		3
	Credit Hours	**3**
	Minimum Total Credit Hours:	**30**

Program Learning Outcomes

Graduates of this program will be able to:

1. Ask the questions so that problems in a particular business or industrial situation become clear.
2. Determine if the problem may be addressed with data science methods and tools, and if yes, propose potential methods for solving the problems.
3. Make suggestions for how data science may be used to enhance the quality and value of currently existing products (whether the products are physical or methods) and how data science may be used in the development of new products.

Full Description

The Master of Science degree in Data Science provides a focus on developing scientists who will understand the theories, methods and tools of data science and apply data science to solving research and workplace questions in the natural, health and social sciences for businesses and industries.

Data science is a STEM discipline founded on the principles of mathematics and the sciences and developed through a synthesis of mathematics and computer science. One may think of data science as a blending together of methods and ideas from analysis, statistics, databases, big data, artificial intelligence, numerical analysis, graph

theory and visualization for the purposes of finding information in data and applying that information to solving real-world problems.

Game Programming - Minor

College of Arts and Sciences
Department of Computer Science
www.kent.edu/cs

About This Program

Level up your skills with the Game Programming minor. Gain expertise in game design, development and programming while learning from experienced faculty and using industry-standard tools. This minor is a perfect complement to a major in computer science, digital media production and many more. Read more...

Contact Information

- **Feodor F. Dragan** and **Augustine Samba** | ugradinfo@cs.kent.edu | 330-672-9120
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Prerequisite		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
Minor Requirements		
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
or CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
CS 38101	INTRODUCTION TO GAME PROGRAMMING	3
Minor Upper-Division Electives (30000 or 40000 level), choose from the following:		6
AGD 33010	COMPETITIVE GAMING	
AGD 33030	GAMES FOR IMPACT	
CS 47101	COMPUTER GRAPHICS	
CS 48101	GAME ENGINE CONCEPTS	
CS 48102	GAME DEVELOPMENT PRACTICUM (ELR) (WIC)	
SPAD 45022	EVENT PLANNING AND PRODUCTION	
SPAD 45034	ESPORT MANAGEMENT	
Minimum Total Credit Hours:		**20**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the essential concepts, principles and theories related to computer science and game programming.
2. Understand game programming basics and data structures in C# and C++.
3. Understand game design and development using game engines.
4. Obtain industry-ready game programming skills though hands-on projects.
5. Collaborate with other team members in groups to complete game development projects.

Full Description

The Game Programming minor prepares students for a career in interactive game entertainment. Students explore a variety of game programming components, including the theoretical concepts (2D/3D graphics, game engines, artificial intelligence, physics and user interface) and practical programming skills using computer programming languages (C, C++ and C#).

The Game Programming minor features elective courses across disciplines and an interdisciplinary capstone that is a team-based game development project to procure knowledge and acquire practical skills pertaining to game development after having completed all the core courses.

Students in the Game Programming minor write and debug code to develop games. Students interested more in applying design concepts and using design tools should view the Game Design minor.

Web Programming - Minor

College of Arts and Sciences
Department of Computer Science
www.kent.edu/cs

About This Program

The Web Programming minor provides students with a foundation in web development. The minor is for students in any field — from the natural

sciences to social sciences and humanities — allowing them to work with substantial computing and Internet-oriented cyber systems.

The Web Programming minor allows students to acquire skills and theoretical foundations needed to create web-related quality software and gain experience with full-stack development.

Please see the "Web Design & Development" minor offered by the School of Emerging Media & Technology for a distinct program minor with greater emphasis on design and front-end development.

Contact Information

- **Feodor F. Dragan** and **Angela Guercio** | ugradinfo@cs.kent.edu | 330-672-9120
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Prerequisites		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
Minor Requirements		
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
or CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	3
CS 44105	WEB PROGRAMMING I	3
CS 44106	WEB PROGRAMMING II	3
Minimum Total Credit Hours:		**20**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the essential facts, concepts, principles and theories related to computer science and web programming with data bases.
2. Apply computer science concepts to solve computer and web-related problems.
3. Design and create web-related quality software by gaining experience with full stack development.
4. Make succinct oral presentations and written expositions about technical problems and their solutions.
5. Work effectively as a member of a web-software development team.

Department of Earth Sciences

College of Arts and Sciences
Department of Earth Sciences
221 McGilvrey Hall
Kent Campus
330-672-2680
geology@kent.edu
www.kent.edu/earth-sciences

Undergraduate Programs

- Earth Science - B.A.
- Geology - B.A.
- Geology - B.S.

Minors

- Geology
- Earth Science
- Environmental Geology
- Paleontology

Graduate Programs

- Applied Geology - Ph.D.
- Geology - M.S.

Department of Earth Sciences Faculty

- Clement, Susanne M. (1995), Professor, Ph.D., Kent State University, 2005
- Gallagher, Timothy M. (2020), Assistant Professor, Ph.D., University of Michigan, 2016

- Hacker, David B. (1989), Professor, Ph.D., Kent State University, 1998
- Holm, Daniel K. (1992), Professor, Ph.D., Harvard University, 1992
- Ortiz, Joseph D. (2001), Professor, Ph.D., Oregon State University, 1995
- Schweitzer, Carrie E. (1994), Professor, Ph.D., Kent State University, 2000
- Singer, David M. (2012), Associate Professor, Ph.D., Stanford University, 2008
- Singh, Kuldeep (2017), Assistant Professor, Ph.D., University of Texas at Austin, 2013
- Smith, Alison J. (1990), Professor, Ph.D., Brown University, 1991
- Taylor, Eric S. (2012), Professor, Ph.D., The Ohio State University, 2012
- Tessin, Allyson (2020), Assistant Professor, Ph.D, University of Michigan-Ann Arbor, 2016
- Wagner, Courtney L. (2024), Assistant Professor, Ph.D., University Of Utah, 2021
- Wells, Neil A. (1984), Professor, Ph.D., University of Michigan-Ann Arbor, 1984

Earth Science (ESCI)

ESCI 11040 HOW THE EARTH WORKS (KBS) 3 Credit Hours
Explores processes that shape Earth's landscapes (e.g., volcanism, flooding, landslides, sea-level rise, mountain building) and that are of vital interest to humans (e.g., earthquakes, groundwater, energy and mineral resources, climate change).
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

ESCI 11041 HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) 1 Credit Hour
Students study earth materials (e.g., mineral crystals, common and unusual rock specimens) and Google Earth images. Students conduct experiments demonstrating processes at earth's surface such as groundwater pollution, flooding and earthquakes.
Pre/corequisite: ESCI 11040.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences, TAG Natural Science Lab

ESCI 11042 EARTH AND LIFE THROUGH TIME (KBS) 3 Credit Hours
Explores major events in the history of Earth, including mass extinctions, Snowball Earth hypothesis, birth and death of oceans, growth of continents, explosion of life, dinosaurs and the inter-relatedness of earth and life processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

ESCI 11043 EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB) 1 Credit Hour
Students conduct lab experiments involving fossils, rocks and sedimentary features, a river process simulator and the concept of deep time.
Pre/corequisite: ESCI 11042.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences, TAG Natural Science Lab

ESCI 21062 ENVIRONMENTAL EARTH SCIENCE (KBS) 3 Credit Hours
Application of Earth science to environmental problems, including natural resource extraction, water supply, pollution, waste disposal, landslides, floods and land use planning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

ESCI 21080 ALL ABOUT THE OCEANS (KBS) 3 Credit Hours
Explores the many fascinating (and some still little known) features and processes of the Earth's oceans, including mid-ocean ridges, hydrothermal vents, tsunamis, tides, rogue waves, marine life and the role of the ocean in climate change.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

ESCI 22000 DEGREE AND CAREER PATHS IN EARTH SCIENCES (ELR) 1 Credit Hour
Provides students with an overview of career paths and opportunities in the Geology and Earth Science majors. Components of the course include a journal club; informational presentations by geoscientists in industry, government and academia; and skills training needed for the majors. Required overnight field trip.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ESCI 23063 EARTH MATERIALS I 4 Credit Hours
Occurrence, associations, characteristics, crystallography and crystal chemistry of common minerals. Laboratory identification emphasizing physical properties. Required field trip.
Prerequisite: ESCI 11041 or ESCI 11043.
Pre/corequisite: CHEM 10060.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Science

ESCI 31070 EARTH MATERIALS II (WIC) 4 Credit Hours
Occurrence and origin of igneous, sedimentary and metamorphic rocks. Laboratory identification, description and classification of hand specimens. Required field trip.
Prerequisite: ESCI 23063.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ESCI 31080 STRUCTURAL GEOLOGY 4 Credit Hours
Mechanical principles of rock deformation. Structures in sedimentary igneous and metamorphic rocks. Required field trip.
Prerequisite: ESCI 11041 or ESCI 11043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 32066 GEOMORPHOLOGY 4 Credit Hours
Earth's surface features as functions of geological structures, processes and time. Landform analysis using topographic maps and some stereographic aerial photos. Trigonometry recommended.
Prerequisite: ESCI 11041 or ESCI 11043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 33025 WATER AND THE ENVIRONMENT 3 Credit Hours
How water moves on the surface and in the subsurface, with an emphasis on societal issues such as pollution, the conservation and management of water resources, and the impacts of environmental change.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 34061 PRINCIPLES OF PALEONTOLOGY 4 Credit Hours
Concepts applied to study of commonly preserved invertebrate organisms; identification of common North American fossils. Required field trip.
Prerequisite: BSCI 10002 or BSCI 10110 or ESCI 11043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 40095 SELECTED TOPICS IN EARTH SCIENCES 1-3 Credit Hours
(Slashed with ESCI 50095) (Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ESCI 40096 INDIVIDUAL INVESTIGATION IN EARTH SCIENCES 1-3 Credit Hours
(Repeatable for credit) Directed field, laboratory and/or library research. Written report required. Maximum 3 credit hours applied toward bachelor's degree.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ESCI 40380 BIOGEOCHEMISTRY 3 Credit Hours
(Cross-listed with BSCI 40380)(Slashed with BSCI 50380, BSCI 70380 and ESCI 50380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Minimum C grade in the following courses: (BSCI 10110 and BSCI 10120) or (ESCI 11041 or ESCI 11043); and CHEM 10060 and CHEM 10062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41025 GENERAL GEOPHYSICS 3 Credit Hours
(Slashed with ESCI 51025) Course explores how di#erent geophysical signals are generated by, or propagate through, the Earth, and how geophysical data is collected, processed and interpreted in order to answer questions about the Earth’s interior. Techniques covered include seismic reflection, seismic refraction, gravity and magnetism. Strong emphasis on worked examples and case studies.
Prerequisite: ESCI 31080 and MATH 12002; and PHY 13001 or PHY 23101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41073 GEOLOGY OF OHIO 3 Credit Hours
(Slashed with ESCI 51073) Minerals, rocks, fossils, structural geology, physiography, environmental geology and geologic resources. Required field trips. Does not count toward the Geology major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41077 GEOLOGY OF THE NATIONAL PARKS 3 Credit Hours
(Slashed with ESCI 51077) Introduction to the geology of selected major national parks, emphasizing basic geological principles and the processes that have produced the spectacular scenery, rocks and fossils in each park. Does not count toward the Geology major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41079 ALL ABOUT DINOSAURS 3 Credit Hours
Dinosaurs (and some relatives) and their world, emphasizing how to interpret evidence concerning their history, biology and evolutionary relationships. Does not count toward the Geology major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41080 TECTONICS AND OROGENY 3 Credit Hours
(Slashed with ESCI 51080) This course examines the forces that drive plate motions and mountain building, techniques for reconstructing those motions over a range of timescales, and how the lithosphere deforms and drives rock creation and destruction at plate boundaries, particularly in the Western United States and the Appalachians. Required field trip to the Appalachians.
Prerequisite: ESCI 31080.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41085 MASS EXTINCTIONS: CAUSES AND CONSEQUENCES 3 Credit Hours
Investigation of the causes and consequences of extinction in marine and terrestrial ecosystems using paleontological, geochemical, sedimentological and stratigraphical information; emphasizing an Earth System Science approach to the Big Five mass extinctions as well as the possible sixth extinction occurring now.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 41092 SUMMER FIELD CAMP (ELR) 6 Credit Hours
(Repeatable for credit) (Slashed with ESCI 51092) Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in the Black Hills of South Dakota.
Prerequisite: ESCI 31070 and ESCI 31080.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ESCI 42030 REMOTE SENSING 3 Credit Hours
(Cross-listed with GEOG 49230, GEOG 59230, GEOG 79230) (Slashed with ESCI 52030, ESCI 72030) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 42035 DATA ANALYSIS IN THE EARTH SCIENCES 3 Credit Hours
(Slashed with ESCI 52035) Application of scientific methods to geologic data in the field and laboratory, including methods for collection, analysis, modelling and presentation of data, within the framework of formulation and testing of scientific hypotheses. Provides the background necessary for upper-division earth science courses.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 42036 PHYSICAL HYDROGEOLOGY LABORATORY 1 Credit Hour
(Slashed with ESCI 52036) Laboratory course offering fundamental training for professional hydrogeologists in field, laboratory and analytical techniques. Required weekend field trip.
Prerequisite: Junior standing.
Corequisite: ESCI 42066.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ESCI 42060 EARTH OBSERVING 3 Credit Hours
(Slashed with ESCI 52060 and ESCI 72060) Students are introduced to visible, thermal and LiDAR remote sensing methods. Visible and near infrared multispectral and hyperspectral data sets are used for a wide variety of research including land use change, water quality research and agricultural remote and proximal sensing. Thermal remote sensing can be used to characterize surface temperature changes, earth materials and thermal stresses on plants. LiDAR provides the ability to measure variations in surface topography and can "see" through clouds and jungle canopy and even penetrate aquatic environments to measure algal biomass and suspended sediment. Remote sensing is the use of instrumentation to obtain spectral and spatial information about an object or surface without direct contact. All matter interacts with electromagnetic energy through thermal emittance, absorption, transmittance, reflectance and/or scattering. Different materials have distinct electromagnetic signatures depending on their composition, structure and the nature of the energy with which the material is interacting. This course focuses primarily on multispectral and hyperspectral visible remote sensing, but the field of remote sensing makes use of information throughout the electromagnetic spectrum to sense the environment around us. Note that most of the data sets that are examined and analyzed in this course are multispectral Landsat images. Students are encouraged to explore various topics or geographic regions for their class project. It is recommended that students take an introductory GIS class prior to enrollment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 42065 WATERSHED HYDROLOGY 3 Credit Hours
(Slashed with ESCI 52065) Watershed hydrology is the study of water movement, storage and transformation across landscapes. Course covers such basic questions like: "Where does water go when it rains?" and "What pathways does water take to the stream channel?". Students examine the processes of precipitation, evapotranspiration, infiltration, streamflow generation and streamflow. They learn about how they are measured, how to analyze the data and how these hydrologic processes are regulated by landscape characteristics, human activities and climate dynamics.
Prerequisite: MATH 11022 and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 42066 PHYSICAL HYDROGEOLOGY 3 Credit Hours
(Slashed with ESCI 52066) Principles of water flow in hydrologic cycle, soil and aquifer hydraulic properties, groundwater flow, surface water–groundwater interactions and geochemical evolution of groundwater. Application of principles for evaluation of water resources; emphasizing utilization, conservation and management of groundwater resources in a changing environment.
Prerequisite: MATH 12002 or any higher level MATH course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 42068 CONTAMINANT HYDROLOGY AND HYDROGEOLOGY 3 Credit Hours
(Slashed with ESCI 52068) An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems.
Prerequisite: MATH 12002 or any higher level MATH course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43001 WICKED PROBLEMS: TACKLING GLOBAL ISSUES IN THE 21ST CENTURY 3 Credit Hours
(Cross-listed with GEOG 43070 and POL 43001) This course provides an overview and analysis of the United Nations Sustainable Development Goals (SDG), as well as strategies that can be used for tackling them. The SDGs address the most serious problems faced by humankind today. These include poverty, hunger, inequality, climate change, economic development and environmental sustainability. A key characteristic of the SDGs is that they are known as "wicked problems." Wicked problems are complex issues that resist conventional approaches to problem solving, and for which existing solutions often create unintended consequences that only make the original problem worse. Emphasis is placed on problems of collective action, evidence-based public policies and interdisciplinary approaches to addressing global issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43040 PRINCIPLES OF GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 53040) Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the Earth and laws governing these distributions.
Prerequisite: CHEM 10060 and CHEM 10061 and ESCI 31070 and MATH 12002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 53042 and ESCI 73042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.
Prerequisite: CHEM 10060 and CHEM 10061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43043 ENVIRONMENTAL MINERALOGY 3 Credit Hours
(Slashed with ESCI 53043) Explores reactions between minerals and aqueous solutions, focusing on their role in chemical weathering, contaminant mobility, microbe-mineral interactions and an understanding of mineral-water interface processes and mechanisms at the molecular level. Through a series of case studies, the course explores the societal impacts of environmental contaminants and the potential role of remediation.
Prerequisite: ESCI 23063.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43044 ENVIRONMENTAL ISOTOPES 3 Credit Hours
(Slashed with ESCI 53044 and ESCI 73044) Stable isotope geochemistry can be used as a tool to explore a wide array of processes across the Earth and environmental sciences. Course begins by focusing on traditional applications of oxygen, hydrogen, carbon and sulfur stable isotopes to understand the water and carbon cycles. Subsequently, students are introduced to emerging stable isotope techniques and non-traditional stable isotope systems. Lectures are supplemented with exercises that incorporate real data and discussions based on the recent scientific literature.
Prerequisite: CHEM 10060 and CHEM 10061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 43500 ENVIRONMENTAL SOIL SCIENCE 3 Credit Hours
(Slashed with ESCI 53500) Soil is a critical natural resource that sustains human life. In this course, students explore the geochemical composition of soils and the physical, biological and chemical processes involved in rock weathering, soil formation and the environmental transport of nutrients and toxic elements.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 44025 GEOLOGIC HAZARDS AND DISASTERS 3 Credit Hours
(Slashed with ESCI 54025) Explores the geological processes that drive a broad range of different natural hazards (including earthquakes, volcanoes, landslides and floods), and how they interact with human behavior to produce geologic risks and disasters. Through discussion of historical and topical events, students focus on the dual challenges of combining uncertain and incomplete information from various geological and historical sources into realistic assessments of future risks; and the communication of accurate, relevant, actionable information about these risks to the public and authorities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 44040 EARTH'S ENERGY TRANSITION 3 Credit Hours
(Slashed with ESCI 54040 and ESCI 74040) Society is faced with a growing climate crisis but has most of the tools and technological knowhow needed to address the problems. This class explores mitigation and adaptation approaches necessary for a successful energy transformation by assessing Earth energy sources from a systems perspective.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ESCI 44070 SEDIMENTOLOGY AND STRATIGRAPHY 4 Credit Hours
(Slashed with ESCI 54070) Course explores the processes that control the production, transport, deposition and alteration of sediments. Students learn how to reconstruct past environments, ranging from mountain streams to the deep ocean, based on the physical and geochemical characteristics of sedimentary rocks. Techniques to document and interpret spatial patterns in sediment deposition are covered and tied into various modern-day challenges, such as climate and sea level change. Lectures are integrated with in-class activities, examples from cutting-edge research, laboratory exercises and a field trip.
Pre/corequisite: ESCI 31070.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 44072 MARINE PROCESSES 3 Credit Hours
(Slashed with ESCI 54072) This course is an exploration of the mechanisms (geological, physical, chemical and biological) through which the ocean operates, and how it influences climate on seasonal, inter-annual, glacial-interglacial and over deep time. Emphasis is placed on understanding the relative importance of these processes and how they have varied through time, and the potential outcomes of human-induced changes to these processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 44074 PALEOCEANOGRAPHY 3 Credit Hours
(Slashed with ESCI 54074) A broad spectrum of geological approaches, including paleontology, geochemistry and stratigraphy, are employed to interpret the history of the Earth's oceans.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 50095 SELECTED TOPICS IN EARTH SCIENCES 1-3 Credit Hours
(Slashed with ESCI 40095)(Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ESCI 50380 BIOGEOCHEMISTRY 3 Credit Hours
(Cross-listed with BSCI 50380)(Slashed with BSCI 40380, BSCI 70380 and ESCI 40380) This course explores the chemical, physical, geological and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. Throughout this course, we explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale and the implications of these changes for biological systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51025 GENERAL GEOPHYSICS 3 Credit Hours
(Slashed with ESCI 41025) This course will explore how di#erent geophysical signals are generated by, or propagate through, the Earth, and how geophysical data is collected, processed and interpreted in order to answer questions about the Earth's interior. Techniques covered include seismic reflection, seismic refraction, gravity, and magnetism. There will be a strong emphasis on worked examples and case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51073 GEOLOGY OF OHIO 3 Credit Hours
(Slashed with ESCI 41073) Minerals, rocks, fossils, structural geology, physiography, environmental geology and geologic resources. Required field trips. Does not count toward the Geology major.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51077 GEOLOGY OF THE NATIONAL PARKS 3 Credit Hours
(Slashed with ESCI 41077) Introduction to the geology of selected major national parks, emphasizing basic geological principles and the processes that have produced the spectacular scenery, rocks and fossils in each park. Does not count toward the Geology major.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51080 TECTONICS AND OROGENY 3 Credit Hours
(Slashed with ESCI 41080) This course examines the forces that drive plate motions and mountain building, techniques for reconstructing those motions over a range of timescales, and how the lithosphere deforms and drives rock creation and destruction at plate boundaries, particularly in the Western United States and the Appalachians. Required field trip to the Appalachians.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 51092 SUMMER FIELD CAMP 6 Credit Hours
(Repeatable for credit) (Slashed with ESCI 41092) Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in the Black Hills of South Dakota.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

ESCI 52030 REMOTE SENSING 3 Credit Hours
(Cross-listed with GEOG 59230) (Slashed with ESCI 42030, ESCI 72030, GEOG 49230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 52035 DATA ANALYSIS IN THE EARTH SCIENCES 3 Credit Hours
(Slashed with ESCI 42035) Application of scientific methods to geologic data in the field and laboratory, including methods for collection, analysis, modelling and presentation of data, within the framework of formulation and testing of scientific hypotheses. Provides the background necessary for upper-division earth science courses.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ESCI 52036 PHYSICAL HYDROGEOLOGY LABORATORY 1 Credit Hour
(Slashed with ESCI 42036) Laboratory course offering fundamental training for professional hydrogeologists. Required weekend field trip.
Prerequisite: Graduate standing.
Corequisite: ESCI 52066.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

ESCI 52060 EARTH OBSERVING 3 Credit Hours
(Slashed with ESCI 42060 and ESCI 72060) Students are introduced to visible, thermal and LiDAR remote sensing methods. Visible and near infrared multispectral and hyperspectral data sets are used for a wide variety of research including land use change, water quality research and agricultural remote and proximal sensing. Thermal remote sensing can be used to characterize surface temperature changes, earth materials and thermal stresses on plants. LiDAR provides the ability to measure variations in surface topography and can "see" through clouds and jungle canopy and even penetrate aquatic environments to measure algal biomass and suspended sediment. Remote sensing is the use of instrumentation to obtain spectral and spatial information about an object or surface without direct contact. All matter interacts with electromagnetic energy through thermal emittance, absorption, transmittance, reflectance and/or scattering. Different materials have distinct electromagnetic signatures depending on their composition, structure and the nature of the energy with which the material is interacting. This course focuses primarily on multispectral and hyperspectral visible remote sensing, but the field of remote sensing makes use of information throughout the electromagnetic spectrum to sense the environment around us. Note that most of the data sets that are examined and analyzed in this course are multispectral Landsat images. Students are encouraged to explore various topics or geographic regions for their class project. It is recommended that students take an introductory GIS class prior to enrollment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 52065 WATERSHED HYDROLOGY 3 Credit Hours
(Slashed with ESCI 42065) Watershed hydrology is the study of water movement, storage and transformation across landscapes. This course will answer basic questions like: "Where does water go when it rains?" and "What pathways does water take to the stream channel?". Students will examine the processes of precipitation, evapotranspiration, infiltration, streamflow generation, and streamflow. They will learn about how they are measured, how to analyze the data, and how these hydrologic processes are regulated by landscape characteristics, human activities and climate dynamics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 52066 PHYSICAL HYDROGEOLOGY 3 Credit Hours
(Slashed with ESCI 42066) Principles of water flow in hydrologic cycle, soil and aquifer hydraulic properties, groundwater flow, surface water–groundwater interactions and geochemical evolution of groundwater. Application of principles for evaluation of water resources; emphasizing utilization, conservation and management of groundwater resources in a changing environment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 52068 CONTAMINANT HYDROLOGY AND HYDROGEOLOGY 3 Credit Hours
(Slashed with ESCI 42068) An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53040 PRINCIPLES OF GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 43040) Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the Earth and laws governing these distributions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 43042 and ESCI 73042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53043 ENVIRONMENTAL MINERALOGY 3 Credit Hours
(Slashed with ESCI 43043) Explores reactions between minerals and aqueous solutions, focusing on their role in chemical weathering, contaminant mobility, microbe-mineral interactions and an understanding of mineral-water interface processes and mechanisms at the molecular level. Through a series of case studies, the course explores the societal impacts of environmental contaminants and the potential role of remediation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53044 ENVIRONMENTAL ISOTOPES 3 Credit Hours
(Slashed with ESCI 43044 and ESCI 73044) Stable isotope geochemistry can be used as a tool to explore a wide array of processes across the Earth and Environmental Sciences. This course will begin by focusing on traditional applications of oxygen, hydrogen, carbon, and sulfur stable isotopes to understand the water and carbon cycles. Subsequently, students will be introduced to emerging stable isotope techniques and non-traditional stable isotope systems. Lectures will be supplemented with exercises that incorporate real data and discussions based on the recent scientific literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 53500 ENVIRONMENTAL SOIL SCIENCE 3 Credit Hours
(Slashed with ESCI 43500) Soil is a critical natural resource that sustains human life. In this course, students explore the geochemical composition of soils and the physical, biological and chemical processes involved in rock weathering, soil formation and the environmental transport of nutrients and toxic elements.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 54025 GEOLOGIC HAZARDS AND DISASTERS 3 Credit Hours
(Slashed with ESCI 44025) Explores the geologic processes that drive a broad range of different natural hazards (including earthquakes, volcanoes, landslides and floods), and how they interact with human behavior to produce geological risks and disasters. Through discussion of historical and topical events, students focus on the dual challenges of combining uncertain and incomplete information from various geological and historical sources into realistic assessments of future risks; and the communication of accurate, relevant, actionable information about these risks to the public and authorities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 54040 EARTH'S ENERGY TRANSITION 3 Credit Hours
(Slashed with ESCI 44040 and ESCI 74040) Society is faced with a growing climate crisis but has most of the tools and technological knowhow needed to address the problems. This class explores mitigation and adaptation approaches necessary for a successful energy transformation by assessing Earth energy sources from a systems perspective.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ESCI 54070 SEDIMENTOLOGY AND STRATIGRAPHY 4 Credit Hours
(Slashed with ESCI 44070) This course explores the processes that control the production, transport, deposition, and alteration of sediments. Students will learn how to reconstruct past environments ranging from mountain streams to the deep ocean based on the physical and geochemical characteristics of sedimentary rocks. Techniques to document and interpret spatial patterns in sediment deposition will be covered and tied into various modern day challenges, such as climate and sea level change. Lectures are integrated with in-class activities, examples from cutting-edge research, laboratory exercises and a fieldtrip.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab, 1 other
Grade Mode: Standard Letter

ESCI 54072 MARINE PROCESSES 3 Credit Hours
(Slashed with ESCI 44072) This course is an exploration of the mechanisms (geological, physical, chemical and biological) through which the ocean operates, and how it influences climate on seasonal, inter-annual, glacial-interglacial and over deep time. Emphasis is placed on understanding the relative importance of these processes and how they have varied through time, and the potential outcomes of human-induced changes to these processes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 54074 PALEOCEANOGRAPHY 3 Credit Hours
(Slashed with ESCI 44074) A broad spectrum of geological approaches, including paleontology, geochemistry and stratigraphy, are employed to interpret the history of the Earth's oceans.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 60084 GEOLOGY GRADUATE STUDENT ORIENTATION 1 Credit Hour
(Slashed with ESCI 70084) Introduction to departmental resources, procedures and expectations, as well as approaches to successfully conduct research at a graduate level. Training and experience in presentation of data and college teaching of applied geology, as well as a discussion forum on professional ethics and responsibilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

ESCI 60085 DATA ANALYSIS AND PRESENTATION 1 Credit Hour
This course focuses on the skills and issues surrounding data production and analysis in the earth sciences. It provides students the opportunity to familiarize themselves with strategies for managing and presenting data that they generate as part of their graduate studies. The course requires a commitment to regular readings and discussions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ESCI 60086 FIELD METHODS IN THE EARTH SCIENCES 1 Credit Hour
This course focuses on the skills necessary for sample and data collection in the field. Additionally, it provides strategies for successfully leading safe, inclusive field work both within academia and other career sectors. The course requires a commitment to weekly readings and discussions.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

ESCI 60087 WRITING IN THE EARTH SCIENCES 1 Credit Hour
(Slashed with ESCI 70087) Focuses on the strategies for achieving regular and productive academic writing and the craft of writing for the scientific literature. The course is designed for students who have a major writing project that will take most or all of the semester, such as a dissertation, thesis or dissertation proposal. The course requires commitment to weekly writing progress and provides weekly opportunities for peer review and peer support.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ESCI 60091 SEMINAR 1-2 Credit Hours
(Repeatable for credit)(Slashed with ESCI 70091) Topics in geology and earth science; varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-2 other
Grade Mode: Standard Letter

ESCI 60095 SELECTED TOPICS IN EARTH SCIENCES 1-3 Credit Hours
(Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ESCI 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's level students. Credits earned may be applied toward degree if department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ESCI 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 60391 GEOCHEMINAR 1 Credit Hour
(Repeatable for credit) In this course, students gain understanding of advanced techniques in geochemistry by presenting information from primary literature and discussing data processing and analysis of their research.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

ESCI 70084 GEOLOGY GRADUATE STUDENT ORIENTATION 1 Credit Hour
(Slashed with ESCI 60084) Introduction to departmental resources, procedures and expectations, as well as approaches to successfully conduct research at a graduate level. Training and experience in presentation of data and college teaching of applied geology, as well as discussion forum on professional ethics and responsibilities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

ESCI 70087 WRITING IN THE EARTH SCIENCES 1 Credit Hour
(Slashed with ESCI 60087) Focuses on the strategies for achieving regular and productive academic writing and the craft of writing for the scientific literature. The course is designed for students who have a major writing project that will take most or all of the semester, such as a dissertation, thesis or dissertation proposal. The course requires commitment to weekly writing progress and provides weekly opportunities for peer review and peer support.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ESCI 70091 SEMINAR 1-2 Credit Hours
(Repeatable for credit)(Slashed with ESCI 60091) Topics in geology and earth science; varies per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-2 other
Grade Mode: Standard Letter

ESCI 72030 REMOTE SENSING 3 Credit Hours
(Cross-listed with GEOG 79230) (Slashed with ESCI 42030, ESCI 52030, GEOG 49230, GEOG 59230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 72060 EARTH OBSERVING 3 Credit Hours
(Slashed with ESCI 42060 and ESCI 52060) Students are introduced to visible, thermal and LiDAR remote sensing methods. Visible and near infrared multispectral and hyperspectral data sets are used for a wide variety of research including land use change, water quality research and agricultural remote and proximal sensing. Thermal remote sensing can be used to characterize surface temperature changes, earth materials and thermal stresses on plants. LiDAR provides the ability to measure variations in surface topography and can "see" through clouds and jungle canopy and even penetrate aquatic environments to measure algal biomass and suspended sediment. Remote sensing is the use of instrumentation to obtain spectral and spatial information about an object or surface without direct contact. All matter interacts with electromagnetic energy through thermal emittance, absorption, transmittance, reflectance and/or scattering. Different materials have distinct electromagnetic signatures depending on their composition, structure and the nature of the energy with which the material is interacting. This course focuses primarily on multispectral and hyperspectral visible remote sensing, but the field of remote sensing makes use of information throughout the electromagnetic spectrum to sense the environment around us. Note that most of the data sets that are examined and analyzed in this course are multispectral Landsat images. Students are encouraged to explore various topics or geographic regions for their class project. It is recommended that students take an introductory GIS class prior to enrollment.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 73042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours
(Slashed with ESCI 43042 and ESCI 53042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 73044 ENVIRONMENTAL ISOTOPES 3 Credit Hours
(Slashed with ESCI 43044 and ESCI 53044) Stable isotope geochemistry can be used as a tool to explore a wide array of processes across the Earth and Environmental Sciences. This course will begin by focusing on traditional applications of oxygen, hydrogen, carbon, and sulfur stable isotopes to understand the water and carbon cycles. Subsequently, students will be introduced to emerging stable isotope techniques and non-traditional stable isotope systems. Lectures will be supplemented with exercises that incorporate real data and discussions based on the recent scientific literature.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ESCI 74040 EARTH'S ENERGY TRANSITION 3 Credit Hours
(Slashed with ESCI 44040 and ESCI 54040) Society is faced with a growing climate crisis but has most of the tools and technological knowhow needed to address the problems. This class explores mitigation and adaptation approaches necessary for a successful energy transformation by assessing Earth energy sources from a systems perspective.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ESCI 80095 ADVANCED TOPICS IN EARTH SCIENCES 1-3 Credit Hours
(Repeatable for credit) Advanced topics presented by visiting professors or one-time offerings presented by regular faculty.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ESCI 80098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree with departmental approval.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Admission to candidacy for doctoral degree; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ESCI 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration is required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met.
Prerequisite: ESCI 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Applied Geology - Ph.D.

College of Arts and Sciences
Department of Earth Sciences
www.kent.edu/earth-sciences

About This Program

The Ph.D. degree in Applied Geology prepares students for careers in industry and academic institutions where research into the application of geological principles focuses on solutions to basic and applied research questions. Focus areas include environmental research (water, surface and subsurface processes; geohazards; and natural resources), as well as evolution of earth's systems research (climate change, paleoecology and evolution, crustal processes).

Contact Information

- **David Singer** | dsinger4@kent.edu | 330-672-3006
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Atmospheric, earth, marine, and space sciences teachers, postsecondary

- 1.9% slower than the average
- 13,100 number of jobs
- $94,520 potential earnings

Geoscientists, except hydrologists and geographers

- 4.9% about as fast as the average
- 31,800 number of jobs
- $93,580 potential earnings

Hydrologists

- 5.3% faster than the average
- 7,000 number of jobs
- $84,040 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: January 15
    Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ESCI 70084	GEOLOGY GRADUATE STUDENT ORIENTATION	1
ESCI 70087	WRITING IN THE EARTH SCIENCES	1
Additional Requirements		28-58
Culminating Requirement		
ESCI 80199	DISSERTATION I [1]	30
Minimum Total Credit Hours for Post-Baccalaureate Students		**90**
Minimum Total Credit Hours for Post-Master's Students		**60**

[1] Each doctoral candidate, upon admission to candidacy, must register for ESCI 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter ESCI 80299, each semester, until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- All students will have a fundamental knowledge and understanding of earth materials by the end of the second year in the program. This will be fulfilled by a lecture and lab course in Earth materials

or an equivalent course related to mineralogy and/or petrology as determined by the graduate coordinator.

Candidacy

To be admitted to candidacy for the doctoral degree, a student must pass comprehensive written and oral examinations prior to the start of the fifth semester after admission to the doctoral program. The comprehensive examinations focus on mastery of the student's major area of concentration and one minor area, as well as the fundamentals of geology and its allied sciences as appropriate to the student's proposed dissertation topic. Students who fail the comprehensive examinations may be allowed to repeat them once; this must be completed more than one month after the initial examination, but less than six months thereafter.

Residency

All students admitted to the doctoral program must complete two successive semesters of full-time graduate study at Kent State University. During this time they must obtain a minimum of 22 credit hours.

Program Learning Outcomes

Graduates of this program will be able to:

1. Show in-depth comprehension of several areas, including both basic and applied aspects of geology/earth sciences.
2. Demonstrate the ability to formulate testable scientific hypotheses and carry out independent research using appropriate field, experimental, analytical and/or computational methods.
3. Describe, synthesize and interpret the results of a scientific investigation and understand its broader applications.

Earth Science - B.A.

College of Arts and Sciences
Department of Earth Sciences
www.kent.edu/earth-sciences

About This Program

Our Bachelor of Arts in Earth Science provides you with the knowledge and skills needed to understand the dynamic processes that shape our planet. With a focus on interdisciplinary learning and hands-on experiences, you will be prepared for a variety of careers in the geosciences. Read more...

Contact Information

- **Joseph Ortiz** (Kent Campus) | jortiz@kent.edu | 330-672-2225
- **Carrie Schweitzer** (Stark Campus) | cschweit@kent.edu | 330-244-3303
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Examples of Possible Careers and Salaries*

Geological and hydrologic technicians

- 5.5% faster than the average
- 19,000 number of jobs
- $50,630 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CHEM 10058	GENERAL CHEMISTRY FOR LIFE SCIENCES I	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
ESCI 11040	HOW THE EARTH WORKS (KBS)	3
ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
Major Elective; choose two from the following		6
ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	
ESCI 21080	ALL ABOUT THE OCEANS (KBS)	
ESCI 22000	DEGREE AND CAREER PATHS IN EARTH SCIENCES (ELR)	1
ESCI 23063	EARTH MATERIALS I	4
ESCI 31070	EARTH MATERIALS II (WIC) [1]	4
ESCI 42035	DATA ANALYSIS IN THE EARTH SCIENCES	3
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Earth Science (ESCI) Upper-Division Electives (30000 or 40000 level) [2]		6
Geography (GEOG) Upper-Division Electives (30000 or 40000 level), choose from the following: [2]		6
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 31064	CLIMATE AND THE ENVIRONMENT	
GEOG 41065	DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT	
GEOG 41066	GLOBAL CLIMATE CHANGE	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 49078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
Additional Program Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		42
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Other relevant courses may be substituted in consultation with an advisor.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ESCI 11040	HOW THE EARTH WORKS (KBS)	3
ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Foreign Language		4
Kent Core Requirement		3
	Credit Hours	**15**
Semester Two		
ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
ESCI 22000	DEGREE AND CAREER PATHS IN EARTH SCIENCES (ELR)	1
ESCI 42035	DATA ANALYSIS IN THE EARTH SCIENCES	3
Foreign Language		4

Kent Core Requirement		3
	Credit Hours	**14**
Semester Three		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
ESCI 23063	EARTH MATERIALS I	4
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**18**
Semester Four		
ESCI 31070	EARTH MATERIALS II (WIC)	4
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
Foreign Language and/or General Elective		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Five		
Earth Science (ESCI) Upper-Division Elective (30000 or 40000 level)		3
Geography (GEOG) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Six		
Earth Science (ESCI) Upper-Division Elective (30000 or 40000 level)		3
Geography (GEOG) Upper-Division Elective (30000 or 40000 level)		3
General Electives		9
	Credit Hours	**15**
Semester Seven		
Earth Science (ESCI) Upper-Division Elective (30000 or 40000 level)		3
General Electives		12
	Credit Hours	**15**
Semester Eight		
General Electives		14
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and communicate to others:
   a. The nature of scientific investigation and evidence.
   b. The complex interrelationships of the biosphere, atmosphere, hydrosphere and lithosphere through geologic time.
2. Understand Earth materials and interpret geologic and environmental processes.
3. Synthesize geologic information to understand and solve geologic and environmental problems.
4. Demonstrate critical thinking skills.
5. Work as a geologist in the field and laboratory.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes

assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Earth Science is ideal for students interested in broad interdisciplinary study of the key natural and physical processes that shape the planet, leading to potential careers in environmental or earth system fields. The program requires courses covering physical geology, minerals and rocks and geographic information science. Most geology courses have extensive (one-to-three-day) excursions that allow students to obtain valuable field experience.

Graduates have opportunities for employment in a wide variety of careers where an understanding of natural science is useful or critical for success. Earth science can be a strong background for advanced study or career development in areas such as business, city management, regional development, planning, law, journalism and science writing.

Earth Science - Minor

College of Arts and Sciences
Department of Earth Sciences
www.kent.edu/earth-sciences

About This Program

The Earth Science minor prepares students to integrate concepts and knowledge of Earth's surface, its interior and its interactions with life and water. Scientific knowledge about Earth processes and earth-life-water interactions is critical for making informed decisions in science education, public policy, public health, conservation, resource management and environmental consulting. Students in the minor gain essential knowledge of earth systems science, including the interactions of earth's atmosphere, biosphere, hydrosphere and lithosphere over both shorter (millennium) and longer (mega-annum) time periods.

Contact Information

- **Joseph Ortiz | jortiz@kent.edu |** 330-672-2225
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to this minor is selective, open only to students who have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ESCI 11040	HOW THE EARTH WORKS (KBS)	3
ESCI 33025	WATER AND THE ENVIRONMENT	3
GEOG 41066	GLOBAL CLIMATE CHANGE	3
Minor Electives, choose from the following: [1]		6-7
ESCI 42030	REMOTE SENSING	
ESCI 42060	EARTH OBSERVING	
ESCI 44025	GEOLOGIC HAZARDS AND DISASTERS	
ESCI 44040	EARTH'S ENERGY TRANSITION	
ESCI 44074	PALEOCEANOGRAPHY	
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	
Minimum Total Credit Hours:		**15**

[1] Other relevant courses may be substituted in consultation with an advisor.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply fundamental concepts and methods of Earth science, including geology, to analyze and interpret geological phenomena and environmental issues.
2. Collaborate effectively with peers and professionals in the field of Earth science to solve geologic and environmental problems, integrating knowledge from various disciplines within Earth science.
3. Understand and explain key Earth processes, such as plate tectonics, erosion and climate change, and demonstrate an understanding of how these processes impact our society and the environment.
4. Understand and communicate Earth science concepts and findings effectively to both scientific and non-scientific audiences using appropriate visual aids and technologies.

Environmental Geology - Minor

College of Arts and Sciences
Department of Earth Sciences
www.kent.edu/earth-sciences

About This Program

The Environmental Geology minor prepares students to integrate concepts and knowledge of environmental geology and communicate these issues to a variety of audiences, including policymakers and the public. Scientific knowledge about environmental geology processes is used to inform different areas of formal study such as anthropology, architecture, geography, political science, environmental law, environmental studies and recreation and park management.

Students in the minor gain broad knowledge of geology and the environmental impacts of anthropogenic-induced change on the earth in the immediate short-term and throughout longer periods. Competencies focus on human-water-rock interactions at Earth's surface (the critical zone).

Contact Information

- **Joseph Ortiz** (Kent Campus) | **jortiz@kent.edu** | 330-672-2225
- **Carrie Schweitzer** (Stark Campus) | cschweit@kent.edu | 330-244-3303
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to this minor is selective, open only to students who have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ESCI 11040	HOW THE EARTH WORKS (KBS)	3
or ESCI 21080	ALL ABOUT THE OCEANS (KBS)	
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
ESCI 33025	WATER AND THE ENVIRONMENT	3
Minor Electives, choose from the following:		6-7
ESCI 32066	GEOMORPHOLOGY	
ESCI 40380	BIOGEOCHEMISTRY	
ESCI 41085	MASS EXTINCTIONS: CAUSES AND CONSEQUENCES	
ESCI 42030	REMOTE SENSING	
ESCI 42035	DATA ANALYSIS IN THE EARTH SCIENCES	
ESCI 42060	EARTH OBSERVING	
ESCI 44025	GEOLOGIC HAZARDS AND DISASTERS	
ESCI 44040	EARTH'S ENERGY TRANSITION	
ESCI 44074	PALEOCEANOGRAPHY	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply fundamental concepts and methods of Earth science, including geology, to analyze and interpret geological phenomena and environmental issues.
2. Collaborate effectively with peers and professionals in the field of Earth science to solve geologic and environmental problems, integrating knowledge from various disciplines within Earth science.
3. Understand and explain key Earth processes, such as plate tectonics, erosion and climate change, and demonstrate an understanding of how these processes impact our society and the environment.
4. Understand and communicate Earth science concepts and findings effectively to both scientific and non-scientific audiences using appropriate visual aids and technologies.

Geology - B.A.

College of Arts and Sciences
Department of Earth Sciences
www.kent.edu/earth-sciences

About This Program

Discover the earth's wonders with Kent State's Geology B.A. program. Gain the knowledge and experience needed to understand our planet's geological processes, while developing the skills to tackle real-world challenges in this dynamic field. Read more...

Contact Information

- **Joseph Ortiz** | **jortiz@kent.edu** | 330-672-2225
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**

- Kent Campus
- Stark Campus

Examples of Possible Careers and Salaries*

Geological and hydrologic technicians

- 5.5% faster than the average
- 19,000 number of jobs
- $50,630 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3-4
or BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	
CHEM 10058	GENERAL CHEMISTRY FOR LIFE SCIENCES I	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
ESCI 22000	DEGREE AND CAREER PATHS IN EARTH SCIENCES (ELR)	1
ESCI 23063	EARTH MATERIALS I	4
ESCI 31070	EARTH MATERIALS II (WIC) [1]	4
ESCI 34061	PRINCIPLES OF PALEONTOLOGY	4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Earth Science (ESCI) Upper-Division Electives (30000 or 40000 level) [2]		15
Earth Electives: Choose from the following		4
ESCI 11040 & ESCI 11041	HOW THE EARTH WORKS (KBS) and HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	
ESCI 11042 & ESCI 11043	EARTH AND LIFE THROUGH TIME (KBS) and EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	
Major Elective, choose two from the following:		6
ESCI 11040	HOW THE EARTH WORKS (KBS)	
ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	
ESCI 21080	ALL ABOUT THE OCEANS (KBS)	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		39
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] ESCI 41092 is recommended as an Earth Science (ESCI) upper-division elective. The following courses will not satisfy major requirements: ESCI 41073, and ESCI 41077 .

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Earth Electives		4
Foreign Language		4
Kent Core Requirement		3
	Credit Hours	**15**
Semester Two		
MATH 11022	TRIGONOMETRY (KMCR)	3
Major Elective		3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
ESCI 22000	DEGREE AND CAREER PATHS IN EARTH SCIENCES (ELR)	1
ESCI 23063	EARTH MATERIALS I	4
Foreign Language and/or General Elective		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
BSCI 10002 or BSCI 10110	LIFE ON PLANET EARTH (KBS) or BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	3
ESCI 31070	EARTH MATERIALS II (WIC)	4
Foreign Language and/or General Elective		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**16**
Semester Five		
ESCI 34061	PRINCIPLES OF PALEONTOLOGY	4
Earth Science (ESCI) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
General Electives		5
	Credit Hours	**15**
Semester Six		
Earth Science (ESCI) Upper-Division Electives (30000 or 40000 level)		6
General Electives		6
	Credit Hours	**12**
Semester Seven		
Earth Science (ESCI) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
General Electives		9
	Credit Hours	**15**
Semester Eight		
Earth Science (ESCI) Upper-Division Elective (30000 or 40000 level)		3
General Electives		12
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours

Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and communicate to others the nature of scientific investigation and evidence.
2. Understand and communicate to others the complex interrelationships of the biosphere, atmosphere, hydrosphere and lithosphere through geologic time.
3. Understand Earth materials and interpret geologic and environmental processes.
4. Synthesize geologic information to understand and solve geologic and environmental problems.
5. Demonstrate critical thinking skills and be able to work as a geologist in the field and in the laboratory.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Geology prepares graduates for employment in a wide variety of careers where an understanding of the natural sciences is useful or critical for success. Geology can be a strong background for advanced study or career development in areas such as business, city management, regional development, planning, law, journalism and science writing. The curriculum includes courses concerning minerals, rocks, fossils and field mapping, among others. These courses are supplemented by courses such as introductory chemistry, biology and mathematics.

Geology students may apply early to the M.S. degree in Geology and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Geology - B.S.

College of Arts and Sciences
Department of Earth Sciences
www.kent.edu/earth-sciences

About This Program

The Geology B.S. program blends rigorous coursework with hands-on experiences to equip you with the skills needed to study the earth's physical structure, natural resources and environmental systems. With access to cutting-edge technologies and experienced faculty, you will gain the knowledge and skills to launch a rewarding career in the geology field. Read more...

Contact Information

- **Joseph Ortiz | jortiz@kent.edu |** 330-672-2225
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Geological and hydrologic technicians

- 5.5% faster than the average
- 19,000 number of jobs
- $50,630 potential earnings

Geoscientists, except hydrologists and geographers

- 4.9% about as fast as the average
- 31,800 number of jobs
- $93,580 potential earnings

Hydrologists

- 5.3% faster than the average
- 7,000 number of jobs
- $84,040 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3-4
or BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	
CHEM 10058	GENERAL CHEMISTRY FOR LIFE SCIENCES I	4
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
ESCI 22000	DEGREE AND CAREER PATHS IN EARTH SCIENCES (ELR)	1
ESCI 23063	EARTH MATERIALS I	4
ESCI 31070	EARTH MATERIALS II (WIC) [1]	4
ESCI 31080	STRUCTURAL GEOLOGY	4
ESCI 34061	PRINCIPLES OF PALEONTOLOGY	4
ESCI 41092	SUMMER FIELD CAMP (ELR)	6
ESCI 42035	DATA ANALYSIS IN THE EARTH SCIENCES	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
ESCI 44070	SEDIMENTOLOGY AND STRATIGRAPHY	4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Earth Electives, choose from the following:		4
ESCI 11040 & ESCI 11041	HOW THE EARTH WORKS (KBS) and HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	
ESCI 11042 & ESCI 11043	EARTH AND LIFE THROUGH TIME (KBS) and EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	
Major Elective, choose from the following:		3
ESCI 11040	HOW THE EARTH WORKS (KBS)	
ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	
ESCI 21080	ALL ABOUT THE OCEANS (KBS)	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		13
Additional Requirements or Concentration		
Choose from the following:		21
Additional Requirements for Students Not Declaring a Concentration		
Environmental Geology Concentration		
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
Earth Science (ESCI) Upper-Division Electives (30000 or 40000 level) [1]		15-16
Science Electives, choose from the following: [2]		4-5
CHEM 10059 & CHEM 10063	GENERAL CHEMISTRY FOR LIFE SCIENCES II and GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	

CHEM 10061 & CHEM 10063	GENERAL CHEMISTRY II (KBS) and GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
Additional Requirements (courses do not count in major GPA)		
General Elective		1
Minimum Total Credit Hours:		**21**

1 ESCI 41073 and ESCI 41077 may **not** count toward the elective requirement.

2 Students who intend to pursue graduate studies in geology are recommended to complete both of the following science lecture and lab course sequences: CHEM 10061, CHEM 10063, PHY 13002, PHY 13022.

Environmental Geology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CHEM 10059	GENERAL CHEMISTRY FOR LIFE SCIENCES II	4
or CHEM 10061	GENERAL CHEMISTRY II (KBS)	
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
ESCI 32066	GEOMORPHOLOGY	4
ESCI 40380	BIOGEOCHEMISTRY	3
or ESCI 43040	PRINCIPLES OF GEOCHEMISTRY	
or ESCI 43042	ENVIRONMENTAL GEOCHEMISTRY	
Environmental Geology Concentration Electives, choose from the following:		9
ESCI 40380	BIOGEOCHEMISTRY	
ESCI 42030	REMOTE SENSING	
ESCI 42065	WATERSHED HYDROLOGY	
ESCI 42066	PHYSICAL HYDROGEOLOGY	
ESCI 42068	CONTAMINANT HYDROLOGY AND HYDROGEOLOGY	
ESCI 43040	PRINCIPLES OF GEOCHEMISTRY	
ESCI 43042	ENVIRONMENTAL GEOCHEMISTRY	
ESCI 43043	ENVIRONMENTAL MINERALOGY	
ESCI 43044	ENVIRONMENTAL ISOTOPES	
ESCI 44040	EARTH'S ENERGY TRANSITION	
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

1 All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

2 The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Geology Major (No Concentration)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Earth Electives		4
Foreign Language		4
Kent Core Requirement		3
	Credit Hours	**15**
Semester Two		
BSCI 10002 or BSCI 10110	LIFE ON PLANET EARTH (KBS) or BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	3-4
MATH 11022	TRIGONOMETRY (KMCR)	3
Major Elective		3
Foreign Language		4
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
CHEM 10058 or CHEM 10060	GENERAL CHEMISTRY FOR LIFE SCIENCES I or GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
ESCI 22000	DEGREE AND CAREER PATHS IN EARTH SCIENCES (ELR)	1
ESCI 23063	EARTH MATERIALS I	4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
ESCI 31070	EARTH MATERIALS II (WIC)	4
ESCI 31080	STRUCTURAL GEOLOGY	4

PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	Credit Hours	**13**
Semester Five		
ESCI 34061	PRINCIPLES OF PALEONTOLOGY	4
ESCI 42035 or MATH 12002 or MATH 30011	DATA ANALYSIS IN THE EARTH SCIENCES or ANALYTIC GEOMETRY AND CALCULUS I (KMCR) or BASIC PROBABILITY AND STATISTICS	3-5
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**13**
Semester Six		
Earth Science (ESCI) Upper-Division Elective (30000 or 40000 level)		3
Science Electives		4-5
Kent Core Requirement		3
General Elective		3
	Credit Hours	**14**
Third Summer Term		
ESCI 41092	SUMMER FIELD CAMP (ELR)	6
	Credit Hours	**6**
Semester Seven		
Earth Science (ESCI) Upper-Division Electives (30000 or 40000 level)		6
General Electives		9
	Credit Hours	**15**
Semester Eight		
ESCI 44070	SEDIMENTOLOGY AND STRATIGRAPHY	4
Earth Science (ESCI) Upper-Division Electives (30000 or 40000 level)		6-7
General Elective		2
	Credit Hours	**12**
	Minimum Total Credit Hours:	**120**

Environmental Geology Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Earth Electives		4
Foreign Language		4
Kent Core Requirement		3
	Credit Hours	**15**
Semester Two		
BSCI 10002 or BSCI 10110	LIFE ON PLANET EARTH (KBS) or BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	3-4
MATH 11022	TRIGONOMETRY (KMCR)	3
Major Elective		3
Foreign Language		4
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
CHEM 10058 or CHEM 10060	GENERAL CHEMISTRY FOR LIFE SCIENCES I or GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
ESCI 22000	DEGREE AND CAREER PATHS IN EARTH SCIENCES (ELR)	1
ESCI 23063	EARTH MATERIALS I	4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
CHEM 10059 or CHEM 10061	GENERAL CHEMISTRY FOR LIFE SCIENCES II or GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
ESCI 31070	EARTH MATERIALS II (WIC)	4
Kent Core Requirement		3
	Credit Hours	**12**
Semester Five		
ESCI 32066	GEOMORPHOLOGY	4
ESCI 34061	PRINCIPLES OF PALEONTOLOGY	4
ESCI 42035 or MATH 12002 or MATH 30011	DATA ANALYSIS IN THE EARTH SCIENCES or ANALYTIC GEOMETRY AND CALCULUS I (KMCR) or BASIC PROBABILITY AND STATISTICS	3-5
Kent Core Requirement		3
	Credit Hours	**14**
Semester Six		
ESCI 31080	STRUCTURAL GEOLOGY	4
ESCI 40380 or ESCI 43040 or ESCI 43042	BIOGEOCHEMISTRY or PRINCIPLES OF GEOCHEMISTRY or ENVIRONMENTAL GEOCHEMISTRY	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Kent Core Requirement		3
	Credit Hours	**15**
Third Summer Term		
ESCI 41092	SUMMER FIELD CAMP (ELR)	6
	Credit Hours	**6**
Semester Seven		
Environmental Geology Concentration Electives		6
General Electives		7
	Credit Hours	**13**
Semester Eight		
ESCI 44070	SEDIMENTOLOGY AND STRATIGRAPHY	4
Environmental Geology Concentration Elective		3

General Electives	6
Credit Hours	**13**
Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and communicate to others on the nature of scientific investigation and evidence.
2. Understand and communicate to others on the complex interrelationships of the biosphere, atmosphere, hydrosphere and lithosphere through geologic time.
3. Understand Earth materials and interpret geologic and environmental processes.
4. Synthesize geologic information to understand and solve geologic and environmental problems.
5. Demonstrate critical thinking skills.
6. Develop the skills to work as a geologist in the field and in the laboratory.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Geology is designed for those interested in a professional career in the field. The curriculum focuses on minerals, rocks, landforms, fossils, structural geology, geochemistry and field mapping, among others. Supplemental courses include introductory chemistry, physics, biology and mathematics. Students are also encouraged to specialize in an applied or theoretical area of the science.

The program features a capstone summer field course in the Black Hills of South Dakota.

Geology students may apply early to the M.S. degree in Geology and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

The Geology major includes the following optional concentration:

- The **Environmental Geology** optional concentration provides students with specialized training for careers in the well-established and growing field of environmental geology, including water resources, resource management and energy resources. The concentration's curriculum focuses on hydrology, hydrogeology and environmental monitoring techniques.

Geology - M.S.

College of Arts and Sciences
Department of Earth Sciences
www.kent.edu/earth-sciences

About This Program

The Master of Science degree in Geology provides qualified students the opportunity for advanced study in a wide variety of geologic fields. Focus areas include environmental research (water, surface and subsurface processes; geohazards; and natural resources), as well as evolution of earth's systems research (climate change, paleoecology and evolution, crustal processes).

Contact Information

- **David Singer** | dsinger4@kent.edu | 330-672-3006
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Atmospheric, earth, marine, and space sciences teachers, postsecondary

- 1.9% slower than the average
- 13,100 number of jobs
- $94,520 potential earnings

Geological and hydrologic technicians

- 5.5% faster than the average
- 19,000 number of jobs
- $50,630 potential earnings

Geoscientists, except hydrologists and geographers

- 4.9% about as fast as the average
- 31,800 number of jobs
- $93,580 potential earnings

Hydrologists

- 5.3% faster than the average
- 7,000 number of jobs
- $84,040 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: January 15
    Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ESCI 60084	GEOLOGY GRADUATE STUDENT ORIENTATION	1
ESCI 60087	WRITING IN THE EARTH SCIENCES	1
Additional Program Requirements [1]		24
Culminating Requirement		
ESCI 60199	THESIS I [2]	6
Minimum Total Credit Hours:		**32**

[1] Students must complete 8 credit hours at or above the 60000 level.

[2] Upon the completion of the thesis proposal defense, the student registers for 6 credit hours of ESCI 60199. Thereafter, the student must be continuously registered in ESCI 60299 until all degree requirements are met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
	3.000

- Students must participate in required orientation and colloquia.
- Students must accept and publicly defend thesis that incorporates the results of a program of original geologic research.
- All students will have a fundamental knowledge and understanding of earth materials by the end of the second year in the program. This will be fulfilled by a lecture and lab course in Earth Materials

or an equivalent course related to mineralogy and/or petrology as determined by the graduate coordinator.

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Show in-depth comprehension of several areas, including both basic and applied aspects of geology/earth sciences.
2. Formulate testable scientific hypotheses and carry out independent research using appropriate field, experimental, analytical and/or computational methods.
3. Describe, synthesize and interpret the results of a scientific investigation and understand its broader applications.

Geology - Minor

College of Arts and Sciences
Department of Earth Sciences
www.kent.edu/earth-sciences

About This Program

The Geology minor is for students who have a primary interest in a field that can be complemented by a basic knowledge of geological concepts. The minor can be of particular benefit to students who have a major or interest in the following: anthropology, architecture, business, geography, journalism, political science, environmental law, recreation and park management and other liberal arts or science fields.

Contact Information

- **Joseph Ortiz | jortiz@kent.edu |** 330-672-2225
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Earth Science (ESCI) Electives [1,2]		12
Minor Elective, choose from the following:		3
ESCI 11040	HOW THE EARTH WORKS (KBS)	
ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	
ESCI 21080	ALL ABOUT THE OCEANS (KBS)	
Minimum Total Credit Hours:		**15**

1 Earth Science (ESCI) electives must be chosen from courses not listed above. Students must meet prerequisites for all courses chosen as Earth Science (ESCI) electives.

2 Maximum 3 credit hours of ESCI 40096 may be applied toward the 12 elective credit hours.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Courses with S/U grade may not be applied toward the minor.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Paleontology - Minor

College of Arts and Sciences
Department of Earth Sciences
www.kent.edu/earth-sciences

About This Program

The Paleontology minor provides a comprehensive understanding of paleontology and its interdisciplinary nature. You will gain hands-on experience in the field and the lab while studying a diverse range of topics, including paleobotany, paleoecology and vertebrate paleontology. With the knowledge and skills acquired from this program, you will be well equipped for careers in the field of paleontology or any related field. Enroll now and uncover the secrets of the past. Read more...

Contact Information

- **Joseph Ortiz | jortiz@kent.edu |** 330-672-2225
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to this minor is selective, open only to students who have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirement		
ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
ESCI 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
ESCI 34061	PRINCIPLES OF PALEONTOLOGY	4
Minor Electives, choose from the following:		6-7
ANTH 18630	HUMAN EVOLUTION (KBS)	
ANTH 48810	HUMAN PALEONTOLOGY	
BSCI 30050	HUMAN GENETICS	
BSCI 30275	LOCAL FLORA (ELR)	
BSCI 40163	EVOLUTION	
BSCI 40556	VERTEBRATE ZOOLOGY	
ESCI 41079	ALL ABOUT DINOSAURS	
ESCI 41085	MASS EXTINCTIONS: CAUSES AND CONSEQUENCES	
ESCI 44070	SEDIMENTOLOGY AND STRATIGRAPHY	
ESCI 44072	MARINE PROCESSES	
ESCI 44074	PALEOCEANOGRAPHY	
Minimum Total Credit Hours:		**14**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Full Description

The Paleontology minor prepares students to integrate concepts in geology and biology to address issues in conservation paleobiology, historical and current causes of extinctions and evolutionary patterns on geological scales. Scientific knowledge about paleontology is used to inform different areas of formal study such as biological sciences, conservation biology, anthropology, environmental studies, geography and museum and natural history education.

Students in the minor gain broad knowledge of paleobiology and the interplay between the geosphere and the biosphere over geologic time as well as in the Anthropocene. Competencies focus on evolutionary processes over geologic time applied to the interpretation of modern and historic floras and faunas and communication about these issues to policymakers and the public.

Department of English

College of Arts and Sciences
Department of English
113 Satterfield Hall
Kent Campus
330-672-2676
english@kent.edu
www.kent.edu/english

Undergraduate Programs

- English - B.A.
- Teaching English as a Second Language - B.A.

Minors

- Creative Writing
- English
- Professional and Technical Writing

Graduate Programs

- Creative Writing - M.F.A.
- English - M.A.
- English - Ph.D.
- Teaching English as Second Language - M.A.

Certificates

Undergraduate Certificates

- Teaching English as a Foreign Language

Graduate Certificates

- Teaching English as a Second/Foreign Language

Licensure/Endorsement Programs - Non-Degree

Undergraduate

- Teaching English as a Second Language Endorsement Preparation

Graduate

- Teaching English as a Second Language Endorsement Preparation

Department of English Faculty

- Abuzeid, Ayham (2007), Associate Lecturer, M.A., Kent State University, 2010
- Ailiesei, Sorina M. (2013), Assistant Professor, Ph.D., Babes - Bolyai University, 2012

- Baker, Alexis M. (2017), Associate Professor, Ph.D., Kent State University, 2016
- Behney, Jennifer (2024), Associate Professor, Ph.D., Michigan State University, 2011
- Bowles, Noelle K. (2001), Associate Professor, Ph.D., University of Miami, 1996
- Bracher, Mark F. (1985), Professor, Ph.D., Vanderbilt University, 1981
- Brodsky, Adam H. (2008), Senior Lecturer, M.A., Kent State University, 2011
- Byrne, Peter M. (2008), Associate Professor, Ph.D., University of California, Irvine, 2004
- Canacci, James E. (1995), Senior Lecturer, M.A., Youngstown State University, 1995
- Christen-Syed, Shannon L. (2010), Associate Lecturer, M.A., Kent State University, 2004
- Clewell, Tammy (2000), Professor, Ph.D., Florida State University, 2000
- Cunningham, Jennifer M. (2009), Professor, Ph.D., Kent State University, 2012
- Dallacheisa, Tony G. (2008), Associate Lecturer, M.A., Ohio University, 2008
- Dauterich, Edward (1997), Professor, Ph.D., Kent State University, 2006
- Davis Patterson, Kathy S. (2000), Associate Professor, Ph.D., The Ohio State University, 1999
- Devore, Elizabeth E. (2010), Senior Lecturer, M.A., New Mexico Highlands University, 2009
- Dugas, Don-John (2005), Professor, Ph.D., Penn State University, 1999
- Dunmire, Patricia L. (1995), Professor, Ph.D., Carnegie Mellon University, 1995
- Elder, Dolores M. (2009), Associate Lecturer, M.A., Kent State University, 2010
- Ellis, Marnie K. (2003), Associate Lecturer, M.F.A., Bowling Green State University, 1999
- Erritouni, Ali (2005), Associate Professor, Ph.D., University of Miami, 2004
- Faller, Patrick M. (2011), Lecturer, M.F.A., West Virginia University-Morgantown, 2010
- Hall, Elizabeth A. (2011), Lecturer, M.A., University of Akron, 2017
- Harrington, Kristine (2016), Associate Lecturer, M.A., Youngstown State University, 1995
- Hayes, Amanda (2016), Associate Professor, Ph.D., Ohio University, 2015
- Hediger, Ryan R. (2011), Professor, Ph.D., University of Oregon, 2005
- Hendrickx, Jessy A. (2015), Associate Lecturer, M.A., Kent State University, 2002
- Hricko, Mary F. (1994), Professor , Ph.D., Kent State University, 2004
- Huot, Brian A. (2004), Professor, Ph.D., Indiana University of Pennsylvania, 1988
- Jones, Jessica M. (2016), Associate Lecturer, University Of Montana, 2014
- King, Robert J. (1998), Professor, M.F.A., Indiana University-Bloomington, 1998
- Krishnan, Uma S. (2001), Professor, Ph.D., Kent State University, 2014
- Lieske, Pamela J. (1997), Professor, Ph.D., University of Massachusetts, Amherst, 1996
- Lloyd, Keith S. (2002), Professor, Ph.D., University of Louisville, 1996
- Lyons, Janet L. (2010), Associate Lecturer, M.A., Kent State University, 2011
- Lyons, Jo-Leigh (1991), Senior Lecturer, M.A., Kent State University, 1996
- M'baye, Babacar (2006), Professor, Ph.D., Bowling Green State University, 2002
- MacLure, Jennifer (2017), Associate Professor, Ph.D., University of Wisconsin, Madison, 2017
- Martinez, Ann M. (2014), Associate Professor, Ph.D., University of Kansas, 2014
- Mechenbier, Mahli X. (1996), Senior Lecturer, J.D., University of Akron, 2002
- Miller, Ryan T. (2014), Professor, Ph.D., Carnegie Mellon University, 2013
- Mokros, Molly M. (2009), Associate Lecturer, M.A., New York University, 2002
- Neaderhiser, Stephen E. (2009), Associate Professor, M.A., University of Kansas, 2004
- Orr, Katherine M. (1990), Professor, Ph.D., Kent State University, 2010
- Patterson, G. R. (2018), Associate Professor, Ph.D., Miami University, 2013
- Raabe, Wesley (2008), Associate Professor, Ph.D., University of Virginia, Main Campus, 2006
- Remley, Dirk R. (1990), Professor, Ph.D., Kent State University, 2010
- Rilling, Sarah E. (2002), Professor, Ph.D., Northern Arizona University, 1998
- Robinson, Carol L. (2000), Professor, Ph.D., University of Georgia, 1994
- Roman, Christopher M. (1997), Professor, Ph.D., University of Alabama, 2004
- Rooks, Mary A. (2005), Assistant Professor, Ph.D., University of Mexico, 2004
- Rozner, Debbie L. (2010), Professor, M.Ed., George Washington University, 2004
- Sainato, Susan M. (1987), Professor, Ph.D., Kent State University, 2002
- Sanders, Michael T. (1995), Associate Professor, Ph.D., Kent State University, 2006
- Schauffler, Charlene M. (1991), Senior Lecturer, M.A., Kent State University, 1994
- Shaker, Bonnie J. (2013), Associate Professor, Ph.D., Case Western Reserve University, 1998
- Shank, Matthew A. (1983), Senior Lecturer, M.A., University of Akron, 1982
- Smith, Jeanne R. (1998), Senior Lecturer, M.A., State University of New York, Binghamton, 1986
- Sturr, Robert D. (1997), Associate Professor, Ph.D., University of Southern California, 1998
- Swick-Higgins, Chelsea R. (2010), Lecturer
- Takayoshi, Pamela D. (2004), Professor, Ph.D., Indiana University, Purdue University Indianapolis, 1995
- Tognazzini, Anthony C. (2023), Assistant Professor, M.F.A., Indiana University Bloomington, 2002
- Trogdon, Robert W. (1997), Professor, Ph.D., University of South Carolina-Columbia, 1996
- Uhrig, Mindy D. (2006), Senior Lecturer, M.A., University of Indiana, Bloomington, 1994

- Van Ittersum, Derek (2008), Professor, Ph.D., University of Illinois-Urbana, 2008
- Vogel, Lauren A. (2001), Associate Professor, M.A., Kent State University, 2005
- Wagoner, Elizabeth A. (2004), Assistant Professor, Ph.D., Kent State University, 2014
- Wetzl, Ana M. (2007), Professor, Ph.D., Indiana University of Pennsylvania, 2011
- Whiteleather, Hagan F. (2012), Assistant Professor, M.F.A., Iowa State University, 2019
- Willey, Nicole L. (1997), Professor, Ph.D., University of Alabama, 2003
- Wing, Catherine (2010), Associate Professor, M.F.A., University of Washington, 2004
- Winkler, Kyle M. (2018), Associate Professor, Ph.D., University of Pittsburgh, 2018
- Winter, James P. (2008), Associate Professor, M.F.A., Kent State University, 2012
- Wollenzier, Michele M. (2005), Associate Lecturer, M.A.T., Kent State University, 2003

English (ENG)

ENG 01001 INTRODUCTION TO COLLEGE WRITING-STRETCH 3 Credit Hours
Introduces the instruction and experiences necessary for students to acquire college-level literacy, with an emphasis on reading and writing college level texts. Course does not count toward graduation.
Prerequisite: ACT English score of 0-17; or SAT Evidence Based Reading and Writing score of 200-470; or WritePlacer score of 0-3; or Accuplacer Reading Comprehension score of 200-249 and WritePlacer score of 4.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02008 ESL GRAMMAR AND WRITING BEGINNER 1 3 Credit Hours
Students learn and apply the rules of elementary grammar in their spoken and written English at a beginner level. Students learn to produce simple paragraphs with beginner-level control of grammar on familiar topics using the writing process. Course culminates with writing a paragraph on a familiar topic with organization, grammar, vocabulary, spelling, punctuation and capitalization appropriate for a beginner level. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02009 ESL GRAMMAR AND WRITING BEGINNER 2 3 Credit Hours
Students apply rules of elementary grammar in spoken and written English at exiting beginner level. Topics from ENG 02008 are expanded upon. Students improve their ability to write simple paragraphs on familiar topics. Course culminates with improved ability to write a five-sentence paragraph on familiar topic with level-appropriate organization, grammar, vocabulary, spelling, punctuation and capitalization. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02010 ESL GRAMMAR AND WRITING PRE-INTERMEDIATE 1 3 Credit Hours
Students learn and apply the rules of grammar in spoken and written English at an initial pre-intermediate level. Focus is on writing well-developed, level-appropriate paragraphs on familiar topics using the writing process. Course culminates in writing one double-spaced page of organized paragraphs on familiar topics at the initial pre-intermediate level. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02011 ESL GRAMMAR AND WRITING PRE-INTERMEDIATE 2 3 Credit Hours
Students learn and apply the rules of grammar in spoken and written English at an exiting pre-intermediate level. Skills from ENG 02010 are reviewed and expanded upon in this course. Course culminates in writing organized and well developed paragraphs on familiar topics. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02012 ESL WRITING AND GRAMMAR INTERMEDIATE 1 3 Credit Hours
Students develop writing skills and expand and apply their knowledge of grammar at an initial intermediate level. Focus is on developing and organizing ideas in writing for different purposes and audiences with control of vocabulary choice, grammar, sentence variety and punctuation. Course culminates in using writing process for at least two short compositions to compare and contrast ideas and express an opinion. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02013 ESL GRAMMAR AND WRITING INTERMEDIATE 2 3 Credit Hours
Students apply the rules of grammar in written English at an exiting intermediate level. Topics from previous levels are reviewed and expanded upon in this course. Focus is on writing for different purposes and audiences with greater control of vocabulary choice, grammar, sentence variety, organization and development. Course culminates in writing a short problem solution essay and reflection at the intermediate level. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02014 ESL ACADEMIC WRITING 1 3 Credit Hours
Students develop the writing skills needed for participation in academic coursework at an initial high-intermediate level. Focus is on writing essays that are well-developed, organized, grammatically accurate and cohesive and cite source material. Course culminates in writing reflection compositions and cause-and-effect essays at the initial high-intermediate level. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02108 ESL READING AND VOCABULARY BEGINNER 1 3 Credit Hours
Students develop reading proficiency at a beginner level, establishing a basic vocabulary for everyday living which they can recognize in written and spoken English. Focus is on noticing grammar, increasing vocabulary knowledge, recognizing organizational patterns and learning new information with beginner texts. Course introduces students to different reading strategies and encourages independent reading habits. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02109 ESL READING AND VOCABULARY BEGINNER 2 3 Credit Hours
Students develop reading proficiency at an exiting beginner level, establishing a basic vocabulary for everyday living which they can recognize in written and spoken English. Topics from ENG 02108 are reinforced and expanded. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02110 ESL READING AND VOCABULARY PRE-INTERMEDIATE 1 3 Credit Hours
Students develop skill understanding and producing spoken English at an initial pre-intermediate level. Focus is on listening comprehension skills for short texts on a wide range of familiar and simplified academic topics and the development of interpersonal communication skills and habits that encourage independent listening in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02111 ESL READING AND VOCABULARY PRE-INTERMEDIATE 2 3 Credit Hours
Students develop skill understanding and producing spoken English at an exiting pre-intermediate level. Focus is on improving listening comprehension skills for short texts on a wide range of familiar and simplified academic topics, refining interpersonal communication skills on everyday topics and encouraging independent listening in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02112 ESL READING AND VOCABULARY INTERMEDIATE 1 3 Credit Hours
Students develop reading proficiency at an initial intermediate level. Focus is on building vocabulary knowledge of abstract and academic topics, applying reading strategies, learning how to summarize level-appropriate readings and becoming independent readers in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02113 ESL READING AND VOCABULARY INTERMEDIATE 2 3 Credit Hours
Students develop reading proficiency at an exiting intermediate level. Topics from previous courses are reviewed and expanded upon in this course. Focus is on expanding vocabulary knowledge of abstract and academic topics, applying reading strategies, scaffolded text annotation and summary writing, responding critically to reading texts and independent reading in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02114 ESL ACADEMIC READING 1 3 Credit Hours
Students develop proficiency in critical reading skills for academic study at an initial high-intermediate level. Focus is on applying reading strategies to authentic reading texts, academic vocabulary development, paraphrasing, summarizing, participating in classroom discussion and independent reading in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02208 ESL LISTENING AND SPEAKING BEGINNER 1 3 Credit Hours
Students develop listening and speaking skills at a beginner level. Focus is on participating in verbal exchanges in English related to everyday life and starting to develop independent listening habits. Students begin to recognize and use simple present, simple past and future references in statements, questions and answers. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02209 ESL LISTENING AND SPEAKING BEGINNER 2 3 Credit Hours
Students develop listening and speaking skills at an exiting beginner level. Focus is on more skillful participation in verbal exchanges in English related to everyday life and developing independent listening habits. Students refine ability to recognize and use simple present, simple past and future references in statements, questions and answers. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02210 ESL LISTENING AND SPEAKING PRE-INTERMEDIATE 1 3 Credit Hours
Students develop skill understanding and producing spoken English at an initial pre-intermediate level. Students develop listening comprehension skills for short texts on a wide range of familiar and simplified academic topics. Students become increasingly competent at understanding fast spoken English on everyday topics. Students practice interpersonal communication skills, including short presentations about themselves, and are guided in habits that encourage independent listening in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02211 ESL LISTENING AND SPEAKING PRE-INTERMEDIATE 2 3 Credit Hours
Students develop skill understanding and producing spoken English at an exiting pre-intermediate level. Topics from ENG 02210 are reviewed for reinforcement. Focus is on comprehension skills for short texts on a wide range of familiar and some simplified academic topics, competence at understanding fast spoken English on everyday topics, interpersonal communication skills and independent listening in English. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02212 ESL LISTENING AND SPEAKING INTERMEDIATE 1 3 Credit Hours
Students develop skill understanding and producing spoken English at an initial intermediate level. Listening focus is on applying comprehension strategies, vocabulary development and note taking on short academic lectures and level-appropriate authentic listening materials. Speaking focus is on summarizing, classroom discussion and associated skills and short presentations. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02213 ESL LISTENING AND SPEAKING INTERMEDIATE 2 3 Credit Hours
Students develop skill understanding and producing spoken English at an exiting intermediate level. Topics from ENG 02212 are reviewed and expanded upon in this course. Listening focus is on applying strategies, vocabulary development, note taking, paraphrasing and summary writing. Speaking focus is on refining classroom discussion skills and making short presentations. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02214 ESL ACADEMIC LISTENING AND SPEAKING 1 3 Credit Hours
Students develop skill understanding and producing spoken English for academic study at an initial high-intermediate level. Listening focus is on academic vocabulary development, note taking strategies and summarizing authentic and academic listening texts. Speaking focus is on developing communicative competence in academic discussion. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 02500 ESL PRONUNCIATION 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Study of English pronunciation with practice in segmental and suprasegmental features (sounds, sound combinations, syllables, stress, rhythm, and intonation). Students are placed in the appropriate course based on test score. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 1.4 lecture
Grade Mode: Standard Letter

ENG 11002 COLLEGE WRITING-STRETCH (KCMP) 3 Credit Hours
Continues the instruction and practice necessary to write for college, with emphasis on the reading, thinking, writing and technological skills necessary for writing college level texts.
Prerequisite: Minimum C grade in ENG 01001; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Composition, Transfer Module Composition

ENG 11011 COLLEGE WRITING (KCMP) 3 Credit Hours
The study and practice of academic writing, including an introduction to rhetorical principles, the writing process, critical reading, research and technology. Students who do not meet the prerequisites but have a minimum 2.8 high school GPA or a score of 165 on the GED Reasoning Through Language Arts should contact the department for approval to register.
Prerequisite: ACT English score of 18-25; or SAT Evidence Based Reading and Writing score of 480-590; or Accuplacer Reading Comprehension score of 250 or higher and WritePlacer score of 4; or WritePlacer score of 5 or higher.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Composition, Transfer Module Composition

ENG 12011 ESL ACADEMIC WRITING 2 3 Credit Hours
Students apply writing skills needed for participation in academic coursework at an exiting high-intermediate level. Topics from previous courses are reviewed and expanded upon. Focus is on writing cause-effect essays and summary responses that are well-developed, organized, grammatically accurate and cohesive and skillfully use source material.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12012 ESL WRITING FOR ACADEMIC DISCIPLINES 1 3 Credit Hours
Students develop writing skills needed for participation in academic coursework at the initial advanced level. Focus is on composing an annotated bibliography and guided research paper in each student's intended field of study, using library resources and skillfully working with source material. Students learn to independently outline, revise and edit their own work.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12013 ESL WRITING FOR ACADEMIC DISCIPLINES 2 3 Credit Hours
Students refine writing skills needed for participation in academic coursework at the initial advanced level. Focus is on composing critical responses to academic literature in each student's intended field of study, using library resources and skillfully working with source material. Students develop skills to independently outline, revise and edit their own work.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12014 ESL ACADEMIC READING 2 3 Credit Hours
Students develop proficiency in critical reading skills for academic study at an exiting high-intermediate level. Topics from previous courses are reviewed and expanded upon in this course. Focus is on critical evaluation of authentic reading texts, academic vocabulary development, paraphrasing, summarizing, participating in classroom discussion and independent reading in English.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12095 SPECIAL TOPICS IN ENGLISH AS SECOND LANGUAGE 1-3 Credit Hours
(Repeatable for credit) Overview of skills related to a special topic in second language learning.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ENG 12111 ESL ADVANCED ACADEMIC READING 1 3 Credit Hours
Students develop skills to understand and analyze reading texts at the advanced level. Focus is on noticing genre features of academic writing, applying reading strategies, increasing reading speed and independence and composing critical responses to reading texts in students' majors.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12112 ESL ADVANCED ACADEMIC READING 2 3 Credit Hours
Students further develop skills to understand and analyze reading texts at the advanced level. Focus is on noticing genre features of academic writing, applying reading strategies, increasing reading speed and independence and composing critical responses to reading texts in students' majors.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12211 ESL ACADEMIC LISTENING AND SPEAKING 2 3 Credit Hours
Students develop skill understanding and producing spoken English for academic study at an exiting high-intermediate level. Listening focus is on academic vocabulary development, note taking strategies and critically responding to academic listening texts. Speaking focus is on developing extending communicative competence in academic discussion. Course does not count toward graduation.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12212 ESL ADVANCED ACADEMIC SPEAKING AND LISTENING 1 3 Credit Hours
Students develop skill understanding and producing spoken English for academic purposes at an initial advanced level. Focus is on note taking, summarizing, independent listening, communicating critical responses, presentation skills and skillfully participating in classroom discussion.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12213 ESL ADVANCED ACADEMIC SPEAKING AND LISTENING 2 3 Credit Hours
Students refine skills in understanding and producing spoken English for academic purposes at an advanced level. Focus is on note taking, summarizing, independent listening, communicating critical responses, presentation skills and skillfully participating in classroom discussion.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 12507 ESL DEBATE 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Practice of skills for persuasive speaking, making effective arguments and active listening. Engagement in formal and informal debates and presentations. Must score minimum level 7 on proficiency test.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 1.4 lecture
Grade Mode: Standard Letter

ENG 12508 ESL PUBLIC SPEAKING 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Preparation for continued academic study and professional advancement, including effective techniques for speaking in public. Design and analysis of speeches and presentations. Must score minimum level 8 on proficiency test.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 1.4 lecture
Grade Mode: Standard Letter

ENG 12605 ESL AMERICAN CULTURE I 2 Credit Hours
Overview of basic American values and beliefs related to history, immigration, diversity, and geography. Must score minimum level 5 on proficiency test.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 2.33 lecture
Grade Mode: Standard Letter

ENG 12606 ESL AMERICAN CULTURE II 2 Credit Hours
Overview of basic American values and beliefs related to education, holidays, government and politics, the criminal justice system, America in the 21st century, etc. Must score minimum level 6 on proficiency test.
Prerequisite: None (placement and registration done by the department).
Schedule Type: Lecture
Contact Hours: 2.33 lecture
Grade Mode: Standard Letter

ENG 12707 ESL BUSINESS ENGLISH I 2 Credit Hours
Overview of business communication, business writing strategies, and computer skills in the workplace. Must score minimum level 7 on proficiency test.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

ENG 12708 ESL BUSINESS ENGLISH II 2 Credit Hours
Development of oral and written business communication skills.
Prerequisite: ENG 12707 with a minimum C- grade; and special approval.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

ENG 12801 ESL ACADEMIC SUCCESS 1 Credit Hour
This class will provide transitional support for students preparing to enter an undergraduate or graduate course of study from the ESL Center. Students will focus on the social, cultural, and academic skills needed to be competent and successful in an American university setting including understanding university policies, academic expectations, and cultural norms.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENG 20002 INTRODUCTION TO TECHNICAL WRITING 3 Credit Hours
Introduction to communication practices within technical communities. Planning, drafting, revising and editing. Process descriptions, object descriptions, instructional texts, technical correspondence, problem reports, critical reflection.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or minimum C- grade in ENG 11002, ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 20021 INTRODUCTION TO CREATIVE WRITING 3 Credit Hours
Practice in various forms of creative writing with some emphasis on student interests and on sources of creativity.
Prerequisite: Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002, or ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 21001 INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD) 3 Credit Hours
Study of selected ethnic American writers; may include works by African, Asian, Hispanic, Jewish, Native Americans and other groups.
Prerequisite: Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002 or ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 21002 INTRODUCTION TO WOMEN'S LITERATURE (DIVD) 3 Credit Hours
Introduction to works by women writing in English, and to literary and gender issues they raise.
Prerequisite: Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002 or ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 21003 INTRODUCTION TO LGBT LITERATURE (DIVD) 3 Credit Hours
Introduction to lesbian, gay, bisexual and transgender literature in English and to issues of gender, sexuality and culture raised by this literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 21011 RESEARCH WRITING (KCMP) 3 Credit Hours
Continuation of college-level writing instruction with emphasis on research and inquiry, culminating in a lengthy written and/or multimodal project.
Prerequisite: Minimum C- grade in ENG 11002 or ENG 11011 or HONR 10197; or ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Composition, Transfer Module Composition

ENG 21054 INTRODUCTION TO SHAKESPEARE (KHUM) 3 Credit Hours
Study of representative plays and poems in the context of Shakespeare's age, his language and his cultural influence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Humanities, Transfer Module Humanities

ENG 22071 STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM) 3 Credit Hours
Great works of world literature read in English, from ancient world to 1700, covering a wide range of ethnic and national voices, genres and traditions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Humanities, Transfer Module Humanities

ENG 22072 STORIES TO SAVE THE WORLD: LITERATURE AND THE FUTURE OF HUMANITY (KHUM) 3 Credit Hours
Great works of world literature read in English, from 1700 to today, covering a wide range of ethnic and national voices, genres and traditions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

ENG 22073 MAJOR MODERN WRITERS: BRITISH AND UNITED STATES (KHUM) 3 Credit Hours
Introduction to British and U.S. writers of the 20th and 21st centuries; study of their works in their literary and cultural contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Humanities, Transfer Module Humanities

ENG 24001 INTRODUCTION TO LITERARY STUDY 3 Credit Hours
Introduction to techniques for reading and writing about literature, with emphasis on reading strategies for prose, poetry and drama. Literary terms, composition of interpretive essays, and literary research is also studied.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 24002 INTRODUCTION TO COMPOSITION THEORY 3 Credit Hours
Provides an introduction to composition theory, research in writing studies and pedagogical practices for academic writing. Students learn different methods of teaching writing by producing essays and projects within different genres and by applying different approaches to composition to their own work. Students examine writing, as well as research and teaching about writing, as socially, politically and historically situated activities.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 25001 LITERATURE IN ENGLISH I 3 Credit Hours
British literature written before 1800 studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 25002 LITERATURE IN ENGLISH II 3 Credit Hours
British literature written since 1800 studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 25004 LITERATURE IN THE UNITED STATES I 3 Credit Hours
U.S. literature from the colonial period until 1865 studies within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 25005 LITERATURE IN THE UNITED STATES II 3 Credit Hours
U.S. literature from 1865 to the present studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ENG 26001 POPULAR FORMS OF LITERATURE 3 Credit Hours
Introduction to popular forms of literature such as the western, the detective story, science fiction, fantasy, the war story and others.
Prerequisite: Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002; or ENG 11011; or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 26095 SOPHOMORE SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) In-depth study of a particular writer, theme or literary movement, such as literature and film, gothic novels.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30050 WRITING AND RHETORIC IN A DIGITAL AGE 3 Credit Hours
Writing course with a focus on learning and using a variety of tools available within contemporary digital composing environments.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30051 WRITING, RHETORIC AND NEW MEDIA 3 Credit Hours
Rhetorical principles for multimodal writing to produce rhetorically effective professional, scholarly, personal, and civic texts that integrate some blend of written word, visuals, images, audio and video.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30053 WRITING FOR VIDEO GAMES 3 Credit Hours
Video Game Writing, a fast-paced and dynamic discipline, encompasses ever-evolving skills and techniques from many areas, including fiction writing, script crafting, game design, and storytelling. Particular attention will be given to writing skills connected with the development of characters, plots, and worlds. In addition, this course will focus on specific techniques drawn from these writing and design areas, highlighting materials from writers and designers involved in the industry.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

ENG 30062 PRINCIPLES OF TECHNICAL WRITING 3 Credit Hours
Introduces theoretical principles of technical communication. Extensive practice in the use, evaluation and production of complex technical documents including research reports/research proposals. Emphasis on oral, written and electronic communication.
Prerequisite: Minimum C- grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30063 PROFESSIONAL WRITING 3 Credit Hours
Practice norms and strategies of effective workplace communication.
Prerequisite: Minimum C- grade in ENG 21011 or HONR 10297; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

ENG 30064 ARGUMENTATIVE PROSE WRITING 3 Credit Hours
Practice in writing argumentative essays, with emphasis on discussion of student work.
Prerequisite: Minimum C- grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30065 EXPOSITORY PROSE WRITING 3 Credit Hours
Practice in prose composition with emphasis on exposition and discussion of student work.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30066 WRITING IN THE PUBLIC SPHERE (ELR) 3 Credit Hours
Writing course focusing on a multimodal service-learning project collaborating with peer and community partners in an online, hybrid or face-to-face delivery system.
Prerequisite: Minimum C- grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 30067 FICTION WRITING I 3 Credit Hours
Instruction and practice in writing fiction with specific models and discussions of student work on a weekly basis.
Prerequisite: ENG 20021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30068 FICTION WRITING II 3 Credit Hours
Continued instruction and practice in writing of fiction with specific models and discussion of student work on a weekly basis.
Prerequisite: ENG 30067.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30069 POETRY WRITING I 3 Credit Hours
Instruction in and practice of writing poetry with specific models and discussion of student work on a weekly basis.
Prerequisite: ENG 20021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30070 POETRY WRITING II 3 Credit Hours
Continued practice in writing of poetry with specific models and discussion of student work on a weekly basis.
Prerequisite: ENG 30069.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30071 CREATIVE NONFICTION 3 Credit Hours
Instruction and practice in writing creative nonfiction with specific models and discussions of student work on a weekly basis.
Prerequisite: Minimum C grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30074 GRAMMAR FOR EDITING 3 Credit Hours
Course focuses on editing practices that require knowledge of the rules of grammar, usage, and stylistic conventions in a variety of professional fields.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30075 STARTING A NOVEL 3 Credit Hours
Studies aspects of novel writing, building toward a final project in which students develop a chapter of their own novels.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 30095 JUNIOR SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)An opportunity to focus on important issues in literature, writing, criticism or cultural studies.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31001 FUNDAMENTAL ENGLISH GRAMMAR 3 Credit Hours
Study of grammatical structures and matters of usage and style in edited U.S. English.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31002 HISTORY OF THE ENGLISH LANGUAGE 3 Credit Hours
Study of the development of the English language from the Indo-European period to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31003 LINGUISTICS 3 Credit Hours
Survey of language study including linguistic tools of analysis such as phonetics, morphology and syntax, and selected topics in applied linguistics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31004 LEXICOLOGY/LEXICOGRAPHY 3 Credit Hours
In-depth study of the lexicon in language use and the reasons for its expansion and continuous change. Study of tools in lexicography and analysis of the role of lexicography in language education.
Prerequisite: ENG 31003.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31005 CHILD SECOND LANGUAGE ACQUISITION 3 Credit Hours
Explores theory, research and teaching/learning applications of second language acquisition in children.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31006 WORLD ENGLISHES (DIVG) (WIC) 3 Credit Hours
Explores English varieties in the context of world languages, examining language politics with a focus on first/second language education and literacy in an electronic age.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Writing Intensive Course

ENG 31007 PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours
Theoretical bases, approaches, techniques of second language pedagogy at the elementary and secondary levels. Inquiry into English as a Second Language methods, materials and lesson planning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31008 GRAMMAR FOR TEACHING ENGLISH AS A SECOND/ FOREIGN LANGUAGE 3 Credit Hours
Introduces students to grammars of spoken and written English and pedagogical grammar. Topics include parts of speech, tense and aspect, clause and phrase types, grammar in genre and pedagogical applications relevant to the English as a second/foreign language profession.
Prerequisite: ENG 31001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31009 ADULT SECOND LANGUAGE ACQUISITION 3 Credit Hours
Explores theory, research, teaching, and learning applications of second language acquisition in adult populations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31010 THE BILINGUAL MENTAL LEXICON 3 Credit Hours
Course investigates word memory, meaning and change within language acquisition and teaching. Questions addressed include what it means to 'know' a word, how much vocabulary is needed for different language proficiency levels, the implications of cognates and false cognates and how language change over time may affect vocabulary learning and use. Research tools of corpus linguistics are applied and practiced, including the use of academic and other word lists, concordances in lexical frequency and collocational analyses and data driven learning for second language discovery and acquisition.
Prerequisite: ENG 31003.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31012 GENDER AND LANGUAGE 3 Credit Hours
This course applies linguistic concepts to examine gendered language in written and oral discourse, focusing on the definition of gender and how we experience it in our lives.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 31095 SPECIAL TOPICS IN LINGUISTICS 3 Credit Hours
(Repeatable for credit) Study of specific topics in linguistics such as sociolinguistics, phonetics and phonology or bi- and multi-lingualism.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 32001 CHILDREN'S LITERATURE 3 Credit Hours
Survey of children's literature from Mother Goose rhymes and picture books through modern realistic fiction.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 32002 LITERATURE FOR YOUNG ADULTS 3 Credit Hours
Study of literature appropriate to young adults.
Prerequisite: ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33001 U.S. LITERATURE TO 1865 3 Credit Hours
U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the Colonial period through the Civil War.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33002 U.S. LITERATURE FROM 1865 TO 1945 3 Credit Hours
U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the close of the Civil War through World War II.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33003 U.S. LITERATURE FROM 1945 TO PRESENT 3 Credit Hours
U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the close of World War II to the present.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33005 NATIVE AMERICAN LITERATURE (DIVD) 3 Credit Hours
This course explores Native American literature from regions of the U.S., including Alaska and Hawaii. Students learn approaches to traditional and contemporary forms of storytelling and song/poetry as well as recent fiction and memoir. Course prepares students to enter dialogue about key elements of Indigenous perspectives as informed readers.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 33010 AFRICAN-AMERICAN LITERATURE TO 1900 3 Credit Hours
(Cross-listed with AFS 32001) Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Walker, Truth, Garnet, Douglass, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnutt and Dunbar.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33012 MODERN AFRICAN-AMERICAN LITERATURE 3 Credit Hours
(Cross-listed with AFS 32002) Study of African-American literature from the early twentieth century to the present. The authors include Toomer, Hughes, Larsen, Wright, Baldwin, Hansberry, Jones, Lorde, Walker, Morrison, Mosley, Youngblood and Carter.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33013 AFRICANA WOMEN'S LITERATURE (DIVG) 3 Credit Hours
(Cross-listed with AFS 37100) Introduces students to literary works by African and Caribbean women.
Prerequisite: ENG 11011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ENG 33014 AFRICAN-AMERICAN WOMEN'S LITERATURE 3 Credit Hours
(Cross-listed with AFS 37200) Introduces students to literary works by African-American women.
Prerequisite: ENG 11011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 33015 AFRICAN LITERATURES (DIVG) 3 Credit Hours
(Cross-listed with AFS 32050) Examines works of major 20th-century African, African American and Caribbean writers and intellectuals. Authors include Niane, Achebe, Emecheta, Prince, Hurston, Hughes, Cesaire, Senghor, Soyinka and many others.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ENG 34001 MEDIEVAL LITERATURE 3 Credit Hours
Medieval literary themes, genres, and authors studied in their historical and cultural contexts. Selections from Anglo-Saxon and Middle English literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34002 BRITISH LITERATURE, 1500-1660 3 Credit Hours
British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Renaissance and Reformation literature through the English Civil War.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34003 BRITISH LITERATURE, 1660-1800 3 Credit Hours
British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Restoration, Augustan and early Romantic literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34004 BRITISH LITERATURE, 1800-1900 3 Credit Hours
British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Romantic and Victorian literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34005 BRITISH AND IRISH LITERATURE, 1900-PRESENT 3 Credit Hours
British and Irish literary themes, genres and authors studied in their historical and cultural contexts. Selections from modern and post modern literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34011 WORLD LITERATURE IN ENGLISH (DIVG) 3 Credit Hours
An examination of selected writings in English by postcolonial authors from Africa, Asia, the Caribbean and other parts of the world.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ENG 34021 WOMEN'S LITERATURE (DIVD) 3 Credit Hours
Critical and theoretical consideration of gender issues concerning British and U.S. women writers studied in their historical and cultural contexts.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 34031 SHORT STORY 3 Credit Hours
Critical analysis of short stories written by important world authors. Selections include stories originally written in English and stories translated into English.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34041 FAIRY TALES 3 Credit Hours
Study of classic fairy tales by Perrault, Grimms, Andersen and others as fundamental texts of Western culture worthy of literary criticism.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34055 SHAKESPEARE 3 Credit Hours
Study of plays representing Shakespeare's entire career, including Henry IV parts I and II, The Merchant of Venice, Measure for Measure, Hamlet, Othello and The Tempest.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34065 CHAUCER 3 Credit Hours
Close study of Chaucer's Canterbury Tales, with some attention to courtly poems and/or selected lyrics.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34070 KNIGHTS AND OUTLAWS IN LITERATURE AND CULTURE 3 Credit Hours
This course invites students to explore literary representations of iconic medieval figures while examining the historical and cultural contexts that produced them. The focus is on Arthurian literature along with the "Matter of the Greenwood" (medieval outlaw literature). Course lectures cover the origins of these figures and trace their representation from the Middle Ages to the present. Emphasis is placed on the changes the figures/stories have undergone and how this is reflective of different periods/cultures. Students critically engage the material and produce their own analysis of the literature set within a historical/cultural context.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 34090 SHAKESPEARE IN PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for credit) Course is designed around a field trip to the American Shakespeare Center in Staunton, VA, during which students attend performances of plays and participate in workshops. Students also attend at least one performance of an early modern play staged in Northeast Ohio. Students formally study all the plays before attending performances of them.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture, Study Away
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 34095 SPECIAL TOPICS:MAJOR AUTHOR STUDIES 3 Credit Hours
(Repeatable for credit when topics varies) Intensive study of one or more authors from the English-speaking world.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 35105 LITERATURE, CULTURE AND ENVIRONMENT 3 Credit Hours
Studies literature and other cultural artifacts in the context of environment and nonhuman entities more generally, including plants, animals, landscapes, buildings, roads, and more. Investigates such issues as ecological crisis, climate change, species extinctions, the impacts of geography on culture, urban environments, space and place, nonhuman lives, wilderness, and more. Courses may focus on a single national literature, or on a particular time period, or they may be thematically, regionally, or otherwise organized.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 35201 THE BIBLE AS LITERATURE 3 Credit Hours
Study of Bible as a great book subject to literary criticism and as a main document of Western culture. Old and New Testaments read.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 35301 LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD) 3 Credit Hours
Study of theory, language and other aspects of lesbian, gay, bisexual and transgendered literature and culture.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ENG 35401 SCIENCE FICTION 3 Credit Hours
Study of the origins, history, themes and major works of science fiction drawn from a variety of national literatures, as well as the adaptation of literary works into film, television, graphic novels, video games, and other forms.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 36005 FILM AND NARRATIVE 3 Credit Hours
Studies film as narrative, as story. Emphases will range from thematically oriented courses to courses organized by historical period, national context, or other criteria. Courses may investigate literary texts (such as novels or plays) made into films or the relationship between literature and film in other ways.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 37001 CLASSICAL RHETORIC 3 Credit Hours
Ancient approaches to rhetoric studied in their historical and cultural contexts. Selections from Greek and Roman thinkers such as the Sophists, Plato, Aristotle, Cicero and Quintilian.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 38001 CRITICAL THEORY AND READING 3 Credit Hours
Introduction to major interpretive paradigms in literary studies, from American New Criticism to the present, with emphasis on strategies for analyzing poetry, drama and narrative fiction.
Prerequisite: ENG 21011 or HONR 10297; and ENG 24001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 38002 RHETORIC AND WRITING STUDIES 3 Credit Hours
Introduction to theories and scholarship that have shaped the disciplinary study of rhetoric and writing, including key figures and concepts from classical and modern rhetoric that continue to influence contemporary writing scholarship and pedagogy.
Prerequisite: ENG 21011 or HONR 10297; and ENG 24001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 38895 SPECIAL TOPICS IN WRITING 3 Credit Hours
(Repeatable for credit) Topics vary with an emphasis on writing may. Topics include editing, publishing and grammar.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39095 SPECIAL TOPICS IN LITERARY HISTORY 3 Credit Hours
(Repeatable for credit) Topics vary in the study of selected literary histories such as the travel narrative, the fairy tale, the detective story and postcolonial literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39495 SPECIAL TOPICS IN LITERATURE 3 Credit Hours
(Repeatable for credit) Special topics include but are not limited to drama, poetry, fiction, ethnic literature, women's literature and comparative literature.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39595 SPECIAL TOPICS IN LITERARY CRITICISM 3 Credit Hours
(Repeatable for credit) Study of selected topics in literary criticism such as reader response criticism, psychoanalytic methodologies or Marxist approaches.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39895 SPECIAL TOPICS IN RHETORIC, COMPOSITION AND WRITING 3 Credit Hours
(Repeatable for credit) Study of selected topics in rhetoric, composition and writing such as historical and contemporary studies of political and professional discourse.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 39995 SPECIAL TOPICS CULTURAL STUDIES 3 Credit Hours
(Repeatable for credit) Study of selected topics in cultural studies organized around a particular mode or methodology of cultural analysis.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 40072 HOW TO EDIT PROFESSIONALLY 3 Credit Hours
Provides students with an overview and practical experience of the editing and proofreading process for the professional publishing industry. Provides instruction, practice and feedback on editing documents academic and nonacademic, digital and print, often including fact-checking, proofreading, working with social media and more.
Prerequisite: ENG 21011 or HONR 10297; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 40073 HOW TO PUBLISH: BOOKS AND BEYOND 3 Credit Hours
Students learn how to undertake the publishing process for books, articles and more. Addresses how to conceive of publishable work, create the content, locate publishing venues, communicate with those venues, market products and other elements of publishing. Students have the opportunity to submit their work for actual publication as part of this course.
Prerequisite: ENG 21011 or HONR 10297; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 40089 INTERNATIONAL EXPERIENCE: THEMES IN STUDY ABROAD (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) This course invites students to explore English themes while traveling abroad. Students learn about the course material within a particular/relevant geographic/cultural setting. Course lectures and discussion prior to the class trip prepare students to situate the material within the geographic/cultural context, thus prompting students to be critically engaged during the travel dates. After the study abroad portion of the course, students are required to evaluate the course material/travel via a final project that draws connections between both.
Prerequisite: ENG 21011 or HONR 10297; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

ENG 40099 WRITING PORTFOLIO (ELR) 2 Credit Hours
Directed practice in constructing a portfolio of original writing, which may be creative, expository, technical, or preprofessional in nature.
Prerequisite: Creative Writing minor or Professional and Technical Writing minor; and junior standing.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ENG 41001 SOCIOLINGUISTICS IN SCHOOLING (DIVD) (WIC) 3 Credit Hours
Examines the interactions between society and language. Explores pedagogical implications of language variation.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Writing Intensive Course

ENG 41003 LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT 3 Credit Hours
Advanced inquiry into English as a Second Language teaching methods, curriculum design, and materials selection, use and design. Assessment of learners in a student-centered ESL or language curriculum.
Prerequisite: ENG 31007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 41092 ESL PRACTICUM IN INTENSIVE ENGLISH PROGRAMS (ELR) 3 Credit Hours
(Repeatable for credit) Provides opportunities for students to observe, assist, and or teach English as a second language in the ESL Center, including 70 fieldwork hours. Participating ESL Center classes are held Monday through Friday.
Pre/corequisite: ENG 31007.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41093 VARIABLE TITLE WORKSHOP IN ENGLISH 1-6 Credit Hours
(Repeatable for credit) An opportunity to focus on concerns of the discipline and on new developments in writing, criticism, literature and career opportunities.
Prerequisite: Junior standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 41094 COLLEGE TEACHING ASSISTANT (ELR) 1-3 Credit Hours
(Repeatable for credit) An opportunity to assist in the development and delivery of a college course in English. Expectations may include group and class leadership, selection of materials, development of classroom inquiry techniques, and multimedia support.
Prerequisite: Senior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Open to advanced undergraduate students in English or TESL. Only 3 hours of individual investigation count toward the English major.
Prerequisite: Junior standing; and special approval of instructor and department.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ENG 41098 GUIDED RESEARCH IN ENGLISH (ELR) 1-3 Credit Hours
(Repeatable for credit) Independent student research with faculty guidance.
Prerequisite: Junior standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41192 ESL PRACTICUM IN A P-12 SETTING (ELR) 3 Credit Hours
(Repeatable for credit) Provides students seeking educational licensure opportunities to observe, assist, and or teach English as a second language in P-12 schools, including 70 field-clinical hours. Students must complete the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at the assigned school-agency before the first day of Practicum.
Prerequisite: ENG 31005.
Pre/corequisite: ENG 31007.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41194 TUTORING OF WRITING 3 Credit Hours
Provides training and professional development for writing center tutors. Course covers writing center theory and practice, the history writing centers, composition pedagogy, writing across the curriculum, tutoring ESL students, assessing writing center services, and the development of outreach programming.
Prerequisite: Minimum C grade in ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 41198 RESEARCH ASSISTANT IN ENGLISH (ELR) 1-3 Credit Hours
(Repeatable for credit) An opportunity to assist a faculty member on faculty initiated research in criticism and literary analysis, rhetoric and composition, or applied language acquisition and teaching.
Prerequisite: Junior standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41292 TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM (ELR) 3,6 Credit Hours
(Repeatable for a maximum of 12 credits) Students observe, participate and teach in a number of school contexts in Florence, Italy, from primary to secondary, community and higher education. Course gives students authentic practice teaching English in the foreign language context.
Pre/corequisite: ENG 31007.
Schedule Type: Practical Experience
Contact Hours: 5-10 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 41392 STUDENT TEACHING (ELR) 9 Credit Hours
Full-time student teaching over 13 weeks in English as a second language in grades P-12. Background check by the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) required to be presented to authorized personnel at the assigned school agency before the first day of student teaching. To be enrolled in the course, students must have official valid certification of child safety training, approved basic life support and ALICE training presented to the campus office of clinical experience.
Prerequisite: CULT 29535 and EPSY 29525 and ETEC 39525; and eligibility for student teaching; and special approval.
Corequisite: ENG 41525.
Schedule Type: Practical Experience
Contact Hours: 27.733 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ENG 41525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ENG 51525) Preparation for student teaching of English as a second language, grades K-12.
Prerequisite: CULT 29535 and EPSY 29525 and ETEC 39525.
Corequisite: ENG 41392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 42092 WRITING INTERNSHIP (ELR) 1-3 Credit Hours
(Repeatable for credit) Guided internship in professional writing, editing, or publishing. Possible placements include the KSU Press, Institute for Bibliography and Editing, and WICK Poetry Center.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ENG 42192 SERVICE LEARNING IN ENGLISH STUDIES (ELR) 3 Credit Hours
(Repeatable for credit) Provides guided opportunities for completing service-learning related to English Studies. Service placements meet a community need and provide practice in such areas as writing, editing, publishing, teaching, and tutoring.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 43092 TEACHING POETRY IN THE SCHOOLS (ELR) 3 Credit Hours
(Repeatable for credit) Exploration of various approaches to teaching poetry writing, poetry appreciation, and poetry performance in school contexts. Study of creative writing as a means of developing literacy and promoting human growth.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENG 49091 SENIOR SEMINAR (ELR) (WIC) 3 Credit Hours
(Repeatable for credit) Intensive study of in English studies. Students complete a long writing project during the semester.
Prerequisite: ENG 38001 or ENG 38002; and English major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENG 49095 SENIOR AND GRADUATE SPECIAL TOPICS 3 Credit Hours
(Slashed with ENG 59095)(Repeatable for credit) Intensive study of topics that vary each semester.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 51525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ENG 41525) Preparation for student teaching of English as a second language, grades K-12.
Prerequisite: Graduate standing.
Corequisite: ENG 53392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 53392 STUDENT TEACHING 6 Credit Hours
Full-time student teaching over 13 weeks in English as a second language in grades P-12. Background check by the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) required to be presented to authorized personnel at the assigned school agency before the first day of student teaching. To be enrolled in the course, students must have official valid certification of child safety training, approved basic life support and ALICE training presented to the campus office of clinical experience.
Prerequisite: Eligibility for student teaching; graduate standing; and special approval.
Corequisite: ENG 51525.
Schedule Type: Practical Experience
Contact Hours: 27.733 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 59095 SENIOR AND GRADUATE SPECIAL TOPICS 3 Credit Hours
(Slashed with ENG 49095)(Repeatable for credit) Intensive study of topics that vary each semester.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 61000 INTRODUCTION TO RESEARCH AND PEDAGOGY IN CRITICAL READING 3 Credit Hours
Introduction to contemporary methods of literary and cultural criticism and to the profession of teaching English in college.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 61094 INTRODUCTION TO RESEARCH IN THE TEACHING OF COLLEGE WRITING 3 Credit Hours
(Repeatable for credit)Using the Kent program as an example, the focus will be on teaching composition, literature and language along with the needed planning and evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 62291 SEMINAR:BRITISH LITERATURE 1800 TO PRESENT 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 72291) In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 63001 METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours
(Slashed with ENG 73001) The theory and methodology of teaching English as a second language.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63033 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Cross-listed with MCLS 60661) (Slashed with ENG 73033) This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63034 SOCIOLINGUISTICS 3 Credit Hours
(Cross-listed with MCLS 60625)(Slashed with ENG 73034) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63038 TEACHING LITERATURE AND CULTURE 3 Credit Hours
(Cross-listed with MCLS 60622) Students explore theories of literature and culture teaching as well as strategies for teaching literature and culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63039 SECOND LANGUAGE CURRICULUM AND ASSESSMENT 3 Credit Hours
(Cross-listed with MCLS 60663) Students study second language curriculum and assessment design and current issues, including oral proficiency testing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63040 LINGUISTICS FOR THE LANGUAGE PROFESSIONS 3 Credit Hours
(Cross-listed with MCLS 60601) Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63041 DESCRIPTIVE GRAMMAR OF ENGLISH 3 Credit Hours
This course provides a description of English syntax and morphology. Presentation of material will be through rules and exposure to grammatical forms in meaningful contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63043 SECOND LANGUAGE WRITING 3 Credit Hours
(Cross-listed with MCLS 60665) Theory and practice in teaching second language writing. Topics will include current and historic approaches to second language writing, approaches to tutoring international students in writing centers, teacher and peer response, error correction, and technology in second language writing instruction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63044 SECOND LANGUAGE READING 3 Credit Hours
(Cross-listed with MCLS 60664) Addresses a wide variety of topics related to second language reading, including theoretical perspectives, the process of learning to read, models of how reading happens, comprehension, fluency, discourse structures, strategy use, and vocabulary acquisition. Teaching issues related to second language reading will also be addressed directly, namely assessment and curriculum building.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63045 ENGLISH FOR SPECIFIC PURPOSES 3 Credit Hours
Examination of academic, workplace, and vocational language in the design of second language instructional materials and curriculum. Discourse domains from medical to agricultural to business are analyzed through applied linguistic tools. Curriculum and instructional materials are studied and designed.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 63046 SECOND LANGUAGE LISTENING AND SPEAKING 3 Credit Hours
Theory and practice in second language listening and speaking. Topics will include current approaches to second language speech perception and production, issues in teaching and assessing second language listening and speaking, and phonetic, phonological, and acoustic analyses for language teachers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63047 HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING 3 Credit Hours
(Cross-listed with MCLS 60624) Theory and practice in language education of heritage language speakers. Ethnic, minority, ancestral, and community languages and language practices will be explored with implications for second and additional language learning in English, foreign language, bilingual education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63048 SOCIOCULTURAL THEORY AND FOREIGN AND SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Cross-listed with MCLS 60623) The foundations of sociocultural theory and its applications to the second and foreign language classroom.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63049 SECOND LANGUAGE RESEARCH METHODS 3 Credit Hours
(Cross-listed with MCLS 63049) This course provides students with skills for reading, interpreting and conducting research studies investigating second/foreign language teaching, learning and/or use. Students learn about quantitative and qualitative research methods commonly used in second language research. Students also conduct a research project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 63391 SEMINAR: LINGUISTICS 3 Credit Hours
(Repeatable for credit) (Cross-listed with ENG 73391) In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 64070 WRITING POETRY 3 Credit Hours
(Cross-listed with ENG 74070) Advanced workshop in creative writing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 64071 WRITING FICTION 3 Credit Hours
(Slashed with ENG 74071) Advanced workshop in the writing of fiction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65012 READING AND INTERPRETING RESEARCH ON WRITING 3 Credit Hours
(Slashed with ENG 75012) Course focuses on how to read critically and interpret published research by examining the principle means through which "knowledge" is constructed in writing research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65022 RHETORICAL THEORY:GREEK AND ROMAN 3 Credit Hours
(Slashed with ENG 75022) Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65023 RHETORICAL THEORY:18TH, 19TH AND 20TH CENTURIES 3 Credit Hours
(Slashed with ENG 75023) Course surveys 18th-, 19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65027 ROLE OF COMPOSITION 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 75027) Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 65035 LINGUISTICS FOR RHETORICIANS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 75035) Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 65051 LITERACY:FUNCTIONS, PRACTICES AND HISTORY 3 Credit Hours
(Slashed with ENG 75051) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project. Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ("adaptation," "power," "grace") those studies employ.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65052 WRITING ACTIVITY AS SOCIAL PRACTICE 3 Credit Hours
(Slashed with ENG 75052) Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 65053 WRITING TECHNOLOGIES 3 Credit Hours
(Slashed with ENG 75053) Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66051 SHAKESPEARE 3 Credit Hours
(Slashed with ENG 76051) Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66101 LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR 3 Credit Hours
(Slashed with ENG 76101) Broad, synchronic study of U.S. literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66103 ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours
(Slashed with ENG 76103) An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66104 AFRICAN-AMERICAN LITERATURE 3 Credit Hours
(Slashed with ENG 76104) An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture identity or history.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66302 POST-COLONIAL LITERATURE IN ENGLISH 3 Credit Hours
(Slashed with ENG 76302) An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66401 LITERARY MOVEMENTS 3 Credit Hours
(Slashed with ENG 76401) An examination of one particular movement in literary history via its writers, artists benefactors, thinkers, political demagogues and critics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66501 NARRATIVE LITERATURE 3 Credit Hours
(Slashed with ENG 76501) Close readings of selected novels, short stories biographies autobiographies life writing journals and other forms of narrative and verse by British American and other writers in English from one or more periods in literary history.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66502 DRAMATIC LITERATURE 3 Credit Hours
(Slashed with ENG 76502) Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States from one or more periods in literary history.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66592 PRACTICUM IN TUTORING WRITING 1 Credit Hour
(Repeatable for credit)Practical training and experience in tutoring composition.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENG 66595 SPECIAL TOPICS:AUTHORS AND AUTHORSHIP 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76595) Research-based study of problems in the theory or practice of authorship. Typical courses include "The Creative Process," "Authors and Printers," "Faulkner in Hollywood".
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66705 NARRATIVE FUNCTIONS AND CONSEQUENCES 3 Credit Hours
(Slashed with ENG 76705) Identifies and studies the multifarious ways that narratives of all shapes and sizes permeate and structure one's perception, thinking, feeling, understanding, beliefs, values, ideals and actions in all areas of people's personal and collective lives.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66706 UNDERSTANDING RESEARCH METHODS AND DESIGN IN LITERATURE AND WRITING STUDIES 3 Credit Hours
(Slashed with ENG 76706) Analytical reading and interpretation of published research and criticism, its assumptions, trends and controversies; students identify and contextualize present opportunities for research in field.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66707 PRACTICING NARRATIVE RESEARCH METHODS AND DESIGN 3 Credit Hours
(Slashed with ENG 76707) Engages students in a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 66791 SEMINAR:BRITISH AND IRISH LITERATURE 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76791) In-depth treatment of various topics from Old English literature, Beowulf, Middle English literature and Chaucer.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 66891 SEMINAR:LITERATURE OF THE UNITED STATES 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76891) This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 66895 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76895) Study of selected special topics in literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 66991 SEMINAR:GENRE 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 76991) In-depth examination of one or more kinds of texts focusing on how forms are defined historically and analytically, with special attention to current approaches.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 67101 FEMINIST THEORY AND CRITICISM 3 Credit Hours
(Slashed with ENG 77101) Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 67104 SOCIAL AND CULTURAL THEORY AND CRITICISM 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 77104) Study of important issues and concepts in Marxist, new historicist, ethnic, post- colonialist and other modes of social/cultural theory and criticism.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 67591 SEMINAR: THEORY AND CRITICISM 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 77591) In-depth study of important topics in contemporary theory and criticism.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 67691 SEMINAR:SCHOLARLY EDITING 3 Credit Hours
(Repeatable for credit when topic varies) (Slashed with ENG 77691) In-depth treatment of various topics from modern scholarly editing.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 68093 VARIABLE TITLE WORKSHOP IN ENGLISH 2-6 Credit Hours
(Repeatable for credit) (Slashed with ENG 78093) Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 68096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with ENG 78096) Intensive study of selected writer or special topic.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ENG 68098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 68392 PRACTICUM IN TEACHING COLLEGE ENGLISH 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 78392) Practical training and experience in teaching beginning composition courses.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 68492 PRACTICUM IN TEACHING INTERNATIONAL STUDENTS 3 Credit Hours
(Repeatable for credit) Practical training and experience in teaching English to international students in a university intensive English program. Field placement in the ESL Center requires 70 field-clinical hours. Participating classes are Monday through Friday.
Prerequisite: Graduate standing.
Pre/corequisite: ENG 63001.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 6 other
Grade Mode: Standard Letter

ENG 68592 PRACTICUM IN TEACHING P-12 ENGLISH LANGUAGE LEARNERS 3 Credit Hours
(Repeatable for credit) Practical training and experience in teaching English to speakers of other languages in P-12 schools including 100 field-clinical hours in an assigned P-12 school.
Prerequisite: Graduate standing in MA TESL Education Concentration.
Pre/corequisite: ENG 63001.
Schedule Type: Field Experience
Contact Hours: 2 lecture, 100 other
Grade Mode: Standard Letter

ENG 69199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 semester hours, 2 to 6 in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ENG 69299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ENG 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ENG 72291 SEMINAR:BRITISH LITERATURE 1800 TO PRESENT 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 62291) In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 73001 METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours
(Slashed with ENG 63001) The theory and methodology of teaching English as a second language.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 73033 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Slashed with ENG 63033) (Cross-listed with MCLS 60661) This course surveys the major theoretical approaches to language acquisition concentrating on second language acquisition and the relationship between acquisition learning research and second language teaching approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 73034 SOCIOLINGUISTICS 3 Credit Hours
(Slashed with ENG 63034 and MCLS 60625) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 73391 SEMINAR:LINGUISTICS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 63391) In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 74070 WRITING POETRY 3 Credit Hours
(Slashed with ENG 64070) Advanced workshop in creative writing.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 74071 WRITING FICTION 3 Credit Hours
(Slashed with ENG 64071) Advanced workshop in the writing of fiction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75012 READING AND INTERPRETING RESEARCH ON WRITING 3 Credit Hours
(Slashed with ENG 65012) Course focuses on how to read critically and interpret published research by examining the principle means through which "knowledge" is constructed in writing research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75022 RHETORICAL THEORY:GREEK AND ROMAN 3 Credit Hours
(Slashed with ENG 65022) Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75023 RHETORICAL THEORY:18TH, 19TH AND 20TH CENTURIES 3 Credit Hours
(Slashed with ENG 65023) Course surveys 18th-,19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75027 ROLE OF COMPOSITION 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 65027) Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 75035 LINGUISTICS FOR RHETORICIANS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 65035) Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 75051 LITERACY:FUNCTIONS, PRACTICES AND HISTORY 3 Credit Hours
(Slashed with ENG 65051) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project. Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ("adaptation," "power," "grace") those studies employ. Prerequisite: Doctoral standing.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75052 WRITING ACTIVITY AS SOCIAL PRACTICE 3 Credit Hours
(Slashed with ENG 65052) Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 75053 WRITING TECHNOLOGIES 3 Credit Hours
(Cross-listed with ENG 65053) Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76051 SHAKESPEARE 3 Credit Hours
(Slashed with ENG 66051) Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76101 LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR 3 Credit Hours
(Slashed with ENG 66101) Broad, synchronic study of U.S. literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76103 ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours
(Slashed with ENG 66103) An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76104 AFRICAN-AMERICAN LITERATURE 3 Credit Hours
(Slashed with ENG 66104) An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture, identity or history.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76302 POST-COLONIAL LITERATURE IN ENGLISH 3 Credit Hours
(Slashed with ENG 66302) An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76401 LITERARY MOVEMENTS 3 Credit Hours
(Slashed with ENG 66401) An examination of one particular movement in literary history via its writers, artists, benefactors, thinkers, political demagogues and critics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76501 NARRATIVE LITERATURE 3 Credit Hours
(Slashed with ENG 66501) Close readings of selected novels, short stories, biographies, autobiographies, life writing, journals, and other forms of narrative and verse by British, American and other writers in English, from one or more periods in literary history.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76502 DRAMATIC LITERATURE 3 Credit Hours
(Slashed with ENG 66502) Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States, from one or more periods in literary history.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76592 PRACTICUM IN TUTORING WRITING 1 Credit Hour
(Repeatable for credit)Practical training and experience in tutoring composition.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ENG 76595 SPECIAL TOPICS:AUTHORS AND AUTHORSHIP 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66595) Research-based study of problems in the theory or practice of authorship. Typical courses include "the creative process ", "authors and printers ", "Faulkner in Hollywood".
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76705 NARRATIVE FUNCTIONS AND CONSEQUENCES 3 Credit Hours
(Slashed with ENG 66705) Identifies and studies the multifarious ways that narratives of all shapes and sizes permeate and structure one's perception, thinking, feeling, understanding, beliefs, values, ideals and actions in all areas of people's personal and collective lives.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76706 UNDERSTANDING RESEARCH METHODS AND DESIGN IN LITERATURE AND WRITING STUDIES 3 Credit Hours
(Slashed with ENG 66706) Analytical reading and interpretation of published research and criticism, its assumptions, trends and controversies; students identify and contextualize present opportunities for research in field.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76707 PRACTICING NARRATIVE RESEARCH METHODS AND DESIGN 3 Credit Hours
(Slashed with ENG 66707) Engages students in a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 76791 SEMINAR:BRITISH AND IRISH LITERATURE 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66791) In-depth treatment of various topics from old English literature, Beowulf, Middle English literature, and Chaucer.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 76891 SEMINAR:LITERATURE OF THE UNITED STATES 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66891) This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 76895 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66895) Study of selected special topics in literature.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 76991 SEMINAR:GENRE 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 66991) In-depth examination of one or more kinds of texts focusing on how forms are defined historically and analytically, with special attention to current approaches.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 77101 FEMINIST THEORY AND CRITICISM 3 Credit Hours
(Slashed with ENG 67101) Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 77104 SOCIAL AND CULTURAL THEORY AND CRITICISM 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 67104) Study of important issues and concepts in Marxist, new historicist, ethnic, post-colonialist and other modes of social cultural theory and criticism.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 77591 SEMINAR:THEORY AND CRITICISM 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 67591) In-depth study of important topics in contemporary theory and criticism.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 77691 SEMINAR:SCHOLARLY EDITING 3 Credit Hours
(Repeatable for credit when topic varies) (Slashed with ENG 67691) In-depth treatment of various topics from modern scholarly editing.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 78093 VARIABLE TITLE WORKSHOP IN ENGLISH 2-6 Credit Hours
(Repeatable for credit) (Cross-listed with ENG 68093) Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 78096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with ENG 68096) Intensive study of selected writer or special topic.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ENG 78392 PRACTICUM IN TEACHING COLLEGE ENGLISH 3 Credit Hours
(Repeatable for credit) (Slashed with ENG 68392) Practical training and experience in teaching beginning composition courses.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter

ENG 85024 DOMAIN RHETORICS AND THE CONSTRUCTION OF KNOWLEDGE 3 Credit Hours
(Repeatable twice for credit) Course examines disciplinarity and knowledge production as historically and socially situated practices and how they are realized through linguistic, rhetorical and material processes and systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85041 FIELD RESEARCH METHODS IN WRITING 3 Credit Hours
Course focuses on qualitative methods for conducting field research in writing within communities of practice and particular contexts and for analyzing and interpreting data.
Prerequisite: 9 credit hours from the following courses: ENG 75012, ENG 75022, ENG 75023, ENG 73034, ENG 75051, ENG 75052, ENG 75053; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85042 DISCOURSE ANALYSIS 3 Credit Hours
Explores various approaches to discourse analysis (e.g., critical discourse analysis, narrative theory, systemic functional linguistics) and teaches students how to use them to conduct linguistic analyses of discourse. We will examine discourse in terms of the key functions language serves as a form of social action: to represent the world, to invoke and create social relationships, interactions, and identities, and to organize utterances into meaningful discursive events and products.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85054 STUDIES IN LITERACY AND COMMUNITY 3 Credit Hours
Course expands on ENG 75052 by examining in more detail how literacy is embedded in the activities and practices of academic, civic and professional communities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85055 THE NATURE AND RELATIONSHIP OF ACADEMIC AND NONACADEMIC LITERACY 3 Credit Hours
Course explores the relationship between academic and non-academic literacy, focusing on relationships pertaining to the school-to-work transitions that students make.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85056 INTRODUCTION TO THE STUDY OF WRITING ASSESSMENT: RESEARCH, THEORY AND PRACTICE 3 Credit Hours
Provides students with an introduction to the theory, research, and practice of writing assessment outside the classroom, as it is informed through the study of the literatures of college writing assessment and educational measurement. In addition to acquiring a basic understanding of measurement principles like reliability and validity for assessing student writing, students can complete projects of their own design for their own institutions.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 85057 RHETORICAL METHODS 3 Credit Hours
Focuses on methodological practices associated with rhetorical theory and considers the epistemological and ontological underpinnings of these theories' methodologies. Course investigates how these theories know and what they deem worth knowing. The course is designed around several significant approaches to analysis, both classical and contemporary. This orientation is intended to offer background and prompt students to apply those rhetorical methodologies in their own work.
Prerequisite: 6 credit hours from ENG 75012, ENG 75022, ENG 75023; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENG 88098 RESEARCH DOCTORAL 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students who have not yet passed candidacy examination. Credits earned may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval of the graduate chairman.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

ENG 89199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in two semesters is required first of which will be the semester in which dissertation work is begun and continuing until completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ENG 89299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: ENG 89199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Creative Writing - M.F.A.

College of Arts and Sciences
Department of English
www.kent.edu/english

About This Program

The Creative Writing M.F.A. program is designed for aspiring writers who want to hone their craft and take their skills to the next level. With a focus on individual attention and mentorship from experienced faculty, you will have the opportunity to refine your writing skills in a supportive and inspiring environment. Whether you are interested in fiction, poetry or nonfiction, our program provides you with the tools needed to achieve your writing goals. Read more...

Contact Information

- **Mark Bracher, Ph.D.** | mbracher@kent.edu | 330-672-2665
- **Bee Viton** | bviton@kent.edu | 330-672-1708

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Editors

- -7.3% decline
- 118,700 number of jobs
- $63,400 potential earnings

English language and literature teachers, postsecondary

- 2.1% slower than the average
- 81,300 number of jobs
- $69,000 potential earnings

Postsecondary teachers, all other

- 2.0% slower than the average
- 245,900 number of jobs
- $71,950 potential earnings

Writers and authors

- -2.3% decline
- 131,200 number of jobs
- $67,120 potential earnings

Additional Careers

- Content development
- Copywriting
- Marketing and promotion
- Publishing
- Arts administration

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applicants must apply to **both** the NEOMFA consortium and Kent State University. For more information on admission to the consortium, visit the NEOMFA website.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Funding deadline: January 15
    Applications must be submitted by this deadline to be considered for an assistantship or any other funded position.
- **Spring Semester**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Writing Workshops		15
Craft and Theory courses		9
Literature courses		6
Internship [1]		3
Electives		9
Culminating Requirement		
ENG 69199	THESIS I [2]	6
Minimum Total Credit Hours:		**48**

[1] The internship must be in a teaching, editing or arts administration setting.

[2] The thesis must be submitted according to the general requirements established by Graduate College. The student is required to defend the thesis in an oral presentation before a committee of graduate faculty from a minimum of two consortium schools.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Critique creative literary works in a workshop environment.
2. Critique and revise their own material.
3. Create a high quality publishable work of poetry, fiction, creative non-fiction, drama or literary translation.
4. Demonstrate knowledge of a wide range of theories and practices of creative writing and the creative process.
5. Develop skills in creative writing in real world job situations.

Full Description

The Master of Fine Arts degree in Creative Writing is a consortium program between Kent State, the University of Akron, Cleveland State University and Youngstown State University (NEOMFA consortium).

The degree allows students to take advantage of collaboration with an award-winning 15-member faculty and to concentrate in the writing of plays, poetry, fiction and creative non-fiction. The number and variety of the faculty guarantee consistent individual attention to student work. The range of study gives students opportunities to take classes with other writers from different backgrounds and in different genres. An annual series of readings and visiting writers in all genres supports the regular curricular offerings.

Selected students attend special summer programs, such as the Juniper Institute in Massachusetts and the Imagination Writers Conference in Cleveland; many students attend the annual Association of Writers and Writing Programs (AWP) Conference representing the consortium, or publish in journals and presses associated with the program.

Creative Writing - Minor

College of Arts and Sciences
Department of English
www.kent.edu/english

About This Program

The Creative Writing minor encourages the development of creative work in a variety of literary modes and genres. Students gain practice in editing, peer critique and revision within small workshop classes and seminars.

Contact Information

- **Ryan Hediger, Ph.D.** | rhediger@kent.edu | 330-672-1741
- **Sheri McMahon** | smcmaho7@kent.edu | 330-672-2676
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ENG 20021	INTRODUCTION TO CREATIVE WRITING	3
ENG 30067	FICTION WRITING I [1]	3
or ENG 30069	POETRY WRITING I	
Writing Electives, choose from the following:		9
AFS 22000	CREATIVE WRITING IN THE BLACK WORLD	
ENG 30053	WRITING FOR VIDEO GAMES	
ENG 30067	FICTION WRITING I	
ENG 30068	FICTION WRITING II	
ENG 30069	POETRY WRITING I	
ENG 30070	POETRY WRITING II	
ENG 30071	CREATIVE NONFICTION	
ENG 30075	STARTING A NOVEL	
ENG 38895	SPECIAL TOPICS IN WRITING	
ENG 40072	HOW TO EDIT PROFESSIONALLY	
ENG 43092	TEACHING POETRY IN THE SCHOOLS (ELR)	
MDJ 20004	ADVERTISING WRITING AND STORYTELLING	
THEA 41026	PLAYWRITING (WIC)	
Cognate Electives, choose from the following: [2]		6

ENG 22073	MAJOR MODERN WRITERS: BRITISH AND UNITED STATES (KHUM)
ENG 30074	GRAMMAR FOR EDITING
ENG 32001	CHILDREN'S LITERATURE
ENG 32002	LITERATURE FOR YOUNG ADULTS
ENG 34031	SHORT STORY
ENG 34041	FAIRY TALES
ENG 35105	LITERATURE, CULTURE AND ENVIRONMENT
ENG 36005	FILM AND NARRATIVE
ENG 42092	WRITING INTERNSHIP (ELR) [3]
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)
PHIL 31060	PHILOSOPHY OF ART AND BEAUTY (ELR)
PHIL 41080	PHILOSOPHY AND ART: 1890 - PRESENT
Minimum Total Credit Hours:	**21**

[1] The course not selected (ENG 30067 or ENG 30069) may be taken to fulfill a writing elective.

[2] Students may apply to the chair of the Department of English for permission to use special topics courses and other appropriate courses not listed in the curriculum to satisfy the cognate requirements. In addition, students in the College of the Arts may request that specific courses in art, art history, music and theater be accepted as meeting the cognate area requirements. Students in the College of Communication and Information may request that specific courses in communication studies and journalism and mass communication be accepted as meeting the cognate area requirements.

[3] Though offered for variable credit, students pursuing the minor should take 3 credit hours of ENG 42092.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students who wish to complete a longer project or prepare a portfolio for graduate school or for a job application may request to be enrolled in ENG 40099 for two additional credit hours of individualized work.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate specialized knowledge and skills in creative writing.
2. Articulate the similarities and differences among the genres of creative writing, such as poetry, fiction, creative nonfiction and drama.
3. Produce creative writing with attention to appropriate genre conventions, format and citation guidelines, stylistic expectations and grammatical rules.
4. Participate in creative writing workshops.
5. Revise and refine written work in light of critiques.

English - B.A.

College of Arts and Sciences
Department of English
www.kent.edu/english

About This Program

The English B.A. program offers a comprehensive education in literature, writing and critical thinking. With personalized attention from faculty and opportunities for creative expression, you will cultivate your voice and become a versatile communicator. Read more...

Contact Information

- **Ryan Hediger, Ph.D.** | rhediger@kent.edu | 330-672-1741
- **Sheri McMahon** | smcmaho7@kent.edu | 330-672-2676
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Examples of Possible Careers and Salaries*

English language and literature teachers, postsecondary

- 2.1% slower than the average
- 81,300 number of jobs
- $69,000 potential earnings

Proofreaders and copy markers

- -2.7% decline
- 10,300 number of jobs
- $41,140 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Additional Careers

- Content writer/developer
- Marketing and social media material developer
- Editor and copy writer
- Grant writing specialist
- Community engagement writer and coordinator
- Project manager – marketing division

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ENG 24001	INTRODUCTION TO LITERARY STUDY [1]	3
ENG 25001	LITERATURE IN ENGLISH I [1]	3
or ENG 25004	LITERATURE IN THE UNITED STATES I	
ENG 25002	LITERATURE IN ENGLISH II [1]	3
or ENG 25005	LITERATURE IN THE UNITED STATES II	
ENG 38001	CRITICAL THEORY AND READING	3
or ENG 38002	RHETORIC AND WRITING STUDIES	
ENG 49091	SENIOR SEMINAR (ELR) (WIC) [2]	3
English (ENG) Electives (20000, 30000 or 40000 level) [1,3]		6
Additional Requirements (courses do not count in the major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each) [1]		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		34
Concentrations		
Choose from the following:		18
General		
Literature		
Professional Writing		
Minimum Total Credit Hours:		**120**

1. Maximum 15 credit hours of English (ENG) lower-division (10000 or 20000 level) courses will count toward the major. They may include the following Kent Core courses: ENG 21002, ENG 21003, ENG 21054, ENG 22071, ENG 22072, ENG 22073 (or ENG 21001).
2. A minimum C grade must be earned to fulfill the writing-intensive requirement.
3. The following courses will **not** fulfill English (ENG) Electives: ENG 21011, ENG 41092, ENG 41192, ENG 41292, ENG 41392 and any ENG 10000-level course.

General Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Writing, Rhetoric and Linguistics Electives, choose from the following:		6
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
ENG 20021	INTRODUCTION TO CREATIVE WRITING	
ENG 24002	INTRODUCTION TO COMPOSITION THEORY	

ENG 30050	WRITING AND RHETORIC IN A DIGITAL AGE	
ENG 30051	WRITING, RHETORIC AND NEW MEDIA	
ENG 30053	WRITING FOR VIDEO GAMES	
ENG 30062	PRINCIPLES OF TECHNICAL WRITING	
ENG 30063	PROFESSIONAL WRITING	
ENG 30064	ARGUMENTATIVE PROSE WRITING	
ENG 30065	EXPOSITORY PROSE WRITING	
ENG 30066	WRITING IN THE PUBLIC SPHERE (ELR)	
ENG 30067	FICTION WRITING I	
ENG 30068	FICTION WRITING II	
ENG 30069	POETRY WRITING I	
ENG 30070	POETRY WRITING II	
ENG 30071	CREATIVE NONFICTION	
ENG 30074	GRAMMAR FOR EDITING	
ENG 30075	STARTING A NOVEL	
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	
ENG 31002	HISTORY OF THE ENGLISH LANGUAGE	
ENG 31003	LINGUISTICS	
ENG 31004	LEXICOLOGY/LEXICOGRAPHY	
ENG 31006	WORLD ENGLISHES (DIVG) (WIC)	
ENG 31012	GENDER AND LANGUAGE	
ENG 31095	SPECIAL TOPICS IN LINGUISTICS	
ENG 38895	SPECIAL TOPICS IN WRITING	
ENG 39895	SPECIAL TOPICS IN RHETORIC, COMPOSITION AND WRITING	
ENG 40072	HOW TO EDIT PROFESSIONALLY	
ENG 40073	HOW TO PUBLISH: BOOKS AND BEYOND	
ENG 41194	TUTORING OF WRITING	
ENG 42092	WRITING INTERNSHIP (ELR)	
ENG 42192	SERVICE LEARNING IN ENGLISH STUDIES (ELR)	
ENG 43092	TEACHING POETRY IN THE SCHOOLS (ELR)	
Historical Literature-Early Period Elective, choose from the following:		3
ENG 33001	U.S. LITERATURE TO 1865	
ENG 33010	AFRICAN-AMERICAN LITERATURE TO 1900	
ENG 34001	MEDIEVAL LITERATURE	
ENG 34002	BRITISH LITERATURE, 1500-1660	
ENG 34055	SHAKESPEARE	
ENG 34065	CHAUCER	
ENG 34070	KNIGHTS AND OUTLAWS IN LITERATURE AND CULTURE	
ENG 34090	SHAKESPEARE IN PERFORMANCE (ELR)	
ENG 37001	CLASSICAL RHETORIC	
Historical Literature-Modern Period Elective, choose from the following:		3
ENG 33002	U.S. LITERATURE FROM 1865 TO 1945	
ENG 33003	U.S. LITERATURE FROM 1945 TO PRESENT	
ENG 33012	MODERN AFRICAN-AMERICAN LITERATURE	
ENG 34003	BRITISH LITERATURE, 1660-1800	
ENG 34004	BRITISH LITERATURE, 1800-1900	
ENG 34005	BRITISH AND IRISH LITERATURE, 1900-PRESENT	
ENG 34095	SPECIAL TOPICS:MAJOR AUTHOR STUDIES	
ENG 39095	SPECIAL TOPICS IN LITERARY HISTORY	
Genre Studies, Cultural Studies, Literary Theory Electives, choose from the following:		6
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	
ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 32001	CHILDREN'S LITERATURE	
ENG 32002	LITERATURE FOR YOUNG ADULTS	
ENG 33005	NATIVE AMERICAN LITERATURE (DIVD)	
ENG 33013	AFRICANA WOMEN'S LITERATURE (DIVG)	
ENG 33014	AFRICAN-AMERICAN WOMEN'S LITERATURE	
ENG 33015	AFRICAN LITERATURES (DIVG)	
ENG 34011	WORLD LITERATURE IN ENGLISH (DIVG)	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
ENG 34031	SHORT STORY	
ENG 34041	FAIRY TALES	
ENG 35105	LITERATURE, CULTURE AND ENVIRONMENT	
ENG 35201	THE BIBLE AS LITERATURE	
ENG 35401	SCIENCE FICTION	
ENG 36004	Course ENG 36004 Not Found	
ENG 36005	FILM AND NARRATIVE	
ENG 39495	SPECIAL TOPICS IN LITERATURE	
ENG 39995	SPECIAL TOPICS CULTURAL STUDIES	
ENG 40089	INTERNATIONAL EXPERIENCE: THEMES IN STUDY ABROAD (DIVG) (ELR)	
ENG 49095	SENIOR AND GRADUATE SPECIAL TOPICS	
Minimum Total Credit Hours:		**18**

Literature Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Historical Literature-Early Period Elective, choose from the following:		3
ENG 33001	U.S. LITERATURE TO 1865	
ENG 33010	AFRICAN-AMERICAN LITERATURE TO 1900	
ENG 34001	MEDIEVAL LITERATURE	
ENG 34002	BRITISH LITERATURE, 1500-1660	
ENG 34055	SHAKESPEARE	
ENG 34065	CHAUCER	
ENG 34070	KNIGHTS AND OUTLAWS IN LITERATURE AND CULTURE	
ENG 34090	SHAKESPEARE IN PERFORMANCE (ELR)	
ENG 37001	CLASSICAL RHETORIC	
Historical Literature-Modern Period Elective, choose from the following:		3
ENG 33002	U.S. LITERATURE FROM 1865 TO 1945	
ENG 33003	U.S. LITERATURE FROM 1945 TO PRESENT	
ENG 33012	MODERN AFRICAN-AMERICAN LITERATURE	
ENG 34003	BRITISH LITERATURE, 1660-1800	
ENG 34004	BRITISH LITERATURE, 1800-1900	
ENG 34005	BRITISH AND IRISH LITERATURE, 1900-PRESENT	
Historical Literature-Topics Elective, choose from the following:		3
ENG 34095	SPECIAL TOPICS:MAJOR AUTHOR STUDIES	
ENG 39095	SPECIAL TOPICS IN LITERARY HISTORY	
Course from Historical Literature-Early Period elective list		
Course from Historical Literature-Modern Period elective list		
Genre Studies, Cultural Studies, Literary Theory Electives, choose from the following:		9
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	

ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 32001	CHILDREN'S LITERATURE	
ENG 32002	LITERATURE FOR YOUNG ADULTS	
ENG 33005	NATIVE AMERICAN LITERATURE (DIVD)	
ENG 33013	AFRICANA WOMEN'S LITERATURE (DIVG)	
ENG 33014	AFRICAN-AMERICAN WOMEN'S LITERATURE	
ENG 33015	AFRICAN LITERATURES (DIVG)	
ENG 34011	WORLD LITERATURE IN ENGLISH (DIVG)	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
ENG 34031	SHORT STORY	
ENG 34041	FAIRY TALES	
ENG 35105	LITERATURE, CULTURE AND ENVIRONMENT	
ENG 35201	THE BIBLE AS LITERATURE	
ENG 35401	SCIENCE FICTION	
ENG 36004	Course ENG 36004 Not Found	
ENG 36005	FILM AND NARRATIVE	
ENG 39495	SPECIAL TOPICS IN LITERATURE	
ENG 39995	SPECIAL TOPICS CULTURAL STUDIES	
ENG 40089	INTERNATIONAL EXPERIENCE: THEMES IN STUDY ABROAD (DIVG) (ELR)	
ENG 49095	SENIOR AND GRADUATE SPECIAL TOPICS	
Minimum Total Credit Hours:		**18**

Professional Writing Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ENG 30074	GRAMMAR FOR EDITING	3
or ENG 40072	HOW TO EDIT PROFESSIONALLY	
Writing Electives, choose from the following:		9
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
ENG 30050	WRITING AND RHETORIC IN A DIGITAL AGE	
ENG 30051	WRITING, RHETORIC AND NEW MEDIA	
ENG 30053	WRITING FOR VIDEO GAMES	
ENG 30062	PRINCIPLES OF TECHNICAL WRITING	
ENG 30063	PROFESSIONAL WRITING	
ENG 30064	ARGUMENTATIVE PROSE WRITING	
ENG 30065	EXPOSITORY PROSE WRITING	
ENG 38895	SPECIAL TOPICS IN WRITING	
Professional Experience Elective, choose from the following:		3
ENG 30066	WRITING IN THE PUBLIC SPHERE (ELR)	
ENG 40073	HOW TO PUBLISH: BOOKS AND BEYOND	
ENG 41194	TUTORING OF WRITING	
ENG 42092	WRITING INTERNSHIP (ELR)	
ENG 42192	SERVICE LEARNING IN ENGLISH STUDIES (ELR)	
Rhetoric and Linguistics Elective, choose from the following:		3
ENG 24002	INTRODUCTION TO COMPOSITION THEORY	
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	
ENG 31003	LINGUISTICS	
ENG 31012	GENDER AND LANGUAGE	
ENG 31095	SPECIAL TOPICS IN LINGUISTICS	
ENG 37001	CLASSICAL RHETORIC	
ENG 39895	SPECIAL TOPICS IN RHETORIC, COMPOSITION AND WRITING	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ENG 24001	INTRODUCTION TO LITERARY STUDY	3
UC 10001	FLASHES 101	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
ENG 25001 or ENG 25004	LITERATURE IN ENGLISH I or LITERATURE IN THE UNITED STATES I	3
Foreign Language		4

Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
ENG 25002 or ENG 25005	LITERATURE IN ENGLISH II or LITERATURE IN THE UNITED STATES II	3
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
Concentration Elective		3
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
ENG 38001 or ENG 38002	CRITICAL THEORY AND READING or RHETORIC AND WRITING STUDIES	3
Concentration Elective		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Six		
Concentration Electives		6
General Electives		9
	Credit Hours	**15**
Semester Seven		
ENG 49091	SENIOR SEMINAR (ELR) (WIC)	3
English Electives		6
General Electives		6
	Credit Hours	**15**
Semester Eight		
Concentration Electives		6
General Electives		9
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Exhibit specialized knowledge and skills in literary studies or professional writing.
2. Employ research tools and methods appropriate for the academic study of literature, rhetoric or writing.
3. Describe and apply a variety of critical theories to the study of literature, rhetoric or writing.
4. Produce academic, creative or professional writing with attention to appropriate genre conventions, format and citation guidelines, stylistic expectations and grammatical rules.
5. Complete a long written project with the application of appropriate critical, creative or professional approaches; mastery of research methods and resources; and awareness of audience, rhetorical context and discourse functions.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in English prepares students to be insightful readers and innovative writers. Students are introduced to literary traditions and critical methods through core courses and encouraged to pursue personal interests in the selection of a concentration and elective courses. English classes challenge students to develop reading, research and writing skills that will equip them for a wide range of careers.

The English major comprises the following concentrations:

- The **General** concentration allows students to combine elective choices in creative writing, professional writing, rhetoric, historical literature, genre studies and literary theory based on personal interest.
- The **Literature** concentration emphasizes the interpretation of literary texts drawn from a variety of historical and cultural contexts. Students develop an understanding of genre conventions and different theoretical and critical methods of analysis.
- The **Professional Writing** concentration offers courses in professional writing, editing and rhetoric. The concentration requires a professional experience elective fulfilled by an internship, service-learning placement or an advanced course in editing.

Students have opportunities in extracurricular organizations, including the English Club, Sigma Tau Delta and the Writer's Workshops; as well as such student publications as the literary arts magazine *Luna Negra*. Students are encouraged to study abroad, engage in undergraduate research, commit to service-learning and complete a writing internship.

English students may apply early to the M.A. degree in English and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

English - M.A.

College of Arts and Sciences
Department of English
www.kent.edu/english

About This Program

The English M.A. program offers advanced study in literature, writing and critical thinking. With a focus on small class sizes and mentorship from experienced faculty, you will hone your analytical and creative skills and advance your career opportunities. Read more...

Contact Information

- **Mark Bracher, Ph.D.** | mbracher@kent.edu | 330-672-2665
- **Bee Viton** | bviton@kent.edu | 330-672-1708
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

English language and literature teachers, postsecondary

- 2.1% slower than the average
- 81,300 number of jobs
- $69,000 potential earnings

Proofreaders and copy markers

- -2.7% decline
- 10,300 number of jobs
- $41,140 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Writing sample (8-15 pages) relevant to the field of study
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Funding deadline: January 15
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) must be submitted by this deadline to be considered for an assistantship or any other funded position.
- **Spring Semester**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ENG 66705	NARRATIVE FUNCTIONS AND CONSEQUENCES	3
ENG 66706	UNDERSTANDING RESEARCH METHODS AND DESIGN IN LITERATURE AND WRITING STUDIES	3
ENG 66707	PRACTICING NARRATIVE RESEARCH METHODS AND DESIGN	3
Advisor-Approved Electives [1]		24
Minimum Total Credit Hours:		**33**

[1] Students who will serve as graduate assistants are required to take ENG 61094, which will count toward electives.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students are required to complete 33 credit hours of graded coursework to earn the M.A. degree.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the ability to think critically about the literary texts they read and interpret.
2. Demonstrate how to write coherently and clearly about research topics and other topics.
3. Demonstrate an understanding on how disciplines are interconnected.
4. Apply appropriate research methods to objects of study.
5. Demonstrate effective teaching skills and knowledge of appropriate teaching theories, if on appointment.

Full Description

The Master of Arts degree in English offers students broad learning in the areas of literature, rhetoric and composition, writing studies and beyond, with a distinctive focus on narrative. The program provides a deep and nuanced understanding of the ways narratives not only represent the world but also make it and change it, for both good and ill.

Narrative is defined very broadly as a fundamental and ubiquitous mode of thought that guides perception, constructs feelings and directs actions, operating at varying scales, in all domains and through multiple media and modes of perception. Students acquire advanced skills in critiquing, revising and creating narratives in the service of more effective and socially responsible problem solving, decision making, innovation and action planning. These skills are useful in a range of professions both in and outside the university, including law, teaching and library and information science. The M.A. degree is also strong preparation for doctoral study.

English - Minor

College of Arts and Sciences
Department of English
www.kent.edu/english

About This Program

The English minor offers students the opportunity to gain expertise in the study of historical literature, literary movement, major authors, genre studies and literary theory. The minor is an especially attractive complement to degrees in fine arts, foreign languages, history, sociology, psychology, business and journalism.

Contact Information

- **Ryan Hediger, Ph.D.** | rhediger@kent.edu | 330-672-1741
- **Sheri McMahon** | smcmaho7@kent.edu | 330-672-2676
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the

A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ENG 24001	INTRODUCTION TO LITERARY STUDY	3
English (ENG) Electives (20000, 30000 or 40000 level) [1]		6
Literary Study Electives, choose from the following:		9
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	
ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 32001	CHILDREN'S LITERATURE	
ENG 32002	LITERATURE FOR YOUNG ADULTS	
ENG 33001	U.S. LITERATURE TO 1865	
ENG 33002	U.S. LITERATURE FROM 1865 TO 1945	
ENG 33003	U.S. LITERATURE FROM 1945 TO PRESENT	
ENG 33005	NATIVE AMERICAN LITERATURE (DIVD)	
ENG 33010	AFRICAN-AMERICAN LITERATURE TO 1900	
ENG 33012	MODERN AFRICAN-AMERICAN LITERATURE	
ENG 33013	AFRICANA WOMEN'S LITERATURE (DIVG)	
ENG 33014	AFRICAN-AMERICAN WOMEN'S LITERATURE	
ENG 33015	AFRICAN LITERATURES (DIVG)	
ENG 34001	MEDIEVAL LITERATURE	
ENG 34002	BRITISH LITERATURE, 1500-1660	
ENG 34003	BRITISH LITERATURE, 1660-1800	
ENG 34004	BRITISH LITERATURE, 1800-1900	
ENG 34005	BRITISH AND IRISH LITERATURE, 1900-PRESENT	
ENG 34011	WORLD LITERATURE IN ENGLISH (DIVG)	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
ENG 34031	SHORT STORY	
ENG 34041	FAIRY TALES	
ENG 34055	SHAKESPEARE	
ENG 34065	CHAUCER	
ENG 34070	KNIGHTS AND OUTLAWS IN LITERATURE AND CULTURE	
ENG 34090	SHAKESPEARE IN PERFORMANCE (ELR)	
ENG 34095	SPECIAL TOPICS:MAJOR AUTHOR STUDIES	
ENG 35105	LITERATURE, CULTURE AND ENVIRONMENT	
ENG 35201	THE BIBLE AS LITERATURE	
ENG 35401	SCIENCE FICTION	
ENG 36004	Course ENG 36004 Not Found	
ENG 36005	FILM AND NARRATIVE	
ENG 37001	CLASSICAL RHETORIC	
ENG 39095	SPECIAL TOPICS IN LITERARY HISTORY	
ENG 39495	SPECIAL TOPICS IN LITERATURE	
ENG 39995	SPECIAL TOPICS CULTURAL STUDIES	
ENG 40089	INTERNATIONAL EXPERIENCE: THEMES IN STUDY ABROAD (DIVG) (ELR)	
ENG 49095	SENIOR AND GRADUATE SPECIAL TOPICS	
Minor Elective, choose from the following:		3
ENG 21054	INTRODUCTION TO SHAKESPEARE (KHUM)	
ENG 22071	STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM)	
ENG 22072	STORIES TO SAVE THE WORLD: LITERATURE AND THE FUTURE OF HUMANITY (KHUM)	
ENG 22073	MAJOR MODERN WRITERS: BRITISH AND UNITED STATES (KHUM)	
Minimum Total Credit Hours:		**21**

[1] Students may **not** use any of the following to fulfill English (ENG) Electives: ENG 21011, ENG 41092, ENG 41192, ENG 41292, ENG 41392 or any 10000-level ENG courses.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 9 of the 21 total credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate specialized knowledge and skills in literary studies.
2. Employ research tools and methods appropriate for the academic study of literature.
3. Produce academic writing with attention to appropriate genre conventions, format and citation guidelines, stylistic expectations and grammatical rules.

English - Ph.D.

College of Arts and Sciences
Department of English
www.kent.edu/english

Program revisions are pending approval from the Ohio Department of Higher Education. After final approval, the program revisions will display.

About This Program

The Ph.D. degree in English offers students extensive learning in the areas of literature, rhetoric and composition, writing studies and beyond, with a distinctive focus on narrative. The program provides a deep and nuanced understanding of the ways narratives not only represent the world but also make it and change it, for both good and ill.

Narrative is defined very broadly as a fundamental and ubiquitous mode of thought that guides perception, constructs feelings and directs actions, operating at varying scales, in all domains and through multiple media and modes of perception. Students acquire advanced skills in critiquing, revising and creating narratives in the service of more effective and socially responsible problem solving, decision making, innovation and action planning. These skills are useful in a range of professions both in and outside the university, including law, teaching and library

and information science. Graduates are well prepared to engage with a changing world.

Contact Information

- **Mark Bracher, Ph.D.** | mbracher@kent.edu | 330-672-2665
- **Bee Viton** | bviton@kent.edu | 330-672-1708

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

English language and literature teachers, postsecondary

- 2.1% slower than the average
- 81,300 number of jobs
- $69,000 potential earnings

Proofreaders and copy markers

- -2.7% decline
- 10,300 number of jobs
- $41,140 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Additional Careers

- Authors and writers

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Writing sample (8-15 pages) relevant to the field of study
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Funding deadline: January 15
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) must be submitted by this deadline to be considered for an assistantship or any other funded position.
- **Spring Semester**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ENG 76705	NARRATIVE FUNCTIONS AND CONSEQUENCES	3
ENG 76706	UNDERSTANDING RESEARCH METHODS AND DESIGN IN LITERATURE AND WRITING STUDIES	3
ENG 76707	PRACTICING NARRATIVE RESEARCH METHODS AND DESIGN	3
Advisor-Approved Electives		21
Culminating Requirement		
ENG 89199	DISSERTATION I [1]	30
Minimum Total Credit Hours:		**60**

[1] Each doctoral candidate, upon admission to candidacy, must register for ENG 89199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for ENG 89199, and thereafter ENG 89299, each semester, until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students on appointment who have not had college teaching experience are required to take ENG 61094. The master's-level course cannot be applied toward the doctoral degree.
- Students are required to pass a foreign language requirement for the degree.

Candidacy for the Degree

Doctoral students must pass two written examinations in two distinct areas of English studies before being admitted to candidacy. They must also defend a dissertation prospectus.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate effective teaching skills and knowledge of appropriate teaching theories.
2. Demonstrate the ability to read and interpret research in their field.
3. Write coherently and clearly about research topics and other topics.
4. Demonstrate an understanding of how disciplines are interconnected.
5. Demonstrate the ability to think critically and creatively about topics both inside and outside academia.
6. Apply appropriate research methods to objects of study.

Professional and Technical Writing - Minor

College of Arts and Sciences
Department of English
www.kent.edu/english

About This Program

The Professional and Technical Writing minor provides training in writing, editing, proofreading and publishing for students seeking to enter professional or technical fields that demand strong written communication.

Contact Information

- **Ryan Hediger, Ph.D.** | rhediger@kent.edu | 330-672-1741
- **Sheri McMahon** | smcmaho7@kent.edu | 330-672-2676
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
ENG 30063	PROFESSIONAL WRITING	3
ENG 30074	GRAMMAR FOR EDITING [1]	3
or ENG 40072	HOW TO EDIT PROFESSIONALLY	
Minor Electives, choose from the following: [2]		9
ENG 30050	WRITING AND RHETORIC IN A DIGITAL AGE	
ENG 30051	WRITING, RHETORIC AND NEW MEDIA	
ENG 30053	WRITING FOR VIDEO GAMES	
ENG 30062	PRINCIPLES OF TECHNICAL WRITING	
ENG 30064	ARGUMENTATIVE PROSE WRITING	
ENG 30065	EXPOSITORY PROSE WRITING	
ENG 30066	WRITING IN THE PUBLIC SPHERE (ELR)	
ENG 30074	GRAMMAR FOR EDITING	
ENG 38895	SPECIAL TOPICS IN WRITING	
ENG 40072	HOW TO EDIT PROFESSIONALLY	
ENG 42092	WRITING INTERNSHIP (ELR) [3]	
ENG 42192	SERVICE LEARNING IN ENGLISH STUDIES (ELR)	
HDF 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
TRST 30230	APPROACHES TO TRANSLATION	
Minimum Total Credit Hours:		**18**

[1] The course not selected (ENG 30074 or ENG 40072) may be taken to fulfill a minor elective.

[2] In selecting electives, students are encouraged to combine choices into an area of emphasis, such as digital/web writing; technical and scientific writing; editing and publishing; or public advocacy writing. Students may apply to the chair of the Department of English for permission to use special topics courses and other appropriate courses not listed in the curriculum to fulfill the minor electives. Students in the College of Communication and Information may request that specific courses in communication studies and media and journalism be accepted to fulfill minor electives.

[3] Though offered for variable credit, students pursuing the minor should take 3 credit hours of ENG 42092.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students who wish to complete a longer project or prepare a portfolio for graduate school or for a job application, may request to be

enrolled in ENG 40099 for two additional credit hours of individualized work.

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate specialized knowledge and skills in professional writing.
2. Employ research tools and methods appropriate for the academic study of rhetoric and writing.
3. Produce professional writing with attention to appropriate genre conventions, format and citation guidelines, stylistic expectations and grammatical rules.

Teaching English as a Foreign Language - Undergraduate Certificate

College of Arts and Sciences
Department of English
www.kent.edu/english

About This Program

The Teaching English as a Foreign Language undergraduate certificate immerses students within another culture while at the same time giving them the structure and support that allows them to succeed as teachers of English. With the world's growing need for individuals who speak English, the demand for people who can teach English as a foreign language has grown rapidly over the past few decades.

Contact Information

- **Jo-Leigh Lyons** | jlyons@kent.edu | 330-672-4323
- **Sheri McMahon** | smcmaho7@kent.edu | 330-672-2676
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Adult basic education, adult secondary education, and English as a Second Language instructors

- -10.4% decline
- 59,300 number of jobs
- $55,350 potential earnings

Tutors and teachers and instructors, all other

- 7.4% faster than the average
- 406,200 number of jobs
- $40,590 potential earnings

Additional Careers

- Teacher of English as a foreign language
- Language school instructor (in the U.S. or abroad)
- Assistant language teacher
- Educational materials writer/editor
- Language assessment writer/editor
- Curriculum designer
- Educational consultant

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing

and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
ENG 31003	LINGUISTICS	3
ENG 31007	PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE	3
ENG 31008	GRAMMAR FOR TEACHING ENGLISH AS A SECOND/FOREIGN LANGUAGE	3
ENG 41292	TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM (ELR) [1]	6
Minimum Total Credit Hours:		**18**

[1] Students also enrolled in the B.A. Teaching English Second Language [TESL] major with a minor in Education should take 3 credit hours of ENG 41292 in Florence and 3 credit hours of ENG 41192 in Ohio.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

- Students must complete a minimum of 15 credit hours at Kent State.

Teaching English as a Second Language - B.A.

College of Arts and Sciences
Department of English
www.kent.edu/english

About This Program

The Bachelor of Arts in Teaching English as a Second Language program equips you with the skills and knowledge to teach English to non-native speakers. With experienced faculty, hands-on teaching opportunities and a strong focus on language acquisition, this program prepares you for a career in teaching English abroad or at home. Read more...

Contact Information

- **Ryan Hediger, Ph.D.** | rhediger@kent.edu | 330-672-1741
- **Sheri McMahon** | smcmaho7@kent.edu | 330-672-2676
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Adult basic education, adult secondary education, and English as a Second Language instructors

- -10.4% decline
- 59,300 number of jobs
- $55,350 potential earnings

Elementary school teachers, except special education

- 3.5% about as fast as the average
- 1,452,100 number of jobs
- $60,940 potential earnings

Kindergarten teachers, except special education

- 3.7% about as fast as the average
- 127,700 number of jobs
- $57,860 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Preschool teachers, except special education

- 2.5% slower than the average
- 540,400 number of jobs
- $31,930 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Tutors and teachers and instructors, all other

- 7.4% faster than the average
- 406,200 number of jobs
- $40,590 potential earnings

Additional Careers

- Teacher of English as a foreign language
- Language school instructor (in the U.S. or abroad)
- Assistant language teacher
- Educational materials writer/editor
- Language assessment writer/editor
- Curriculum designer
- Educational consultant

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
ENG 31003	LINGUISTICS	3
ENG 31005	CHILD SECOND LANGUAGE ACQUISITION [1]	3
or ENG 31009	ADULT SECOND LANGUAGE ACQUISITION	
ENG 31007	PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE	3
ENG 31008	GRAMMAR FOR TEACHING ENGLISH AS A SECOND/FOREIGN LANGUAGE	3
ENG 31010	THE BILINGUAL MENTAL LEXICON	3
ENG 41003	LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT	3
ENG 41092	ESL PRACTICUM IN INTENSIVE ENGLISH PROGRAMS (ELR) [2]	3
or ENG 41192	ESL PRACTICUM IN A P-12 SETTING (ELR)	
or ENG 41292	TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM (ELR)	
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
or ETEC 47400	TRENDS IN EDUCATIONAL TECHNOLOGY	
or ETEC 47403	INSTRUCTIONAL DESIGN	
Writing Elective, choose from the following:		3
ENG 30050	WRITING AND RHETORIC IN A DIGITAL AGE	
ENG 30051	WRITING, RHETORIC AND NEW MEDIA	
ENG 30062	PRINCIPLES OF TECHNICAL WRITING	
ENG 30063	PROFESSIONAL WRITING	
ENG 30064	ARGUMENTATIVE PROSE WRITING	
ENG 30066	WRITING IN THE PUBLIC SPHERE (ELR)	
Language and Thought in World Perspective Electives, choose from the following:		6
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
ENG 31006	WORLD ENGLISHES (DIVG) (WIC) [3]	
ENG 41001	SOCIOLINGUISTICS IN SCHOOLING (DIVD) (WIC) [3]	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		37
Minimum Total Credit Hours:		**120**

1 Students declared in the Education minor should take ENG 31005. Students may take ENG 31009 as an elective.

2 Students declared in the Education minor should take ENG 41192. Students should take ENG 41292 toward the Teaching English as a Foreign Language certificate requirements.

3 A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students should contact the Department of Modern and Classical Language Studies for individualized placement and advising information prior to enrolling in their first foreign language course. Students entering the university with substantial knowledge of a language should consider taking the College-Level Examination Program (CLEP).

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10001	FLASHES 101	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
ENG 31003	LINGUISTICS	3
ENG 31008	GRAMMAR FOR TEACHING ENGLISH AS A SECOND/FOREIGN LANGUAGE	3
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
ENG 31005 or ENG 31009	CHILD SECOND LANGUAGE ACQUISITION or ADULT SECOND LANGUAGE ACQUISITION	3
ENG 31007	PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE	3
ENG 31010	THE BILINGUAL MENTAL LEXICON	3
Language and Thought in World Perspective Elective		3
Writing Elective		3
	Credit Hours	**15**
Semester Six		
ENG 41092 or ENG 41192 or ENG 41292	ESL PRACTICUM IN INTENSIVE ENGLISH PROGRAMS (ELR) or ESL PRACTICUM IN A P-12 SETTING (ELR) or TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM (ELR)	3
ETEC 39525 or ETEC 47400 or ETEC 47403	EDUCATIONAL TECHNOLOGY or TRENDS IN EDUCATIONAL TECHNOLOGY or INSTRUCTIONAL DESIGN	3
General Electives		9
	Credit Hours	**15**
Semester Seven		
ENG 41003	LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT	3
or Language and Thought in World Perspective Elective		
General Electives		12
	Credit Hours	**15**
Semester Eight		
ENG 41003	LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT	3
or Language and Thought in World Perspective Elective		
General Electives		12
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate their professional knowledge through projects and writing.
2. Demonstrate learning and effective teaching practices that incorporate distance learning, computer-assisted learning and effective use of software.
3. Engage with diversity by defining and identifying the English language learners they are likely to serve, and by developing effective teaching strategies to teach for diversity.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Teaching English as a Second Language provides students with a broad understanding of both theory and practice in language studies, pedagogy and culture. Students gain mastery in implementing their skills in varied second-language teaching contexts; in addition, they can observe and participate with international learners in a state-of-the-art technology classroom.

Students who complete an optional practicum abroad may earn the Teaching English as a Foreign Language undergraduate certificate. Students can additionally work toward state teacher licensure by completing the Education minor.

Teaching English as a Second Language students may apply early to the M.A. degree in Teaching English as a Second Language and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Teaching English as a Second Language - M.A.

College of Arts and Sciences
Department of English
www.kent.edu/english

About This Program

The Master of Arts in Teaching English as a Second Language is designed for current ESL educators. This program provides advanced training in pedagogical theory and practice. Read more...

Contact Information

- **Mark Bracher, Ph.D.** | mbracher@kent.edu | 330-672-2665
- **Bee Viton** | bviton@kent.edu | 330-672-1708
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person

- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Adult basic education, adult secondary education, and English as a Second Language instructors

- -10.4% decline
- 59,300 number of jobs
- $55,350 potential earnings

Elementary school teachers, except special education

- 3.5% about as fast as the average
- 1,452,100 number of jobs
- $60,940 potential earnings

Kindergarten teachers, except special education

- 3.7% about as fast as the average
- 127,700 number of jobs
- $57,860 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Preschool teachers, except special education

- 2.5% slower than the average
- 540,400 number of jobs
- $31,930 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

English language and literature teachers, postsecondary

- 2.1% slower than the average
- 81,300 number of jobs
- $69,000 potential earnings

Tutors and teachers and instructors, all other

- 7.4% faster than the average
- 406,200 number of jobs
- $40,590 potential earnings

English language and literature teachers, postsecondary

- 2.1% slower than the average
- 81,300 number of jobs
- $69,000 potential earnings

Additional Careers

- Academic advisor
- Community college ESL instructor
- Curriculum designer
- Educational consultant
- Educational materials writer/editor
- Language assessment writer/editor
- Language program director
- Language school instructor (in the U.S. or abroad)
- Teacher educator
- Teacher of English as a foreign language
- Teacher supervisor
- University ESL instructor

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement (1-2 pages)
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Applicants are assessed holistically, considering academic credentials, academic or professional references, non-academic criteria and other specific program criteria.

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Funding deadline: January 15
    Applications must be submitted by this deadline to be considered for an assistantship or any other funded position.
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ENG 63001	METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE	3
ENG 63033	THEORIES IN SECOND LANGUAGE ACQUISITION	3
ENG 63040	LINGUISTICS FOR THE LANGUAGE PROFESSIONS	3
ENG 63041	DESCRIPTIVE GRAMMAR OF ENGLISH	3
Additional Requirements or Concentration		
Choose from the following:		24-36
Additional Requirements for Students Not Declaring a Concentration		
TESL Education Concentration		
Minimum Total Credit Hours:		**36-48**

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
ENG 63034	SOCIOLINGUISTICS	3
or ENG 63047	HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING	
or ENG 63048	SOCIOCULTURAL THEORY AND FOREIGN AND SECOND LANGUAGE ACQUISITION	
ENG 68492	PRACTICUM IN TEACHING INTERNATIONAL STUDENTS	3
Major Electives, choose from the following: [1]		18
ENG 63034	SOCIOLINGUISTICS [2]	
ENG 63038	TEACHING LITERATURE AND CULTURE	
ENG 63039	SECOND LANGUAGE CURRICULUM AND ASSESSMENT	
ENG 63043	SECOND LANGUAGE WRITING	
ENG 63044	SECOND LANGUAGE READING	
ENG 63045	ENGLISH FOR SPECIFIC PURPOSES	
ENG 63046	SECOND LANGUAGE LISTENING AND SPEAKING	
ENG 63047	HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING [2]	
ENG 63048	SOCIOCULTURAL THEORY AND FOREIGN AND SECOND LANGUAGE ACQUISITION [2]	
ENG 63049	SECOND LANGUAGE RESEARCH METHODS	
ENG 63391	SEMINAR: LINGUISTICS	
ENG 69199	THESIS I	
Minimum Total Credit Hours:		**24**

1 Students may use 6 credit hours in appropriate graduate courses in other departments with approval of department advisor toward the 18 credit hour requirement.

2 Students may choose these courses if not chosen above.

TESL Education Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67105	IMPROVING CLASSROOM INSTRUCTION	3
CI 67310	THEORY AND PRACTICE IN THE TEACHING OF READING	3
or CI 67330	READING IN CONTENT AREAS	
ENG 63044	SECOND LANGUAGE READING	3
ENG 68592	PRACTICUM IN TEACHING P-12 ENGLISH LANGUAGE LEARNERS [1,2]	3
Concentration Electives, choose from the following:		15
CI 60169	UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES	
CI 60171	TEACHING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS	
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	
ENG 63034	SOCIOLINGUISTICS	
ENG 63038	TEACHING LITERATURE AND CULTURE	
ENG 63039	SECOND LANGUAGE CURRICULUM AND ASSESSMENT	
ENG 63043	SECOND LANGUAGE WRITING	
ENG 63045	ENGLISH FOR SPECIFIC PURPOSES	
ENG 63046	SECOND LANGUAGE LISTENING AND SPEAKING	
ENG 63047	HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING	
ENG 63048	SOCIOCULTURAL THEORY AND FOREIGN AND SECOND LANGUAGE ACQUISITION	
ENG 63049	SECOND LANGUAGE RESEARCH METHODS	
EPSY 65524	LEARNING THEORIES	
Culminating Requirement		
ENG 51525	INQUIRY INTO PROFESSIONAL PRACTICE [3]	3
ENG 53392	STUDENT TEACHING [2,3,4]	6
Minimum Total Credit Hours:		**36**

1 Students complete 100 hours of field work as teacher assistants in area schools, which enable them to gain collaborative clinical experience as P-12 teachers.

2 Prior to enrollment in ENG 53392 and ENG 68592, students must be evaluated satisfactorily on non-academic dimensions, including completing background checks and modules. Further information is available in the Office of Graduate Student Services.

3 ENG 51525 and ENG 53392 must be taken concurrently.

4 During students' full-time student teaching assignment, they are assessed on professional dispositions, understanding of codes of ethics and professional standards appropriate to TESL and work with English language learners. In the school context, students are assessed data literacy and analysis; use of research and assessment data; leadership and collaboration; utilization and support of appropriate technology for the discipline; and understanding of laws related to English language learners.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- All students in the M.A. degree complete a capstone project with options of a thesis or portfolio or exams.

- All students in the M.A. degree cannot be concurrently enrolled in the Teaching English as a Second/Foreign Language certificate. Students who hold either certificate may be permitted to apply 12 graduate credit hours earned in the certificate toward the M.A. degree.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate understanding of different associated fields within teaching English as a second language, including linguistics, language acquisition, pedagogy and practice.
2. Demonstrate what knowledge of the field and disciplines making up teaching English as a second language.
3. Demonstrate skills in teaching.
4. Demonstrate understanding of different cultural norms and practices and the ability to accommodate teaching practices based on these differences.

Full Description

The Master of Arts degree in Teaching English as a Second Language is grounded in linguistic principles, language learning theory and empirical research on language learning and teaching. The program enables students to teach effectively in varied learning contexts. Students gain experience through a supervised practicum and have the opportunity to teach in a variety of English-as-a-second/foreign-language contexts. Graduates are prepared for international teaching and research, adult education, and advanced study in applied linguistics. literacy positions.

The Teaching English as a Second Language major includes the following optional concentration:

- The **TESL Education** concentration prepares students for P-12 school educators. Students' practicum takes place in area schools, and students prepare for the state licensure requirements.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Teaching English as a Second/ Foreign Language - Graduate Certificate

College of Arts and Sciences
Department of English
www.kent.edu/english

About This Program

The Teaching English as a Second/Foreign Language graduate certificate is for students who are interested in developing professional knowledge and skills in the area of teaching English. The curriculum focuses on providing students with a broad background in the field, in particular linguistics, language-teaching methodologies and language acquisition and use.

Contact Information

- **Mark Bracher, Ph.D.** | mbracher@kent.edu | 330-672-2665
- **Bee Viton** | bviton@kent.edu | 330-672-1708
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Adult basic education, adult secondary education, and English as a Second Language instructors

- -10.4% decline
- 59,300 number of jobs
- $55,350 potential earnings

Tutors and teachers and instructors, all other

- 7.4% faster than the average
- 406,200 number of jobs
- $40,590 potential earnings

Additional Careers

- Community college ESL instructor
- Curriculum designer
- Educational consultant
- Educational materials writer/editor
- Language assessment writer/editor
- Language school instructor (in the U.S. or abroad)
- Teacher of English as a foreign language

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
ENG 63001	METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE	3
ENG 63033	THEORIES IN SECOND LANGUAGE ACQUISITION	3
ENG 63041	DESCRIPTIVE GRAMMAR OF ENGLISH	3
Certificate Electives, choose from the following:		9
ENG 63034	SOCIOLINGUISTICS	
ENG 63038	TEACHING LITERATURE AND CULTURE	
ENG 63039	SECOND LANGUAGE CURRICULUM AND ASSESSMENT	
ENG 63040	LINGUISTICS FOR THE LANGUAGE PROFESSIONS	
ENG 63043	SECOND LANGUAGE WRITING	
ENG 63044	SECOND LANGUAGE READING	
ENG 63045	ENGLISH FOR SPECIFIC PURPOSES	
ENG 63046	SECOND LANGUAGE LISTENING AND SPEAKING	
ENG 63047	HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING	
ENG 63049	SECOND LANGUAGE RESEARCH METHODS	
ENG 63391	SEMINAR: LINGUISTICS	
ENG 68492	PRACTICUM IN TEACHING INTERNATIONAL STUDENTS	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Students declared in a doctoral degree should enroll in the doctoral-level version of these courses, if offered.

Teaching English as Second Language Endorsement Preparation - Graduate Non-Degree

College of Arts and Sciences
Department of English
www.kent.edu/english

About This Program

With the Teaching English as a Second Language Endorsement Preparation program, you will gain the skills and knowledge needed to teach English to non-native speakers and make a meaningful impact in the field. With experienced faculty, flexible course options and a comprehensive curriculum, our program prepares you for success. Read more...

Contact Information

- **Mark Bracher, Ph.D.** | mbracher@kent.edu | 330-672-2665
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Adult basic education, adult secondary education, and English as a Second Language instructors

- -10.4% decline
- 59,300 number of jobs
- $55,350 potential earnings

Elementary school teachers, except special education

- 3.5% about as fast as the average
- 1,452,100 number of jobs
- $60,940 potential earnings

Kindergarten teachers, except special education

- 3.7% about as fast as the average
- 127,700 number of jobs
- $57,860 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Preschool teachers, except special education

- 2.5% slower than the average
- 540,400 number of jobs
- $31,930 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

Approved by the Ohio Department of Higher Education

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Documentation of current Ohio license in any P-12 area of expertise
- Official transcript(s)
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Licensure Requirements		
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	3
or CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
ENG 63001	METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE [1]	3
ENG 63033	THEORIES IN SECOND LANGUAGE ACQUISITION	3
ENG 63044	SECOND LANGUAGE READING	3
ENG 68592	PRACTICUM IN TEACHING P-12 ENGLISH LANGUAGE LEARNERS [1, 2]	3
Endorsement Electives, choose from the following:		6
CI 60169	UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES	
CI 60171	TEACHING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS	
ENG 63034	SOCIOLINGUISTICS	
ENG 63038	TEACHING LITERATURE AND CULTURE	
ENG 63039	SECOND LANGUAGE CURRICULUM AND ASSESSMENT	
ENG 63040	LINGUISTICS FOR THE LANGUAGE PROFESSIONS	
ENG 63043	SECOND LANGUAGE WRITING	
ENG 63046	SECOND LANGUAGE LISTENING AND SPEAKING	
ENG 63047	HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING	
Minimum Total Credit Hours:		**21**

[1] An assessment of professional dispositions occurs in this course to demonstrate students' understanding of codes of ethics and professional standards appropriate to TESL and work with English Language Learners. Assessed in this course are competencies such as data literacy and analysis; use of research and assessment data; leadership and collaboration; utilization and support of appropriate technology for the discipline,;and an understanding of laws related to English Language Learners.

[2] Students undertake 100 hours of fieldwork as teacher assistants in area schools to gain collaborative clinical experience as P-12 teachers. Prior to enrollment in ENG 68592, students must be evaluated satisfactorily on non-academic dimensions, including completing background checks.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Licensure and Endorsement Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Special Education Department for specific program requirements and refer to the Ohio

Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Demonstrate understanding of different associated fields within teaching English as a second language, including linguistics, language acquisition, pedagogy and practice.
2. Demonstrate skills in all aspects of teaching language, literacy and content to English language learners.
3. Demonstrate understanding of diverse cultural norms and practices within educational contexts.

Full Description

The Teaching English as Second Language Endorsement Preparation non-degree program allows teachers with a current Ohio teaching license to advance their knowledge of language and second language learning in the P-12 context. Completion of the coursework is a prerequisite to being recommended by Kent State University for supplemental license in multi-age teaching English to speakers of other language; and licenses are granted by the Ohio Department of Education.

The non-degree program is not a master's degree. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into the M.A. degree in Teaching English as a Second Language, TESL Education concentration.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Teaching English as Second Language Endorsement Preparation - Undergraduate Non-Degree

College of Arts and Sciences
Department of English
www.kent.edu/english

About This Program

Designed for teachers looking to add a valuable skill to their repertoire, this non-degree program provides comprehensive training in teaching English as a second language. With experienced faculty and practical opportunities, you will develop the knowledge and expertise needed to help students achieve their language learning goals. Read more...

Contact Information

- **Ryan Hediger, Ph.D.** | rhediger@kent.edu | 330-672-1741
- **Sheri McMahon** | smcmaho7@kent.edu | 330-672-2676
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Adult basic education, adult secondary education, and English as a Second Language instructors

- -10.4% decline
- 59,300 number of jobs
- $55,350 potential earnings

Elementary school teachers, except special education

- 3.5% about as fast as the average
- 1,452,100 number of jobs
- $60,940 potential earnings

Kindergarten teachers, except special education

- 3.7% about as fast as the average
- 127,700 number of jobs
- $57,860 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Preschool teachers, except special education

- 2.5% slower than the average
- 540,400 number of jobs
- $31,930 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

Ohio Department of Education (CAEP)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Code	Title	Credit Hours
Endorsement Requirements		
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
ENG 31003	LINGUISTICS	3
ENG 31005	CHILD SECOND LANGUAGE ACQUISITION	3
ENG 31007	PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE [1]	3
ENG 31008	GRAMMAR FOR TEACHING ENGLISH AS A SECOND/FOREIGN LANGUAGE	3
ENG 41003	LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT [2]	3
ENG 41192	ESL PRACTICUM IN A P-12 SETTING (ELR) [3]	3
Minimum Total Credit Hours:		**21**

1. An assessment of professional dispositions occurs in this course demonstrating Endorsement students' understanding of codes of ethics and professional standards appropriate to TESL and work with English Language Learners.
2. Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and an understanding of laws related to English Language Learners as assessed in this course.
3. Seventy hours of field placements as teacher assistants in area schools enable students to gain collaborative clinical experience as P-12 teachers.

Graduation Requirements

- Minimum GPA: 3.000

LICENSURE INFORMATION

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Demonstrate understanding of different fields within teaching English as a second language, including linguistics, language acquisition, pedagogy and practice.
2. Demonstrate understanding of different cultural norms and practices within effective instruction.
3. Demonstrate effective language and literacy instruction for English language learners.

Full Description

The non-degree program in Teaching English as Second Language Endorsement Preparation allows students to concurrently seek an undergraduate degree program leading to state licensure at Kent State while also working toward meeting TESL endorsement requirements of the Ohio Department of Education. The program increases student knowledge of language and second language learning in the P-12 context while it prepares them as teachers of English learners.

Successful completion of this program serves as recommendation to the Ohio Department of Education for endorsement in TESL, but it is not a degree program. Students must complete their degree program and be qualified for licensure in another area of study. The endorsement serves as an add-on to a state teaching license in Ohio.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Department of Geography

College of Arts and Sciences
Department of Geography
413 McGilvrey Hall
Kent Campus
330-672-2045
geography@kent.edu
www.kent.edu/geography

Undergraduate Programs

- Environmental Studies - B.A.
- Geography - B.A.

Minors

- Climate Change
- Environmental Studies
- Geographic Information Science
- Geography
- Urban Studies

Graduate Programs

- Geographic Information Science - M.GISc
- Geography - M.S.
- Geography - Ph.D.

Certificates

Graduate Certificates

- Environmental Geographic Information Science
- Geographic Information Science

Department of Geography Faculty

- Amey, Katherine S. (2009), Professor, Ph.D., Kent State University, 2011
- Bitterman, Patrick J. (2024), Assistant Professor, Ph.D., University Of Iowa, 2017
- Kaplan, David H. (1995), Professor, Ph.D., University of Wisconsin-Madison, 1991
- Lee, Cameron C. (2008), Associate Professor, Ph.D., Kent State University, 2014
- Mapes, Jennifer E. (2012), Assistant Professor, Ph.D., University of Southern California, 2009
- Munro-Stasiuk, Mandy J. (1999), Professor, Ph.D., University of Alberta, 1999
- Parylak, Rebecca P. (2008), Professor, Ph.D., Texas State University, San Marcos, 2010
- Post, Christopher (2008), Professor, Ph.D., University of Kansas, 2006
- Scholl, Andrew E. (2013), Assistant Professor, Ph.D., Penn State University, 2008
- Sheridan, Scott C. (2000), Professor, Ph.D., University of Delaware, 2000
- Smiley, Sarah L. (2010), Professor, Ph.D., University Of Kansas, 2007
- Tyner, James A. (1997), Professor, Ph.D., University of Southern California, 1995
- Ward, Aimee L. (2020), Assistant Professor, Ph.D., University of Otago, 2018
- Widner, Emariana S. (2009), Professor, Ph.D., Texas State University, 2009
- Yin, He (2019), Assistant Professor

Environmental Studies (ENVS)

ENVS 22070 NATURE AND SOCIETY (KSS) 3 Credit Hours
Environmental studies takes an interdisciplinary approach to studying the environment, with insights from natural sciences, social sciences and the humanities. This course introduces the discipline and explores theoretical approaches to understanding how humans interact with and perceive their environment. It applies these approaches to some of the world's greatest environmental challenges: climate change, the loss of biodiversity, urban sustainability, food and resource insecurity, and the degradation of the physical environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Social Sciences, TAG Social and Behavioral Sciences

ENVS 30000 ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT 3 Credit Hours
(Cross-listed with PLST 30000) The Federal and State environmental regulations including the National Environmental Policy Act, the Clean Air Act, the Clean Water Act, Solid and Hazardous Waste regulations (RCRA) and the Superfund Legislation require the utilization of trained environmental professionals to conduct Environmental Site Assessments (ESAs). The focus of this course is to introduce students to the methods and approaches for conducting environmental research and study of industrial sites with respect to environmental policies and regulations. The enforcement of regulations utilize environmental professionals who serve in governmental agencies, work in private environmental companies that provide assessments and consultations for industries, and who are employed by industries that seek qualified employees to conduct assessments, and provide professional guidance for industrial regulatory compliance.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENVS 30105 CAREER PATHWAYS IN ENVIRONMENTAL STUDIES 1 Credit Hour
Orients students toward various career pathways in environmental studies.
Prerequisite: ENVS 22070; and Environmental Studies major; and junior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

ENVS 32091 ENVIRONMENTAL STUDIES AND SUSTAINABILITY 2 Credit Hours
Various aspects of environmental studies are explored. Topics vary.
Prerequisite: ENVS 22070; and Environmental Studies major; and junior standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

ENVS 42099 INTEGRATIVE SENIOR PROJECT (ELR) (WIC) 3 Credit Hours
This is the capstone course for the Environmental Studies major. All students in this course learn about methods of investigation and presentation in the area of environmental studies. The course culminates in a major research project developed and written by each student.
Prerequisite: ENVS 22070 and ENVS 32091; and Environmental Studies major.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ENVS 46092 INTERNSHIP IN ENVIRONMENTAL STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) (Slashed with ENVS 56092) Work experience in local, regional and national agencies or companies designed to utilize and develop academic and professional skills.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENVS 49195 SPECIAL TOPICS IN ENVIRONMENTAL STUDIES 1-3 Credit Hours
(Slashed with ENVS 49195) Special topics in Environmental Studies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3-9 lecture
Grade Mode: Standard Letter

ENVS 56092 INTERNSHIP IN ENVIRONMENTAL STUDIES 3-6 Credit Hours
(Slashed with ENVS 46092)(Repeatable for credit) Work experience in local, regional and national agencies or companies designed to utilize and develop academic and professional skills.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Standard Letter

ENVS 59195 SPECIAL TOPICS IN ENVIRONMENTAL STUDIES 1-3 Credit Hours
(Slashed with ENVS 49195) Special topics in Environmental Studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3-9 lecture
Grade Mode: Standard Letter

Geography (GEOG)

GEOG 10160 INTRODUCTION TO GEOGRAPHY 3 Credit Hours
A broad introduction to the study of geographic patterns on Earth. Course describes and explains spatial patterns of human activity and environmental processes, as well as the interaction between these two realms. Topics include weather, climate, landforms, human-environment interactions, population, culture, economy and politics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 16001 SOIL AND HORTICULTURAL MANAGEMENT 3 Credit Hours
Course provides students with an understanding of the relationship of soil, nutrients and fertilizers. Students understand how to properly plant trees, shrubs and flowers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 17063 WORLD GEOGRAPHY (DIVG) (KSS) 3 Credit Hours
An overview of the differences and similarities within and between regions of the world. Students study the impacts of spatial processes as they operate at regional, global and local scales. Course emphasizes the effects of globalization on culture, economies, geopolitical relationships, population and the environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

GEOG 17064 GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS) 3 Credit Hours
An overview of the differences and similarities within and between regions of the United States and Canada. Course focuses on social, economic, settlement and environmental patterns and processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

GEOG 20195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit) Course explores emerging topics in geography not covered in other existing courses. Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 21062 PHYSICAL GEOGRAPHY (KBS) 3 Credit Hours
Introduction to the study of the spatial characteristics of the Earth's physical environment, including how humans interact with it. Topics include weather and climate, vegetation, soils, ecosystems, landforms and land-formation processes, human impacts on Earth systems and human societal adaptations to the physical environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Social and Behavioral Sciences, Transfer Module Natural Sciences

GEOG 21063 PHYSICAL GEOGRAPHY LABORATORY (KBS) (KLAB) 1 Credit Hour
Course offers practical experience examining physical geographic processes, including the study and manipulation of map projections, Earth-sun relationships and experiments relating to the atmosphere, biosphere, lithosphere and hydrosphere. This laboratory course is taught in conjunction with the lecture and is designed to expand and reinforce concepts discussed in lecture through hands-on activities.
Corequisite: GEOG 21062.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

GEOG 22040 INTRODUCTION TO GLOBAL TOURISM (DIVG) 3 Credit Hours
(Cross-listed with RPTM 26060) Introduction to travel and tourism around the world. Students study tourism technologies and cultural and natural environments as attractions, benefits of travel, travel ethics and sustainable development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 22061 HUMAN GEOGRAPHY (DIVG) (KSS) 3 Credit Hours
Introduction to the spatial patterns and processes of human activity on Earth. Course examines how humans understand and interact with the world. Students consider how cities are structured; economic and cultural differences; the interaction between politics and identity; and the environmental consequences of human activities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

GEOG 31062 FUNDAMENTALS OF METEOROLOGY 3 Credit Hours
Analysis of weather elements emphasizing energy exchanges and controls and atmospheric circulation. Course highlights the methods of weather prediction and people's modification of weather.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 31064 CLIMATE AND THE ENVIRONMENT 3 Credit Hours
A study of the physical processes causing the distribution of world climates. Focus on local and urban climates, climatic change and societal impacts of climate.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 31070 POPULATION AND THE ENVIRONMENT 3 Credit Hours
Course examines the interrelations of population growth, resource depletion and the environment from a geographic perspective, including the principal themes of space and place.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 31080 GEOGRAPHY OF WINE 3 Credit Hours
Examines the physical environment of viticulture, including climate, soil and farm practices; the cultural tradition of wine making, consumption and trade; and regional production styles.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 31088 ENVIRONMENTAL GEOGRAPHY THROUGH FILM 3 Credit Hours
Cinema combines the art of storytelling and creation of landscape in such a way as to capture artifacts of the culture from which films emerge and as such, document in some way cultural, social and political history and experiences. In the course, films are used to examine environmental issues and processes in their social and cultural context.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 32023 FOOD AND PLACE (ELR) 3 Credit Hours
Course gives students a working knowledge in, and ability to understand and analyze, the intersections of food production, access and consumption. Course enables students to apply a critical geographic lens to compare the traditional food production system with alternatives at various scales, from local to global. Students focus on urban community gardening as one such alternative and personally interact with the Stark Campus' Flash's Food Garden as a case study in planning and preparing such a garden. Course combines lectures, discussions of scholarly publications, field trips, guest lectures and the hands-on experiential learning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GEOG 32080 POLITICS AND PLACE (DIVG) 3 Credit Hours
Spatial aspects of political behavior as manifested in boundary changes, the sizes of states, interstate relations and spatial organization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 34070 ECONOMIC GEOGRAPHY 3 Credit Hours
Examines economic patterns at global, national, regional and local scales. Focus of course goes beyond space to place, with the recognition that these patterns are socially produced and, as such, change over time. Students examine economic models and theories from a spatial perspective, but with a strong focus on real-life outcomes, debates and challenges.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 36065 CITIES AND URBANIZATION (DIVG) 3 Credit Hours
Course examines what is a city, how it has evolved over time under changing economic conditions, what is its internal structure and how this has been influenced by transportation developments. Special attention is paid to the causes and consequences of social diversity within the city and how cities differ throughout the world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37010 GEOGRAPHY OF OHIO 3 Credit Hours
Study of Ohio as a distinctive region, its environment and the varied characteristics of its population, its historical geographic development and contemporary patterns and problems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 37040 GEOGRAPHY OF AFRICA (DIVG) 3 Credit Hours
Course covers the complex geographical and cultural elements in Africa and demonstrates how the interaction of these elements has affected Africa's linkages to other continents, especially North America. Students discuss how this diversity has affected Africa's economic development and political evolution.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37045 GEOGRAPHY OF THE MIDDLE EAST 3 Credit Hours
The Middle East is a world region where the interactions between human and physical geographies have shaped its history, culture, economies and population patterns. The course uses a thematic approach to understand these interactions and how they shape the modern Middle East and its relationship with the wider world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 37066 GEOGRAPHY OF EUROPE (DIVG) 3 Credit Hours
Europe is unique in terms of its historical cultural influence around the world, but over recent decades, Europe has undergone significant change and experienced many struggles. The attempts to integrate have led to significant debates about just what it means to be "European." This course covers Europe using a systematic approach. Students study the physical, political, religious, linguistic, social and economic environments within Europe. In addition, students explore the issues that tie Europeans to each other and to the outside world. Students sum up many of these aspects with case studies of nations or regions that typify the issues that face Europe today.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37070 GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG) 3 Credit Hours
Analysis of the physical and cultural geography of East and Southeast Asia, extending from Japan and China to Burma and Indonesia.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37072 GEOGRAPHY OF CHINA 3 Credit Hours
Provides an overview of China's physical environment, natural and human resources, social, economic and cultural characteristics, and its roles in today's global environment. Offers a comprehensive view of China's historical development and contemporary trends of growth and how it impacts the United States.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 37084 GEOGRAPHY OF SOUTH AMERICA (DIVG) 3 Credit Hours
Overview of region and survey of each country emphasizes systematic similarities and differences in physical environment, culture, economic development, population, land use, politics and history.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37085 GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG) 3 Credit Hours
Latin America and the Caribbean is a traditional geographic region that has been uniquely shaped through multiple physical and cultural factors. Course takes a thematic approach to understanding the interplay of these factors and how they shape modern Latin America-Caribbean identity; the diversity of the environment and culture within the region; and how the region relates to the rest of the world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

GEOG 37095 SPECIAL TOPICS IN REGIONAL GEOGRAPHY 3 Credit Hours
(Repeatable for a maximum of 3 times) Special topics course in a specific region of the world. Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 39002 STATISTICAL METHODS IN GEOGRAPHY 3 Credit Hours
Explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association and regression analysis. Geographic applications are emphasized.
Prerequisite: MATH 10041 or MATH 11009 or MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 39070 MAPPING, SPACE AND POWER 3 Credit Hours
Maps serve as visual representations of space. They encapsulate the intentions and perspectives of their creators and acquire new functionalities as people interpret and use them for various purposes. This course focuses on critical cartography as it analyzes the power and influence wielded by maps. Students explore maps, the process of map creation and map interpretation. They also delve into how mapping activities are inherently political and inseparable from power dynamics. The course examines the historical and cultural development of mapping with a focus on how maps perpetuate existing power structures through their creation, distribution and interpretation. At the same time, students also focus on the power of maps to disrupt and to promote social and environmental justice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 40093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-6 Credit Hours
(Repeatable for credit) Workshop topics vary per course offering.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 40191 SEMINAR IN GEOGRAPHY (ELR) (WIC) 3 Credit Hours
(Repeatable for credit) Advanced study of the historical development of geography and of contemporary issues in the field. Emphasis on methods of geographic investigation and presentation of results.
Prerequisite: Geography major; and junior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GEOG 40192 PRACTICUM IN GEOGRAPHY (ELR) 1-3 Credit Hours
(Repeatable for credit) Practical experience in using or teaching geographic techniques and/or problem-solving. Faculty supervise the practicum.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

GEOG 40195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 50195 and GEOG 70195) Topics vary according to research interest of the instructor.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 40199 CAPSTONE IN APPLIED GEOGRAPHY (ELR) (WIC) 3 Credit Hours
This is a capstone course in the geography major. The course consists of the development of a major geography research project of the student's choice (with instructor approval), including the development of a problem statement, methodology and final report, along with a presentation of the research project and its conclusions. The central component of the course is a capstone project that students complete by the end of the course. The capstone project allows the student to apply the skills and knowledge they gained through their experiences in the geography major. The project demonstrates their ability to analyze a real-world problem using GIS and come up with a solution based upon that analysis. This may consist of a project tied into an internship or job that contributes significantly to their future professional work. For others, this project provides a demonstration to potential employers of their GIS skills.
Prerequisite: Special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GEOG 40285 FIELD EXPERIENCE IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 50285 and GEOG 70285) This course introduces students to field methods used in human and physical geography. Students spend most of the class hours outside investigating important local resources like the Cuyahoga Valley National Park, where they are introduced to geographic approaches to real world problems. Specific field methods may include: landscape interpretation; atmospheric monitoring; hydrologic sampling; terrestrial habitat analyses; human and nature interactions; food desert investigation; urban green space ratios; and traffic data collection.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 40392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS (ELR) 1-6 Credit Hours
(Repeatable for credit) Students undertake a practicum to examine newly emerging geographic topics and techniques.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

GEOG 40492 STUDY AWAY IN GEOGRAPHY (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with GEOG 50492 and GEOG 70492) Examination of geographic landscapes in the field.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GEOG 40996 INDIVIDUAL INVESTIGATION IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit) Students undertake an investigation or research on specific geographical problems.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

GEOG 41051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours
(Slashed with GEOG 51051 and GEOG 71051) This course is a study of natural disasters, the physical processes responsible for hazards, and their effects on the physical and social environment. It focuses on the science of natural hazards and how we can use our knowledge of these natural events and processes to reduce the occurrence or mitigate the effects of natural disasters. Natural disasters include earthquakes, volcanoes, tsunamis, landslides, thunderstorms and tornadoes, heatwaves and droughts, floods, coastal hazards, and wildfires. This course is taught through lecture and analysis of numerous case studies of global natural disasters.
Prerequisite: Junior standing or above.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41065 DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 51065 and GEOG 71065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) to provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.
Prerequisite: GEOG 31062 or GEOG 31064.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41066 GLOBAL CLIMATE CHANGE 3 Credit Hours
(Slashed with GEOG 51066 and GEOG 71066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41073 CONSERVATION OF NATURAL RESOURCES 3 Credit Hours
(Slashed with GEOG 51073 and GEOG 71073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41074 RESOURCE GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 51074 and GEOG 71074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41077 WATER AND SOCIETY 3 Credit Hours
(Slashed with GEOG 51077 and GEOG 71077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion based with limited lectures to ensure students understand key concepts.
Prerequisite: Junior standing or above.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41082 GEOGRAPHY OF SOILS 3 Credit Hours
(Slashed with GEOG 51082 and GEOG 71082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.
Prerequisite: ESCI 11040 or GEOG 21062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 41195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for a maximum 10 times)(Slashed with GEOG 51195 and GEOG 71195) Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 41800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours
(Slashed with GEOG 51800 and GEOG 71800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42040 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours
(Cross-listed with RPTM 46000, HTM 56000) Investigation of travel and tourism development using an interdisciplinary social science approach.
Prerequisite: RPTM 36060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42052 HEALTH GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 52052 and GEOG 72052) This course examines health/medical geography, a subdiscipline of both public health and geography, that focuses on geographic aspects of health and disease. The field deals with human-environment interactions and their influence on human health. This course offers historical context to geography and health and covers three major approaches to health/medical geographic scholarship: ecological approaches, which systematically analyzes relationships between people and their environments; social approaches, including political economy and socio-behavioral approaches; and spatial approaches.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours
(Slashed with GEOG 52053 and GEOG 72053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 52064 and GEOG 72064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 42070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours
(Slashed with GEOG 52070 and GEOG 72070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.
Prerequisite: Junior standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 42195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for maximum 10 times)(Slashed with GEOG 52195 and 72195) Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 43070 WICKED PROBLEMS: TACKLING GLOBAL ISSUES IN THE 21ST CENTURY 3 Credit Hours
(Cross-listed with ESCI 43001 and POL 43001) This course provides an overview and analysis of the United Nations Sustainable Development Goals (SDG), as well as strategies that can be used for tackling them. The SDGs address the most serious problems faced by humankind today. These include poverty, hunger, inequality, climate change, economic development and environmental sustainability. A key characteristic of the SDGs is that they are known as “wicked problems.” Wicked problems are complex issues that resist conventional approaches to problem solving, and for which existing solutions often create unintended consequences that only make the original problem worse. Emphasis is placed on problems of collective action, evidence-based public policies and interdisciplinary approaches to addressing global issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 44010 GEOGRAPHIES OF GLOBAL DEVELOPMENT 3 Credit Hours
(Slashed with GEOG 54010 and GEOG 74010) This course examines the political economy of development. More narrowly, we examine the historical geography of agricultural transformations and capitalist development. We draw from case studies from different regions to interpret differential patterns of development and political-economic change. Emphasis is placed on the creation, structure, and operation of the capitalist agro-food system and its impact on small-scale farmers and landless rural workers.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 45085 URBAN TRANSPORTATION 3 Credit Hours
(Slashed with GEOG 55085 and GEOG 75085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 46060 FOOD SECURITY AND SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 56060 and GEOG 76060) This course explores the concept of food security from the standpoint of agrarian change, food regimes, agroecology, and development. In the process, we examine the various frameworks that have grounded academic and popular understandings of famine and food security, including Malthusian, environmental determinism, Food Availability Decline (FAD), entitlements, and historical materialism.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 46070 URBAN AND REGIONAL PLANNING 3 Credit Hours
(Slashed with GEOG 56070 and GEOG 76070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 46080 URBAN SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 56080 and GEOG 76080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.
Prerequisite: None.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 46081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 56081 and GEOG 76081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.
Prerequisite: Junior standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 46092 INTERNSHIP IN GEOGRAPHY AND PLANNING (ELR) 3-6 Credit Hours
(Repeatable for credit) Pre-professional work experience in local, regional and environmental planning agencies and in business designed to utilize and develop academic skills. Registration into the course is competitive based on student's skills and interests and on number of positions available.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GEOG 49070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours
(Slashed with GEOG 59070 and GEOG 79070) Introduction to theories and methods for geographic data processing, including data capture and input data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

GEOG 49072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours
(Slashed with GEOG 59072 and GEOG 79072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49073 ENVIRONMENTAL DATA ANALYSIS IN R 3 Credit Hours
(Slashed with GEOG 59073 and GEOG 79073) The course aims to teach students basic concepts, skills, and tools for working with data in R. R is an open-source (free) programming language for statistical computing and graphics that statisticians widely use, scientists, data miners, and geographers. The number of R users grows exponentially each year, contributing to a massive online community and countless free tutorials. This is a hands-on course designed for students with no programming experience. However, this course does not teach statistics: understanding of basic statistics and common statistical tests is assumed and prior coursework in statistics is encouraged. With the knowledge gained in this course, students will be ready to undertake their own data analysis in R and increase their efficiency through reproducible workflows.
Prerequisite: BSCI 40224 or GEOG 39002 or MATH 10041.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours
(Slashed with GEOG 59075 and GEOG 79075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49076 SPATIAL PROGRAMMING 3 Credit Hours
(Slashed with GEOG 59076 and GEOG 79076) Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours
(Slashed with GEOG 59078 and GEOG 79078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 59080 and GEOG 79080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 59085 and GEOG 79085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49098 RESEARCH IN GEOGRAPHIC INFORMATION TECHNOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Students undertake individual research on a topic in geographic information technology.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

GEOG 49162 CARTOGRAPHY 3 Credit Hours
(Slashed with GEOG 49162 and GEOG 79162) Introduces map design principles including base maps, typography, generalization, symbols, color scheme, and classification. Builds on students' experiences with GIS to focus on applying map design principles using geospatial and graphic design software to produce effective print and static web maps.
Prerequisite: GEOG 49070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 49195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours
(Repeatable for maximum 10 times)(Slashed with GEOG 59195 and GEOG 79195) Topics vary per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 49198 RESEARCH IN CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS (ELR) 1-3 Credit Hours
(Repeatable for credit) Students undertake individual research on a topic in cartography or geographic information science (GIS) under the direction of a faculty member.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GEOG 49230 REMOTE SENSING 3 Credit Hours
(Cross-listed with ESCI 42030)(Slashed with ESCI 52030, ESCI 72030, GEOG 59230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 50093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-5 Credit Hours
(Repeatable for credit)Variable title workshop in geography.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 50195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 40195 and GEOG 70195) Topics vary according to research interest of the instructor.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 50285 FIELD EXPERIENCE IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 40285 and GEOG 70285) This course introduces students to field methods used in human and physical geography. Students spend most of the class hours outside investigating important local resources like the Cuyahoga Valley National Park, where they are introduced to geographic approaches to real world problems. Specific field methods may include: landscape interpretation; atmospheric monitoring; hydrologic sampling; terrestrial habitat analyses; human and nature interactions; food desert investigation; urban green space ratios; and traffic data collection.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 50392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS 1-6 Credit Hours
(Repeatable for credit) Students undertake a practicum examining newly emerging geographic topics and techniques.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 50492 STUDY AWAY IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for maximum 6 attempts)(Slashed with GEOG 40492 and GEOG 70492) Examination of geographic landscapes in the field.
Prerequisite: Graduate standing.
Schedule Type: Field Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter

GEOG 51051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours
(Slashed with GEOG 41051 and GEOG 71051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations.Students learn through the analysis of numerous case studies of natural disasters.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51065 DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 41065 and GEOG 71065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) to provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51066 GLOBAL CLIMATE CHANGE 3 Credit Hours
(Slashed with GEOG 41066 and GEOG 71066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51073 CONSERVATION OF OUR NATURAL RESOURCES 3 Credit Hours
(Slashed with GEOG 41073 and GEOG 71073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51074 RESOURCE GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 41074 and GEOG 71074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51077 WATER AND SOCIETY 3 Credit Hours
(Slashed with GEOG 41077 and GEOG 71077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion-based with limited lectures to ensure students understand key concepts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51082 GEOGRAPHY OF SOILS 3 Credit Hours
(Slashed with GEOG 41082 and GEOG 71082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 51195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for a maximum 10 times)(Slashed with GEOG 41195 and GEOG 71195) Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 51800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours
(Slashed with GEOG 41800 and GEOG 71800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52052 HEALTH GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 42052 and GEOG 72052) This course examines health/medical geography, a subdiscipline of both public health and geography, that focuses on geographic aspects of health and disease. The field deals with human-environment interactions and their influence on human health. This course offers historical context to geography and health and covers three major approaches to health/medical geographic scholarship: ecological approaches, which systematically analyzes relationships between people and their environments; social approaches, including political economy and socio-behavioral approaches; and spatial approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours
(Slashed with GEOG 42053 and GEOG 72053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 42064 and GEOG 72064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours
(Slashed with GEOG 42070 and GEOG 72070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 52195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for a maximum 10 times)(Slashed with GEOG 42195 and GEOG 72195) Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 54010 GEOGRAPHIES OF GLOBAL DEVELOPMENT 3 Credit Hours
(Slashed with GEOG 44010 and GEOG 74010) This course examines the political economy of development. More narrowly, we examine the historical geography of agricultural transformations and capitalist development. We draw from case studies from different regions to interpret differential patterns of development and political-economic change. Emphasis is placed on the creation, structure, and operation of the capitalist agro-food system and its impact on small-scale farmers and landless rural workers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 55085 URBAN TRANSPORTATION 3 Credit Hours
(Slashed with GEOG 45085 and GEOG 75085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 56060 FOOD SECURITY AND SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 46060 and GEOG 76060) This course explores the concept of food security from the standpoint of agrarian change, food regimes, agroecology, and development. In the process, we examine the various frameworks that have grounded academic and popular understandings of famine and food security, including Malthusian, environmental determinism, Food Availability Decline (FAD), entitlements, and historical materialism.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 56070 URBAN AND REGIONAL PLANNING 3 Credit Hours
(Slashed with GEOG 46070 and GEOG 76070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 56080 URBAN SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 46080 and GEOG 76080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 56081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 46081 and GEOG 76081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 56092 INTERNSHIP IN GEOGRAPHY AND PLANNING 3-6 Credit Hours
(Repeatable for credit) Pre-professional work experience in local, regional and environmental planning agencies and private business designed to utilize and develop academic skills.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

GEOG 59070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours
(Slashed with GEOG 49070 and GEOG 79070) Introduction to theories and methods for geographic data processing, including data capture and input, data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

GEOG 59071 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I 3 Credit Hours
Introduction to fundamental concepts and methods for geographic data analysis, including data capture and input, data storage and management, and data analysis and display. Emphasis is on applications of GIS software to real world issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours
(Slashed with GEOG 49072 and GEOG 79072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59073 ENVIRONMENTAL DATA ANALYSIS IN R 3 Credit Hours
(Slashed with GEOG 49073 and GEOG 79073) The course aims to teach students basic concepts, skills, and tools for working with data in R. R is an open-source (free!) programming language for statistical computing and graphics that statisticians widely use, scientists, data miners, and geographers. The number of R users grows exponentially each year, contributing to a massive online community and countless free tutorials. This is a hands-on course designed for students with no programming experience. However, this course does not teach statistics: understanding of basic statistics and common statistical tests is assumed and prior coursework in statistics is encouraged. With the knowledge gained in this course, students will be ready to undertake their own data analysis in R and increase their efficiency through reproducible workflows.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours
(Slashed with GEOG 49075 and GEOG 79075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59076 SPATIAL PROGRAMMING 3 Credit Hours
(Slashed with GEOG 49076 and GEOG 79076) Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena.
Prerequisite: GEOG 59070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours
(Slashed with GEOG 49078 and GEOG 79078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 49080 and GEOG 79080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.
Prerequisite: GEOG 59070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59081 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II 3 Credit Hours
Advanced theories and techniques for handling and analyzing geographic data, analytical functions and modelling approaches. Topics covered include: two- and three-dimension processing of geographic information, detection of geographic patterns through spatial analysis and spatial statistics, network analysis, modeling of geographic processes and an overview of GIS programming tools.
Prerequisite: GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 49085 and GEOG 79085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59162 CARTOGRAPHY 3 Credit Hours
(Slashed with GEOG 49162 and GEOG 79162) Introduces map design principles including base maps, typography, generalization, symbols, color scheme, and classification. Builds on students' experiences with GIS to focus on applying map design principles using geospatial and graphic design software to produce effective print and static web maps.
Prerequisite: GEOG 49070 or GEOG 59070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 59195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours
(Repeatable for maximum 10 times)(Slashed with GEOG 49195 and GEOG 79195).Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 59230 REMOTE SENSING 3 Credit Hours
(Cross-listed with ESCI 52030)(Slashed with ESCI 42030, ESCI 72030, GEOG 49230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 60191 SEMINAR IN TOPICAL GEOGRAPHY 3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 70191) Seminar in one of the major topical fields in geography. Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: GEOG 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 60800 SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT 3 Credit Hours
(Slashed with GEOG 70800) Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 60900 QUALITATIVE RESEARCH METHODS IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 70900) Introduces qualitative methods and research applications, along with methodological considerations of these approaches. Students consider the epistemology of qualitative research and learn the mechanics of conducting this research in the field. In class, these methods are put into practice and the results are put into writing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 60996 RESEARCH IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit) Students undertake individual research problems in geography.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

GEOG 60998 RESEARCH I 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

GEOG 61998 RESEARCH II 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 67091 SEMINAR IN REGIONAL GEOGRAPHY 3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 77091) Variable content seminar on one of the major regions of world.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 69004 QUANTITATIVE METHODS IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 79004) Explores the methods and applications of some of the most common statistics found in geographic work. It explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association, correlation and regression analysis, and principal components analysis. Theory and execution of these methods are equally emphasized, and applications to geographic problems are examined within each theme.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69007 SPATIOTEMPORAL ANALYTICS 3 Credit Hours
Course equips students with essential spatiotemporal thinking and technical skills in mapping, analyzing, visualizing, communicating and simulating the spatiotemporal data. The software ArcGIS and free packages in R and Netlogo are used in the instruction.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69073 GEOGRAPHIC INFORMATION SCIENCE: GLOBAL HEALTH 3 Credit Hours
Emerging and re-emerging diseases in non-developed countries pose one of the greatest health challenges of current times. Geospatial approaches often provide one of the only information sources in data poor and challenging environments. The course exposes students to these health issues and disease environments through varied case studies, while simultaneously highlighting the geospatial methods and approaches used to understand and combat disease.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69074 GEOGRAPHIC INFORMATION SCIENCE: SPATIAL ANALYSIS FOR HEALTH GEOGRAPHY 3 Credit Hours
Spatial analysis is used to verify patterns and associations in health data maps. These results can then be used to further hone the scientific question, or help design an intervention strategy. Course introduces students to spatial analytical approaches used by health researchers and practitioners in the exploratory investigation of health data. Students are exposed to new mobile technologies that can be used to enrich more traditional spatial data sources.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69079 ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
GPS and environmental spatial data are commonly used in a variety of management and assessment plans in fields related to environmental science to achieve effective decision making and environmental resource management. Course focuses on techniques used to process, manage, visualize and analyze environmental data using GIS. Students learn how to collect and process GPS and online sources of geospatial data and how to employ techniques such as suitability modeling, measuring distributions and calculating landscape metrics.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69082 CYBERGIS 3 Credit Hours
(Slashed with GEOG 79082) Explores cyberinfrastructure-enabled geographic information systems (i.e. cyberGIS) and related technologies including a broad introduction to the use, design, and development of cyberinfrastructure, spatial data infrastructures, geographic information services, and web-enabled mapping technologies. Situates CyberGIS in the broader context of geographic information science focusing on the how synthesizing computational thinking and spatial thinking influence methodological approaches.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69083 GEODATABASES 3 Credit Hours
Course explores the essential concepts and skills needed to efficiently create a geodatabase, add data to it and realistically model the real-world spatial relationships inherent to the data. Students learn about geodatabase features that help ensure data integrity over time and about storing and managing geographic data.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69164 CARTOGRAPHIC DESIGN 3 Credit Hours
Introduces students to the principles of map design and the art of map construction. Students will become familiar with the cartographic process, especially as they apply basic mapping concepts such as scale, projections, typography, generalization, symbols, color scheme, and classification to the design and production of thematic maps. Students will also learn how to describe and manipulate spatial data and how to select an appropriate map type for a given task and data set. This course builds on students' experiences with GIS to focus on the design needed to disseminate information beyond users of the software and produce effective print and web maps. Class exercises will provide hands-on experience in using GIS and graphic software packages. Principles and experiences learned in class will equip students with the fundamental skills necessary to effectively communicate graphic information through maps.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69231 ENVIRONMENTAL REMOTE SENSING 3 Credit Hours
Introduction to the basic principles of environmental remote sensing, including the electromagnetic spectrum, spectral properties of Earth objects, aerial photograph analysis and interpretation and satellite image analysis and interpretation. Special focus will be on environmental applications, especially as they pertain to understanding vegetation, water, and land use mapping and impacts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 69392 PRACTICUM IN GEOGRAPHIC INFORMATION SCIENCE 6 Credit Hours
Culminating experience for students in the MGISc program. It will be taken in place of two CarouselSpecialist courses on the schedule for the student's final semester. It is designed to provide practical experience in the application of MGISc course content in real-world professional settings. Students will select a professional project in consultation with their employer and program faculty and then will design, implement, and report on their activities in a culminating professional paper.
Prerequisite: GEOG 59070 or GEOG 59071 and GEOG 59080 or GEOG 59081 and GEOG 69164; and two additional graduate-level GEOG courses; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter-IP

GEOG 69701 RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA 3 Credit Hours
Critical discussion of techniques of geographic research and preparation and presentation of research papers.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 70093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-5 Credit Hours
(Repeatable for credit)Variable title workshop in geography.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 70191 SEMINAR IN TOPICAL GEOGRAPHY 3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 60191) Seminar in one of the major topical fields in geography. Topics vary per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 70195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 40195 and GEOG 50195) Topics vary according to research interest of the instructor.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 70285 FIELD EXPERIENCE IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 40285 and GEOG 50285) This course introduces students to field methods used in human and physical geography. Students spend most of the class hours outside investigating important local resources like the Cuyahoga Valley National Park, where they are introduced to geographic approaches to real world problems. Specific field methods may include: landscape interpretation; atmospheric monitoring; hydrologic sampling; terrestrial habitat analyses; human and nature interactions; food desert investigation; urban green space ratios; and traffic data collection.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 70392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS 1-6 Credit Hours
(Repeatable for credit) Students undertake a practicum in examining newly emerging geographic topics and techniques.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 70492 STUDY AWAY IN GEOGRAPHY 1-3 Credit Hours
(Repeatable for maximum 6 attempts)(Slashed with GEOG 40492 and GEOG 50492) Examination of geographic landscapes in the field.
Prerequisite: Doctoral standing.
Schedule Type: Field Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter

GEOG 70800 SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT 3 Credit Hours
(Slashed with GEOG 60800) Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 70900 QUALITATIVE RESEARCH METHODS IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 60900) Introduces qualitative methods and research applications, along with methodological considerations of these approaches. Students consider the epistemology of qualitative research and learn the mechanics of conducting this research in the field. In class, these methods are put into practice and the results are put into writing.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours
(Slashed with GEOG 41051 and GEOG 51051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations.Students learn through the analysis of numerous case studies of natural disasters.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71052 GLACIERS AND GLACIATION 3 Credit Hours
Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71065 DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 41065 and GEOG 51065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) to provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71066 GLOBAL CLIMATE CHANGE 3 Credit Hours
(Slashed with GEOG 41066 and GEOG 51066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71073 CONSERVATION OF OUR NATURAL RESOURCES 3 Credit Hours
(Slashed with GEOG 41073 and GEOG 51073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71074 RESOURCE GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 41074 and GEOG 51074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71077 WATER AND SOCIETY 3 Credit Hours
(Slashed with GEOG 41077 and GEOG 51077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion-based with limited lectures to ensure students understand key concepts.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71082 GEOGRAPHY OF SOILS 3 Credit Hours
(Slashed with GEOG 41082 and GEOG 51082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 71195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for a maximum 10 times)(Slashed with GEOG 41195 and GEOG 51195) Topics vary per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 71800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours
(Slashed with GEOG 41800 and GEOG 51800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72052 HEALTH GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 42052 and GEOG 52052) This course examines health/medical geography, a subdiscipline of both public health and geography, that focuses on geographic aspects of health and disease. The field deals with human-environment interactions and their influence on human health. This course offers historical context to geography and health and covers three major approaches to health/medical geographic scholarship: ecological approaches, which systematically analyzes relationships between people and their environments; social approaches, including political economy and socio-behavioral approaches; and spatial approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours
(Slashed with GEOG 42053 and GEOG 52053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours
(Slashed with GEOG 42064 and GEOG 52064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours
(Slashed with GEOG 42070 and GEOG 52070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 72195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours
(Repeatable for maximum of 10 times)(Slashed with GEOG 42195 and GEOG 52195) Topics vary per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 74010 GEOGRAPHIES OF GLOBAL DEVELOPMENT 3 Credit Hours
(Slashed with GEOG 44010 and GEOG 54010) This course examines the political economy of development. More narrowly, we examine the historical geography of agricultural transformations and capitalist development. We draw from case studies from different regions to interpret differential patterns of development and political-economic change. Emphasis is placed on the creation, structure, and operation of the capitalist agro-food system and its impact on small-scale farmers and landless rural workers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 75085 URBAN TRANSPORTATION 3 Credit Hours
(Slashed with GEOG 45085 and GEOG 55085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 76060 FOOD SECURITY AND SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 46060 and GEOG 56060) This course explores the concept of food security from the standpoint of agrarian change, food regimes, agroecology, and development. In the process, we examine the various frameworks that have grounded academic and popular understandings of famine and food security, including Malthusian, environmental determinism, Food Availability Decline (FAD), entitlements, and historical materialism.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 76070 URBAN AND REGIONAL PLANNING 3 Credit Hours
(Slashed with GEOG 46070 and GEOG 56070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 76080 URBAN SUSTAINABILITY 3 Credit Hours
(Slashed with GEOG 46080 and GEOG 56080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 76081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 46081 and GEOG 56081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 77091 SEMINAR IN REGIONAL GEOGRAPHY 3 Credit Hours
(Repeatable for credit)(Slashed with GEOG 67091)Variable content seminar on one of the major regions of world.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 79004 QUANTITATIVE METHODS IN GEOGRAPHY 3 Credit Hours
(Slashed with GEOG 69004) Explores the methods and applications of some of the most common statistics found in geographic work. It explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association, correlation and regression analysis, and principal components analysis. Theory and execution of these methods are equally emphasized, and applications to geographic problems are examined within each theme.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours
(Slashed with GEOG 49070 and GEOG 59070) Introduction to theories and methods for geographic data processing, including data capture and input, data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

GEOG 79072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours
(Slashed with GEOG 49072 and GEOG 59072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79073 ENVIRONMENTAL DATA ANALYSIS IN R 3 Credit Hours
(Slashed with GEOG 49073 and GEOG 49073) The course aims to teach students basic concepts, skills, and tools for working with data in R. R is an open-source (free!) programming language for statistical computing and graphics that statisticians widely use, scientists, data miners, and geographers. The number of R users grows exponentially each year, contributing to a massive online community and countless free tutorials. This is a hands-on course designed for students with no programming experience. However, this course does not teach statistics: understanding of basic statistics and common statistical tests is assumed and prior coursework in statistics is encouraged. With the knowledge gained in this course, students will be ready to undertake their own data analysis in R and increase their efficiency through reproducible workflows.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours
(Slashed with GEOG 49075 and GEOG 59075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.
Prerequisite: GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79076 SPATIAL PROGRAMMING 3 Credit Hours
(Slashed with GEOG 49076 and GEOG 59076) Examination of the design, development and use of geographic information technologies with computer programming to model process and visualize geographic phenomena.
Prerequisite: GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours
(Slashed with GEOG 49078 and GEOG 59078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.
Prerequisite: GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 49080 and GEOG 59080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.
Prerequisite: GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79082 CYBERGIS 3 Credit Hours
(Slashed with GEOG 69082) Explores cyberinfrastructure-enabled geographic information systems (i.e. cyberGIS) and related technologies including a broad introduction to the use, design, and development of cyberinfrastructure, spatial data infrastructures, geographic information services, and web-enabled mapping technologies. Situates cyberGIS in the broader context of geographic information science focusing on the how synthesizing computational thinking and spatial thinking influence methodological approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours
(Slashed with GEOG 49085 and GEOG 59085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79162 CARTOGRAPHY 3 Credit Hours
(Slashed with GEOG 49162 and GEOG 59162) Study of the design and production of dynamic, interactive, multimedia web-based mapping. Data acquisition and processing, symbolization, composition, text and color utilization.
Prerequisite: GEOG 49070 or GEOG 59070 or GEOG 79070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 79195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours
(Repeatable for maximum 10 times)(Slashed with GEOG 49195 and GEOG 59195). Topics vary per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GEOG 79230 REMOTE SENSING 3 Credit Hours
(Cross-listed with ESCI 72030)(Slashed with ESCI 42030, ESCI 52030, GEOG 49230, GEOG 59230) Computer analysis of multispectral satellite datasets. Applications in terrestrial earth science are emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GEOG 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: GEOG 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GEOG 80998 RESEARCH I 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

GEOG 81091 RESEARCH IN PHYSICAL RESOURCES 2,3 Credit Hours
(Repeatable for credit)Research on basic processes related to formation of physical environment. Investigation of significant variables in resource utilization relevant to regional planning and development.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP

GEOG 81998 RESEARCH II 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

GEOG 89092 GRADUATE FIELD CAMP 5 Credit Hours
(Repeatable for credit) Field research problems involving individual investigation of specific urban or rural region.
Prerequisite: Doctoral standing.
Schedule Type: Field Experience
Contact Hours: 3 other
Grade Mode: Standard Letter

GEOG 89098 RESEARCH IN CARTOGRAPHY 1-3 Credit Hours
(Repeatable for credit)Investigations into function of map as medium of scientific expression; problem of map design in relation to human perception of graphically expressed spatial information.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Climate Change - Minor

College of Arts and Sciences
Department of Geography
www.kent.edu/geography

About This Program

The Climate Change minor aims to provide an overview of the atmospheric sciences, how the climate system works and how humans and the environment interact within it. Students learn about climate change and how to understand and forecast its potential impacts. Students also learn how to apply their knowledge of climate and weather to a variety of interdisciplinary fields, including conservation, health, oceanography and environmental planning.

Contact Information

- **Cameron Lee** | cclee@kent.edu | 330-672-0360
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	3
GEOG 31064	CLIMATE AND THE ENVIRONMENT	3
GEOG 41066	GLOBAL CLIMATE CHANGE	3
Statistical Electives, choose from the following		3-4
ESCI 42030	REMOTE SENSING	
GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY	
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49230	REMOTE SENSING	

MATH 30011	BASIC PROBABILITY AND STATISTICS	
Minor Electives, choose from the following: [1]		6
ESCI 44074	PALEOCEANOGRAPHY	
BSCI 30370	CLIMATE CHANGE BIOLOGY	
GEOG 41051	NATURAL DISASTERS AND SOCIETY	
GEOG 41065	DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 46080	URBAN SUSTAINABILITY	
Minimum Total Credit Hours:		**18**

[1] Appropriate special topic courses maybe taken with the approval of the program director.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of the program will be able to:

1. Describe how the climate system works and how humans and the environment interact within it.
2. Explain climate change and how to understand and forecast its potential impacts.
3. Apply knowledge of climate and weather to a variety of interdisciplinary fields, including conservation, health, oceanography and environmental planning.

Environmental Geographic Information Science - Graduate Certificate

College of Arts and Sciences
Department of Geography
www.kent.edu/geography

About This Program

The Environmental Geographic Information Science graduate certificate prepares graduates to work in the geospatial technology industry, as well as allied industries that rely on employees who are highly trained in this technology. Prospective employers are private and public sector entities that need to map and analyze environmental conditions and resources. Examples of such employers are local, state and federal government agencies; businesses that focus on logistics, marketing and engineering; and non-profit agencies in health services and environmental management.

Contact Information

- **Andrew Scholl** | ascholl1@kent.edu | 330-672-7669
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university in geography or a related field[1]
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] This requirement may be waived with evidence of professional experience using geospatial technologies or alternative evidence of ability to excel in a geographic information science graduate degree program.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
Certificate Electives, choose from the following:		15
GEOG 59072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
GEOG 59078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY	
GEOG 69079	ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE	
GEOG 69083	GEODATABASES	

GEOG 69164	CARTOGRAPHIC DESIGN
GEOG 69231	ENVIRONMENTAL REMOTE SENSING

Minimum Total Credit Hours: 15

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Environmental Studies - B.A.

College of Arts and Sciences
Department of Environmental Studies
www.kent.edu/geography

About This Program

The Environmental Studies B.A. program combines scientific, social and policy perspectives to provide you with a comprehensive understanding of environmental issues. Enroll now and become an agent for positive change. Read more...

Contact Information

- **David Kaplan** (Kent Campus) | dkaplan@kent.edu | 330-672-3221
- **Chris Post** (Stark Campus) | cpost2@kent.edu
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Examples of Possible Careers and Salaries*

Compliance officers

- 4.6% about as fast as the average
- 337,600 number of jobs
- $71,100 potential earnings

Environmental science teachers, postsecondary

- 3.7% about as fast as the average
- 7,600 number of jobs
- $84,740 potential earnings

Environmental scientists and specialists, including health

- 7.8% faster than the average
- 90,900 number of jobs
- $73,230 potential earnings

Environmental science and protection technicians, including health

- 8.4% much faster than the average
- 34,700 number of jobs
- $46,850 potential earnings

Forestry and conservation science teachers, postsecondary

- 2.2% slower than the average
- 2,100 number of jobs
- $87,400 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as

transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
ENVS 22070	NATURE AND SOCIETY (KSS)	3
ENVS 30105	CAREER PATHWAYS IN ENVIRONMENTAL STUDIES	1
ENVS 32091	ENVIRONMENTAL STUDIES AND SUSTAINABILITY	2
ENVS 42099	INTEGRATIVE SENIOR PROJECT (ELR) (WIC) [1]	3
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
Biological Sciences Elective, choose from the following:		3-4
BSCI 30274	FORESTRY	
BSCI 30275	LOCAL FLORA (ELR)	
BSCI 30277	ECONOMIC BOTANY	
BSCI 30360	GENERAL ECOLOGY	
BSCI 30361	BIOGEOGRAPHY	
BSCI 30362	INTRODUCTION TO BIOLOGY OF THE TROPICS	
BSCI 30370	CLIMATE CHANGE BIOLOGY	
BSCI 30582	ORNITHOLOGY	
BSCI 40170	STREAM BIOLOGY	
BSCI 40222	INVASION BIOLOGY	
BSCI 40365	FIELD METHODS IN ORNITHOLOGY (ELR)	
BSCI 40375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT	
BSCI 40525	WILDLIFE RESOURCES (ELR)	
BSCI 40558	MAMMALOGY	
BSCI 40560	HERPETOLOGY	
Earth Science Elective, choose from the following:		3
ESCI 33025	WATER AND THE ENVIRONMENT	
ESCI 42065	WATERSHED HYDROLOGY	
ESCI 42066	PHYSICAL HYDROGEOLOGY	
ESCI 44025	GEOLOGIC HAZARDS AND DISASTERS	
ESCI 44040	EARTH'S ENERGY TRANSITION	
Geography Elective, choose from the following:		3
GEOG 41051	NATURAL DISASTERS AND SOCIETY	
GEOG 41066	GLOBAL CLIMATE CHANGE	
GEOG 41074	RESOURCE GEOGRAPHY	
GEOG 41082	GEOGRAPHY OF SOILS	
GEOG 41195	SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY	
Methods Elective, choose from the following:		3-4
BSCI 40224	QUANTITATIVE METHODS IN BIOLOGY	
ESCI 42030	REMOTE SENSING	
ESCI 42035	DATA ANALYSIS IN THE EARTH SCIENCES	
ESCI 42060	EARTH OBSERVING	
GEOG 40285	FIELD EXPERIENCE IN GEOGRAPHY	
GEOG 41065	DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT	
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49073	ENVIRONMENTAL DATA ANALYSIS IN R	
GEOG 49230	REMOTE SENSING	
SOC 32210	RESEARCHING SOCIETY (ELR) (WIC) [1]	
Social Sciences Electives, choose from the following:		15
ARCS 30421	ENVIRONMENTAL IMPERATIVES	
ECON 32084	ECONOMICS OF THE ENVIRONMENT	
ENG 35105	LITERATURE, CULTURE AND ENVIRONMENT	
ENVS 30000	ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT	
ENVS 46092	INTERNSHIP IN ENVIRONMENTAL STUDIES (ELR)	
ENVS 49195	SPECIAL TOPICS IN ENVIRONMENTAL STUDIES	
FDM 35012	SUSTAINABILITY IN FASHION	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 32023	FOOD AND PLACE (ELR)	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 41077	WATER AND SOCIETY	
GEOG 41800	GLOBAL ENVIRONMENTAL ISSUES	
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT	
GEOG 45085	URBAN TRANSPORTATION	
GEOG 46060	FOOD SECURITY AND SUSTAINABILITY	
GEOG 46070	URBAN AND REGIONAL PLANNING	
GEOG 46080	URBAN SUSTAINABILITY	
PACS 35050	ENVIRONMENTAL CONFLICT RESOLUTION	
PACS 45060	ENVIRONMENTAL JUSTICE	
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	
PHIL 30025	ENVIRONMENTAL PHILOSOPHY (ELR)	
PLST 35001	ENVIRONMENTAL LAW FOR PARALEGALS	
POL 30350	ENVIRONMENTAL CONFLICT RESOLUTION	
POL 40440	U.S. ENVIRONMENTAL POLITICS AND POLICIES	
POL 40540	POLITICS OF DEVELOPMENT (DIVG)	
RPTM 36082	INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	
RPTM 36083	ENVIRONMENTAL EDUCATION AND CONSERVATION	
SOC 42560	SOCIOLOGY OF FOOD	
SOC 42565	ENVIRONMENTAL SOCIOLOGY	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		39
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ENVS 22070	NATURE AND SOCIETY (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**13**
Semester Two		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
Geography Elective		3
Social Sciences Elective		3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
Biological Sciences Elective		3-4
Methods Elective		3-4
Foreign Language		4
Kent Core Requirement		3
General Elective		2
	Credit Hours	**15**
Semester Five		
Earth Science Elective		3
Social Sciences Elective		3
Foreign Language and/or General Elective		3
General Electives		6
	Credit Hours	**15**
Semester Six		
ENVS 30105	CAREER PATHWAYS IN ENVIRONMENTAL STUDIES	1
ENVS 32091	ENVIRONMENTAL STUDIES AND SUSTAINABILITY	2
Social Sciences Elective		3
Foreign Language and/or General Elective		3
General Electives		6
	Credit Hours	**15**
Semester Seven		
Social Sciences Elective		3
General Electives		12
	Credit Hours	**15**
Semester Eight		
ENVS 42099	INTEGRATIVE SENIOR PROJECT (ELR) (WIC)	3
Social Sciences Elective		3
General Electives		9
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	

Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the environment and how it relates to human activity, human resource needs and human cognition.
2. Analyze the interconnections between environmental and human systems and how those play out in particular problem areas.
3. Evaluate how environmental problems are framed and public attitudes and policies can be harnessed to provide solutions to environmental degradation.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Environmental Studies prepares students to integrate concepts and knowledge about environmental issues from across multiple disciplines and communicate about these in important ways. Basic scientific knowledge about environmental processes is used to inform different social goals. Students develop a set of key competencies in earth systems science, environmental social science, human-natural systems and sustainability science to solve specific environmental problems.

Environmental Studies students may apply early to the M.S. degree in Geography and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Environmental Studies - Minor

College of Arts and Sciences
Department of Geography
www.kent.edu/geography

About This Program

The Environmental Studies minor prepares students to integrate concepts and knowledge on environmental issues from across multiple disciplines and communicate about them in important ways. Basic scientific knowledge about environmental processes is used to inform different social goals. Students develop competencies in earth systems science, environmental social science, human-natural systems and sustainability science to solve specific environmental problems.

Contact Information

- **David Kaplan** (Kent Campus) | dkaplan@kent.edu | 330-672-3221
- **Chris Post** (Stark Campus) | cpost2@kent.edu | 330-244-3427
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to this minor is selective. To declare the Environmental Studies minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	3-4
or ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	
ENVS 22070	NATURE AND SOCIETY (KSS)	3
Natural Science Elective, choose from the following:		3-4
BSCI 30274	FORESTRY	
BSCI 30277	ECONOMIC BOTANY	
BSCI 30360	GENERAL ECOLOGY	
BSCI 40525	WILDLIFE RESOURCES (ELR)	
ESCI 33025	WATER AND THE ENVIRONMENT	
ESCI 42065	WATERSHED HYDROLOGY	
ESCI 42066	PHYSICAL HYDROGEOLOGY	
GEOG 41066	GLOBAL CLIMATE CHANGE	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 41074	RESOURCE GEOGRAPHY	
GEOG 41082	GEOGRAPHY OF SOILS	
Social Science Electives, choose from the following: [1]		9
ECON 32084	ECONOMICS OF THE ENVIRONMENT	
ENVS 30000	ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT	
ENVS 46092	INTERNSHIP IN ENVIRONMENTAL STUDIES (ELR)	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT	
GEOG 45085	URBAN TRANSPORTATION	
GEOG 46070	URBAN AND REGIONAL PLANNING	
GEOG 46080	URBAN SUSTAINABILITY	
PACS 35050	ENVIRONMENTAL CONFLICT RESOLUTION	
or POL 30350	ENVIRONMENTAL CONFLICT RESOLUTION	
PHIL 30025	ENVIRONMENTAL PHILOSOPHY (ELR)	
POL 40440	U.S. ENVIRONMENTAL POLITICS AND POLICIES	
POL 40540	POLITICS OF DEVELOPMENT (DIVG)	
SOC 42560	SOCIOLOGY OF FOOD	
Minimum Total Credit Hours:		**18**

[1] Only two courses can be in the same field.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Geographic Information Science - Graduate Certificate

College of Arts and Sciences
Department of Geography
www.kent.edu/geography

About This Program

The Geographic Information Science graduate certificate prepares graduates to work in the geospatial technology industry, as well as in allied industries that rely on employees who are highly trained in this technology. Prospective employers are private and public sector entities that need to manage large systems and big geospatial data, map and analyze health data, and map and analyze environmental conditions and resources. Examples of such employers are local, state and federal government agencies; business that focus on logistics, marketing and engineering; and non-profit agencies in health services and environmental management.

Contact Information

- **Andrew Scholl** | ascholl1@kent.edu | 330-672-7669
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Applications to the Geographic Information Science graduate certificate are not being accepted for the spring 2026 admission term.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Geographic Information Science graduate certificate are not being accepted for the spring 2026 admission term.

- Bachelor's degree from an accredited college or university in geography or a related field[1]
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive)) by earning one of the following:[2]
- Minimum 79 TOEFL iBT score
- Minimum 6.5 IELTS score
- Minimum 58 PTE score
- Minimum 110 DET score

[1] Requirement that undergraduate degree be in geography or related field may be waived with evidence of professional experience using geospatial technologies or alternative evidence of ability to excel in a geographic information science graduate program.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
GEOG 59071	FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I	3
GEOG 59081	FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II	3
GEOG 69164	CARTOGRAPHIC DESIGN	3
Certificate Electives, choose from the following:		6
CS 61002	ALGORITHMS AND PROGRAMMING I	
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY	
GEOG 59072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
GEOG 59075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS	
GEOG 59076	SPATIAL PROGRAMMING	
GEOG 59078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY	
GEOG 69007	SPATIOTEMPORAL ANALYTICS	
GEOG 69073	GEOGRAPHIC INFORMATION SCIENCE: GLOBAL HEALTH	
GEOG 69074	GEOGRAPHIC INFORMATION SCIENCE: SPATIAL ANALYSIS FOR HEALTH GEOGRAPHY	
GEOG 69079	ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE	
GEOG 69082	CYBERGIS	
GEOG 69083	GEODATABASES	
GEOG 69231	ENVIRONMENTAL REMOTE SENSING	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply standard mapping technique and spatial analysis procedures to geographic and environmental data.
2. Describe the various forms and methods of geospatial data dissemination.
3. Analyze and interpret the common statistics methods used in geographic research and applications.
4. Execute techniques for processing, managing, visualizing and analyzing environmental data using GIS tools.
5. Design and develop geodatabases by integrating essential GIS concepts and technical skills.
6. Evaluate principles of map design and apply best practices for cartographic construction.
7. Explain foundational concepts and techniques for environmental remote sensing.

Geographic Information Science - M.G.I.Sc.

College of Arts and Sciences
Department of Geography
www.kent.edu/geography

Program revisions are pending approval from the Ohio Department of Higher Education. After final approval, the program revisions will display.

About This Program

The Geographic Information Science M.G.I.Sc. degree prepares you for a career at the forefront of geospatial technology. With a blend of technical knowledge and practical experience, you will learn to analyze and manage geospatial data and make informed decisions. Read more...

Contact Information

- **Andrew Scholl** | ascholl1@kent.edu | 330-672-7669
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Applications to the M.G.I.Sc. degree are not being accepted starting with the spring 2026 admission term.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.G.I.Sc. degree are not being accepted starting with the spring 2026 admission term.

- Bachelor's degree from an accredited college or university in geography or a related field[1]
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement

- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] Requirement that the undergraduate degree must be in geography or related field may be waved with evidence of professional experience using geospatial technologies or alternative evidence of ability to excel in a geographic information science graduate program.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
GEOG 59071	FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I	3
GEOG 59081	FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II	3
GEOG 69164	CARTOGRAPHIC DESIGN	3
GEOG 69231	ENVIRONMENTAL REMOTE SENSING	3
Major Electives, choose from the following:		12
CS 61002	ALGORITHMS AND PROGRAMMING I	
CS 61003	ALGORITHMS AND PROGRAMMING II	
EMAT 64210	DATA SCIENCE	
GEOG 59072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
GEOG 59075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS	
GEOG 59076	SPATIAL PROGRAMMING	
GEOG 59078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY	
GEOG 69007	SPATIOTEMPORAL ANALYTICS	
GEOG 69073	GEOGRAPHIC INFORMATION SCIENCE: GLOBAL HEALTH	
GEOG 69074	GEOGRAPHIC INFORMATION SCIENCE: SPATIAL ANALYSIS FOR HEALTH GEOGRAPHY	
GEOG 69079	ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE	
GEOG 69082	CYBERGIS	
GEOG 69083	GEODATABASES	
Culminating Requirement		
GEOG 69392	PRACTICUM IN GEOGRAPHIC INFORMATION SCIENCE [1]	6
Minimum Total Credit Hours:		**30**

[1] As the capstone to the program, students will complete a practicum that is designed to provide practical experience in the application of M.G.I.Sc. degree course content in real-world professional settings. Students will select a professional project in consultation with their employer and program faculty and then will design, implement and report on their activities in a culminating professional paper.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Collect, edit, integrate, manage and analyze geospatial data.
2. Demonstrate skills and working knowledge of commercial and open-source GIS application suites and utilities.
3. Identify, explain and analyze spatial patterns, relationships and processes.
4. Apply cartographic principles and techniques to create quality maps.
5. Apply critical and spatial thinking to solve geospatial problems with respect to theories, principles and practices of geographic information science and fields in the degree concentration areas.
6. Demonstrate good communication skills and ability to work in a team environment.

Full Description

The Master of Geographic Information Science degree provides students with skills that extend beyond simply understanding software features or capabilities. Students develop a more robust understanding of how GIS functions across different sectors and have a positive impact on some of the greatest global challenges today, including climate change, transportation, and public health. Students have the opportunity to design and manage geographic information technologies to develop and improve the tools and systems people rely on every day

Graduates of the program are prepared for analytical and managerial positions that utilize geospatial technologies. Those positions can be found in a number of sectors, ranging from real estate and healthcare to disaster relief and finance.

Geographic Information Science - Minor

College of Arts and Sciences
Department of Geography
www.kent.edu/geography

About This Program

Unlock the power of spatial data with the Geographic Information Science (GIS) minor. This minor will equip you with essential skills in geospatial technologies, including cartography, remote sensing and GIS applications, preparing you for careers in urban planning, environmental science, public health and more. With a curriculum designed to complement majors like anthropology, biology, computer science and sociology, the GIS minor offers a versatile edge in today's data-driven world. Read more...

Contact Information

- **Andrew Scholl** | ascholl1@kent.edu | 330-672-7669
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirement		
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	3
Minor Electives, choose from the following:		9-10
GEOG 49072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
GEOG 49075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS	
GEOG 49076	SPATIAL PROGRAMMING	
GEOG 49078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
GEOG 49085	WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49162	CARTOGRAPHY	
GEOG 49195	SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49230	REMOTE SENSING	
Minimum Total Credit Hours:		**16**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Appropriate specialized offerings may be substituted above as available with the approval of the coordinator.

Full Description

The Geographic Information Science minor offers students a foundation in this expanding field and will be of interest to students studying in areas such as anthropology, biology, conservation, computer sciences, sociology and public health.

Geography - B.A.

College of Arts and Sciences
Department of Geography
www.kent.edu/geography

About This Program

The Geography B.A. program offers a comprehensive education in the field of geography, including the physical, social and cultural aspects of the world. With experienced faculty and real-world opportunities, you will gain the skills needed to succeed in a variety of geography-related careers. Read more...

Contact Information

- **Emariana Widner** | ewidner@kent.edu | 330-672-3226
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Example of Possible Careers and Salaries*

Calibration technologists and technicians and engineering technologists and technicians, except drafters, all other

- 2.1% slower than the average
- 91,600 number of jobs
- $64,190 potential earnings

Geographers
- -1.2% decline
- 1,600 number of jobs
- $85,430 potential earnings

Geography teachers, postsecondary
- 2.9% slower than the average
- 4,800 number of jobs
- $82,330 potential earnings

Surveying and mapping technicians
- 0.7% little or no change
- 58,400 number of jobs
- $46,200 potential earnings

Cartographers and photogrammetrists
- 4.5% about as fast as the average
- 12,000 number of jobs
- $68,380 potential earnings

Urban and regional planners
- 11.0% much faster than the average
- 39,700 number of jobs
- $75,950 potential earnings

Social scientists and related workers, all other
- 0.8% little or no change
- 38,800 number of jobs
- $87,260 potential earnings

Social science research assistants
- 5.8% faster than the average
- 40,100 number of jobs
- $49,210 potential earnings

Social and community service managers
- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Natural sciences managers
- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

Forest and conservation technicians
- 0.6% little or no change
- 21,200 number of jobs
- $38,940 potential earnings

Forest and conservation workers
- -0.5% little or no change
- 13,200 number of jobs
- $30,640 potential earnings

Environmental scientists and specialists, including health
- 7.8% faster than the average
- 90,900 number of jobs
- $73,230 potential earnings

Geoscientists, except hydrologists and geographers
- 4.9% about as fast as the average
- 31,800 number of jobs
- $93,580 potential earnings

Community and social service specialists, all other
- 11.7% much faster than the average
- 105,200 number of jobs
- $46,770 potential earnings

Area, ethnic, and cultural studies teachers, postsecondary
- 4.9% about as fast as the average
- 13,400 number of jobs
- $78,840 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college

or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ENVS 22070	NATURE AND SOCIETY (KSS)	3
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
or GEOG 17064	GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	
GEOG 21062	PHYSICAL GEOGRAPHY (KBS)	3
GEOG 21063	PHYSICAL GEOGRAPHY LABORATORY (KBS) (KLAB)	1
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	3
GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY	3
or GEOG 40285	FIELD EXPERIENCE IN GEOGRAPHY	
GEOG 39070	MAPPING, SPACE AND POWER	3
GEOG 40191	SEMINAR IN GEOGRAPHY (ELR) (WIC) [1]	3
or GEOG 40199	CAPSTONE IN APPLIED GEOGRAPHY (ELR) (WIC)	
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
Geography (GEOG) Upper-Division Electives (30000 or 40000 level)		18
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Basic Sciences		2-3
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		41
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOG 17063 or GEOG 17064	WORLD GEOGRAPHY (DIVG) (KSS) or GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
GEOG 21062	PHYSICAL GEOGRAPHY (KBS)	3
GEOG 21063	PHYSICAL GEOGRAPHY LABORATORY (KBS) (KLAB)	1
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
ENVS 22070	NATURE AND SOCIETY (KSS)	3
GEOG 39070	MAPPING, SPACE AND POWER	3
Foreign Language		4

Kent Core Requirement		3
General Elective		3
	Credit Hours	**16**
Semester Four		
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
Foreign Language		4
General Electives		6
	Credit Hours	**14**
Semester Five		
GEOG 39002 or GEOG 40285	STATISTICAL METHODS IN GEOGRAPHY or FIELD EXPERIENCE IN GEOGRAPHY	3
Geography (GEOG) Upper-Division Elective (30000 or 40000 level)		3
Foreign Language and/or General Elective		3
General Electives		6
	Credit Hours	**15**
Semester Six		
Geography (GEOG) Upper-Division Elective (30000 or 40000 level)		3
Foreign Language and/or General Elective		3
General Electives		9
	Credit Hours	**15**
Semester Seven		
Geography (GEOG) Upper-Division Electives (30000 or 40000 level)		9
General Electives		6
	Credit Hours	**15**
Semester Eight		
GEOG 40191 or GEOG 40199	SEMINAR IN GEOGRAPHY (ELR) (WIC) or CAPSTONE IN APPLIED GEOGRAPHY (ELR) (WIC)	3
Geography (GEOG) Upper-Division Elective (30000 or 40000 level)		3
General Electives		7
	Credit Hours	**13**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe spatial patterns of human and environmental features at multiple scales.
2. Use geographic research tools, including geographic information systems, to analyze spatial patterns and identify processes that create these patterns.
3. Explain linkages and interactions between social and environmental processes.
4. Communicate these patterns, processes and interconnections through writing, speaking and map making.
5. Apply a geographic perspective and geospatial skills to contemporary social and environmental issues, informing policy and practice.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Geography emphasizes a growing field that offers a wide range of career options. Geographers study both natural science and social science. Natural science topics include spatial patterns of rocks, soils, animals, plants, climate and weather. Social science topics include spatial patterns of culture, policy, conflict,

demographics, economics, resources and waste, with an emphasis on investigating the intersection of human activity and environmental processes. Geographers use a variety of geospatial technologies to map the world in different ways from the global to the local.

Geographers use data (environmental and social statistics, interviews, textual and landscape analysis and archival documents) to describe natural and social patterns. They then apply their knowledge of human and environmental processes to analyze why these patterns exist. Geographers work at the intersection of multiple disciplines — geology, ecology, climate science, urban planning, economics, sociology, computer science and the humanities — using this knowledge to examine spatial processes. Geographers use GIS software and remote sensing for spatial analysis and cartography.

Geography offers a unique way of seeing and understanding the world, combined with the ability to communicate this understanding to others. Geographers find work in the environmental sciences, GIS and mapping and working with people in planning and other government and non-profit agencies.

Geography students may apply early to the M.S. degree in Geography and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Geography - M.S.

College of Arts and Sciences
Department of Geography
www.kent.edu/geography

About This Program

The Master of Science degree in Geography prepares graduate students for careers in both the academic field and non-academic jobs in various private and governmental agencies, such as urban/economic geography, social geography, physical/environmental geography and geographic information technology. Students learn geographic thought, research techniques and topical specialties while preparing to conduct original research.

Contact Information

- **David H. Kaplan** | dkaplan@kent.edu | 330-672-3221
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Geographers

- -1.2% decline
- 1,600 number of jobs
- $85,430 potential earnings

Geography teachers, postsecondary

- 2.9% slower than the average
- 4,800 number of jobs
- $82,330 potential earnings

Surveying and mapping technicians

- 0.7% little or no change
- 58,400 number of jobs
- $46,200 potential earnings

Cartographers and photogrammetrists

- 4.5% about as fast as the average
- 12,000 number of jobs
- $68,380 potential earnings

Urban and regional planners

- 11.0% much faster than the average
- 39,700 number of jobs
- $75,950 potential earnings

Geoscientists, except hydrologists and geographers

- 4.9% about as fast as the average
- 31,800 number of jobs
- $93,580 potential earnings

Atmospheric and space scientists

- 6.4% faster than the average
- 9,900 number of jobs
- $99,740 potential earnings

Market research analysts and marketing specialists

- 17.7% much faster than the average
- 738,100 number of jobs
- $65,810 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: February 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
GEOG 60800	SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT	3
GEOG 69701	RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA	3
Major Electives, choose from the following: [1]		6
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59076	SPATIAL PROGRAMMING	
GEOG 59080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59230	REMOTE SENSING	
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY	
Additional Program Requirements [2]		12
Culminating Requirement		
GEOG 60199	THESIS I [3]	6
Minimum Total Credit Hours:		**30**

[1] Students who earned their bachelor's degree at Kent State University and have completed the undergraduate equivalents of any technique courses required in the master's degree can count them toward the technique courses requirement. Courses taken at the undergraduate level will not count toward the minimum total credit hour requirement for the master's degree; however, the additional technique courses will not be required.

[2] Maximum 3 credit hours of research (GEOG 60996 or GEOG 60998) may count toward the M.S. degree requirements.

[3] Students may elect to write a thesis or two research papers.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOG 60800	SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT	3
Major Electives or Additional Progam Requirements		6
	Credit Hours	**9**
Semester Two		
GEOG 69701	RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA	3
Major Electives or Additional Progam Requirements		6
	Credit Hours	**9**
Semester Three		
GEOG 60199	THESIS I	3-6
Major Electives or Additional Progam Requirements		6
	Credit Hours	**9**
Semester Four		
GEOG 60199	THESIS I	0-3
	Credit Hours	**3**
	Minimum Total Credit Hours:	**30**

Program Learning Outcomes

Graduates of this program will be able to:

1. Acquire advanced knowledge of the concepts, theories and technology in geography.
2. Synthesize and present concepts and theories in geography.
3. Demonstrate the ability to formulate research problems and carry out independent research projects.

Geography - Minor

College of Arts and Sciences
Department of Geography
www.kent.edu/geography

About This Program

The Geography minor offers students a foundation in this expanding field and will be of interest to students studying in areas such as geology,

education, sociology, biology, political science, history, anthropology and public health.

Contact Information

- **Emariana Widner** | ewidner@kent.edu | 330-672-3226
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Geography (GEOG) Upper-Division Electives (30000 or 40000 level)		6
Minor Electives, choose from the following:		9
ENVS 22070	NATURE AND SOCIETY (KSS)	
GEOG 10160	INTRODUCTION TO GEOGRAPHY	
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	
GEOG 17064	GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	
GEOG 21062	PHYSICAL GEOGRAPHY (KBS)	
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Geography - Ph.D.

College of Arts and Sciences
Department of Geography
www.kent.edu/geography

About This Program

The Ph.D. degree in Geography provides specialized training and inquiry into contemporary problems in geography.

Contact Information

- **David H. Kaplan** | dkaplan@kent.edu | 330-672-3221
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Calibration technologists and technicians and engineering technologists and technicians, except drafters, all other

- 2.1% slower than the average
- 91,600 number of jobs
- $64,190 potential earnings

Geographers

- -1.2% decline
- 1,600 number of jobs
- $85,430 potential earnings

Geography teachers, postsecondary

- 2.9% slower than the average
- 4,800 number of jobs
- $82,330 potential earnings

Surveying and mapping technicians

- 0.7% little or no change
- 58,400 number of jobs
- $46,200 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale

- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority Deadline: February 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Geography Coursework [1]		18
Cognate Discipline [2]		6
Additional Requirements		6
Culminating Requirement		
GEOG 80199	DISSERTATION I [3]	30
Minimum Total Credit Hours:		**60**

[1] Geography coursework must be graded. Maximum 3 credit hours of GEOG 80998 may count toward geography coursework.

[2] The cognate field must be in a department other than geography. Generally, cognate study is taken with the cognate member of the student's advisory committee.

[3] Candidacy examinations are taken after the dissertation proposal is approved by the committee. This should be completed by the end of the second year of doctoral study. Each doctoral candidate, upon admission to candidacy, must register for GEOG 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for GEOG 80199, and thereafter GEOG 80299, each semester, until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Of the 30 credit hours of doctoral-level coursework required for the degree, students must complete a minimum of 18 credit hours that are letter graded.

Program Learning Outcomes

Graduates of this program will be able to:

1. Engage in independent research projects.
2. Acquire experiences in formulating research problems, reviewing relevant literature, designing research methodology, analyzing research data and formulating results from academic research.

Urban Studies - Minor

College of Arts and Sciences
Department of Geography
www.kent.edu/geography

About This Program

The Urban Studies minor provides an understanding of cities, towns, urban life, economics and social relations. The minor focuses on the cities as distinctive entities and explores the meaning and function of cities in the larger society. The Urban Studies minor also demonstrates how the growth and development of cities and towns may be conceived and guided using methods from a variety of disciplines.

Contact Information

- **David Kaplan** | dkaplan@kent.edu | 330-672-3221
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Group A, choose from the following:		9
ECON 42081	URBAN ECONOMICS: CITIES AND HOUSING [1]	
GEOG 36065	CITIES AND URBANIZATION (DIVG)	
GEOG 46070	URBAN AND REGIONAL PLANNING	
POL 30450	URBAN POLITICS AND POLICY [2]	
SOC 32673	CITIES AND URBAN SOCIAL LIFE (DIVG) [3]	
Group B, choose from the following: [4]		9
ARCH 45630	INTRODUCTION TO LANDSCAPE ARCHITECTURE	
ECON 32084	ECONOMICS OF THE ENVIRONMENT	

GEOG 45085	URBAN TRANSPORTATION
GEOG 46070	URBAN AND REGIONAL PLANNING
GEOG 46080	URBAN SUSTAINABILITY
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY
GEOG 49075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS
PH 43013	BUILT ENVIRONMENT AND PUBLIC HEALTH
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION
Internship [5]	
Minimum Total Credit Hours:	**18**

1 Students in this minor can have the ECON 22061 prerequisite waived by contacting the Department of Economics

2 Students in this minor can have the prerequisite waived by contacting the Department of Political Science

3 Students in this minor can have the prerequisite waived by contacting the Department of Sociology

4 Unused courses from the Group A list may be used to fulfill the Group B list. Some courses have prerequisites and the course description should be consulted

5 Internship credits can come from the participating departments of Economics, Geography, Sociology, Political Science and possibly other departments as approved by the program coordinator

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Department of History

College of Arts and Sciences
Department of History
305 Bowman Hall
Kent Campus
330-672-2882
history@kent.edu
www.kent.edu/history

Undergraduate Programs

- History - B.A.

Minors

- History

Graduate Programs

- History - M.A.
- History - Ph.D.

Department of History Faculty

- Adams, Kevin J. (2006), Associate Professor, Ph.D., University of California-Berkeley, 2004
- Bindas, Kenneth J. (1995), Professor, Ph.D., University of Toledo, 1988
- Crawford, Matthew J. (2009), Associate Professor, Ph.D., University of California, San Diego, 2009
- Diacon, Todd A. (2012), Professor, Ph.D., University of Wisconsin-Madison, 1987
- Gruenwald, Kim M. (1995), Associate Professor, Ph.D., University of Colorado, Boulder, 1994
- Hartline, Todd A. (1992), Associate Professor, Ph.D., Kent State University, 2006
- Hayashi, Brian M. (2016), Professor, Ph.D., University of California-Los Angeles, 1990
- Heaphy, Leslie A. (1995), Associate Professor, Ph.D., University of Toledo, 1995
- Heiss, Mary A. (1992), Professor, Ph.D., The Ohio State University, 1991
- Keefer, Bradley S. (1987), Associate Professor, Ph.D., Kent State University, 2006
- Li, Hongshan (1993), Professor, Ph.D., University of Missouri, Columbia, 1992
- Menning, Ralph R. (2006), Assistant Professor, Ph.D., Brown University, 1986
- Ostrum, Nicholas (2023), Assistant Professor, Ph.D., Stony Brook University-SUNY, 2017
- Parsons, Elaine (2017), Professor, Ph.D., Johns Hopkins University, 2000
- Scarnecchia, Timothy L. (2007), Professor, Ph.D., University of Michigan, 1994
- Seelye, James E. (2010), Associate Professor, Ph.D., University of Toledo, 2010
- Sergi, Molly M. (1991), Professor, Ph.D., Kent State University, 2015
- Smith, Elizabeth M. (2001), Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2001
- Starkey, Lindsay J. (2012), Associate Professor, Ph.D., University of Wisconsin, Madison, 2012
- Steigmann-Gall, Richard A. (2000), Associate Professor, Ph.D., University of Toronto, 1999
- Strate, Shane (2013), Associate Professor, Ph.D., University of Wisconsin, Madison, 2009
- Wamsley, E. Sue S. (2005), Associate Professor, Ph.D., The Ohio State University, 1998

History (HIST)

HIST 11050 WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM) 3 Credit Hours
World history from early human societies through the mid-17th century.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, TAG History, Transfer Module Humanities

HIST 11051 WORLD HISTORY: MODERN (DIVG) (KHUM) 3 Credit Hours
World history from mid-17th century to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, TAG History, Transfer Module Humanities

HIST 12070 EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM) 3 Credit Hours
A survey of United States history through 1877.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Humanities, TAG History, Transfer Module Humanities

HIST 12071 MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM) 3 Credit Hours
A survey of United States history since 1877.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Humanities, TAG History, Transfer Module Humanities

HIST 30010 NEW DEAL AMERICA AND BEYOND 3 Credit Hours
Examines the impact and meaning of the Depression era, suggesting that the crisis helped to usher in a new way of imagining American society. Beginning with an overview of modernism, modernity and the modern age, the course explores how the New Deal fits into these theories, how specific programs operated under their ideals, and finally, how American society adapted and accepted this 'modern' vision.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30020 THE SIXTIES IN AMERICA 3 Credit Hours
The era of the 1960s outlined the debates and patterns of American history in the latter part of the twentieth century and continues to resonate in our contemporary world. This course examines the seminal events, persons and developments, including JFK's New Frontiers policy; Martin Luther King Jr. and Malcolm X; the March on Washington; Johnson's Great Society; the Vietnam War; the New Left; the counterculture; country music; the rise of modern conservatism; Nixon; Watergate; and the oil crisis, to get a better understanding of the meaning and significance of this crucial era to the history of the United States and the world.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30030 IDEAS IN ACTION: U.S. INTELLECTUAL HISTORY (DIVD) 3 Credit Hours
The idea forms the root of what is intellectual history. The unfolding and discussion of ideas and their application within society outline their path of study. Once the preserve of the thoughts of a select few white men, the field has broadened significantly with the cultural turn in the latter years of the twentieth century to include a more diverse number of voices and issues. Blending these ideas into practice allows us to better witness how history operates both within and outside the confines of the linear structure of time and place.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HIST 30040 NINETEENTH-CENTURY EUROPE 3 Credit Hours
Focus on industrialization and social transformation, political upheavals, intellectual thought, nationalism and foreign policy in Great Britain, France, Prussia and Austria.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30049 MODERN EUROPEAN HISTORY, 1914-1945 3 Credit Hours
Special attention paid to the two world wars, Bolshevik Revolution, rise of fascism and fate of European Jewry.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30050 MODERN EUROPEAN HISTORY: 1945-PRESENT 3 Credit Hours
This course examines Europe as it emerged from the wreckage of the Second World War and confronted the challenges of rapid reindustrialization then deindustrialization, decolonization and the emergence of the Global South, cultural upheaval and political transformation and a globe-encompassing Cold War. Central to the course are two existential questions prompted by this history: (1) what exactly is Europe and, (2) what role should it and its constituent societies play in the postwar world?
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30060 HISTORY OF GERMANY, 1871-PRESENT 3 Credit Hours
Focuses on the impact of industrialization, dilemma of the German left, rise of Nazism and emergence of two German states after 1945.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30070 THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945 3 Credit Hours
Analysis of the political, economic, social and intellectual factors leading to systematic destruction of European Jewry during World War II.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30111 JEFFERSON-JACKSON ERA, 1789-1848 3 Credit Hours
Study of the founding and development of the American nation, especially the periods of Jefferson and Jackson.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 30112 THE UNITED STATES: THE WESTWARD MOVEMENT 3 Credit Hours
The process of settlement from its beginnings; consequences for American history.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31000 INTRODUCTION TO PUBLIC HISTORY 3 Credit Hours
A survey of public history including archives, editing, museums and historical agency administration; historic preservation and related skill areas (e.g. artifact analysis, oral history).
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31020 POLIS TO METROPOLIS: HISTORY OF THE EUROPEAN CITY 3 Credit Hours
This course examines urban identities in Europe from antiquity to the present including Greek and Roman cities; medieval cities, city leagues and city law; early modern planned communities, court residences, and commercial metropolises; eighteenth- and nineteenth-century resort towns, nineteenth-century capital cities and industrial cities; the devastation of the World Wars and post-war reconstruction. The course will examine cities as "windows" into the societies they serve; the fortunes and misfortunes of cities will be treated as mirrors of regional economic, political, and social trends. The thematic focus of the course will be on the political "message" encoded in architecture, design and layout and the course will interpret the outward face of cities as an expression of political identity, power, and even civic virtù. This course will be offered primarily at the Stark campus.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31022 THE GREAT POWERS IN WAR AND PEACE, 1792-1914 3 Credit Hours
This course focuses on the nineteenth-century origins of present-day international problems - from risks of unilateralism to the debt crisis of developing countries to the nationalist tendencies in the Balkans to the question of whether a united Germany is compatible with the European equilibrium. Second, this course looks at how nineteenth-century statecraft dealt with issues that still clutter the headlines today such as peacemaking and peacekeeping, the erosion of treaties, alliances among unequal partners, and crisis management. Third, the course will point to the importance of global linkages (i.e. how events in one area of the world were linked to developments in another and how the Balkans, the Middle East, Africa, and East Asia became flashpoints in the foreign relations of Great Powers. This course will be offered primarily at the Stark campus.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31023 THE GREAT POWERS IN WAR AND PEACE, 1914-1945 3 Credit Hours
This course examines the foreign policies of the great powers during and between the world wars, the domestic underpinnings of these policies and how these policies affected civilian populations. While the course examines a broad range of nations and actors, particular emphasis is placed on the emergence of Soviet Russia, Fascist Italy and Nazi Germany, and the question of whether their foreign policies constituted a radical break from or, instead, were rooted in earlier Russian, Italian and German policies.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31024 WORLD WAR II 3 Credit Hours
Survey of one of the greatest political and military events in history, focusing especially on causes, major personalities and chief political, ideological, moral, scientific and diplomatic aspects.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31025 ITALY FROM ROME TO THE RENAISSANCE 3 Credit Hours
A survey of the history of the Italian peninsula from the Roman Empire until the Renaissance, with particular emphasis on turning-point moments in politics, art, literature, theology and philosophy between the fall of Rome and the Renaissance. Throughout the course, developments on the Italian peninsula will be situated within the broader European context.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31026 ITALIAN HISTORY FROM THE RENAISSANCE TO THE ENLIGHTENMENT 3 Credit Hours
This survey course examines key developments in the history of Early Modern Europe until the Enlightenment through the lens of the Italian peninsula's central role in European exploration, thought and religion.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31031 REFORMATIONS IN EARLY MODERN CHRISTIANITY 3 Credit Hours
This course explores the origins, development and consequences of the religious reformations in early modern Europe from the late fifteenth century to the early seventeenth century, drawing on the approaches of social, cultural and intellectual history. It explores the significance of the rise of various Protestant confessions as well as the reform of the Catholic church from the perspectives of popular belief and formal doctrines. A survey of the beliefs of the major Christian confessions - such as Lutheranism, Calvinism and Catholicism - is complemented by an exploration of the intertwining of politics and religion and the social and cultural effects of religious reform.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31032 THE GLOBAL CRISIS OF THE SEVENTEENTH CENTURY 3 Credit Hours
The seventeenth century was a period of crisis especially in Europe, but around the world due to climate change, encounters between peoples from different parts of the globe, the integration of economies, religious tensions and almost constant warfare. This course explores the roots of these crises as well as their consequences. It examines environmental changes; religious tensions; and some of the shifting social, political and economic structures of seventeenth-century Europe. It compares what happened during this period in Europe to other places around the globe, and investigates the interactions between peoples from Europe, Asia, Africa and the Americas.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31033 WITCHES AND EUROPEAN HISTORY, 1500-1800 3 Credit Hours
This course explores fifteenth- through seventeenth-century European witch-hunts and their decline in the eighteenth century through lecture and class discussions of both primary and secondary sources. The course has four parts. The first investigates the development of notions of diabolical witchcraft from the ancient world, while Part two examines the intellectual, gender, religious, social and legal backgrounds that helped cause witch-hunts The final sections explore the dynamics of witchcraft trials. The final section explores the decline of witchcraft.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31034 MURDER MYSTERY AND MAYHEM: THE MEDICI DYNASTY IN FLORENCE 3 Credit Hours
This course explores the dynastic control that the infamous Medici family exerted over every aspect of Florentine life. It explores their rise to power, from the revolutionary and cunning tactics of Cosimo de' Medici, to the rich vision of Lorenzo "Il Magnifico," to Anna Maria Luisa's efforts to establish the Medici legacy forever in the city of Florence. Through an examination of this influential family, their methods of persuasion and power are revealed, which extended far beyond the boundaries of Florence to the papacy and into all corners of Europe.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31035 THE GLOBAL COLD WAR 3 Credit Hours
Explores the Cold War through a global lens. Includes political, diplomatic, cultural and social perspectives.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31036 THE TWENTIETH CENTURY WORLD 3 Credit Hours
This course explores the key political, cultural, social, and economic events that defined and shaped the twentieth century. Topics to be addressed will include imperialism, revolution and war, nationalism and decolonization, and globalization.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31040 AMERICAN HISTORY THROUGH POPULAR MUSIC 3 Credit Hours
Allows students to develop an understanding of the interconnection between the rise of popular music in the period after 1865 to the social, political, and technological changes that this period witnessed and how this helps to understand the meaning and significance of cultural identity in modern American history.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31041 SPORT HISTORY IN THE UNITED STATES 3 Credit Hours
This course will examine and interpret American sports from the colonial era to the present with particular attention to the role of sports in American life and how changes in American life have affected sports. The course also offers an exploration of American social and cultural history with an emphasis on issues such as race, class, gender, foreign policy, nationalism, religion, economics, industrialization, immigration and urbanization as they relate to sports. It is not a course of sports trivia. The main goal of the course is to use sports as a way to better understand American history and American culture. This course will be offered primarily at the Stark campus.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31045 A HISTORY OF CRIME IN THE UNITED STATES 3 Credit Hours
This course will explore the history of "living outside the law" in the nineteenth and twentieth centuries. We will read biographical and autobiographical treatments of and monographs about men and women who committed crimes in these centuries and use them as a lens through which to view the changing experiences, constraints, and self-understandings of people who committed crimes in United States history. Some sections of this course may be offered as part of the Inside Out Program in which the course will take place in a nearby prison or jail and will include students who are incarcerated.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31053 MODERN EUROPE, 1815 TO PRESENT 3 Credit Hours
Covers the political, social, and cultural history of Europe from the peace at the end of the Napoleonic wars to the present.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31055 POLITICS, CULTURE AND SOCIETY OF 20TH-CENTURY EUROPE 3 Credit Hours
This course explores the political, social, cultural and other factors that have marked the path of European history in the last century, from the origins of World War I to the end of the Cold War. The course explores not only the origins and consequences of warfare, but also the ways in which everyday life was transformed in this turbulent era. This course covers the era of "Great Wars," the "economic miracle" after the war, the challenges of the Cold War, generational rebellion, and the formation of the European Union with special attention to the political, social and cultural transformations associated with these developments. The thematic anchors of the first half of the course are "Total War" and "Rebellion against Positivism," while the thematic anchors of the second half of the course are "Rebirth" and "The Two Europes."
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31056 EUROPE IN THE RENAISSANCE 3 Credit Hours
Analysis of the various factors leading Europe from a rural, feudal, ecclesiastical society to one characterized by urbanism, trade, secularism and the state.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31057 THE FRENCH REVOLUTION AND NAPOLEON 3 Credit Hours
Analysis of the causes of revolution in France, political, ideological and social conflict in the construction of French democracy expansion of the revolution outside of France.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31061 HISTORY OF OHIO 3 Credit Hours
This course explores key events and institutions shaping the geographic region that became Ohio from prehistory to present day with an emphasis is on social, cultural, political, and the economic history of the region. Topics include the historical significance of Ohio's geography, the role and contributions of Native American peoples, the transition to statehood, and modern economic and political developments.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31071 AMERICA AND THE WORLD THROUGH 1898 3 Credit Hours
Explores the foundational period of the American interaction with the outside world. Includes consideration of the roots and principles of American international policy, continental consolidation and American incursions in the Western Hemisphere.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31072 AMERICA AND THE WORLD: 1898-1945 3 Credit Hours
Explores the evolving American world role from the Spanish-American War through World War II. Includes consideration of the expanding U.S. interest in Latin America, Asia and elsewhere, as well as the liberal international vision that impelled such interest.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31073 AMERICA AND THE WORLD SINCE 1945 3 Credit Hours
Explores the rise and fall of American global hegemony since World War II. Includes consideration of the Cold War, decolonization, détente and the post-Cold War era.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31074 HISTORY OF ESPIONAGE: FROM JOSHUA TO EDWARD SNOWDEN 3 Credit Hours
This course traces the history of intelligence gathering from the ancient world through the 21st century. The study of spy-networks provides students with an understanding of emerging intelligence systems, including both examples of espionage and counter-intelligence. The course assesses the cultural and political impact of intelligence gathering on society at large and discusses ethical issues such as the balance between privacy and security. While most of the focus is on the United States, the lectures and discussions will also cover Britain, Germany, Japan, China, Israel, and Russia, with considerable attention to World Wars I and II, and the Cold War.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31075 HISTORY OF WOMEN IN THE UNITED STATES 3 Credit Hours
(Cross-listed with WMST 30100) An exploration of the political, economic, social, intellectual and cultural forces that have shaped women's lives, women's thought, perceptions of womanhood and feminism, from 1607 to the present in what is now the United States.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31077 HISTORY OF SEXUALITY IN THE UNITED STATES 3 Credit Hours
This course explores how people living in the United States learned about sex. Together, Americans in all time periods have developed sexual cultures and norms, accommodated themselves to, ignored, creatively interpreted or defied, or changed these cultures and norms over time. We will focus on how sexual cultures and norms of were taught and enforced, and how different types of institutions and professionals (religious leaders, mental health professionals, law enforcement officers, journalists and popular cultural figures), played roles in this process.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31080 AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM 3 Credit Hours
Survey of African American history from the colonial period to 1877. Course provides a general knowledge of the social, political and cultural history of African Americans from colonial times to the end of the Reconstruction.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31082 HISTORY OF THE CIVIL RIGHTS AND BLACK POWER MOVEMENTS IN THE UNITED STATES 3 Credit Hours
This course examines Civil Rights and Black Power movements in the twentieth century and addresses a series of questions still relevant today: How do social movements begin? What leadership styles and protest tactics and strategies work? How do social movements evolve over time? This course also explores the history of the Civil Rights and Black Power movements at Kent State University. Working in the University Archives, students conduct research in original source materials and develop a collaborative digital history project based on their research.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31083 THE HISTORY OF WHITENESS IN THE UNITED STATES 3 Credit Hours
This course will survey the full sweep of the history of the United States to interrogate what exactly "whiteness" was and is and what it has meant throughout the American past. To do so, this course will examine closely a series of crucial turning points in the history of whiteness in the United States: 1) the colonial era and the creation of "whiteness" as an identity; and 2) the evolution of "whiteness" during the long nineteenth and twentieth centuries.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31084 THE INVENTION OF AMERICA: 1492-1714 (DIVD) 3 Credit Hours
Students explore the coming together of European, Native American and African peoples in the Western Hemisphere from 1492 to 1714.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HIST 31085 ALEXANDER HAMILTON'S WORLD: 18TH-CENTURY AMERICA (DIVD) 3 Credit Hours
Students explore 18th-century America, including the American Revolution and its aftermath, with special reference to the decisions and actions of Alexander Hamilton. The course focuses on how 13 disparate English colonies came together to form a new nation in North America during the 18th century. Students study not only the political narrative of this process, but also how the transformation affected society — men and women; rich and poor; and free, slave and American Indian. The life of Alexander Hamilton provides insight into all these topics.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HIST 31087 SECTIONAL CONFLICT AND CIVIL WAR 3 Credit Hours
Differences within the United States, including the controversy over slavery; the Civil War in all its aspects.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31100 RECONSTRUCTION AND THE LATER SOUTH 3 Credit Hours
Controversy during and after the Civil War as to racial and sectional relationships; the post- Reconstruction compromises and their undoing.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31101 WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865 3 Credit Hours
An examination of the impact of conflict and the military upon the society, culture, economy and diplomacy of the United States. Topics include colonial Indian wars, the Revolutionary War, the War of 1812, the Mexican-American War and the Civil War.
Prerequisite: HIST 12070.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31102 WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT 3 Credit Hours
An examination of the impact of conflict and the military on the society, culture, economy and diplomacy of the United States. Topics include the frontier Army, the Spanish-American War and empire in the Pacific, the two world wars, the Cold War and the War on Terror.
Prerequisite: HIST 12071.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31104 MIGRATIONS TO AMERICA, 1607 TO PRESENT (DIVD) 3 Credit Hours
Examines the coming together of people from five continents to the United States and provides an overview of shifting patterns of migration both coerced and free to the United States. Starting in the colonial era, when slaves and servants typified the migration to America, this course then follows the migrations of pre-industrial, industrial and post-industrial immigrants; their reception by American institutions and natives; and their efforts to construct communities in a new country.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HIST 31106 PROGRESSIVE AMERICA - REFORMERS, CRUSADERS AND RADICALS: AMERICA, 1893-1929 3 Credit Hours
Major political, economic, social, cultural and diplomatic events from the crisis of the 1890s through the first World War.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31107 NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945 3 Credit Hours
Major political, economic, social, cultural and diplomatic events from the new era of the 1920s through the second World War.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31112 CHINESE CIVILIZATION 3 Credit Hours
General survey of evolution of Chinese civilization from the Bronze Age to the rise of communism.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31113 HISTORY OF JAPAN 3 Credit Hours
General survey of the development of Japan from a loose confederation of clans to a modern industrial state.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31114 TRADITION AND REVOLUTION IN SOUTHEAST ASIA (DIVG) 3 Credit Hours
Focusing on Southeast Asia, this course is organized chronologically around three broad periods: traditional states and societies (to 1800); colonial transformations and indigenous responses (1800-1945); and the emergence of modern nations (since 1945). Within these broad time frames, the course explores several themes, including the origins of indigenous states; the impact of colonial domination; responses to colonial rule; and the nature of post-colonial societies and political systems. Given the size and diversity of the region, the course concentrates on four nation-states: Burma, Thailand, the Philippines and Indonesia.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

HIST 31118 VIETNAM WAR 3 Credit Hours
Study of the causes, evolution and effects of warfare in Vietnam from 1946 to 1975 with special attention to colonialism, nationalism, communism and American intervention.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31124 HIGHLIFE HISTORIES: MODERN AFRICAN URBAN EXPERIENCE 3 Credit Hours
The term "high-life" is most often associated with a musical style originating in Ghana and Sierra Leone in the 1920s and popular to the present day. The music mixed the sounds of American, European, and Caribbean influences within African musical traditions. Just like the music, African urban life has been a mixture of Western notions of town planning, architecture, and politics with African cultural and interpersonal traditions. The history of the African city offers a useful lens into the complicated and creative mixture of African and global sources. This course will focus on this mixing over the 20th century, concentrating on cities such as Harare, Zimbabwe; Accra, Ghana; Lagos, Nigeria; and Nairobi, Kenya.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31126 HISTORY OF THE MIDDLE EAST 3 Credit Hours
A survey of Islamic civilization in Middle Eastern context from the earliest days to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31130 HISTORY OF PRE-COLONIAL AFRICA TO 1880 3 Credit Hours
This course provides a survey of cultural, political, social and economic history of Africa from antiquity to the onset of European colonialism in the 1880s. The history of the Atlantic, Saharan, and East African slave trade will be investigated, as will the contributions of African cultures to world history.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31131 HISTORY OF COLONIAL AFRICA, 1880-1994 3 Credit Hours
This course provides a survey of African experiences with colonialism from the period of formal colonialism to the period of decolonization and the end of settler colonialism in Rhodesia and South Africa. The course explores regional experiences across sub-Saharan Africa and North Africa. The course explores questions of resistance and collaboration and the foundations of post-colonial states in the colonial experience. Gender, class, ethnicity and generational differences are explored at the center of this historical survey.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31132 HISTORY OF POST-COLONIAL AFRICA 3 Credit Hours
This course seeks to challenge students to deconstruct the specific causes, meanings and consequences of political violence in 20th- and 21st-century Africa, in addition to the impact such violence has had on African democratic traditions. Students explore recent and current categories of political violence, including state violence against ethnic and regional minorities. Students also examine the positive contributions of African culture and daily life, with attention to alternative futures for Africans and others based on African experience.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31140 MODERN LATIN AMERICA (DIVG) 3 Credit Hours
This course examines modern Latin America as an historical, geographical, cultural, political and economic zone focusing on the nineteenth and twentieth centuries. It explores the similarities and differences within Latin America as well as between Latin America and other parts of the world. Topics included the impact of colonization and the experience of Indigenous populations, the causes and consequences of political and social revolutions, the success and failures of different political formations and the struggles to sustain economic development.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

HIST 31141 EARLY MODERN LATIN AMERICA (C. 1450-1820) (DIVG) 3 Credit Hours
This course examines the history of Latin America from the late fifteenth to the early nineteenth centuries. It focuses on the political, social, cultural, and economic interactions between Native Americans, Africans and Europeans from the early decades of Iberian exploration and conquest to the independence movements of the early nineteenth century. While attending to the systems of social, racial and gender hierarchy and discrimination implemented by Europeans, the course also emphasizes the significant ways in which Native Americans and Africans resisted and shaped colonization.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

HIST 31543 THE SCIENTIFIC REVOLUTION 3 Credit Hours
A survey of the major social, cultural, and historical developments in the sciences and medicine in Europe from 1500 to 1750.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 31550 MEDICINE IN THE MODERN WORLD SINCE 1500 3 Credit Hours
An introduction to the main social, cultural, and intellectual developments in the history of medicine from the Renaissance to the twentieth century using an approach to the history of medicine which emphasizes the interactions between ideas, institutions, and individuals.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 32050 HISTORICAL RESEARCH METHODS 3 Credit Hours
Introduction to the study and practice of historical writing including historical methods, historiography, primary and secondary source research, critical analysis or documentary sources, historical reasoning and the preparation of written reports. Emphasis on developing effective communication skills and research procedures, record-keeping, citation and bibliography.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 37001 FLORENCE THE MYTH OF A CITY 3 Credit Hours
Florence is considered the birthplace of the Renaissance and the cradle of modern Western Civilization because, among the many Italian city-states, it experienced a cultural development that had no precedent in European history. Florentine republicanism is a political paradigm through which we, still today, trace the origins of the values of democracy, freedom, rational thought, individualism, the scientific method and the capacity for critical reflection. This course covers and analyzes different historical eras of Florence from its founding, during the Roman era, up until today. Special attention is given to periods of intensive development in Florence: the re-birth of the Middle Ages, the splendor of the Renaissance, and the crucial role of the Risorgimento, when the city was the capital of the new Kingdom of Italy (1865-1871) and became a center of culture and modern civilization. This course will be offered only in Florence.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 38495 SPECIAL TOPICS IN AREA STUDIES 3 Credit Hours
Special course with a primary focus on the history of a particular place (state, nation, region). Topic as well as chronological and geographical focus will vary by term and by instructor. Exact course titles and descriptions will be inserted into the Schedule of Classes. Repeatable for credit.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 38595 SPECIAL TOPICS IN THEMATIC STUDIES 3 Credit Hours
Special course with a primary focus on the history of a specific topic or theme. Chronological and geographical focus as well as topic will vary by term and by instructor. Exact course titles and descriptions will be inserted into the Schedule of Classes. Repeatable for credit.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 40092 INTERNSHIP IN HISTORY (ELR) 3 Credit Hours
(Repeatable for credit)Student internship at an institution related to the history major (e.g.,historical society, museum, archives, historic preservation organization).
Prerequisite: Junior standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

HIST 40093 WORKSHOP IN HISTORY 1-6 Credit Hours
(Repeatable for credit) (Cross-listed with HIST 50093) Special workshop in history. Topic will vary according to professor.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

HIST 41003 HISTORY OF ANCIENT GREECE 3 Credit Hours
(Slashed with HIST 51003) (Crosslisted with CLAS 41005 and CLAS 51005) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 41006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with CLAS 41006 and CLAS 51006) (Slashed with HIST 51006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 41034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours
(Slashed with HIST 51034 an HIST 71034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 41060 COMPARATIVE FASCISM 3 Credit Hours
(Slashed with HIST 51060 and HIST 71060) Examination of the theories and practices of fascist movements and regimes in 20th-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 49091 SENIOR SEMINAR IN HISTORY (ELR) (WIC) 3 Credit Hours
(Repeatable for credit)History majors complete a significant work of original research based on primary sources. Topics vary by instructor. Enrollment limited to senior history majors.
Prerequisite: HIST 32050 with minimum C grade; and history major; and senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

HIST 49095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours
(Repeatable for a maximum of 18 credit hours) (Slashed with HIST 59095 and HIST 79095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of classes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 49195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours
(Repeatable for maximum 18 credit hours) (Slashed with HIST 59195 and HIST 79195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 49196 INDIVIDUAL INVESTIGATION 2,3 Credit Hours
(Repeatable for credit)
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

HIST 49199 SENIOR HONORS PROJECT (ELR) 3-6 Credit Hours
(Repeatable for credit) Thesis or other independent study or creative project. Required of students seeking to graduate with honors in history.
Prerequisite: Permission (see HONR 40099).
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 3-6 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

HIST 49295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 59295 and HIST 79295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 50093 WORKSHOP IN HISTORY 1-6 Credit Hours
(Slashed with HIST 40093)(Repeatable for credit) Special workshop in history. Topic will vary according to professor.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

HIST 51003 HISTORY OF ANCIENT GREECE 3 Credit Hours
(Slashed with HIST 41003) (Cross-listed with CLAS 41005 and CLAS 51005) The course is a survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 51005 TEACHING WORLD HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 71005) To prepare graduate students to teach world history at the university level. Special focus on integrating non-Western sources and points of view into the world history curriculum, preparation of world history syllabus and justification of selected readings and topics, mastery of on-line and in-class technologies to deliver world history materials.
Prerequisite: Graduate standing in history.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 51006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with CLAS 41006 and CLAS 51006) (Slashed with HIST 41006 and HIST 71006) A survey of Roman history from its beginnings to the Fall of the Roman Empire.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 51034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours
(Slashed with HIST 41034 and HIST 71034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 51060 COMPARATIVE FASCISM 3 Credit Hours
(Slashed with HIST 41060 and HIST 71060) Examination of the theories and practices of fascist movements and regimes in 20th-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 59095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49095 and HIST 59095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Repeatable.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 59195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49195 and HIST 79195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 59295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49295 and HIST 79295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 60092 PUBLIC HISTORY INTERNSHIP 3-6 Credit Hours
(Repeatable for credit) (Slashed with HIST 70092) Students serve an internship at an institution related to their emphasis in public history (e.g.,historical society, museum, archives, historical preservation organization).
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory

HIST 61002 HISTORIOGRAPHY 3 Credit Hours
Development of historical thinking. Students will read excerpts of famous historians and prepare papers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 61070 WRITING SEMINAR IN HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 81070) Students will spend the semester conceptualizing, researching and writing an article-length piece of original historical scholarship. Basic topics to be addressed include prospectus drafting, source identification, historiography, research methods, scholarly writing and revision, oral presentation and professional critiquing. All students will be expected to supplement the guidance they receive from the seminar instructor with regular consultations with their departmental advisors.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62000 READINGS IN EARLY MODERN HISTORY 3 Credit Hours
(Slashed with HIST 82000) This course offers an overview of the major themes and problems in the historical scholarship on early modern Europe and the early modern world. It will also explore different methodological and theoretical approaches drawing from foundational and recent scholarship in intellectual history, cultural history, social history, gender history and global history. Topics may include the Renaissance, Europe's Reformations, the Scientific Revolution and the Enlightenment, the French Revolution, court culture and the rise of absolutism, popular culture and everyday life, Europe's colonial and commercial expansion, the rise of capitalism, urbanization and the emergence of industrialization.
Prerequisite: Graduate Standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62070 AMERICAN HISTORY FROM PRECONTACT NATIVE AMERICA THROUGH THE CIVIL WAR 3 Credit Hours
(Slashed with HIST 82070) This reading colloquium surveys the major aspects of American history from the arrival of Europeans in North America through the colonial period of American history and up to the Civil War and Reconstruction. Students are introduced to both historical content as well as the major historiographical currents in this segment of U.S. history. The aim of the course is to prepare students for comprehensive exams as well as to teach the first half of the U.S. survey course.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62071 AMERICAN HISTORY FROM THE CIVIL WAR TO THE PRESENT 3 Credit Hours
(Slashed with HIST 82071) This reading colloquium surveys major aspects of American history since the Civil War within the historiographical traditions through which they have been understood. The aim of the course is to prepare students for comprehensive exams as well as to teach the second half of the U.S. survey course.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62097 PUBLIC HISTORY COLLOQUIUM 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 72097) Assigned readings, discussions and papers focus on particular emphases and skill areas in public history.
Prerequisite: Graduate standing.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62285 AMERICAN INTELLECTUAL AND CULTURAL HISTORY SINCE 1877 3 Credit Hours
(Slashed with HIST 82285) This colloquium will explore American Intellectual and Cultural History after 1877 by focusing on modernity. Our readings will discuss modernity's evolution from its late nineteenth-century roots to its dismantlement in the current epoch. We will hear, see, and read about this idea and how it is applied to various manifestations within our society, from material culture to advertising, music, and film.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62300 MAJOR READINGS IN THE IMMIGRATION AND MIGRATION HISTORY OF THE UNITED STATES 3 Credit Hours
(Slashed with HIST 82300) This course focuses on immigration, or more accurately, “migration,” as an important aspect of the history of the United States. It begins with an introduction to the interdisciplinary and transnational perspectives that define the study of global migration before focusing on the journeys taken by European, Latin American, Asian, and African immigrants to the United States, the often transnational lives led by these immigrants, and the communities they built within the United States. Alongside these concerns, the course will also explore how American society has historically received and reacted to immigrants.
Prerequisite: Graduate Standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62325 MAJOR READINGS IN ASIAN AMERICAN HISTORY 3 Credit Hours
(Slashed with HIST 82325) This course provides a foundational understanding of the history of Asian Americans in the United States, with special emphasis placed upon those groups whose roots in the U.S. go back to the nineteenth century. Key subjects under scrutiny in this course include emigration/immigration; the creation and continuation of ethnic ghettoes; segmented and international labor markets; diasporic and domestic political movements; racial stereotyping; global wars; and cultural changes.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62326 BETWEEN PLOWS AND SWORDS: U.S.-CHINA CULTURAL RELATIONS SINCE THE LATE 1700S 3 Credit Hours
(Slashed with HIST 82326) This seminar explores the beginning, evolution, transformation, and impact of U.S.-China cultural relations since the late 1700s. The United States and China have built a complex and dynamic relationship in the past two and a half centuries. Among the dimensions of that relationship, cultural relations were the oldest, deepest, and most consequential. While non-governmental organizations and individual Americans as well as Chinese played a crucial role in initiating and expanding cultural contacts between the two nations, government intervention and control were intensified over time, turning cultural relations into an instrument to achieve domestic as well as foreign policies goals. How did cultural contacts between the two nations begin? Who were the major players in the making of the Sino-American cultural relations? What were their major goals? How did the U.S. and the Chinese governments get involved in bilateral cultural contact and exchange? What impact did the expansion of cultural ties have on both societies? How were the U.S.-China cultural relations changed during the Cold War? What impact did the Cold War transformation have on cultural relations during and after rapprochement? By addressing these key questions, this course gives students a deeper understanding of the complexity and dynamics of U.S.- China relations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62345 IMAGES AND IDENTITIES IN US FOREIGN RELATIONS 3 Credit Hours
This graduate-level reading colloquium will explore the construction of cultural images and national identities in US foreign relations. Course readings and discussions will deal not only with the ways that Americans have “constructed” other nations but also with how other nations have “constructed” the United States. Themes to be explored include the role of intangibles such as culture in the making of policy; the accuracy or inaccuracy of cultural constructs; and the permanency or malleability of cultural ideas.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62350 REVOLUTION AND REFORM: THE DEPRESSION ERA AND THE TRANSFORMATION OF AMERICAN SOCIETY 3 Credit Hours
(Slashed with HIST 82350) The Depression Era was a transformative time in the history of the U.S. state, but also of the U.S. people. This class engages with key readings in the historical discipline that approach this era with particular sensitivity to how regular Americans experienced, responded to, and shaped this crucial period.
Prerequisite: Graduate Standing.
Schedule Type: Seminar
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

HIST 62360 MARGINALITY AND POWER: HISTORY FROM BELOW 3 Credit Hours
(Slashed with HIST 82360) Who makes history? Every historian must grapple with this question and every generation of modern historians has answered this question in a different way. One response to this question is to write "history from below" and focus on the ways in which common people and historically marginalized groups have contributed to historical changes and developments in their societies and cultures. Throughout this course, we review some of the classic scholarship and new works that engage in the task of writing "history from below." Our goal is to understand how "history from below" has developed over the last few decades and to engage with the important questions about representation and agency that this approach to history raises. A variety of assignments serve to further our exploration of the topic and help us gain some practice not just in analyzing "histories from below," but also doing "history from below."
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62385 HIGH-LIFE HISTORY: AFRICAN URBAN CULTURAL HISTORIES 3 Credit Hours
(Slashed with HIST 82385) This course explores the African city. Whether they live in the metropolises of Johannesburg, Tauba, Nairobi, or Lagos, urban Africans have built diverse landscapes and lives. This class examines those everyday lives, in a cross-cultural exploration of the history of African urban spaces.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62400 THE LENS OF WAR: AMERICAN HISTORY THROUGH THE STUDY OF THE MILITARY 3 Credit Hours
(Slashed with HIST 82400) A survey of the impact conflict and the peacetime military have had on both the history and historiography of colonial America and the United States. Thematic points of emphasis include, but are not limited to civil-military relations, race, national identity, memory, gender, western expansion, American economic development, the growth of the federal government, Cold War culture, and citizenship.
Prerequisite: Graduate standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62405 NATIVE WESTS 3 Credit Hours
(Slashed with HIST 82405) This course introduces students to the major analytical frameworks historians use to understand the diverse and complicated encounters between Euro-Americans and Native Americans in what is now the United States from first contact in the sixteenth century through the forced integration of Native nations into the United States after the Civil War. These encounters will be rooted in what was called the history of the "frontier," but is now more commonly described as "western" history or the study of "borderlands." Readings will emphasize sociocultural diversity among Indian societies, Indian agency, and Euro-American policy frameworks for Indian relations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62415 RELIGION AND VIOLENCE IN THE MODERN WEST 3 Credit Hours
(Slashed with HIST 82415) This class explores the role of religion in conflict throughout the modern Atlantic World. It is commonly believed that Western societies underwent a process of secularization in the modern age. However, recent scholarship has proven that religious beliefs and behaviors have retained their power, popularity and causal agency. This course is designed to give graduate students an introduction to recent trends in the writing of the history of religion and violence. Religion will be taken as social, cultural and political history, rather than merely ecclesiastical or theological history. Violence will be taken as rhetorics and cultures of violence, as well as warfare and other acts of physical violence. We will start the class by discussion theories of religion, including "civil religion" as an alleged replacement faith in an era of secularity; sample current debates on the question of the religious causes of violence; then survey prominent monographs and articles that address this nexus historically.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62420 POLICE AND POLICED IN THE U.S. 19TH AND 20TH CENTURIES 3 Credit Hours
(Slashed with HIST 82420) This course traces (backwards, beginning with the most recent material) the historical processes through which policing took on its special character in this country beginning with slave patrols and the emergence of professional policing just before the Civil War. To trace how police transformed their work through 2001, this course explores public opinion; popular culture; technological and bureaucratic changes; relationships between state and non-state violence; and police working conditions, training and self-understandings.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62475 MARXIST REVOLUTION IN VIETNAM 3 Credit Hours
(Slashed with HIST 82475) An examination of the violent upheavals influenced by Marxist thought that overturned traditional Vietnamese political, economic, and social structures over the course of the twentieth century. Course readings explore the chronology, context, and consequences of this revolution as well as the meaning of key concepts such as revolution and modernity.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62485 THE CIVIL WAR AS EXPERIENCED AND REMEMBERED 3 Credit Hours
(Slashed with HIST 82485) This course looks at the U.S. Civil War from the point of view of the men (and occasionally women) who marched, camped, fought, suffered and died during the four years of conflict and the decades after. After giving brief attention to the causes and political issues that led to war, the course focus is on the experiences and reactions of the people called upon to fight it. Rather than concentrate on the famous leaders and generals, students look at the officers and men, civilians and enslaved people and other common folks on both sides who were thrust into the conflict. Some attention is paid to the guerrilla war, the draft, the POW experience and the participation of African Americans and Native Americans. The second part of the course looks at memory, commemoration and the effects of the war on many of these groups in the decades leading into the 20th century.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 62500 REGIONAL IDENTITY AND OHIO HISTORY 3 Credit Hours
(Slashed with HIST 82500) As central as Ohio is in our national history, it is often underrepresented in standard historical narratives. This course explores the unfolding of more than two centuries of US history through the lens of the experience and understandings of residents of the State of Ohio. This changed perspective revisits many familiar themes -- indigenous histories, immigration, labor conflict, the Great Depression -- but moving our attention from the coast to the interior often places them in a revealing new light.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 62505 SOCIAL MOVEMENTS IN THE 19TH-20TH CENTURY RUST BELT 3 Credit Hours
(Slashed with HIST 82505) This course explores the national and global history of social movements in the nineteenth and twentieth centuries through the lens of the great lakes region. While many social movements have focussed on the coasts, in fact the "Rust Belt" played a disproportionate role in fostering and populating radical movements from abolitionism to temperance to labor unionism as well as repressive movements like the Ku Klux Klan. Alternating between classic historical monographs and regional studies, the class interrogates the meaning of the region's sympathy to radical movements and also suggests a reconception of these movements through a new geographic focus.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 69199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 69299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: HIST 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 69399 CAPSTONE IN HISTORY 3 Credit Hours
Capstone experience required of all MA students who are not writing a thesis. Students will develop an original research project and disseminate their work either through publication or presentation. Projects should integrate primary and secondary source research.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis, Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 69499 INTERDISCIPLINARY PROJECT IN HISTORY 3,6 Credit Hours
Research experience required for all students enrolled in the Master's in History for Secondary School Teachers concentration. Students will draw on their history coursework to complete a substantial piece of research applicable to the work of a practicing teacher. It can be pedagogical in nature, exploring strategies for teaching a particular subject, topic, or historical concept, or might be documentary in nature, such as historically informed teaching materials for a given subject, topic, or concept.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 69896 INDIVIDUAL INVESTIGATION 2,3 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP

HIST 69898 RESEARCH 1-15 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 70092 PUBLIC HISTORY INTERNSHIP 3-6 Credit Hours
(Repeatable for credit) (Slashed with HIST 60092) Students serve an internship at an institution related to their emphasis in public history (e.g.,historical society, museum, archives, historical preservation organization).
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory

HIST 71005 TEACHING WORLD HISTORY 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) (Slashed with HIST 51005) To prepare graduate students to teach world history at the university level. Special focus on integrating non-Western sources and points of view into the world history curriculum, preparation of world history syllabus and justification of selected readings and topics, mastery of on-line and in-class technologies to deliver world history materials.
Prerequisite: Doctoral standing in History.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 71006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with CLAS 41006, CLAS 51006) (Slashed with HIST 41006 and HIST 51006) A survey of Roman history from its beginning to the fall of the Roman empire.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 71034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours
(Slashed with HIST 41034 and HIST 51034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 71060 COMPARATIVE FASCISM 3 Credit Hours
(Slashed with HIST 41060 and HIST 51060) Examination of the theories and practices of fascist movements and regimes in 20th-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 72097 PUBLIC HISTORY COLLOQUIUM 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 62097) Assigned readings, discussions and papers focus on particular emphases and skill areas in public history.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 79095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49095 and HIST 59095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 79195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49195 and HIST 59195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 79295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 49295 and HIST 59295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 81002 HISTORIOGRAPHY 3 Credit Hours
Development of historical thinking. Students will read excerpts of famous historians and prepare papers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 81070 WRITING SEMINAR IN HISTORY 3 Credit Hours
(Repeatable for credit) (Slashed with HIST 61070) Students will spend the semester conceptualizing, researching, and writing an article-length piece of original historical scholarship. Basic topics to be addressed include prospectus drafting, source identification, historiography, research methods, scholarly writing and revision, oral presentation, and professional critiquing. All students will be expected to supplement the guidance they receive from the seminar instructor with regular consultations with their departmental advisors.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82000 READINGS IN EARLY MODERN HISTORY 3 Credit Hours
(Slashed with HIST 62000) This course offers an overview of the major themes and problems in the historical scholarship on early modern Europe and the early modern world. It will also explore different methodological and theoretical approaches drawing from foundational and recent scholarship in intellectual history, cultural history, social history, gender history and global history. Topics may include the Renaissance, Europe's Reformations, the Scientific Revolution and the Enlightenment, the French Revolution, court culture and the rise of absolutism, popular culture and everyday life, Europe's colonial and commercial expansion, the rise of capitalism, urbanization and the emergence of industrialization.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82070 AMERICAN HISTORY FROM PRECONTACT NATIVE AMERICA THROUGH THE CIVIL WAR 3 Credit Hours
(Slashed with HIST 62070) This reading colloquium surveys the major aspects of American history from the arrival of Europeans in North America through the colonial period of American history and up to the Civil War and Reconstruction. Students are introduced to both historical content as well as the major historiographical currents in this segment of U.S. history. The aim of the course is to prepare students for comprehensive exams as well as to teach the first half of the U.S. survey course.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82071 AMERICAN HISTORY FROM THE CIVIL WAR TO THE PRESENT 3 Credit Hours
(Slashed with HIST 62071) This reading colloquium surveys major aspects of American history since the Civil War within the historiographical traditions through which they have been understood. The aim of the course is to prepare students for comprehensive exams as well as to teach the second half of the U.S. survey course.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82285 AMERICAN INTELLECTUAL AND CULTURAL HISTORY SINCE 1877 3 Credit Hours
(Slashed with HIST 82285) This colloquium will explore American Intellectual and Cultural History after 1877 by focusing on modernity. Our readings will discuss modernity's evolution from its late nineteenth-century roots to its dismantlement in the current epoch. We will hear, see, and read about this idea and how it is applied to various manifestations within our society, from material culture to advertising, music, and film.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82300 MAJOR READINGS IN THE IMMIGRATION AND MIGRATION HISTORY OF THE UNITED STATES 3 Credit Hours
(Slashed with HIST 62300) This course focuses on immigration, or more accurately, "migration," as an important aspect of the history of the United States. It begins with an introduction to the interdisciplinary and transnational perspectives that define the study of global migration before focusing on the journeys taken by European, Latin American, Asian, and African immigrants to the United States, the often transnational lives led by these immigrants, and the communities they built within the United States. Alongside these concerns, the course will also explore how American society has historically received and reacted to immigrants.
Prerequisite: Doctoral Standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82325 MAJOR READINGS IN ASIAN AMERICAN HISTORY 3 Credit Hours
(Slashed with HIST 62325) This course provides a foundational understanding of the history of Asian Americans in the United States, with special emphasis placed upon those groups whose roots in the U.S. go back to the nineteenth century. Key subjects under scrutiny in this course include emigration/immigration; the creation and continuation of ethnic ghettoes; segmented and international labor markets; diasporic and domestic political movements; racial stereotyping; global wars; and cultural changes.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82326 BETWEEN PLOWS AND SWORDS: U.S.-CHINA CULTURAL RELATIONS SINCE THE LATE 1700S 3 Credit Hours
(Slashed with HIST 62326) This seminar explores the beginning, evolution, transformation, and impact of U.S.-China cultural relations since the late 1700s. The United States and China have built a complex and dynamic relationship in the past two and a half centuries. Among the dimensions of that relationship, cultural relations were the oldest, deepest, and most consequential. While non-governmental organizations and individual Americans as well as Chinese played a crucial role in initiating and expanding cultural contacts between the two nations, government intervention and control were intensified over time, turning cultural relations into an instrument to achieve domestic as well as foreign policies goals. How did cultural contacts between the two nations begin? Who were the major players in the making of the Sino-American cultural relations? What were their major goals? How did the U.S. and the Chinese governments get involved in bilateral cultural contact and exchange? What impact did the expansion of cultural ties have on both societies? How were the U.S.-China cultural relations changed during the Cold War? What impact did the Cold War transformation have on cultural relations during and after rapprochement? By addressing these key questions, this course gives students a deeper understanding of the complexity and dynamics of U.S.- China relations.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82345 IMAGES AND IDENTITIES IN US FOREIGN RELATIONS 3 Credit Hours
This graduate-level reading colloquium will explore the construction of cultural images and national identities in US foreign relations. Course readings and discussions will deal not only with the ways that Americans have “constructed” other nations but also with how other nations have “constructed” the United States. Themes to be explored include the role of intangibles such as culture in the making of policy; the accuracy or inaccuracy of cultural constructs; and the permanency or malleability of cultural ideas.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82350 REVOLUTION AND REFORM: THE DEPRESSION ERA AND THE TRANSFORMATION OF AMERICAN SOCIETY 3 Credit Hours
(Slashed with HIST 62350) The Depression Era was a transformative time in the history of the U.S. state, but also of the U.S. people. This class engages with key readings in the historical discipline that approach this era with particular sensitivity to how regular Americans experienced, responded to, and shaped this crucial period.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 0 lecture, 0 lab, 3 other
Grade Mode: Standard Letter

HIST 82360 MARGINALITY AND POWER: HISTORY FROM BELOW 3 Credit Hours
(Slashed with HIST 62360) Who makes history? Every historian must grapple with this question and every generation of modern historians has answered this question in a different way. One response to this question is to write "history from below" and focus on the ways in which common people and historically marginalized groups have contributed to historical changes and developments in their societies and cultures. Throughout this course, we review some of the classic scholarship and new works that engage in the task of writing "history from below." Our goal is to understand how "history from below" has developed over the last few decades and to engage with the important questions about representation and agency that this approach to history raises. A variety of assignments serve to further our exploration of the topic and help us gain some practice not just in analyzing "histories from below," but also doing "history from below."
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82385 HIGH-LIFE HISTORY: AFRICAN URBAN CULTURAL HISTORIES 3 Credit Hours
(Slashed with HIST 62385) This course explores the African city. Whether they live in the metropolises of Johannesburg, Tauba, Nairobi, or Lagos, urban Africans have built diverse landscapes and lives. This class examines those everyday lives, in a cross-cultural exploration of the history of African urban spaces.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82400 THE LENS OF WAR: AMERICAN HISTORY THROUGH THE STUDY OF THE MILITARY 3 Credit Hours
(Slashed with HIST 62400) A survey of the impact conflict and the peacetime military have had on both the history and historiography of colonial America and the United States. Thematic points of emphasis include, but are not limited to civil-military relations, race, national identity, memory, gender, western expansion, American economic development, the growth of the federal government, Cold War culture, and citizenship.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82405 NATIVE WESTS 3 Credit Hours
(Slashed with HIST 62405) This course introduces students to the major analytical frameworks historians use to understand the diverse and complicated encounters between Euro-Americans and Native Americans in what is now the United States from first contact in the sixteenth century through the forced integration of Native nations into the United States after the Civil War. These encounters will be rooted in what was called the history of the "frontier," but is now more commonly described as "western" history or the study of "borderlands." Readings will emphasize sociocultural diversity among Indian societies, Indian agency, and Euro-American policy frameworks for Indian relations.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82415 RELIGION AND VIOLENCE IN THE MODERN WEST 3 Credit Hours
(Slashed with HIST 62415) This class explores the role of religion in conflict throughout the modern Atlantic World. It is commonly believed that Western societies underwent a process of secularization in the modern age. However, recent scholarship has proven that religious beliefs and behaviors have retained their power, popularity and causal agency. This course is designed to give graduate students an introduction to recent trends in the writing of the history of religion and violence. Religion will be taken as social, cultural and political history, rather than merely ecclesiastical or theological history. Violence will be taken as rhetorics and cultures of violence, as well as warfare and other acts of physical violence. We will start the class by discussion theories of religion, including "civil religion" as an alleged replacement faith in an era of secularity; sample current debates on the question of the religious causes of violence; then survey prominent monographs and articles that address this nexus historically.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82420 POLICE AND POLICED IN THE U.S. 19TH AND 20TH CENTURIES 3 Credit Hours
(Slashed with HIST 62420) This course traces (backwards, beginning with the most recent material) the historical processes through which policing took on its special character in this country beginning with slave patrols and the emergence of professional policing just before the Civil War. To trace how police transformed their work through 2001, this course explores public opinion; popular culture; technological and bureaucratic changes; relationships between state and non-state violence; and police working conditions, training and self-understandings.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82475 MARXIST REVOLUTION IN VIETNAM 3 Credit Hours
(Slashed with HIST 62475) An examination of the violent upheavals influenced by Marxist thought that overturned traditional Vietnamese political, economic, and social structures over the course of the twentieth century. Course readings explore the chronology, context, and consequences of this revolution as well as the meaning of key concepts such as revolution and modernity.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82485 THE CIVIL WAR AS EXPERIENCED AND REMEMBERED 3 Credit Hours
(Slashed with HIST 62485) This course looks at the U.S. Civil War from the point of view of the men (and occasionally women) who marched, camped, fought, suffered and died during the four years of conflict and the decades after. After giving brief attention to the causes and political issues that led to war, the course focus is on the experiences and reactions of the people called upon to fight it. Rather than concentrate on the famous leaders and generals, students look at the officers and men, civilians and enslaved people and other common folks on both sides who were thrust into the conflict. Some attention is paid to the guerrilla war, the draft, the POW experience and the participation of African Americans and Native Americans. The second part of the course looks at memory, commemoration and the effects of the war on many of these groups in the decades leading into the 20th century.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIST 82500 REGIONAL IDENTITY AND OHIO HISTORY 3 Credit Hours
(Slashed with HIST 62500) As central as Ohio is in our national history, it is often underrepresented in standard historical narratives. This course explores the unfolding of more than two centuries of US history through the lens of the experience and understandings of residents of the State of Ohio. This changed perspective revisits many familiar themes -- indigenous histories, immigration, labor conflict, the Great Depression -- but moving our attention from the coast to the interior often places them in a revealing new light.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 82505 SOCIAL MOVEMENTS IN THE 19TH-20TH CENTURY RUST BELT 3 Credit Hours
(Slashed with HIST 62505) This course explores the national and global history of social movements in the nineteenth and twentieth centuries through the lens of the great lakes region. While many social movements have focussed on the coasts, in fact the "Rust Belt" played a disproportionate role in fostering and populating radical movements from abolitionism to temperance to labor unionism as well as repressive movements like the Ku Klux Klan. Alternating between classic historical monographs and regional studies, the class interrogates the meaning of the region's sympathy to radical movements and also suggests a reconception of these movements through a new geographic focus.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIST 89199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 89299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: HIST 89199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIST 89896 INDIVIDUAL INVESTIGATION 2,3 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP

HIST 89898 RESEARCH 1-15 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral Standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

History - B.A.

College of Arts and Sciences
Department of History
www.kent.edu/history

About This Program

Gain a comprehensive understanding of history and develop critical thinking, research and communication skills to succeed in a wide range of careers. With experienced faculty, personalized attention and engaging courses, Kent State's History B.A. program provides you the foundation needed to pursue graduate studies, law school or careers in education, government, non-profit and many other fields. Read more...

Contact Information

- **Shane Strate** | sstrate@kent.edu | 330-672-8900
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
HIST 32050	HISTORICAL RESEARCH METHODS	3
HIST 49091	SENIOR SEMINAR IN HISTORY (ELR) (WIC) [1]	3
History (HIST) Upper-Division Electives (30000 or 40000 level) [2]		9
History (HIST) Lower-Division Electives (10000 or 20000 level), choose from the following:		9
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	

HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	
HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	
Area Studies Electives, choose from the following:		6
HIST 30010	NEW DEAL AMERICA AND BEYOND	
HIST 30020	THE SIXTIES IN AMERICA	
HIST 30040	NINETEENTH-CENTURY EUROPE	
HIST 30049	MODERN EUROPEAN HISTORY, 1914-1945	
HIST 30050	MODERN EUROPEAN HISTORY: 1945-PRESENT	
HIST 30060	HISTORY OF GERMANY, 1871-PRESENT	
HIST 30111	JEFFERSON-JACKSON ERA, 1789-1848	
HIST 31022	THE GREAT POWERS IN WAR AND PEACE, 1792-1914	
HIST 31023	THE GREAT POWERS IN WAR AND PEACE, 1914-1945	
HIST 31025	ITALY FROM ROME TO THE RENAISSANCE	
HIST 31026	ITALIAN HISTORY FROM THE RENAISSANCE TO THE ENLIGHTENMENT	
HIST 31032	THE GLOBAL CRISIS OF THE SEVENTEENTH CENTURY	
HIST 31034	MURDER MYSTERY AND MAYHEM: THE MEDICI DYNASTY IN FLORENCE	
HIST 31036	THE TWENTIETH CENTURY WORLD	
HIST 31040	AMERICAN HISTORY THROUGH POPULAR MUSIC	
HIST 31053	MODERN EUROPE, 1815 TO PRESENT	
HIST 31055	POLITICS, CULTURE AND SOCIETY OF 20TH-CENTURY EUROPE	
HIST 31056	EUROPE IN THE RENAISSANCE	
HIST 31057	THE FRENCH REVOLUTION AND NAPOLEON	
HIST 31061	HISTORY OF OHIO	
HIST 31082	HISTORY OF THE CIVIL RIGHTS AND BLACK POWER MOVEMENTS IN THE UNITED STATES	
HIST 31084	THE INVENTION OF AMERICA: 1492-1714 (DIVD)	
HIST 31085	ALEXANDER HAMILTON'S WORLD: 18TH-CENTURY AMERICA (DIVD)	
HIST 31087	SECTIONAL CONFLICT AND CIVIL WAR	
HIST 31100	RECONSTRUCTION AND THE LATER SOUTH	
HIST 31106	PROGRESSIVE AMERICA - REFORMERS, CRUSADERS AND RADICALS: AMERICA, 1893-1929	
HIST 31107	NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945	
HIST 31112	CHINESE CIVILIZATION	
HIST 31113	HISTORY OF JAPAN	
HIST 31126	HISTORY OF THE MIDDLE EAST	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31131	HISTORY OF COLONIAL AFRICA, 1880-1994	
HIST 31132	HISTORY OF POST-COLONIAL AFRICA	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY MODERN LATIN AMERICA (C. 1450-1820) (DIVG)	
HIST 37001	FLORENCE THE MYTH OF A CITY	
HIST 38495	SPECIAL TOPICS IN AREA STUDIES	
HIST 41003	HISTORY OF ANCIENT GREECE	
HIST 41006	ROMAN HISTORY	
Thematic Studies Electives, choose from the following:		6
HIST 30030	IDEAS IN ACTION: U.S. INTELLECTUAL HISTORY (DIVD)	
HIST 30070	THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 30112	THE UNITED STATES: THE WESTWARD MOVEMENT	
HIST 31000	INTRODUCTION TO PUBLIC HISTORY	
HIST 31020	POLIS TO METROPOLIS: HISTORY OF THE EUROPEAN CITY	
HIST 31024	WORLD WAR II	
HIST 31031	REFORMATIONS IN EARLY MODERN CHRISTIANITY	
HIST 31033	WITCHES AND EUROPEAN HISTORY, 1500-1800	
HIST 31035	THE GLOBAL COLD WAR	
HIST 31041	SPORT HISTORY IN THE UNITED STATES	
HIST 31045	A HISTORY OF CRIME IN THE UNITED STATES	
HIST 31071	AMERICA AND THE WORLD THROUGH 1898	
HIST 31072	AMERICA AND THE WORLD: 1898-1945	
HIST 31073	AMERICA AND THE WORLD SINCE 1945	
HIST 31074	HISTORY OF ESPIONAGE: FROM JOSHUA TO EDWARD SNOWDEN	
HIST 31075	HISTORY OF WOMEN IN THE UNITED STATES	
HIST 31077	HISTORY OF SEXUALITY IN THE UNITED STATES	
HIST 31080	AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM	
HIST 31083	THE HISTORY OF WHITENESS IN THE UNITED STATES	
HIST 31101	WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865	
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT	
HIST 31104	MIGRATIONS TO AMERICA, 1607 TO PRESENT (DIVD)	
HIST 31114	TRADITION AND REVOLUTION IN SOUTHEAST ASIA (DIVG)	
HIST 31118	VIETNAM WAR	
HIST 31124	HIGHLIFE HISTORIES: MODERN AFRICAN URBAN EXPERIENCE	
HIST 31543	THE SCIENTIFIC REVOLUTION	
HIST 31550	MEDICINE IN THE MODERN WORLD SINCE 1500	
HIST 38595	SPECIAL TOPICS IN THEMATIC STUDIES	
HIST 41060	COMPARATIVE FASCISM	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Fine Arts		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		46
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.
[2] Maximum 3 credit hours of HIST 40092 may be applied toward the degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	UC 10001	FLASHES 101	1
	History (HIST) Lower-Division Electives (10000 or 20000 level)		6
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		**13**
	Semester Two		
!	History (HIST) Lower-Division Elective (10000 or 20000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		**15**
	Semester Three		
!	Area Studies Elective		3
!	Thematic Studies Elective		3
	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		**16**
	Semester Four		
!	Area Studies Elective		3
!	Thematic Studies Elective		3
	Foreign Language		4
	Kent Core Requirement		3
	General Elective		3
	Credit Hours		**16**
	Semester Five		
!	History (HIST) Upper-Division Elective (30000 or 40000 level)		3
	Foreign Language and/or General Elective		3
	General Electives		9
	Credit Hours		**15**
	Semester Six		
	HIST 32050	HISTORICAL RESEARCH METHODS	3
	Foreign Language and/or General Elective		3
	General Electives		9
	Credit Hours		**15**
	Semester Seven		
!	HIST 49091	SENIOR SEMINAR IN HISTORY (ELR) (WIC)	3
	History (HIST) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		9
	Credit Hours		**15**
	Semester Eight		
	History (HIST) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		12
	Credit Hours		**15**
	Minimum Total Credit Hours:		**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours

Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and apply a variety of basic historical methods.
2. Find, use and analyze historical evidence and communicate their findings in an effective manner.
3. Obtain historical content knowledge and understand the connectedness of historical events and the wide varieties of human experiences.
4. Understand history as a discipline based on interpretation with historical questions constantly being reframed and investigated.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in History provides a well-rounded educational experience in which students have the independence and flexibility to explore and develop their individual interests while getting a solid grounding in different approaches to historical research, writing and analysis.

The study of history offers insight into the complexity of the human experience by exploring the political, cultural, social, economic and environmental factors that have shaped the past and the present. The study of history also offers training in a range of skills, including how to find, evaluate, manage and synthesize multiple sources of information; how to think critically and analyze complex evidence; how to undertake independent research and manage time effectively; how to develop and present reasoned arguments supported by evidence; how to present information and arguments effectively in writing; and how to develop and deliver effective oral presentations. The skills and experiences gained through the study of history provide preparation for a variety of career tracks.

The History major is comprised of several elements:

- *Lower-Division History Electives* provide history majors with an overview of the major themes and developments in world history from human origins to the present and in the history of the United States from pre-colonization to the present.
- The required *Historical Research Methods* course introduces students to the main tools and techniques of doing history, while providing them with the opportunity to develop and refine the skills of historical research, writing and analysis to do well in their upper-division coursework.
- *Area Studies Electives* are a group of upper--division history courses in which the history of a place (state, nation or region) is the primary focus of the courses.
- *Thematic Studies Electives* are a group of upper-division history courses in which a specific topic or theme is the primary focus of the courses while the place and time period are secondary.
- The required *Senior Seminar in History* course is a capstone experience in which students develop, design and execute their own original historical research project that utilizes primary sources and engages with current historical scholarship.

Students in the History major are encouraged to undertake an internship for course credit to gain job experience and further strengthen their profile for their career after graduation.

History - M.A.

College of Arts and Sciences
Department of History
www.kent.edu/history

About This Program

The Master of Arts in History program builds on your undergraduate studies and allows you to specialize in a particular historical period, region or theme. With rigorous coursework, research opportunities and close mentorship from faculty, you will develop the skills needed to succeed in a wide range of careers. Read more...

Contact Information

- **Lindsay Starkey** | lstarke3@kent.edu | 330-672-8907
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree in history from an accredited college or university[1]
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- GRE scores
- Goal statement describing professional objectives and proposed field of study
- Significant piece of written work that integrates primary and secondary sources
- Three letters of recommendation (preferably academic)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

1 Students who have not earned a Bachelor of Arts degree in History are eligible to apply for admission if they have completed 12 credit hours of upper-division history courses (with a minimum 3.300 GPA).

2 International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: February 1
    Applications submitted by this deadline will receive the strongest consideration for admission.
- **Spring Semester**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
HIST 61002	HISTORIOGRAPHY (min B- grade)	3
Seminars and Colloquia in History (min B- grade) [1]		9
Additional Requirements or Concentrations [2]		
Choose from the following:		18
Additional Requirements for Students Not Declaring a Concentration		
History for Secondary School Teachers Concentration		
Minimum Total Credit Hours:		**30**

1 Students must complete at least one research seminar (HIST 61070) no matter their specific program choice.

2 Students can count no more than 3 credit hours of HIST 60092 toward their degree no matter their specific program choice.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements		
Thesis or Non-Thesis Option, choose from the following:		18
Thesis Option [1]		
HIST 69199	THESIS I	
History (HIST) Electives [2]		
Non-Thesis Option		
HIST 69399	CAPSTONE IN HISTORY	
History (HIST) Electives [3]		
Minimum Total Credit Hours:		**18**

1 Students selecting the thesis option must demonstrate a reading knowledge of one or more foreign languages if their advisers determine that it is necessary for research.

2 Students may elect to take two graduate-level courses in fields outside of history. Students who choose to pursue outside field coursework must take history graduate courses in two of the following three areas: American history, European history and global history (non-Western). Students who do not take outside field coursework must complete 12 credit hours of graduate coursework in history, and they must include coursework in each of the following areas: American history, European history and global history (non-Western).

3 Students may elect to take two graduate-level courses in disciplines outside of history. Students who choose to pursue outside discipline course work must take history graduate courses in two of the following three areas: American history, European history and global history (non-Western). Students who do not take outside discipline coursework must complete 15 credit hours of graduate coursework in history and they must include coursework in each of the following areas: American history, European history and global history (non-Western).

History for Secondary School Teachers Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
HIST 69499	INTERDISCIPLINARY PROJECT IN HISTORY	3,6
History (HIST) Electives (min B- grade) [1]		3-6
Education Electives, choose from the following: (min B- grade) [2]		6-9
CI 50093	VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION	
CI 57503	TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES	

CI 61125	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION
CI 61126	RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING
CI 61127	TECHNOLOGY AND SOCIAL STUDIES
CI 67001	FUNDAMENTALS OF CURRICULUM
CI 67095	SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION
CI 67105	IMPROVING CLASSROOM INSTRUCTION
Minimum Total Credit Hours:	**18**

[1] Electives are to be approved by faculty advisor and may include courses from other disciplines, if appropriate. Maximum 3 credit hours of pre-approved workshops for teachers.

[2] Students may petition the graduate coordinator to count other courses in pedagogy, regardless of department, toward the electives for this concentration.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- The culmination of the program's writing component for those students intending to go on to doctoral work is the completion of a substantial thesis based on original primary-source research and the oral defense of that thesis.
- Minimum B- grade is required in all specified courses.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Develop and successfully complete an original historical research project incorporating primary sources, demonstrating mastery of project management skills, historical methods, and historiographical approaches.
2. Summarize and evaluate secondary scholarship on a historical topic at an advanced level both orally and in writing.
3. Produce sophisticated historical work that meets the professional and ethical standards for the discipline of history. Such work might include but is not limited to book reviews, exhibitions, annotated bibliographies, oral histories, historiographical essays, digital history projects, and research papers.

Full Description

The Master of Arts degree in History offers students the opportunity for advanced study in a variety of areas. Coursework emphasizes interpretation, methodology and original research. A student's program of study allows for the opportunity to conduct historical inquiry, research and analysis at the highest level. While students will be able to develop a core competence in their chosen field study, they will also study the histories of regions and times far removed from their central interests. Students may also pursue interdisciplinary work in cognate fields composed of courses in outside disciplines.

Students who anticipate continuing their graduate study beyond the M.A. degree should pursue one of the thesis tracks. Those who choose the thesis option, which is required of students on graduate assistantships, will produce a thesis based on original primary source research that engages a historiographically significant research question. Non-thesis options are available for those who do not expect to go on to doctoral work.

The program develops graduates who are educated scholar-citizens committed to historical empathy and in possession of critical thinking and communication skills honed by rigorous training.

History - Minor

College of Arts and Sciences
Department of History
www.kent.edu/history

About This Program

The History minor offers students an overview of the major themes and developments in the history of the globe, as well as the opportunity for students to study the time periods, themes and geographical areas they find most interesting. At all levels, the minor prepares students to develop the ability to read analytically, think critically and write effectively. The History minor is an excellent complement to many of the degree programs offered at the university.

Contact Information

- **Shane Strate** | sstrate@kent.edu | 330-672-8900
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
or HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
or HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	
Area Studies Electives, choose from the following:		6
HIST 30010	NEW DEAL AMERICA AND BEYOND	
HIST 30020	THE SIXTIES IN AMERICA	
HIST 30040	NINETEENTH-CENTURY EUROPE	
HIST 30049	MODERN EUROPEAN HISTORY, 1914-1945	
HIST 30050	MODERN EUROPEAN HISTORY: 1945-PRESENT	
HIST 30060	HISTORY OF GERMANY, 1871-PRESENT	
HIST 30111	JEFFERSON-JACKSON ERA, 1789-1848	
HIST 31022	THE GREAT POWERS IN WAR AND PEACE, 1792-1914	
HIST 31023	THE GREAT POWERS IN WAR AND PEACE, 1914-1945	
HIST 31032	THE GLOBAL CRISIS OF THE SEVENTEENTH CENTURY	
HIST 31036	THE TWENTIETH CENTURY WORLD	
HIST 31040	AMERICAN HISTORY THROUGH POPULAR MUSIC	
HIST 31053	MODERN EUROPE, 1815 TO PRESENT	
HIST 31055	POLITICS, CULTURE AND SOCIETY OF 20TH-CENTURY EUROPE	
HIST 31056	EUROPE IN THE RENAISSANCE	
HIST 31057	THE FRENCH REVOLUTION AND NAPOLEON	
HIST 31061	HISTORY OF OHIO	
HIST 31082	HISTORY OF THE CIVIL RIGHTS AND BLACK POWER MOVEMENTS IN THE UNITED STATES	
HIST 31084	THE INVENTION OF AMERICA: 1492-1714 (DIVD)	
HIST 31085	ALEXANDER HAMILTON'S WORLD: 18TH-CENTURY AMERICA (DIVD)	
HIST 31087	SECTIONAL CONFLICT AND CIVIL WAR	
HIST 31100	RECONSTRUCTION AND THE LATER SOUTH	
HIST 31106	PROGRESSIVE AMERICA - REFORMERS, CRUSADERS AND RADICALS: AMERICA, 1893-1929	
HIST 31107	NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945	
HIST 31112	CHINESE CIVILIZATION	
HIST 31113	HISTORY OF JAPAN	
HIST 31126	HISTORY OF THE MIDDLE EAST	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31131	HISTORY OF COLONIAL AFRICA, 1880-1994	
HIST 31132	HISTORY OF POST-COLONIAL AFRICA	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY MODERN LATIN AMERICA (C. 1450-1820) (DIVG)	
HIST 37001	FLORENCE THE MYTH OF A CITY	
HIST 38495	SPECIAL TOPICS IN AREA STUDIES	
HIST 41003	HISTORY OF ANCIENT GREECE	
HIST 41006	ROMAN HISTORY	
Thematic Studies Electives, choose from the following:		6
HIST 30030	IDEAS IN ACTION: U.S. INTELLECTUAL HISTORY (DIVD)	
HIST 30070	THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 30112	THE UNITED STATES: THE WESTWARD MOVEMENT	
HIST 31000	INTRODUCTION TO PUBLIC HISTORY	
HIST 31020	POLIS TO METROPOLIS: HISTORY OF THE EUROPEAN CITY	
HIST 31024	WORLD WAR II	
HIST 31031	REFORMATIONS IN EARLY MODERN CHRISTIANITY	
HIST 31033	WITCHES AND EUROPEAN HISTORY, 1500-1800	
HIST 31035	THE GLOBAL COLD WAR	
HIST 31041	SPORT HISTORY IN THE UNITED STATES	
HIST 31045	A HISTORY OF CRIME IN THE UNITED STATES	
HIST 31071	AMERICA AND THE WORLD THROUGH 1898	
HIST 31072	AMERICA AND THE WORLD: 1898-1945	
HIST 31073	AMERICA AND THE WORLD SINCE 1945	
HIST 31074	HISTORY OF ESPIONAGE: FROM JOSHUA TO EDWARD SNOWDEN	
HIST 31075	HISTORY OF WOMEN IN THE UNITED STATES	
HIST 31077	HISTORY OF SEXUALITY IN THE UNITED STATES	
HIST 31080	AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM	
HIST 31083	THE HISTORY OF WHITENESS IN THE UNITED STATES	
HIST 31101	WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865	
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT	
HIST 31104	MIGRATIONS TO AMERICA, 1607 TO PRESENT (DIVD)	
HIST 31114	TRADITION AND REVOLUTION IN SOUTHEAST ASIA (DIVG)	
HIST 31118	VIETNAM WAR	
HIST 31124	HIGHLIFE HISTORIES: MODERN AFRICAN URBAN EXPERIENCE	
HIST 31543	THE SCIENTIFIC REVOLUTION	
HIST 31550	MEDICINE IN THE MODERN WORLD SINCE 1500	
HIST 38595	SPECIAL TOPICS IN THEMATIC STUDIES	
HIST 41034	THE POLITICS OF DRESS IN MODERN EUROPE	
HIST 41060	COMPARATIVE FASCISM	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students can only count a course toward one elective list, even though the course may appear in more than one list.

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe and apply some of the main methodologies historians employ to study the past.
2. Think critically about the varieties of evidence left by those in the past, including an understanding of the omissions, silences and agendas that often appear in primary sources.
3. Relate one's understanding of past time periods, places and themes to the circumstances of the present day.
4. Conduct basic research in both primary and secondary sources and analyze those sources in an argumentative essay.

History - Ph.D.

College of Arts and Sciences
Department of History
www.kent.edu/history

About This Program

The Ph.D. degree in History prepares students to become professional scholars, college and university teachers and independent researchers in private or public research institutions.

Contact Information

- **Lindsay Starkey** | lstarke3@kent.edu | 330-672-8907
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the Ph.D. in History are not being accepted at this time

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Ph.D. in History are not being accepted at this time

- Master's degree from an accredited college or university in history or related discipline
- Minimum 3.000 GPA on a 4.000-point scale
- Official transcript(s)
- GRE scores
- Goal statement describing professional objectives and proposed field of study
- Significant piece of written work
- Three letters of recommendation (preferably academic)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (min B- or S grade required in all courses)		
HIST 71005	TEACHING WORLD HISTORY	3
HIST 81002	HISTORIOGRAPHY [1]	0-3
HIST 81070	WRITING SEMINAR IN HISTORY [2]	3
HIST 82070 & HIST 82071	AMERICAN HISTORY FROM PRECONTACT NATIVE AMERICA THROUGH THE CIVIL WAR and AMERICAN HISTORY FROM THE CIVIL WAR TO THE PRESENT [3]	0-6
History (HIST) Doctoral Electives (70000 or 80000 level) [4]		15
Focus Field Requirement, choose from the following: [5]		9
History of Everyday Life Focus Field		
HIST 82300	MAJOR READINGS IN THE IMMIGRATION AND MIGRATION HISTORY OF THE UNITED STATES	
HIST 82325	MAJOR READINGS IN ASIAN AMERICAN HISTORY	
HIST 82326	BETWEEN PLOWS AND SWORDS: U.S.-CHINA CULTURAL RELATIONS SINCE THE LATE 1700S	
HIST 82350	REVOLUTION AND REFORM: THE DEPRESSION ERA AND THE TRANSFORMATION OF AMERICAN SOCIETY	
HIST 82360	MARGINALITY AND POWER: HISTORY FROM BELOW	
HIST 82385	HIGH-LIFE HISTORY: AFRICAN URBAN CULTURAL HISTORIES	
Rustbelt Studies Focus Field		
HIST 82500	REGIONAL IDENTITY AND OHIO HISTORY	
HIST 82505	SOCIAL MOVEMENTS IN THE 19TH-20TH CENTURY RUST BELT	
Any History (HIST) Doctoral course (70000 or 80000 level)		
States of Violence Focus Field		
HIST 71060	COMPARATIVE FASCISM	
HIST 82400	THE LENS OF WAR: AMERICAN HISTORY THROUGH THE STUDY OF THE MILITARY	
HIST 82405	NATIVE WESTS	
HIST 82415	RELIGION AND VIOLENCE IN THE MODERN WEST	
HIST 82475	MARXIST REVOLUTION IN VIETNAM	

Culminating Requirement

HIST 89199	DISSERTATION I [6]	30
Minimum Total Credit Hours:		**60**

1. Students who did not complete a historiography class for their master's degree must take HIST 81002.
2. Students may take HIST 81070 more than once.
3. Students working in U.S. history must complete HIST 82070 and HIST 82071.
4. Students' electives must include at least four seminars/colloquia. Outside of the focus field, students either elect two general fields and one specialized field or elect one general field and two specialized fields. General fields include Africa, Asia, Europe, early United States and recent United States. Specialized fields explore a particular subfield (e.g., history of American foreign relations) or methodology (e.g., cultural history) across a broad sweep of time and are designed to deepen students' knowledge of their general field.
5. Students may apply special topics courses HIST 79095, HIST 79195 and/or HIST 79295 to their focus field requirements with the approval of the graduate coordinator.
6. Each doctoral candidate, upon admission to candidacy, must register for HIST 89199 for a total of 30 credit hours. It is expected that a doctoral candidate will thereafter register for HIST 89299 until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- All students must demonstrate reading knowledge of a foreign language.
- Course grades help to measure student performance. Only work of B- grade or better is considered "passing" at the graduate level. Any students whose grades are deficient are dismissed.

Candidacy

After completing coursework requirements, students must successfully complete written and oral examinations in the four elected fields of history.

Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze secondary sources in a variety of areas of historical specialization and participate actively and positively in discussions of those sources.
2. Read and master the formative as well as the most significant recent scholarship in their particular areas of focus.
3. Construct effective and analytical book reviews, comparative review essays and historiographical pieces with a high level of proficiency, particularly when it comes to integrating various historical works together into an analytical/argumentative whole.
4. Form their own judgments about secondary historical works and the historiographical fields of which they are part.
5. Analyze a wide array of primary sources in a sophisticated manner; and integrate these sources with secondary sources in order to make an original historical argument.
6. Demonstrate an ability to conceptualize; research; and write book reviews, annotated bibliographical essays, historiographical essays and seminar papers.
7. Produce a professional-quality book-length piece of rigorous academic work.

Department of Mathematical Sciences

College of Arts and Sciences
Department of Mathematical Sciences
233 Mathematics and Computer Science Building
Kent Campus
330-672-2430
math@math.kent.edu
www.kent.edu/math

Undergraduate Programs

- Actuarial Mathematics - B.S.
- Applied Mathematics - B.S.
- Mathematics - B.A.
- Mathematics - B.S.

Minors

- Applied Mathematics
- Applied Statistics
- Mathematics

Graduate Programs

- Applied Mathematics - M.A.
- Applied Mathematics - M.S.
- Applied Mathematics - Ph.D.
- Data Science - M.S.
- Mathematics for Secondary School Teachers - M.A.
- Pure Mathematics - M.A.
- Pure Mathematics - M.S.
- Pure Mathematics - Ph.D.

Department of Mathematical Sciences Faculty

- Adams, Lynn (2007), Senior Lecturer, M.S., University of Akron, 2007
- Al-Niemi, Fearase (2024), University of Akron
- Alexopoulos, John K. (1994), Associate Professor, Ph.D., Kent State University, 1992
- Allen, Aaron C. (2014), Lecturer, B.S., Rensselaer Polytechnic Institute , 2011
- Allouba, Hassan A. (2002), Associate Professor, Ph.D., Cornell University, 1996
- Altobelli, Joseph A. (1997), Associate Professor, Ph.D., The Ohio State University, 1996
- Andaloro, Paul J. (1994), Assistant Professor, Ph.D., The Ohio State University, 1989
- Andriyevskyy, Volodymyr (2000), Professor, Ph.D., Institute of Mathematics of Ukrainian Academy of Sciences, 1986

- Arokiasamy, Daisy Malini (2015), Lecturer, M.S., Kent State University, 2016
- Barb, Cynthia M. (1990), Associate Professor, Ph.D., Kent State University, 1997
- Benjamin, Judy I. (2002), Assistant Professor, Ph.D., Kent State University, 2022
- Chebotar, Mikhail (2006), Professor, Ph.D., Moscow State University, 1999
- Clos, Timothy G. (2020), Assistant Professor, Ph.D., University of Toledo, 2017
- Das, Lovejoy S. (1989), Professor, Ph.D., University of Lucknow, 1979
- Davidson, Morley A. (1996), Associate Professor, Ph.D., University of Michigan, 1995
- de la Cruz Cabrera, Omar (2016), Associate Professor
- Dhaher, Yaser Y. (1989), Professor, Ph.D., Kent State University, 2007
- Dinh, Hai Q. (2004), Professor, Ph.D., Ohio University, 2003
- Dunlap, Laurie A. (2021), Associate Professor, Ph.D., University of Cincinnati, 2005
- Fesli, Emily E. (2021), Lecturer, M.S., Cleveland State University, 2021
- Gordon, Peter (2017), Associate Professor, Ph.D., Moscow University, 1999
- He, Min (1995), Professor, Ph.D., Southern Illinois University-Carbondale, 1994
- Hovhannisyan, Gro (2003), Professor, Ph.D., Yerevan State University, 1990
- Jahangiri, Jay M. (1994), Professor, Ph.D., University of York, 1986
- Jiafeng, Jin (2014), Lecturer, Ph.D., Kent State University, 2024
- Kasturiarachi, Aloysius B. (1995), Associate Professor, Ph.D., University of North Carolina-Charlotte, 1993
- Khan, Mohammad K. (1981), Professor, Ph.D., Case Western Reserve University, 1980
- Kover, Janice S. (1996), Associate Professor, Ph.D., Kent State University, 2001
- Kracht, Darci L. (1984), Professor, Ph.D., Kent State University, 2011
- Kratky, Joseph J. (2005), Associate Lecturer, M.S., Kent State University, 2011
- Laux, Tracy A. (1990), Senior Lecturer, B.S., Kent State University, 1990
- Law, Chelsea C. (2021), Associate Lecturer, M.S., Clemson University, 2012
- Lewis, Mark L. (1996), Professor, Ph.D., University of Wisconsin-Madison, 1995
- Li, Jing (2003), Associate Professor, Ph.D., New York University, 2002
- Li, Jun (2013), Associate Professor, Ph.D., Iowa State University, 2013
- Lochmueller, Kerri K. (2005), Associate Lecturer, M.S., Youngstown State University, 2008
- Meinke, Ashley M. (2009), Lecturer, M.S., Kent State University, 2011
- Miller, Robert L. (2021), Lecturer, M.S., Miami University, 2006
- Mocioalca, Oana (2004), Associate Professor, Ph.D., University of Florida, 2002
- Mulqueeny, Ellen S. (2005), Professor, M.S., Cleveland State University, 1993
- Najafi, Mahmoud (1995), Professor, Ph.D., Wichita State University, 1994
- Nazarov, Fedor L. (2011), Professor, M.S., Youngstown State University, 1990
- Neal, Todd A. (2010), Assistant Professor, Ph.D., University of Alabama, 2016
- Ngunkeng, Grace (2021), Associate Professor, Ph.D., Bowling Green State University, 2013
- Osikiewicz, Beth-Allyn (1994), Associate Professor, Ph.D., Kent State University, 2000
- Osikiewicz, Jeffrey A. (1990), Associate Professor, Ph.D., Kent State University, 1997
- Palffy-Muhoray, Peter (1987), Professor
- Palocyi, Frank J. (1991), Associate Lecturer, M.S., Youngstown State University, 1990
- Perera, Vicumpriya S. (1998), Associate Professor, Ph.D., Purdue University, 1993
- Pham, Tuyet D. (1988), Senior Lecturer, M.S., University of Akron, 1988
- Rajaram, Rajeev (2008), Professor, Ph.D., Iowa State University, 2005
- Reed, Beverly M. (1986), Professor, Ph.D., Kent State University, 2007
- Reichel, Lothar (1991), Professor, Ph.D., University of Stockholm, 1982
- Ritchey, Nathan P. (2016), Professor
- Ruff, Oliver (2009), Associate Professor, Ph.D., University of Oregon, 2002
- Ryabogin, Dmitry (2007), Professor, Ph.D., University of Jerusalem, 2001
- Sarver, Michael W. (2021), Associate Professor, Ph.D., Bowling Green State University, 2006
- Schmalzried, Robert J. (2017), Associate Lecturer, M.S.Ed., Youngstown State University, 2004
- Smithies, Laura A. (1997), Associate Professor, Ph.D., University of Utah, 1997
- Soprunova, Evgenia (2007), Professor, Ph.D., University of Toronto, 2002
- Spalsbury, Angela S. (2018), Associate Professor, Ph.D., Kent State University, 1996
- Stadden, Jared M. (2013), Associate Lecturer, M.B.A., Kent State University, 2012
- Taha, Nader F. (1990), Senior Lecturer, M.S., Tennessee State University, 1989
- Trehan, Dawn M. (2019), Assistant Professor, M.S., Case Western Reserve, 1996
- Tsai, Tsung-Heng (2019), Associate Professor, Ph.D., Virginia Tech, 2014
- Vezvaei, Mahbobeh (1983), Professor, Ph.D., Case Western Reserve University, 1987
- Vorhauer, Ulrike M. (2001), Associate Professor, Ph.D., University of Ulm, 1996
- Wakita, Hideki (1998), Senior Lecturer, M.A., Kent State University, 2002
- White, Donald L. (1989), Professor, Ph.D., Yale University, 1987
- Wright, Brian M. (1998), Associate Professor, Ph.D., Kent State University, 2007
- Yeon, Hyemin (2024), Assistant Professor, Ph.D., Iowa State University, 2023
- Yu, Gang (2006), Associate Professor, Ed.D., University of Georgia, 2000
- Zheng, Xiaoyu (2006), Professor, Ph.D., University of North Carolina-Chapel Hill, 2006

- Zvavitch, Artem (2004), Professor, Ph.D., Weizmann Institute of Science, 2002

Mathematics (MATH)

MATH 00020 PRE-ALGEBRA 2 Credit Hours
Course covers properties of whole numbers, fractions, decimals, percents, signed numbers and order of operations. Mental math and elementary algebraic thinking skills are emphasized. Use of calculators is not allowed. Course does not count toward graduation.
Prerequisite: 0-9 ALEKS math score.
Schedule Type: Emporium
Contact Hours: 2 other
Grade Mode: Standard Letter

MATH 00021 BASIC ALGEBRA I 2 Credit Hours
Course includes operations on integers, fractions, decimals and percents, and properties of real numbers. Introduction to variables, first degree equations and problem-solving with formulas. Equations and inequalities in one variable, linear equations, rate of change and slope, graphing in the cartesian plane. Course does not count toward graduation.
Prerequisite: Minimum 10 ALEKS math score.
Pre/corequisite: MATH 00020 with a minimum C grade.
Schedule Type: Emporium
Contact Hours: 2 other
Grade Mode: Standard Letter

MATH 00022 BASIC ALGEBRA II 2 Credit Hours
Introduction to functions, systems of linear equations, exponents, polynomial operations, scientific notation. Factoring polynomials, solving quadratics by factoring, radicals and rational exponents. Course does not count toward graduation.
Prerequisite: Minimum 25 ALEKS math score; or MATH 00021 with a minimum C grade.
Schedule Type: Emporium
Contact Hours: 2 other
Grade Mode: Standard Letter

MATH 00095 SPECIAL TOPICS IN MATHEMATICS 1-4 Credit Hours
(Repeatable for credit) Topics in mathematics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled. Course does not count toward graduation.
Prerequisite: None.
Schedule Type: Emporium
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MATH 10038 STATISTICAL THINKING 2 Credit Hours
This course is the first of a two-part sequence and provides a pathway for successful completion of MATH 10041 during the subsequent semester. Topics include graphical displays of data, measures of center and variation, linear regression and basic probability. In the context of these statistical concepts, students review basic arithmetic and algebra skills needed to succeed in MATH 10041, including computations and applications of percents and decimals, fractions, proportions, linear equations, areas of geometric figures, slope and intercepts. The development of study strategies, problem-solving skills and reading skills are interwoven throughout the semester. This course is different than basic algebra courses and MATH 10041 because it develops students' fluency within the context of statistical situations and does not cover all topics required in the TMM-011, nor does it cover them in depth. Emphasis is on skill development and foreshadowing statistical concepts through intuitive and informal development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MATH 10040 INTRODUCTORY STATISTICS PLUS (KMCR) 5 Credit Hours
(Equivalent to MATH 10041) An introduction to statistical thinking and statistical methods with a review of basic algebra. Emphasis is on statistical literacy, conceptual understanding and active learning in the classroom. This course also provides just-in-time remediation to help students achieve the same learning outcomes as MATH 10041. No credit earned for this course if a student already earned credit for MATH 10041. Students who do not meet the prerequisites but do have a minimum of 3.0 high school GPA should contact the department for approval to register.
Prerequisite: ALEKS Math score between 25 and 34; or MATH 00021 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, TAG Mathematics, Transfer Module Mathematics

MATH 10041 INTRODUCTORY STATISTICS (KMCR) 4 Credit Hours
(Equivalent to MATH 10040) An introduction to statistical thinking and statistical methods. Emphasis is on statistical literacy, conceptual understanding and active learning in the classroom. No credit earned for this course if a student already earned credit for MATH 10040. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade; or any higher level MATH course.
Schedule Type: Emporium
Contact Hours: 4 other
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 10050 QUANTITATIVE REASONING PLUS (KMCR) 5 Credit Hours
(Equivalent to MATH 10051) In the broadest sense mathematics should provide students the needed quantitative tools, logical reasoning and problem-solving skills, and a sense that quantitative modeling can be used to describe and understand developments in many areas of daily living. Since critical thinking is the primary objective and outcome for our course, in each area of concentration (numeracy, mathematical modeling, and probability and statistics) students will need to read and glean information from the problem situation, convert the information into a usable form, perform any needed routine calculations, make or draw a conclusion, and then communicate the result via explanation using quantitative reasoning by writing coherent statements and paragraphs. This course also provides just-in-time remediation to help students achieve the same learning outcomes as MATH 10051. Students who do not meet the prerequisites but do have a minimum of 3.0 high school GPA should contact the department for approval to register.
Prerequisite: ALEKS Math score between 25 and 34; or MATH 00021 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, TAG Mathematics, Transfer Module Mathematics

MATH 10051 QUANTITATIVE REASONING (KMCR) 4 Credit Hours
(Equivalent to MATH 10050) In the broadest sense, mathematics should provide students the needed quantitative tools, logical reasoning and problem solving skills, and a sense that quantitative modeling can be used to describe and understand developments in many areas of daily living. Since critical thinking is the primary objective and outcome for this course, in each area of concentration (numeracy, mathematical modeling and probability and statistics), students will read and glean information from the problem situation, convert the information into a usable form, perform any needed routine calculations, make or draw a conclusion, and then communicate the result via explanation using quantitative reasoning by writing coherent statements and paragraphs. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade; or any higher level MATH course.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 10475 ALGEBRAIC THINKING 2 Credit Hours
This course includes development of problem-solving skills, including recognizing quantities in real-world scenarios, noting dependency relationships of these quantities, creating accurate diagrams of the varying quantities in scenarios, precisely describing variables and quantities, identifying domains in context and representing the varying relationship of two quantities on a coordinate plane. Algebra skills reviewed include factoring, solving linear and non-linear equations and simplifying rational expressions and expressions with integer and rational exponents. The modeling component includes recognizing linear vs. exponential change and writing function models for linear and exponential growth and decay.
Prerequisite: MATH 00022 with a minimum C grade; or minimum 22 ACT math score; or minimum 530 SAT math score; or ALEKS math score between 35-44.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MATH 10675 ALGEBRA FOR CALCULUS BOOST (KMCR) 5 Credit Hours
(Equivalent to MATH 10775 or MATH 11010) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. The emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component. A two-week review of intermediate algebra skills is included in the course, as is extra time studying quadratic functions, absolute value functions, systems of equations and extended time on logarithms. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 22 ACT math score; or minimum 530 SAT math score; or ALEKS math score between 35-44; or MATH 00022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 10771 BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR) 5 Credit Hours
(Equivalent to MATH 14001) Course covers the development of the real-number system and its sub-systems, open sentences, numeration systems, modular arithmetic and some number theory concepts. Additional concepts covered include place value, logic, equality, properties of the real numbers, multiple representations of operations with numbers, and problem solving. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

MATH 10772 MODELING ALGEBRA PLUS (KMCR) 5 Credit Hours
(Equivalent to MATH 11009) Study of algebra arising in the context of real-world applications, including linear, polynomial, exponential and logarithmic models. Includes a review of factoring and functions. Course is intended for students not planning to take calculus. No credit earned toward a degree for this course if student already earned credit for MATH 11010. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

MATH 10775 ALGEBRA FOR CALCULUS PLUS (KMCR) 4 Credit Hours
(Equivalent to MATH 10675 or MATH 11010) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. The emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component. Skill review is included in the course, as is time studying quadratic functions, absolute value functions, systems of equations and extended time on logarithms.
Prerequisite: ALEKS math score between 45 and 54; or MATH 10772 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 11008 EXPLORATIONS IN MODERN MATHEMATICS (KMCR) 3 Credit Hours
Topics from various branches of mathematics will be chosen to introduce the student to the wide varieties of ways in which mathematics affects everyday life. Students who do not meet the prerequisites but do have a minimum of 3.5 high school GPA should contact the department for approval to register.
Prerequisite: Minimum 35 ALEKS math score; or minimum 22 ACT math score; or MATH 00022 or any higher MATH course with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

MATH 11009 MODELING ALGEBRA (KMCR) 4 Credit Hours
(Equivalent to MATH 10772) Study of algebra arising in the context of real-world applications, including linear, polynomial, exponential and logarithmic models. Intended for students not planning to take calculus. No credit earned toward a degree for this course if the student already earned credit for MATH 11010.
Prerequisite: Minimum 45 ALEKS math score.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning

MATH 11010 ALGEBRA FOR CALCULUS (KMCR) 3 Credit Hours
(Equivalent to MATH 10675 or MATH 10775) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. Emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component.
Prerequisite: Minimum 55 ALEKS math score; or MATH 10772 or MATH 11009 with a minimum B grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 11012 INTUITIVE CALCULUS (KMCR) 3 Credit Hours
Course is designed to give an overview of differential and integral calculus to business and life-science majors. Course does not include trigonometric functions. No credit earned toward a degree for this course if the student already earned credit for MATH 12002.
Prerequisite: Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 11022 TRIGONOMETRY (KMCR) 3 Credit Hours
Solution of triangles, trigonometric equations and identities.
Prerequisite: Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR) 5 Credit Hours
Concepts of limit, continuity and derivative, and the indefinite and definite integral for functions of one real variable. Maximization, related rates, fundamental theorem of calculus. No credit earned toward a degree for this course if the student already earned credit for MATH 12011 and MATH 12012.
Prerequisite: Minimum 78 ALEKS math score; or MATH 11022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II 5 Credit Hours
Continued study of techniques and applications of integration; trigonometric, logarithmic and exponential functions; polar coordinates; vectors; parametric equations; sequences and series.
Prerequisite: MATH 12002 or MATH 12012 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Transfer Module Mathematics

MATH 12011 CALCULUS WITH PRECALCULUS I (KMCR) 3 Credit Hours
Introduction to differential calculus with a review of algebra and trigonometry. Includes exponents, factoring, functions, graphs, tangent lines, limits, continuity, derivatives and related rates. No credit earned toward a degree for this course if the student already earned credit for MATH 12002.
Prerequisite: Minimum 67 ALEKS math score.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 12012 CALCULUS WITH PRECALCULUS II (KMCR) 3 Credit Hours
Development of integral calculus and continued study of differential calculus. Includes curve sketching optimization fundamental theorem of calculus areas between curves, exponential and logarithmic functions. No credit earned toward a degree for this course if student already earned credit for MATH 12002.
Prerequisite: MATH 12011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 12013 BRIEF CALCULUS II 3 Credit Hours
This is a condensed version of MATH 12003 to meet the needs of majors that do not require the full force of MATH 12003. The course starts with integration by parts, approximating integrals, and applications of integrals. It follows with a brief introduction to series, parametric equations and polar coordinates, and finishes with vectors and geometry of space. No credit earned toward a degree for this course if student already earned credit for MATH 12003.
Prerequisite: Minimum C grade in MATH 12002 or MATH 12012 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 12021 CALCULUS FOR LIFE SCIENCES 4 Credit Hours
Differential and integral calculus using examples and problems in life sciences.
Prerequisite: Minimum 78 ALEKS math score; or MATH 11022 or MATH 12011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 12022 PROBABILITY AND STATISTICS FOR LIFE SCIENCES 3 Credit Hours
Probability and statistics with applications in medical and biological sciences.
Prerequisite: Minimum C grade in MATH 12002 or MATH 12012 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 14001 BASIC MATHEMATICAL CONCEPTS I (KMCR) 4 Credit Hours
(Equivalent to MATH 10771) Development of the real number system and its sub-systems, open sentences, numeration systems, modular arithmetic and some number theory concepts.
Prerequisite: MATH 10675 or any higher level MATH course (except MATH 11008) with a minimum C grade; or minimum 45 ALEKS math score.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 14002 BASIC MATHEMATICAL CONCEPTS II (KMCR) 4 Credit Hours
Basic concepts of probability, statistics and geometry.
Prerequisite: MATH 10771 or MATH 14001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

MATH 19002 TECHNICAL MATHEMATICS II 4 Credit Hours
Emphasizes advanced topics in algebra and trigonometry, analytic geometry, derivatives and integrals.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 19099 FIELD EXPERIENCE IN MATHEMATICS INSTRUCTION (ELR) 1 Credit Hour
(Repeatable for credit) Learning through tutoring. A supervised lab experience in providing explanations of mathematical concepts.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MATH 20011 DECISION-MAKING UNDER UNCERTAINTY 3 Credit Hours
An introductory course on applied statistics. The course provides a hands-on approach to understanding, quantification and decision-making under various forms of uncertainty. The main topics include visualization of uncertainty, probabilistic quantification of uncertainty, Bayesian and non-Bayesian ways of decision-making under uncertainty. Class activities incorporate active learning elements, including in-classroom computation with professional-grade software for statistical analysis and simulation.
Prerequisite: MATH 12002 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 20095 SPECIAL TOPICS IN MATHEMATICS 1-5 Credit Hours
(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

MATH 21001 LINEAR ALGEBRA 3 Credit Hours
Systems of linear equations and the associated matrix operations, linear transformations, vector spaces, bases, eigenvectors.
Prerequisite: Minimum C grade in MATH 11012 or MATH 12002 or MATH 12012 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Mathematics

MATH 21002 APPLIED LINEAR ALGEBRA 3 Credit Hours
This is an introductory course in linear algebra. The goal of the course is to teach the math fundamentals of linear algebra in a way that focuses more on applications. The topics include systems of linear equations, matrix operations, vector spaces, eigenvalues and eigenvectors, singular value decompositions, and their applications.
Prerequisite: Minimum C grades in MATH 12002 or MATH 11012 or MATH 12012 or MATH 12021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 21092 COMPUTER PRACTICUM (ELR) 2 Credit Hours
(Repeatable for credit) Supervised work experience in a computer installation.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MATH 22005 ANALYTIC GEOMETRY AND CALCULUS III 4 Credit Hours
Study of functions of several variables, including partial derivatives and multiple integrals.
Prerequisite: MATH 12003 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Mathematics

MATH 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE 3 Credit Hours
(Cross-listed with CS 23022) Discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling. Specific topics include propositional and predicate logic and logical modeling using Boolean algebra and logical gates, information representation using binary system, sets, functions, relations, logical argumentation, proof techniques, recursion and recursive modeling, sequences and summation, arithmetic and geometric progressions, algorithms, iterative vs recursive algorithms, mathematical and structural induction, recursive structures, counting, permutation and combination, binomial expansion, matrices and matrix-operations, graphs and trees and their traversal, probability and Bayes' theorem, finite state machines, their modeling and applications, Regular grammar, basics of number theory, modeling computation and Turing machines, decidability and halting problem.
Prerequisite: Minimum C grade in MATH 11009 or MATH 11010 or MATH 11022, or ALEKS score of 78.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 30011 BASIC PROBABILITY AND STATISTICS 3 Credit Hours
Analysis and representation of data. Controlled experiments and observations. Measurement errors. Correlation and regression. Sampling. Probability models and tests of models. Inference. This course cannot be used to meet the mathematics requirements for a BA in Mathematics or a BS in Applied Mathematics or Mathematics.
Prerequisite: Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010; or any course MATH 11012 to MATH 12022; or any course MATH 20000 to MATH 49999.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 30055 MATHEMATICAL THEORY OF INTEREST 3 Credit Hours
A calculus-based introduction to the mathematics of finance. Limited to deterministic analysis of interest rates annuities bonds and immunization. Emphasizes the mathematical theory of the subject matter.
Prerequisite: MATH 12003 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 31011 PROOFS IN DISCRETE MATHEMATICS 3 Credit Hours
The study of discrete mathematical structures including sets, functions and relations. The course includes an introduction to logical thinking with an emphasis on proof techniques. The course may include topics in number theory, graph theory and combinatoric.
Prerequisite: MATH 12002 with a minimum C grade.
Pre/corequisite: Minimum C grade in the following courses: MATH 21001 or MATH 21002 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 32044 ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours
An introduction to ordinary differential equations and applications. Topics include solution methods, series solutions, singular points, Laplace transforms and linear systems. Applications include population dynamics, forced oscillations and resonance.
Prerequisite: Minimum C grade in the following courses: MATH 12003 or MATH 12013; and MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Mathematics

MATH 32051 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I 4 Credit Hours
Mathematics background beyond calculus I and II for upper-division courses in the physical sciences. Topics include complex numbers and arithmetic, linear algebra, partial differentiation and multiple integrals.
Prerequisite: MATH 12003 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 32052 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II 4 Credit Hours
Additional mathematics background for upper-division courses in the physical sciences. Topics include vector analysis, Fourier series and transforms ordinary differential equations and partial differential equations.
Prerequisite: MATH 32051 with a minimum C grade; or MATH 21001 and MATH 22005 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 34001 FUNDAMENTAL CONCEPTS OF ALGEBRA 3 Credit Hours
Professionalized course in algebra for prospective secondary teachers. Postulational development of number system of algebra; other systems, related topics, applications. This course cannot be used to meet the mathematical requirements for a BA in Mathematics or a BS in either Applied Mathematics or Mathematics. No credit earned toward a degree for this course if a student already earned credit for MATH 41001.
Prerequisite: MATH 12002 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 34002 FUNDAMENTAL CONCEPTS OF GEOMETRY 3 Credit Hours
Professionalized course in geometry for secondary school teachers. Origin and development of the geometry of Euclid with modern refinements, topics, approaches. Other geometries, applications. This cannot be used to meet the mathematics requirement for a BA in Mathematics or a BS in either Applied Mathematics or Mathematics.
Prerequisite: MATH 12002 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 38001 HANDS-ON MATHEMATICS 3 Credit Hours
Students take turns learning a topic and then teach that topic to the class. No text is required; the students use web resources and materials supplied by the instructor. Many of the topics have a hands-on component. Some examples are two- and three-dimensional tiling problems, the Towers of Hanoi and other problems with an inductive solution, and 'magic tricks' with a basis in algebra, parity or modular arithmetic.
Prerequisite: MATH 12003 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40011 PROBABILITY THEORY AND APPLICATIONS 3 Credit Hours
(Slashed with MATH 50011) Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems.
Prerequisite: MATH 22005 or MATH 32051 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40012 THEORY OF STATISTICS (WIC) 3 Credit Hours
(Slashed with MATH 50012) Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods.
Prerequisite: MATH 40011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MATH 40015 APPLIED STATISTICS 3 Credit Hours
(Slashed with MATH 50015) Course is based on classical linear regression techniques with an emphasis on real data using the principles of sound data analysis. Close attention is given to issues of interpretation, diagnostics, outliers and influential points, goodness of fit and model selection. Topics include simple and multiple linear regression, transformation and modifications of covariates and responses, design matrices, variable selection and logistic regression. Students with statistics courses from other disciplines should consult with the Department of Mathematical Sciences for possible prerequisite overrides.
Prerequisite: MATH 21001 or MATH 21002 with a minimum C grade; and MATH 12022 with a minimum B grade or MATH 20011 with a minimum C grade or MATH 30011 with a minimum B grade or MATH 40012 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40024 COMPUTATIONAL STATISTICS 3 Credit Hours
(Slashed with MATH 50024) This course is about the use of computational tools to manage, explore, summarize and visualize data, as well as the computational underpinnings of fitting statistical models. It uses mostly the statistical computation language R, but also other languages like Python and Matlab. It also covers: simulation and random number generation, computationally intensive methods like the bootstrap and permutation tests, Expectation-Maximization and related algorithms and dimensionality reduction via matrix decomposition. Students with statistics courses from other disciplines should consult with the Department of Mathematical Sciences for possible prerequisite overrides.
Prerequisite: MATH 21001 or MATH 21002 with a minimum C grade; and MATH 12022 with a minimum B grade or MATH 20011 with a minimum C grade or MATH 30011 with a minimum B grade or MATH 40012 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40028 STATISTICAL LEARNING 3 Credit Hours
(Slashed with MATH 50028) This course is about the statistical foundations of modern machine learning techniques. The main focus is classification and prediction using regression-based, tree-based and kernel-based methods. Specific methods include logistic regression, classification and regression trees, random forests and support vector machines. The course also includes an introduction to unsupervised and semi-supervised learning.
Prerequisite: MATH 40015 and MATH 40024 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES 3 Credit Hours
(Slashed with MATH 50051) Topics from conditional expectations, Markov chains, Markov processes, Brownian motion and Martingales and their applications to stochastic calculus.
Prerequisite: MATH 40011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40055 ACTUARIAL MATHEMATICS I (ELR) (WIC) 4 Credit Hours
(Slashed with MATH 50055) Topics from survival models, stochastic analysis of annuities and life insurance and casualty models. .
Prerequisite: MATH 30055 and MATH 40011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 40056 ACTUARIAL MATHEMATICS II 4 Credit Hours
(Slashed with MATH 50056) Benefit premiums, benefit reserves and their analysis, decrement models, joint survivorship, risk models.
Prerequisite: MATH 40055 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 40059 STOCHASTIC ACTUARIAL MODELS 3 Credit Hours
(Slashed with MATH 50059) Topics from investment risk, mean variance analysis, CAPM, financial derivatives, binomial pricing model, stochastic calculus, Black-Scholes pricing model and Greeks.
Prerequisite: MATH 40011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 40093 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-6 Credit Hours
(Repeatable for credit) Studies special topics in mathematics. Not acceptable for credit toward a major or minor in math without approval of student's adviser.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 41001 MODERN ALGEBRA I (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 51001) Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms.
Prerequisite: MATH 22005 or MATH 32051 with a minimum C grade; and MATH 31011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 41002 MODERN ALGEBRA II (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 51002) A continuation of MATH 41001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructability.
Prerequisite: Minimum C grade in MATH 41001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 41021 THEORY OF MATRICES 3 Credit Hours
(Slashed with MATH 51021) A rigorous study of the topics introduced in matrix algebra. Topics included are vector space preliminaries, canonical forms of matrices, diagonalizability criteria.
Prerequisite: MATH 21001 and MATH 22005 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 41038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with CS 41038 and PHIL 41038)(Slashed with MATH 51038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics.
Prerequisite: Actuarial Mathematics major or Applied Mathematics major or Applied Mathematics minor or Applied Statistics minor or Mathematics major or Mathematics minor; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42001 ANALYSIS I (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 52001) Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers, continuity, differentiation and Riemann integration.
Prerequisite: MATH 22005 or MATH 32051 with a minimum C grade; and MATH 31011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 42002 ANALYSIS II (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 52002) Topics include further development of integration theory, infinite series, uniform convergence, several variable calculus and metric spaces.
Prerequisite: MATH 42001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 42011 MATHEMATICAL OPTIMIZATION 3 Credit Hours
(Slashed with MATH 52011) Analytic and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered.
Prerequisite: Minimum C grade in MATH 21001 and MATH 22005 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42021 GRAPH THEORY AND COMBINATORICS 3 Credit Hours
(Slashed with MATH 52021) Fundamentals and applications of combinatorial mathematics. Topics include traversability, colorability, networks, inclusion and exclusion, matching and designs.
Prerequisite: Minimum C grade in MATH 12003 or MATH 12013; and MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42024 NUMBERS AND GAMES 3 Credit Hours
(Slashed with MATH 52024) The study of partisan and impartial combinatorial games, games as numbers and Grundy-Sprague theory.
Prerequisite: Minimum C grade in MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS 3 Credit Hours
(Slashed with MATH 52031) Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization, dynamical systems and probability are developed and applied. Modern software tools are utilized.
Prerequisite: Minimum C grade in the following courses: MATH 22005 and MATH 32044; or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42039 MODELING PROJECTS (ELR) (WIC) 3 Credit Hours
(Slashed with MATH 52039) Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports are required.
Prerequisite: MATH 42031 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement, Writing Intensive Course

MATH 42041 ADVANCED CALCULUS 3 Credit Hours
(Slashed with MATH 52041) The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus. Applications to field theories, electricity and magnetism and fluid flow.
Prerequisite: MATH 21001 with a minimum C grade; and MATH 22005 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42045 PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 52045) An introduction to Fourier series, Fourier transforms and partial differential equations. Wave, heat and potential equations of mathematical physics. Additional topics include Green's functions and the method of characteristics for wave equations.
Prerequisite: Minimum C grade in the following courses: MATH 22005 and MATH 32044; or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42048 COMPLEX VARIABLES 3 Credit Hours
(Slashed with MATH 52048) Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications.
Prerequisite: MATH 22005 or MATH 32051 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42201 NUMERICAL LINEAR ALGEBRA 3 Credit Hours
(Cross-listed with CS 42201)(Slashed with CS 52201 and MATH 52201) Fundamentals of numerical linear algebra; solving linear systems; QR factorization and least squares; iterative methods for eigenvalue problems.
Prerequisite: Minimum C grade in the following courses: CS 13001 or (CS 13011 and CS 13012); and MATH 12003 or MATH 12013; and MATH 21001 or MATH 21002 or MATH 32051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 42202 NUMERICAL APPROXIMATION AND OPTIMIZATION 3 Credit Hours
(Cross-listed with CS 42202)(Slashed with CS 52202 and MATH 52202) This course introduces numerical methods for solving nonlinear equations, optimizing functions, performing interpolation, computing differentiation and integration and solving differential equations.
Prerequisite: Minimum C grade in the following courses: (MATH 22005 and MATH 32044) or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 45011 DIFFERENTIAL GEOMETRY 3 Credit Hours
(Slashed with MATH 55011) Analytic and metric differential geometry of curves and surfaces.
Prerequisite: MATH 22005 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 45021 EUCLIDEAN GEOMETRY 3 Credit Hours
(Slashed with MATH 55021) Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: cross-ratio, groups, constructions, geometric generalizations and inversion.
Prerequisite: Minimum C grade in MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 45022 LINEAR GEOMETRY 3 Credit Hours
(Slashed with MATH 55022) Use of transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry.
Prerequisite: Minimum C grade in MATH 21001 or MATH 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 46001 ELEMENTARY TOPOLOGY 3 Credit Hours
(Slashed with MATH 56001) Metric spaces, introduction to topological spaces, separation axioms.
Prerequisite: MATH 22005 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 47011 THEORY OF NUMBERS 3 Credit Hours
(Slashed with MATH 57011) Divisibility properties of the integers, prime numbers, congruences, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions and rational approximations.
Prerequisite: Minimum C grade in MATH 12003 or MATH 12013.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 47021 HISTORY OF MATHEMATICS 3 Credit Hours
(Slashed with MATH 57021) Survey from Babylonian and Egyptian mathematics to 20th century mathematics with emphasis on the development of algebra, geometry, calculus, number theory.
Prerequisite: MATH 23022 or higher with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 49992 INTERNSHIP IN MATHEMATICS (ELR) 1-3 Credit Hours
Supervised work experience and training in the mathematical sciences. Since this work will be outside the department a report and final presentation will be required.
Prerequisite: Special Approval.
Schedule Type: Practical Experience
Contact Hours: 0 lecture, 0 lab, 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MATH 49995 SELECTED TOPICS IN MATHEMATICS AND ITS APPLICATIONS 1-4 Credit Hours
(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

MATH 49996 INDIVIDUAL STUDY 1-4 Credit Hours
(Repeatable for credit) Individual investigation in mathematics.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MATH 49998 RESEARCH (ELR) 1-15 Credit Hours
(Repeatable for credit) Research in mathematics.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MATH 50011 PROBABILITY THEORY AND APPLICATIONS 3 Credit Hours
(Slashed with MATH 40011) Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50012 THEORY OF STATISTICS 3 Credit Hours
(Slashed with MATH 40012) Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods.
Prerequisite: MATH 40011 or MATH 50011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50015 APPLIED STATISTICS 3 Credit Hours
(Slashed with MATH 40015) Course is based on classical linear regression techniques with an emphasis on real data using the principles of sound data analysis. Close attention is given to issues of interpretation, diagnostics, outliers and influential points, goodness of fit and model selection. Topics include simple and multiple linear regression, transformation and modifications of covariates and responses, design matrices, variable selection and logistic regression.
Prerequisite: Applied Mathematics major or Data Science major or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50024 COMPUTATIONAL STATISTICS 3 Credit Hours
(Slashed with MATH 40024) This course is about the use of computational tools to manage, explore, summarize and visualize data, as well as the computational underpinnings of fitting statistical models. It uses mostly the statistical computation language R, but also other languages like Python and Matlab. It also covers: simulation and random number generation, computationally intensive methods like the bootstrap and permutation tests, Expectation-Maximization and related algorithms and dimensionality reduction via matrix decomposition.
Prerequisite: Applied Mathematics major or Data Science major or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50028 STATISTICAL LEARNING 3 Credit Hours
(Slashed with MATH 40028) This course is about the statistical foundations of modern machine learning techniques. The main focus is classification and prediction using regression-based, tree-based and kernel-based methods. Specific methods include logistic regression, classification and regression trees, random forests and support vector machines. The course also includes an introduction to unsupervised and semi-supervised learning.
Prerequisite: MATH 40015 or MATH 50015; and MATH 40024 or MATH 50024; and Applied Mathematics major or Data Science major or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES 3 Credit Hours
(Slashed with MATH 40051) Topics from conditional expectations, Markov chains, Markov processes, Brownian Motion and Martingales and their applications to stochastic calculus.
Prerequisite: MATH 50011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 50055 ACTUARIAL MATHEMATICS I 4 Credit Hours
(Slashed with MATH 40055) Topics from survival models, stochastic analysis of annuities and life insurance and casualty models.
Prerequisite: MATH 30055 and MATH 50011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 50056 ACTUARIAL MATHEMATICS II 4 Credit Hours
(Slashed with MATH 40056) Benefit premiums, benefit reserves and their analysis; decrement models, joint survivorship, risk models.
Prerequisite: MATH 50055; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 50059 STOCHASTIC ACTUARIAL MODELS 3 Credit Hours
(Slashed with MATH 40059) Topics from investment risk, mean variance analysis, CAPM, financial derivatives, binomial pricing model, stochastic calculus, Black-Scholes pricing model and Greeks.
Prerequisite: MATH 40011 or MATH 50011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 51001 MODERN ALGEBRA I 3 Credit Hours
(Slashed with MATH 41001) Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms.
Prerequisite: MATH 21001 and MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 51002 MODERN ALGEBRA II 3 Credit Hours
(Slashed with MATH 41002) A continuation of MATH 51001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructibility.
Prerequisite: MATH 41001 or MATH 51001; and applied mathematics or pure mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 51021 THEORY OF MATRICES 3 Credit Hours
(Slashed with MATH 41021) A rigorous study of the topics introduced in matrix algebra. Topics included are: canonical forms of matrices, diagonalizability criteria.
Prerequisite: MATH 21001 and MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 51038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with PHIL 51038)(Slashed with CS 41038, MATH 41038 and PHIL 41038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52001 ANALYSIS I 3 Credit Hours
(Slashed with MATH 42001) Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers ,continuity, differentiation and Riemann integration.
Prerequisite: Applied mathematics or pure mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52002 ANALYSIS II 3 Credit Hours
(Slashed with MATH 42002) Topics include further development of integration theory infinite series, uniform convergence, several variable calculus and metric spaces.
Prerequisite: MATH 42001 or MATH 52001; and applied mathematics or pure mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52011 MATHEMATICAL OPTIMIZATION 3 Credit Hours
(Slashed with MATH 42011) Analytical and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered.
Prerequisite: MATH 21001 and MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52021 GRAPH THEORY AND COMBINATORICS 3 Credit Hours
(Slashed with MATH 42021) Fundamentals and applications of combinatorial mathematics. Topics include transversability, colorability, networks, inclusion and exclusion, matching and designs.
Prerequisite: MATH 12003 and MATH 21001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52024 NUMBERS AND GAMES 3 Credit Hours
(Slashed with MATH 42024) The study of partisan and impartial combinatorial games, games as numbers and Grundy-Sprague theory.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS 3 Credit Hours
(Slashed with MATH 42031) Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization, dynamical systems and probability are developed and applied. Modern software tools are utilized.
Prerequisite: MATH 32044; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52039 MODELING PROJECTS 3 Credit Hours
(Slashed with MATH 42039) Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports required.
Prerequisite: MATH 52031 with a minimum C grade; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MATH 52041 ADVANCED CALCULUS 3 Credit Hours
(Slashed with MATH 42041) The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus. Applications to field theories, electricity and magnetism and fluid flow.
Prerequisite: MATH 21001 and MATH 22005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52045 PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 42045) An introduction to Fourier series, Fourier transforms and partial differential equations. Wave, heat and potential equations of mathematical physics. Additional topics include Green's functions and the method of characteristics for wave equations.
Prerequisite: Applied Mathematics or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52048 COMPLEX VARIABLES 3 Credit Hours
(Slashed with MATH 42048) Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications.
Prerequisite: Applied mathematics or pure mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52201 NUMERICAL LINEAR ALGEBRA 3 Credit Hours
(Cross-listed with CS 52201)(Slashed with CS 42201 and MATH 42201) Fundamentals of numerical linear algebra; solving linear systems; QR factorization and least squares; iterative methods for eigenvalue problems.
Prerequisite: Applied Mathematics or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 52202 NUMERICAL APPROXIMATION AND OPTIMIZATION 3 Credit Hours
(Cross-listed with CS 52202)(Slashed with CS 42202 and MATH 42202) This course introduces numerical methods for solving nonlinear equations, optimizing functions, performing interpolation, computing differentiation and integration and solving differential equations.
Prerequisite: Applied Mathematics or Pure Mathematics major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 55011 DIFFERENTIAL GEOMETRY 3 Credit Hours
(Slashed with MATH 45011) Analytic and metric differential geometry of curves and surfaces.
Prerequisite: MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 55021 EUCLIDEAN GEOMETRY 3 Credit Hours
(Slashed with MATH 45021) Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: cross-ratio, groups, constructions, geometric generalizations and inversion.
Prerequisite: MATH 21001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 55022 LINEAR GEOMETRY 3 Credit Hours
(Slashed with MATH 45022) Use of transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry.
Prerequisite: MATH 21001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 56001 ELEMENTARY TOPOLOGY 3 Credit Hours
(Slashed with MATH 46001) Metric spaces, introduction to topological spaces, separation axioms.
Prerequisite: MATH 22005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 57011 THEORY OF NUMBERS 3 Credit Hours
(Slashed with MATH 47011) Divisibility properties of the integers, prime numbers, congruences, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions and rational approximations.
Prerequisite: MATH 12003; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 57021 HISTORY OF MATHEMATICS 3 Credit Hours
(Slashed with MATH 47021) Survey from Babylonian and Egyptian mathematics to 20th-century mathematics with emphasis on the development of algebra, geometry, calculus, number theory.
Prerequisite: One course MATH 23022 or higher; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 57095 SPECIAL TOPICS: MATHEMATICS AND ITS APPLICATIONS 1-3 Credit Hours
(Repeatable for credit) Offered periodically with different topics and different faculty involved.
Prerequisite: Graduate standing or special approval.
Schedule Type: Lecture
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 59893 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-6 Credit Hours
(Repeatable for credit) Studies in special topics in pure and applied mathematics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 60051 PROBABILITY I 4 Credit Hours
(Slashed with MATH 70051) Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers.
Prerequisite: MATH 40011 or MATH 42002 or MATH 50011 or MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 60052 PROBABILITY II 3 Credit Hours
(Slashed with MATH 70052) Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion.
Prerequisite: MATH 60051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 60061 MATHEMATICAL STATISTICS I 4 Credit Hours
(Slashed with MATH 70061) Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems.
Prerequisite: MATH 42002 or MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 60062 MATHEMATICAL STATISTICS II 3 Credit Hours
(Slashed with MATH 70062) Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Non-parametric procedures.
Prerequisite: MATH 60061; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 60070 FINANCIAL MATHEMATICS 3 Credit Hours
(Slashed with MATH 70070) Topics from replication of trading strategies, arbitrage, completeness, Martingale representation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing.
Prerequisite: MATH 50051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 60091 SEMINAR IN STATISTICS AND PROBABILITY 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in statistics and probability.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 60093 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-3 Credit Hours
(Repeatable for credit) Studies of special topics in mathematics. Not acceptable for credit toward a graduate degree in mathematics without approval of the student's adviser.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 60194 COLLEGE TEACHING OF MATHEMATICS--LAB 1 Credit Hour
Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 0 lecture, 2 lab, 0 other
Grade Mode: Standard Letter

MATH 61051 ABSTRACT ALGEBRA I 4 Credit Hours
(Slashed with MATH 71051) Advanced topics in group theory including Sylow Theorems, finite Abelian groups, divisible groups and related concepts. Includes one hour problem session each week.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 61052 ABSTRACT ALGEBRA II 3 Credit Hours
(Slashed with MATH 71052) Advanced topics, commutative ring theory and field theory, including polynomial rings, unique factorization domains, matrix rings, Galois theory.
Prerequisite: MATH 61051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 61091 SEMINAR IN ALGEBRA 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in algebra.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 62041 METHODS OF APPLIED MATHEMATICS I 3 Credit Hours
(Slashed with MATH 72041) Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations).
Prerequisite: MATH 51021 and MATH 52041 and MATH 52045 and MATH 52048; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62042 METHODS OF APPLIED MATHEMATICS II 3 Credit Hours
(Slashed with MATH 72042) Continuation of MATH 62041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation).
Prerequisite: MATH 62041; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62051 FUNCTIONS OF A REAL VARIABLE I 4 Credit Hours
(Slashed with MATH 72051) Introduction to modern concepts of real analysis, including metric spaces, measure and integration theory.
Prerequisite: MATH 42002 or MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 62052 FUNCTIONS OF A REAL VARIABLE II 3 Credit Hours
(Slashed with MATH 72052) A continuation of MATH 62051. Included are basic topics in functional analysis and Hilbert space theory.
Prerequisite: MATH 62051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62151 FUNCTIONS OF A COMPLEX VARIABLE I 4 Credit Hours
(Slashed with MATH 72151) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.
Prerequisite: MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 62152 FUNCTIONS OF A COMPLEX VARIABLE II 3 Credit Hours
(Slashed with MATH 72152) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.
Prerequisite: MATH 62151; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62203 COMPUTATIONAL FINANCE 3 Credit Hours
(Slashed with MATH 72203) Basic numerical methods, (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods), numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs) probabilistic methods.
Prerequisite: MATH 22005 and MATH 21001 and MATH 32044; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62251 NUMERICAL ANALYSIS I 4 Credit Hours
(Slashed with MATH 72251) Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric, spline). Numerical quadrature (Newton-Cotes, Gauss),extrapolation, Romberg integration.
Prerequisite: MATH 42002 or MATH 52002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 62252 NUMERICAL ANALYSIS II 3 Credit Hours
(Slashed with MATH 72252) Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition.
Prerequisite: MATH 41021 or MATH 51021; and MATH 62251 or MATH 72251; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62261 NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 72261) Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementation software and analysis.
Prerequisite: MATH 32044; and MATH 42202 or MATH 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 72262) Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations.
Prerequisite: MATH 42045 or MATH 52045; and MATH 42202 or MATH 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours
(Slashed with MATH 72263) (Cross-listed with CS 62263 and CS 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.
Prerequisite: MATH 41021 or MATH 51021; and MATH 42202 or MATH 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours
(Cross-listed with CS 62264 and CS 72264) (Slashed with MATH 72264) Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software.
Prerequisite: MATH 42041 or MATH 52041; and MATH 42202 or MATH 52202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 62291 SEMINAR IN COMPUTATIONAL AND APPLIED MATHEMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with MATH 72291) Seminar on current research in computational and applied Mathematics
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MATH 62391 SEMINAR IN MEASURE THEORY 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in measure theory.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 62491 SEMINAR IN NONLINEAR ANALYSIS 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in nonlinear analysis.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 64091 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours
(Repeatable for credit) Studies in geometry, algebra, mathematics for junior and senior high school. Mathematics content professionalized for teachers.
Prerequisite: MATH 34001; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MATH 66051 INTRODUCTION TO TOPOLOGY I 4 Credit Hours
(Slashed with MATH 76051) Set theory, topological spaces, continuity, product spaces, quotient spaces, separation axioms, compactness and metrizability.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 67057 ADVANCED CONCEPTS OF GEOMETRY 3 Credit Hours
This course covers advanced topics in Euclidean geometry, including the Ceva's, Menelaus' and nine-point theorems; mass-point geometry; solid geometry; 2D and 3D analytic geometry; conic sections; geometric inequalities; applications of complex numbers in Euclidean geometry; geometric constructions; and combinatorial geometry.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 67067 ADVANCED CONCEPTS OF PROBABILITY AND STATISTICS 3 Credit Hours
This course covers advanced topics in probability and statistics, including core probability topics: probability axioms, discrete and continuous random variables, independence and conditional probability, inequalities and limit theorems; and main statistics topics sample, sample mean and variance, interval estimators, hypothesis tests and linear regression.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 67077 ADVANCED CONCEPTS OF ALGEBRA 3 Credit Hours
This course covers advanced topics in abstract algebra, including basic number theory; divisibility and congruence of integers; examples and properties of rings; polynomial rings; unique factorization and irreducibility of polynomials; quotient rings; finite fields; examples and basic properties of groups; Cayley tables and isomorphisms; subgroups; cosets; and the theorems of Lagrange, Euler and Fermat.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 67091 SEMINAR IN NUMBER THEORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with MATH 77091) Seminar on current research in number theory.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 67095 SELECTED TOPICS IN MATHEMATICS 1-4 Credit Hours
(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

MATH 67098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of "S" is given.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

MATH 67199 THESIS I 2-6 Credit Hours
Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MATH 67299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: MATH 67199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MATH 69099 CAPSTONE PROJECT 2-3 Credit Hours
The course is an integrative experience that brings together all components of the Masters nonthesis graduate program.
Prerequisite: Graduate standing and special approval.
Schedule Type: Project or Capstone
Contact Hours: 0 lecture, 0 lab, 2-3 other
Grade Mode: Standard Letter-IP

MATH 70051 PROBABILITY I 4 Credit Hours
(Slashed with MATH 60051) Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers.
Prerequisite: MATH 40011 or MATH 50011; or MATH 42002 or MATH 52002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 70052 PROBABILITY II 3 Credit Hours
(Slashed with MATH 60052) Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion.
Prerequisite: MATH 60051 or MATH 70051; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 70061 MATHEMATICAL STATISTICS I 4 Credit Hours
(Slashed with MATH 60061) Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems.
Prerequisite: MATH 42002 or MATH 52002.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 70062 MATHEMATICAL STATISTICS II 3 Credit Hours
(Slashed with MATH 60062) Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Non parametric procedures.
Prerequisite: MATH 60061 or MATH 70061; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 70070 FINANCIAL MATHEMATICS 3 Credit Hours
(Slashed with MATH 60070) Topics from replication of trading strategies, arbitrage completeness, Martingale presentation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing.
Prerequisite: MATH 50051; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 70091 SEMINAR IN STATISTICS AND PROBABILITY 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in statistics and probability.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MATH 70094 COLLEGE TEACHING OF MATHEMATICS 1 Credit Hour
(Repeatable for credit) Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MATH 70095 SELECTED TOPICS IN STATISTICS AND PROBABILITY 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 70051, MATH 70052, MATH 70061 and MATH 70062.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 70194 COLLEGE TEACHING OF MATHEMATICS--LAB 1 Credit Hour
Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 0 lecture, 2 lab, 0 other
Grade Mode: Standard Letter

MATH 71001 STRUCTURE OF RINGS AND ALGEBRAS I 3 Credit Hours
Advanced topics in ring theory, including Artinian rings, Noetherian rings, advanced commutative ring theory.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71002 STRUCTURE OF RINGS AND ALGEBRAS II 3 Credit Hours
Advanced topics in ring theory including an introduction to homological algebra. Includes Dedekind domains, regular rings, torsion theory.
Prerequisite: MATH 71001; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71011 ADVANCED GROUP THEORY 3 Credit Hours
Advanced topics in group theory. Topics include permutation arguments, coprime actions, transfer theorems, nonsimplicity criteria. Properties of families of groups: solvable, p solvable, nilpotent, p groups.
Prerequisite: MATH 61051 or MATH 71051; and MATH 61052 or MATH 71052; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71012 CHARACTERS OF FINITE GROUPS 3 Credit Hours
Development of characters of finite groups, their properties, orthogonality relations, integrality conditions. Applications include Burnside's paqb theorem and existence of Frobenius kernels in Frobenius groups.
Prerequisite: MATH 61051 or MATH 71051; and MATH 61052 or MATH 71052; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71051 ABSTRACT ALGEBRA I 4 Credit Hours
(Slashed with MATH 61051) Advanced topics in group theory, including Sylow theorems, finite Abelian groups, divisible groups and related concepts. Includes one-hour problem session each week.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 71052 ABSTRACT ALGEBRA II 3 Credit Hours
(Slashed with MATH 61052) Advanced topics, commutative ring theory and field theory, including polynomial rings, unique factorization, domains, matrix rings, Galois theory.
Prerequisite: MATH 61051 or MATH 71051; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 71091 SEMINAR IN ALGEBRA 1-3 Credit Hours
(Repeatable for credit) (Slashed with MATH 61091) Seminar on current research in algebra.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 71095 SELECTED TOPICS IN ALGEBRA 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 71002, MATH 71051 and MATH 71052.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 72001 FUNCTIONAL ANALYSIS I 3 Credit Hours
A study of principles of linear analysis in the setting of normed linear spaces and topological vector spaces.
Prerequisite: MATH 72052; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72041 METHODS OF APPLIED MATHEMATICS I 3 Credit Hours
(Slashed with MATH 62041) Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations).
Prerequisite: MATH 51021 and MATH 52041 and MATH 52045 and MATH 52048; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72042 METHODS OF APPLIED MATHEMATICS II 3 Credit Hours
(Slashed with MATH 62042) Continuation of MATH 72041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation).
Prerequisite: MATH 62041 or MATH 72041; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72051 FUNCTIONS OF A REAL VARIABLE I 4 Credit Hours
(Slashed with MATH 62051) Introduction to modern concepts of real analysis including metric spaces, measure and integration theory.
Prerequisite: MATH 42002 or MATH 52002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 72052 FUNCTIONS OF A REAL VARIABLE II 3 Credit Hours
(Slashed with MATH 62052). A continuation of MATH 72051. Included are basic topics in functional analysis and Hilbert space theory.
Prerequisite: MATH 62051 or MATH 72051; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72095 SELECTED TOPICS IN REAL ANALYSIS 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72002, MATH 72051 and MATH 72052.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 72151 FUNCTIONS OF A COMPLEX VARIABLE I 4 Credit Hours
(Slashed with MATH 62151) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.
Prerequisite: MATH 52002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 72152 FUNCTIONS OF A COMPLEX VARIABLE II 3 Credit Hours
(Slashed with MATH 62152) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's theorem; Riemann surfaces.
Prerequisite: MATH 72151; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72195 SELECTED TOPICS IN COMPLEX ANALYSIS 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72151 and MATH 72152.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 72203 COMPUTATIONAL FINANCE 3 Credit Hours
(Slashed with MATH 62203) Basic numerical methods, (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods) numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs) probabilistic methods.
Prerequisite: MATH 22005 and MATH 21001 and MATH 32044; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72251 NUMERICAL ANALYSIS I 4 Credit Hours
(Slashed with MATH 62251) Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric spline). Numerical quadrature (Newton-Cotes, Gauss), extrapolation, Romberg integration.
Prerequisite: MATH 42002 or MATH 52002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 72252 NUMERICAL ANALYSIS II 3 Credit Hours
(Slashed with MATH 62252) Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition.
Prerequisite: MATH 41021 or MATH 51021; and MATH 62251 or MATH 72251; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72261 NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 62261) Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementation software and analysis.
Prerequisite: MATH 32044; and MATH 42202 or MATH 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours
(Slashed with MATH 62262) Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations.
Prerequisite: MATH 42045 or MATH 52045; and MATH 42202 or MATH 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours
(Slashed with MATH 62263) (Cross-listed with CS 62263 and CS 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.
Prerequisite: MATH 41021 or MATH 51021; and MATH 42202 or MATH 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours
(Slashed with MATH 62264) (Cross-listed with CS 62264 and CS 72264) Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software.
Prerequisite: MATH 42041 or MATH 52041; and MATH 42202 or MATH 52202; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 72291 SEMINAR IN COMPUTATIONAL AND APPLIED MATHEMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with Math 62291)Seminar on current research in numerical analysis.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 72295 SELECTED TOPICS IN NUMERICAL ANALYSIS 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72251 and MATH 72252.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 72391 SEMINAR IN MEASURE THEORY 1-3 Credit Hours
(Repeatable for credit) Seminar on current research in measure theory.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 72491 SEMINAR IN NONLINEAR ANALYSIS 1-3 Credit Hours
(Repeatable for credit)Seminar on current research in nonlinear analysis.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 76051 INTRODUCTION TO TOPOLOGY I 4 Credit Hours
(Slashed with MATH 66051) Set theory, topological spaces, continuity, product spaces, quotient spaces separation axioms, compactness and metrizability.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

MATH 76095 SELECTED TOPICS IN TOPOLOGY 1-3 Credit Hours
(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 76051.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 77011 ALGEBRAIC NUMBER THEORY 3 Credit Hours
Number fields and Dedekind domains; conjugates, norm and trace, discriminant, integral bases; arithmetic or quadraic and cyclotomic number fields; theory of ideals and class group; Dirichlet's thoerem on units.
Prerequisite: MATH 57011; and MATH 61052 or MATH 71052; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 77012 ANALYTIC NUMBER THEORY 3 Credit Hours
Multiplicative functions and summatory functions, Riemann's Zeta function and the prime number theorem, L-functions and Dirichlet's theorem on primes in artithmetic progressions, asymptotic formula for partitions.
Prerequisite: MATH 57011 and MATH 62151 or MATH 72151.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MATH 77091 SEMINAR IN NUMBER THEORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with MATH 67091) Seminar on current research in number theory.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MATH 77095 SELECTED TOPICS IN MATHEMATICS 1-3 Credit Hours
(Repeatable for credit) Course topic varies with each offering.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 77098 RESEARCH I 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of "S" is given.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

MATH 77195 SELECTED TOPICS IN NUMBER THEORY 1-3 Credit Hours
(Repeatable for credit) Content varies with each offering and complements topics covered in MATH 77011 and MATH 77012.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MATH 77198 RESEARCH II 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of "S" is given.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

MATH 87098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. Credits earned may be applied toward degree if department approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

MATH 87199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Admission to doctoral candidacy; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MATH 87299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: MATH 87199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Actuarial Mathematics - B.S.

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

About This Program

The Bachelor of Science in Actuarial Mathematics program provides a strong foundation in mathematics and statistics, along with specialized coursework in actuarial science to prepare you for a successful career in this growing field. You will learn from experienced faculty, gain hands-on experience through internships and research projects and have opportunities to network with professionals in the industry. Read more...

Contact Information

- **Darci Kracht** | dkracht@kent.edu | 330-672-9093
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Actuaries

- 17.6% much faster than the average
- 27,700 number of jobs
- $111,030 potential earnings

Economists

- 14.1% much faster than the average
- 20,500 number of jobs
- $108,350 potential earnings

Financial and investment analysts, financial risk specialists, and financial specialists, all other

- 5.5% faster than the average
- 487,800 number of jobs
- $83,660 potential earnings

Mathematical science teachers, postsecondary

- 1.3% slower than the average
- 60,100 number of jobs
- $73,650 potential earnings

Insurance underwriters

- -6.2% decline
- 114,700 number of jobs
- $71,790 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency

test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING [1]	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS) [1]	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS) [1]	3
ECON 32050	APPLIED ECONOMETRICS I (ELR)	3
FIN 36053	BUSINESS FINANCE [1]	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
MATH 21001	LINEAR ALGEBRA (min C grade)	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III (min C grade)	4
MATH 30055	MATHEMATICAL THEORY OF INTEREST (min C grade)	3
MATH 31011	PROOFS IN DISCRETE MATHEMATICS	3
MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	3
MATH 40011	PROBABILITY THEORY AND APPLICATIONS (min C grade)	3
MATH 40012	THEORY OF STATISTICS (WIC) [2]	3
MATH 40055	ACTUARIAL MATHEMATICS I (ELR) (WIC) (min C grade) [2]	4
MATH 40056	ACTUARIAL MATHEMATICS II	4
MATH 40059	STOCHASTIC ACTUARIAL MODELS	3
Computer Science Elective, choose from the following:		4
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
Mathematics Electives, choose from the following: [3]		6
MATH 40015	APPLIED STATISTICS	
MATH 40024	COMPUTATIONAL STATISTICS	
MATH 40028	STATISTICAL LEARNING	
MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	
MATH 41021	THEORY OF MATRICES	
MATH 42001	ANALYSIS I (ELR) (WIC) [2]	
MATH 42002	ANALYSIS II (ELR) (WIC) [2]	
MATH 42011	MATHEMATICAL OPTIMIZATION	
MATH 42021	GRAPH THEORY AND COMBINATORICS	
MATH 42031	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS	
MATH 42039	MODELING PROJECTS (ELR) (WIC) [2]	
MATH 42041	ADVANCED CALCULUS	
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS	
MATH 42048	COMPLEX VARIABLES	
MATH 42201	NUMERICAL LINEAR ALGEBRA	
MATH 42202	NUMERICAL APPROXIMATION AND OPTIMIZATION	
MATH 45011	DIFFERENTIAL GEOMETRY	
Allied Area Elective, choose from the following: [3]		3
ACCT 33001	INTERMEDIATE FINANCIAL ACCOUNTING I	
ACCT 33004	INTRODUCTION TO ACCOUNTING SYSTEMS	
ACCT 33010	COST ACCOUNTING	
ACCT 33012	INTERMEDIATE FINANCIAL ACCOUNTING II	
ACCT 43020	ADVANCED FINANCIAL ACCOUNTING	
ACCT 43089	INTERNATIONAL ACCOUNTING EXPERIENCE (DIVG) (ELR)	
BA 34060	OPERATIONS MANAGEMENT	
BSCI 30050	HUMAN GENETICS	
BSCI 40020	BIOLOGY OF AGING	
BUS 30189	INTERNATIONAL BUSINESS EXPERIENCE (DIVG) (ELR)	
BUS 30234	INTERNATIONAL BUSINESS	
CHEM 30105	ANALYTICAL CHEMISTRY I	
CHEM 30106	ANALYTICAL CHEMISTRY II	
CHEM 30301	INORGANIC CHEMISTRY I	
CHEM 40302	INORGANIC CHEMISTRY II	
CHEM 40303	INORGANIC CHEMISTRY III	
CHEM 40555	PHYSICAL CHEMISTRY I	
CHEM 40556	PHYSICAL CHEMISTRY II	
CHEM 40559	NANOMATERIALS	
CIS 34032	DATA AND FILE TECHNOLOGY	
CIS 44043	DATABASE DESIGN AND DATA GOVERNANCE	
CIS 44046	HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION	
CIS 44048	BUILDING SOLUTIONS FOR BUSINESSES (ELR) (WIC) [2]	
CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	
CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	
CS 33211	OPERATING SYSTEMS	
CS 33901	SOFTWARE ENGINEERING	
CS 35101	COMPUTER ORGANIZATION	
CS 35201	COMPUTER COMMUNICATION NETWORKS	
CS 38101	INTRODUCTION TO GAME PROGRAMMING	
CS 43202	SYSTEMS ADMINISTRATION	

CS 43203	SYSTEMS PROGRAMMING
CS 43301	SOFTWARE DEVELOPMENT FOR ROBOTICS
CS 43305	ADVANCED DIGITAL DESIGN
CS 43401	SECURE PROGRAMMING
CS 44001	COMPUTER SCIENCE III - PROGRAMMING PATTERNS
CS 44003	MOBILE APPS IN IOS PROGRAMMING
CS 44105	WEB PROGRAMMING I
CS 44106	WEB PROGRAMMING II
CS 44201	ARTIFICIAL INTELLIGENCE
CS 45203	COMPUTER NETWORK SECURITY
CS 45231	INTERNET ENGINEERING
CS 46101	DESIGN AND ANALYSIS OF ALGORITHMS
CS 47101	COMPUTER GRAPHICS
CS 47205	INFORMATION SECURITY
CS 47206	DATA SECURITY AND PRIVACY
CS 47207	DIGITAL FORENSICS
CS 47221	INTRODUCTION TO CRYPTOLOGY
CS 48101	GAME ENGINE CONCEPTS
ECON 32025	MONEY, CREDIT AND BANKING
ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS
ECON 32041	INTERMEDIATE MACROECONOMIC THEORY AND POLICY
ECON 32051	APPLIED ECONOMETRICS II
ECON 42050	DATA ACQUISITION, PREPARATION AND VISUALIZATION
ECON 42065	PROBLEMS OF MONETARY AND FISCAL POLICY
ECON 42070	GAME THEORY
ECON 42085	PUBLIC ECONOMICS: GOVERNMENT AND POLICY
ECON 42086	ECONOMICS OF HEALTH CARE
ESCI 31080	STRUCTURAL GEOLOGY
ESCI 32066	GEOMORPHOLOGY
ESCI 41025	GENERAL GEOPHYSICS
ESCI 41080	TECTONICS AND OROGENY
ESCI 42030	REMOTE SENSING
ESCI 42035	DATA ANALYSIS IN THE EARTH SCIENCES
FIN 36054	INTERMEDIATE CORPORATE FINANCE
FIN 36059	INTERMEDIATE INVESTMENTS
FIN 36081	PRINCIPLES OF INSURANCE
FIN 36086	ADVANCED FINANCIAL MODELING
FIN 46054	FINANCIAL RISK MANAGEMENT
FIN 46055	ADVANCED DERIVATIVE SECURITIES
FIN 46064	INTERNATIONAL BUSINESS FINANCE
FIN 46067	ADVANCED PORTFOLIO ANALYSIS
FIN 46089	INTERNATIONAL FINANCE EXPERIENCE (DIVG) (ELR)
GEOG 31062	FUNDAMENTALS OF METEOROLOGY
GEOG 31064	CLIMATE AND THE ENVIRONMENT
GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY
GEOG 41065	DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE
GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE
GEOG 49085	WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE
GEOG 49162	CARTOGRAPHY
GEOG 49230	REMOTE SENSING
MATH 40015	APPLIED STATISTICS
MATH 40024	COMPUTATIONAL STATISTICS
MATH 40028	STATISTICAL LEARNING
MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES
MATH 41001	MODERN ALGEBRA I (ELR) (WIC) [2]
MATH 41002	MODERN ALGEBRA II (ELR) (WIC) [2]
MATH 41021	THEORY OF MATRICES
MATH 42001	ANALYSIS I (ELR) (WIC) [2]
MATH 42002	ANALYSIS II (ELR) (WIC) [2]
MATH 42011	MATHEMATICAL OPTIMIZATION
MATH 42021	GRAPH THEORY AND COMBINATORICS
MATH 42031	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS
MATH 42039	MODELING PROJECTS (ELR) (WIC) [2]
MATH 42041	ADVANCED CALCULUS
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS
MATH 42048	COMPLEX VARIABLES
MATH 42201	NUMERICAL LINEAR ALGEBRA
MATH 42202	NUMERICAL APPROXIMATION AND OPTIMIZATION
MATH 45011	DIFFERENTIAL GEOMETRY
MATH 45021	EUCLIDEAN GEOMETRY
MATH 45022	LINEAR GEOMETRY
MATH 46001	ELEMENTARY TOPOLOGY
MATH 47011	THEORY OF NUMBERS
MATH 47021	HISTORY OF MATHEMATICS
MATH 49992	INTERNSHIP IN MATHEMATICS (ELR)
PHIL 41035	PHILOSOPHY OF SCIENCE
PHIL 41038	INTERMEDIATE LOGIC
PHY 34000	COSMOLOGY
PHY 35101	CLASSICAL MECHANICS
PHY 36001	INTRODUCTORY MODERN PHYSICS
PHY 36002	APPLICATIONS OF MODERN PHYSICS
PHY 44802	ASTROPHYSICS
PHY 45201	ELECTROMAGNETIC THEORY
PHY 45301	THERMAL PHYSICS
PHY 45401	MATHEMATICAL METHODS IN PHYSICS
PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES
PHY 45501	ELECTROMAGNETIC WAVES AND MODERN OPTICS
PHY 46101	QUANTUM MECHANICS
PHY 46301	INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS
PHY 46401	INTRODUCTION TO SOLID STATE PHYSICS

Additional Requirements (courses do not count in major GPA)

COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
UC 10001	FLASHES 101	1
Foreign Language Requirement (see Foreign Language College Requirement)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9

Kent Core Social Sciences (must be from two disciplines)	3
Kent Core Basic Sciences (must include one laboratory)	6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	10
Minimum Total Credit Hours:	**120**

1 Students who earn a minimum B- grade in ACCT 23020, ECON 22060, ECON 22061 and FIN 36053 will fulfill the Validation by Educational Experience (VEE) requirements jointly sponsored by the Society of Actuaries, Casualty Actuarial Society and Canadian Institute of Actuaries.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

3 A course may only count for one requirement even though it may appear in more than one course list.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

1 All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

2 The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
UC 10001	FLASHES 101	1
Computer Science Elective		4
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
MATH 21001	LINEAR ALGEBRA	3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Three		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
MATH 30055	MATHEMATICAL THEORY OF INTEREST	3
MATH 31011	PROOFS IN DISCRETE MATHEMATICS	3
Foreign Language		4
	Credit Hours	**17**
Semester Four		
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	3
MATH 40011	PROBABILITY THEORY AND APPLICATIONS	3
Foreign Language		4
Kent Core Requirement		3
	Credit Hours	**16**
Semester Five		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
MATH 40055	ACTUARIAL MATHEMATICS I (ELR) (WIC)	4
Mathematics Elective		3
Kent Core Requirement		3
	Credit Hours	**13**
Semester Six		
FIN 36053	BUSINESS FINANCE	3
MATH 40012	THEORY OF STATISTICS (WIC)	3
MATH 40056	ACTUARIAL MATHEMATICS II	4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Seven		
Allied Area Elective		3
Mathematics Elective		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Eight		
ECON 32050	APPLIED ECONOMETRICS I (ELR)	3
MATH 40059	STOCHASTIC ACTUARIAL MODELS	3
Kent Core Requirement		3
General Electives		4
	Credit Hours	**13**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Reason mathematically by using precise definitions, articulating assumptions and reasoning logically to conclusions.
2. Engage effectively in problem solving by exploring examples, assessing the correctness of solutions and interpreting solutions in an actuarial context.
3. Define, interpret and apply standard actuarial notation, terminology and formulas.
4. Analyze various streams of cash flows, both certain and contingent.
5. Apply methods from probability, statistics and stochastic processes to the solution of problems in actuarial science, finance and economics.
6. Communicate solutions of mathematical problems clearly, both orally and in writing.
7. Employ commonly used computer programming languages and software packages to solve problems in actuarial science, finance and economics.
8. Demonstrate fundamental knowledge of finance, economics and accounting.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Actuarial Mathematics prepares students for the actuarial profession. Actuaries are professionals who manage risk. They predict the likelihood of future events and model the financial impact of future scenarios. They find creative ways to mitigate the undesirable effects of future events. Although most actuaries are employed in the insurance and financial industries, many others work in the transportation, environmental, medical and manufacturing industries, as well as in government.

The Actuarial Mathematics major is highly interdisciplinary, integrating substantial coursework in business, computing and communications with a solid core of mathematics and statistics. Kent State University is one of only four institutions in Ohio to receive the "Universities and Colleges with Actuarial Programs-Advanced Curriculum" designation from the Society of Actuaries. The Kent State program prepares students for the first four of a series of examinations to receive professional certification as an actuary.

Students may apply early to the Master of Arts in Economics degree and double count 9 credit hours of graduate courses toward both degree programs. See the **Combined Bachelor's/Master's Degree Program Policy** in the University Catalog for more information.

Applied Mathematics - B.S.

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

About This Program

Our Bachelor of Science in Applied Mathematics program provides students with a strong foundation in mathematical theory and its application in real-world settings. With experienced faculty, cutting-edge technology and practical experience, you will gain the skills needed

to solve complex problems in a variety of industries, from finance and insurance to science and engineering. Enroll now and unlock endless career possibilities with a degree in applied mathematics. Read more...

Contact Information

- **Xiaoyu Zheng** | xzheng3@kent.edu | 330-672-9089
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

Operations research analysts

- 24.8% much faster than the average
- 105,100 number of jobs
- $86,200 potential earnings

Mathematicians

- 3.0% about as fast as the average
- 2,900 number of jobs
- $110,860 potential earnings

Mathematical science teachers, postsecondary

- 1.3% slower than the average
- 60,100 number of jobs
- $73,650 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) [1]		
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING (min C grade in 13001 or in both 13011 & 13012)	4
or CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY [2]	3
MATH 21001	LINEAR ALGEBRA (min C grade)	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III (min C grade)	4
MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS (min C grade)	3

MATH 40011	PROBABILITY THEORY AND APPLICATIONS (min C grade)	3
MATH 40012	THEORY OF STATISTICS (WIC) [3]	3
MATH 41021	THEORY OF MATRICES	3
MATH 42031	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS (min C grade)	3
MATH 42039	MODELING PROJECTS (ELR) (WIC) [3]	3
MATH 42201	NUMERICAL LINEAR ALGEBRA (min C grade)	3
MATH 42202	NUMERICAL APPROXIMATION AND OPTIMIZATION	3
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Allied Area Electives, choose from the following: [4]		6
BSCI 30050	HUMAN GENETICS	
BSCI 40020	BIOLOGY OF AGING	
CHEM 30105	ANALYTICAL CHEMISTRY I	
CHEM 30106	ANALYTICAL CHEMISTRY II	
CHEM 30301	INORGANIC CHEMISTRY I	
CHEM 40302	INORGANIC CHEMISTRY II	
CHEM 40303	INORGANIC CHEMISTRY III	
CHEM 40555	PHYSICAL CHEMISTRY I	
CHEM 40556	PHYSICAL CHEMISTRY II	
CHEM 40559	NANOMATERIALS	
CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	
CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	
CS 33211	OPERATING SYSTEMS	
CS 33901	SOFTWARE ENGINEERING	
CS 35101	COMPUTER ORGANIZATION	
CS 35201	COMPUTER COMMUNICATION NETWORKS	
CS 38101	INTRODUCTION TO GAME PROGRAMMING	
CS 43202	SYSTEMS ADMINISTRATION	
CS 43203	SYSTEMS PROGRAMMING	
CS 43301	SOFTWARE DEVELOPMENT FOR ROBOTICS	
CS 43305	ADVANCED DIGITAL DESIGN	
CS 43401	SECURE PROGRAMMING	
CS 44001	COMPUTER SCIENCE III - PROGRAMMING PATTERNS	
CS 44003	MOBILE APPS IN IOS PROGRAMMING	
CS 44105	WEB PROGRAMMING I	
CS 44106	WEB PROGRAMMING II	
CS 44201	ARTIFICIAL INTELLIGENCE	
CS 45203	COMPUTER NETWORK SECURITY	
CS 45231	INTERNET ENGINEERING	
CS 46101	DESIGN AND ANALYSIS OF ALGORITHMS	
CS 47101	COMPUTER GRAPHICS	
CS 47205	INFORMATION SECURITY	
CS 47206	DATA SECURITY AND PRIVACY	
CS 47207	DIGITAL FORENSICS	
CS 47221	INTRODUCTION TO CRYPTOLOGY	
CS 48101	GAME ENGINE CONCEPTS	
ECON 32025	MONEY, CREDIT AND BANKING	
ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS	
ECON 32041	INTERMEDIATE MACROECONOMIC THEORY AND POLICY	
ECON 32050	APPLIED ECONOMETRICS I (ELR)	
ECON 42050	DATA ACQUISITION, PREPARATION AND VISUALIZATION	
ESCI 31080	STRUCTURAL GEOLOGY	
ESCI 32066	GEOMORPHOLOGY	
ESCI 41025	GENERAL GEOPHYSICS	
ESCI 41080	TECTONICS AND OROGENY	
ESCI 42030	REMOTE SENSING	
ESCI 42035	DATA ANALYSIS IN THE EARTH SCIENCES	
FIN 36054	INTERMEDIATE CORPORATE FINANCE	
FIN 36059	INTERMEDIATE INVESTMENTS	
FIN 46055	ADVANCED DERIVATIVE SECURITIES	
FIN 46064	INTERNATIONAL BUSINESS FINANCE	
FIN 46067	ADVANCED PORTFOLIO ANALYSIS	
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 31064	CLIMATE AND THE ENVIRONMENT	
GEOG 34070	ECONOMIC GEOGRAPHY	
GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY	
GEOG 41065	DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT	
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49085	WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49162	CARTOGRAPHY	
GEOG 49230	REMOTE SENSING	
MATH 30055	MATHEMATICAL THEORY OF INTEREST	
MATH 31011	PROOFS IN DISCRETE MATHEMATICS	
MATH 40028	STATISTICAL LEARNING	
MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	
MATH 40055	ACTUARIAL MATHEMATICS I (ELR) (WIC) [3]	
MATH 40056	ACTUARIAL MATHEMATICS II	
MATH 40059	STOCHASTIC ACTUARIAL MODELS	
MATH 41001	MODERN ALGEBRA I (ELR) (WIC) [3]	
MATH 41002	MODERN ALGEBRA II (ELR) (WIC) [3]	
MATH 42001	ANALYSIS I (ELR) (WIC) [3]	
MATH 42002	ANALYSIS II (ELR) (WIC) [3]	
MATH 42011	MATHEMATICAL OPTIMIZATION	
MATH 42021	GRAPH THEORY AND COMBINATORICS	
MATH 42024	NUMBERS AND GAMES	
MATH 42041	ADVANCED CALCULUS	
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS	
MATH 42048	COMPLEX VARIABLES	
MATH 45011	DIFFERENTIAL GEOMETRY	
MATH 45021	EUCLIDEAN GEOMETRY	
MATH 45022	LINEAR GEOMETRY	
MATH 46001	ELEMENTARY TOPOLOGY	
MATH 47011	THEORY OF NUMBERS	
MATH 47021	HISTORY OF MATHEMATICS	
MATH 49992	INTERNSHIP IN MATHEMATICS (ELR)	
PHIL 41035	PHILOSOPHY OF SCIENCE	
PHIL 41038	INTERMEDIATE LOGIC	
PHY 34000	COSMOLOGY	
PHY 35101	CLASSICAL MECHANICS	
PHY 36001	INTRODUCTORY MODERN PHYSICS	
PHY 36002	APPLICATIONS OF MODERN PHYSICS	

PHY 44802	ASTROPHYSICS	
PHY 45201	ELECTROMAGNETIC THEORY	
PHY 45301	THERMAL PHYSICS	
PHY 45401	MATHEMATICAL METHODS IN PHYSICS	
PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES	
PHY 45501	ELECTROMAGNETIC WAVES AND MODERN OPTICS	
PHY 46101	QUANTUM MECHANICS	
PHY 46301	INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS	
PHY 46401	INTRODUCTION TO SOLID STATE PHYSICS	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		7
Concentrations		
Choose from the following:		19
Applied Mathematics		
Computational Mathematics		
Financial Mathematics		
Probability and Statistics		
Minimum Total Credit Hours:		**120**

1 MATH 30011, MATH 34001 and MATH 34002 cannot be applied toward major requirements.

2 Minimum C grade required for the Computational Mathematics and Probability and Statistics concentrations only.

3 A minimum C grade must be earned to fulfill the writing-intensive requirement.

4 A course may only count for one requirement even though it may appear more than once.

Applied Mathematics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
MATH 42041	ADVANCED CALCULUS	3
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS	3
MATH 42048	COMPLEX VARIABLES	3
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
General Electives		4
Minimum Total Credit Hours:		**19**

Computational Mathematics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
MATH 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
MATH 40024	COMPUTATIONAL STATISTICS	3
MATH 42011	MATHEMATICAL OPTIMIZATION	3
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
Minimum Total Credit Hours:		**19**

Financial Mathematics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
FIN 36053	BUSINESS FINANCE	3
MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	3
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS	3
Additional Requirements (courses do not count in major GPA)		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
General Elective		1
Minimum Total Credit Hours:		**19**

Probability and Statistics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
MATH 40015	APPLIED STATISTICS	3
MATH 40024	COMPUTATIONAL STATISTICS	3
MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	3
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
General Electives		4
Minimum Total Credit Hours:		**19**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- A minimum grade may be required in some courses

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

1 All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary

I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

[2] The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Applied Mathematics Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	CS 13001 or CS 13011 ***and*** CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING ***and*** COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
	MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	MATH 21001	LINEAR ALGEBRA	3
!	MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	MATH 41021	THEORY OF MATRICES	3
	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Five		
!	MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	3
!	MATH 42031 or MATH 42201	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS or NUMERICAL LINEAR ALGEBRA	3
!	MATH 42041 or MATH 42048	ADVANCED CALCULUS or COMPLEX VARIABLES	3
	Allied Area Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
!	MATH 42039 or MATH 42202	MODELING PROJECTS (ELR) (WIC) or NUMERICAL APPROXIMATION AND OPTIMIZATION	3
!	MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS	3
	Allied Area Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Seven		
!	MATH 40011	PROBABILITY THEORY AND APPLICATIONS	3
!	MATH 42031 or MATH 42201	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS or NUMERICAL LINEAR ALGEBRA	3
!	MATH 42041 or MATH 42048	ADVANCED CALCULUS or COMPLEX VARIABLES	3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
!	MATH 40012	THEORY OF STATISTICS (WIC)	3
!	MATH 42039 or MATH 42202	MODELING PROJECTS (ELR) (WIC) or NUMERICAL APPROXIMATION AND OPTIMIZATION	3
	General Electives		8
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

Computational Mathematics Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	CS 13001 or CS 13011 ***and*** CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING ***and*** COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
	CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
	MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
	Foreign Language		4
		Credit Hours	**16**
	Semester Three		
	MATH 21001	LINEAR ALGEBRA	3
!	MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	MATH 41021	THEORY OF MATRICES	3
	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Five		
	MATH 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
!	MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	3
!	MATH 42031 or MATH 42201	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS or NUMERICAL LINEAR ALGEBRA	3
	Allied Area Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	MATH 42011	MATHEMATICAL OPTIMIZATION	3
!	MATH 42039 or MATH 42202	MODELING PROJECTS (ELR) (WIC) or NUMERICAL APPROXIMATION AND OPTIMIZATION	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Seven		
!	MATH 40011	PROBABILITY THEORY AND APPLICATIONS	3
	MATH 40024	COMPUTATIONAL STATISTICS	3
!	MATH 42031 or MATH 42201	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS or NUMERICAL LINEAR ALGEBRA	3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
!	MATH 40012	THEORY OF STATISTICS (WIC)	3
!	MATH 42039 or MATH 42202	MODELING PROJECTS (ELR) (WIC) or NUMERICAL APPROXIMATION AND OPTIMIZATION	3
	Allied Area Elective		3
	General Electives		4
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

Financial Mathematics Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	CS 13001 or CS 13011 ***and*** CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING ***and*** COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
	MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	MATH 21001	LINEAR ALGEBRA	3
!	MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
		Credit Hours	**15**
	Semester Four		
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
	MATH 41021	THEORY OF MATRICES	3
	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Five		
	ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
	MATH 40011	PROBABILITY THEORY AND APPLICATIONS	3
!	MATH 42031 or MATH 42201	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS or NUMERICAL LINEAR ALGEBRA	3

	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	FIN 36053	BUSINESS FINANCE	3
	MATH 40012	THEORY OF STATISTICS (WIC)	3
!	MATH 42039 or MATH 42202	MODELING PROJECTS (ELR) (WIC) or NUMERICAL APPROXIMATION AND OPTIMIZATION	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Seven		
	MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	3
	MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	3
!	MATH 42031 or MATH 42201	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS or NUMERICAL LINEAR ALGEBRA	3
	Allied Area Elective		3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
!	MATH 42039 or MATH 42202	MODELING PROJECTS (ELR) (WIC) or NUMERICAL APPROXIMATION AND OPTIMIZATION	3
	MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS	3
	Allied Area Elective		3
	General Electives		5
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

Probability and Statistics Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	CS 13001 or CS 13011 ***and*** CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING ***and*** COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
	MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	MATH 21001	LINEAR ALGEBRA	3
!	MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	MATH 41021	THEORY OF MATRICES	3
	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Five		
!	MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	3
	MATH 40011	PROBABILITY THEORY AND APPLICATIONS	3
!	MATH 42031 or MATH 42201	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS or NUMERICAL LINEAR ALGEBRA	3
	Allied Area Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	MATH 40012	THEORY OF STATISTICS (WIC)	3
!	MATH 42039 or MATH 42202	MODELING PROJECTS (ELR) (WIC) or NUMERICAL APPROXIMATION AND OPTIMIZATION	3
	Allied Area Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Seven		
	MATH 40024	COMPUTATIONAL STATISTICS	3
	MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	3
!	MATH 42031 or MATH 42201	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS or NUMERICAL LINEAR ALGEBRA	3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
	MATH 40015	APPLIED STATISTICS	3
!	MATH 42039 or MATH 42202	MODELING PROJECTS (ELR) (WIC) or NUMERICAL APPROXIMATION AND OPTIMIZATION	3
	General Electives		8
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses

Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Recognize problems with mathematical solutions from across disciplines.
2. Use precision and logical rigor to make both concrete and abstract conclusions.
3. Communicate and interact appropriately with different audiences.
4. Collaborate with others across disciplines in diverse contexts.
5. Use mathematical concepts and techniques in practical and applied problems.
6. Use technology to implement mathematical theory in applied contexts.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Applied Mathematics emphasizes the tools most useful in science, engineering and technology applications: mathematical modeling, scientific computing and probability and statistics.

The Applied Mathematics major comprises the following concentrations:

- The **Applied Mathematics** concentration emphasizes the classical aspects of the discipline, which are rooted in mathematical modeling and applications in the sciences. It couples well with the Physics minor or major.
- The **Computational Mathematics** concentration is designed for students with interests in numerical modeling and scientific computing. It pairs well with the Computer Science minor or major.
- The **Financial Mathematics** concentration prepares students for graduate programs in mathematical or computational finance or financial engineering.
- The **Probability and Statistics** concentration emphasizes the mathematics underlying processes that involve randomness and the mathematical tools used in the analysis of data.

Students may apply early to the following master's degree programs and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

- Master of Arts in Economics degree
- Master of Science degree in Applied Mathematics

Applied Mathematics - M.A.

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

About This Program

The Master of Arts degree in Applied Mathematics is emphasizes areas relevant to mathematical applications in the sciences, including engineering, biological, financial and physical sciences. There is no thesis requirement or option.

Students in the Ph.D. degree in Applied Mathematics can apply for this M.A. degree after completing the requisite number of credit hours.

Contact Information

- **Artem Zvavitch** | azvavitc@kent.edu | 330-672-3316

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Mathematical science teachers, postsecondary

- 1.3% slower than the average
- 60,100 number of jobs
- $73,650 potential earnings

Mathematicians

- 3.0% about as fast as the average
- 2,900 number of jobs
- $110,860 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university[1]
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or vita
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] Applicants are not required to have an undergraduate degree in applied mathematics; however, they are expected to have proficiency in numerical analysis and statistics at the level of MATH 40012 and MATH 42202. They are also expected to have taken computer science coursework equivalent to CS 13001. Those who do not meet these specific requirements may be granted conditional admission by the Graduate Studies Committee.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 1
- **Spring Semester**
  - Application deadline: October 1
- **Summer Term**
  - Application deadline: March 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements [1]		
Mathematics (MATH) Graduate Electives (50000 or 60000 level) [2]		12
Mathematics (MATH) Graduate Electives (60000 level) [3]		6-7
Choose two sequences from the following:		13-14
MATH 60051 & MATH 60052	PROBABILITY I and PROBABILITY II	
MATH 60061 & MATH 60062	MATHEMATICAL STATISTICS I and MATHEMATICAL STATISTICS II	
MATH 62041 & MATH 62042	METHODS OF APPLIED MATHEMATICS I and METHODS OF APPLIED MATHEMATICS II	
MATH 62251 & MATH 62252	NUMERICAL ANALYSIS I and NUMERICAL ANALYSIS II	
Minimum Total Credit Hours:		**32**

[1] A detailed plan of study should be submitted for advisor approval before the first 16 credit hours of graduate credit have been completed.

[2] With permission of the advisor, maximum 12 credit hours of 50000-level mathematics (MATH) courses may be applied toward the total required for the degree. Candidates who do not have an undergraduate degree in applied mathematics should include MATH 52031 and MATH 52045 in their program.

[3] Minimum 20 credit hours must be at the 60000 level or above (includes required MATH courses). Maximum 3 credit hours of MATH 67199 may be counted toward the 20 credit hours.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Degree candidates must pass the departmental qualifying examination at the master's level in numerical analysis, probability or statistics, in addition to one additional area chosen from among the areas listed for master's degree programs.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
2. Reason in mathematical arguments at a level appropriate to the discipline, including posing problems precisely, articulating assumptions and reasoning logically to conclusions.
3. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
4. Communicate mathematics clearly both orally and in writing.
5. Teach university-level mathematics effectively.
6. Obtain depth in some subdiscipline of applied mathematics.

Applied Mathematics - M.S.

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

About This Program

The Master of Science degree in Applied Mathematics is primarily a terminal, pre-professional degree comprising coursework beyond the bachelor's degree emphasizing areas relevant to applications in the sciences and including the engineering, biological, financial and physical sciences. Students are required to write and defend a thesis in an area agreed upon with a faculty advisor.

Contact Information

- **Artem Zvavitch** | azvavitc@kent.edu | 330-672-3316
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Mathematical science teachers, postsecondary

- 1.3% slower than the average
- 60,100 number of jobs
- $73,650 potential earnings

Mathematicians

- 3.0% about as fast as the average
- 2,900 number of jobs
- $110,860 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university[1]
- Minimum 2.750 undergraduate GPA on a 4.000 point scale
- Official transcript(s)
- Goal statement
- Résumé or vita
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]

- Minimum 71 TOEFL iBT score
- Minimum 6.0 IELTS score
- Minimum 50 PTE score
- Minimum 100 DET score

[1] Applicants are not required to have an undergraduate degree in applied mathematics; however, they are expected to have proficiency in numerical analysis and statistics at the level of MATH 40012 and MATH 42202. They are also expected to have taken computer science coursework equivalent to CS 13001. Those who do not meet these specific requirements may be granted conditional admission by the Graduate Studies Committee.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 1
- **Spring Semester**
  - Application deadline: October 1
- **Summer Term**
  - Application deadline: March 1

Applications submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements [1]		
Mathematics (MATH) Graduate Electives (50000 or 60000 level) [2]		12-13
Choose two sequences from the following:		13-14
MATH 60051 & MATH 60052	PROBABILITY I and PROBABILITY II	
MATH 60061 & MATH 60062	MATHEMATICAL STATISTICS I and MATHEMATICAL STATISTICS II	
MATH 62041 & MATH 62042	METHODS OF APPLIED MATHEMATICS I and METHODS OF APPLIED MATHEMATICS II	
MATH 62251 & MATH 62252	NUMERICAL ANALYSIS I and NUMERICAL ANALYSIS II	
Culminating Requirement		
MATH 67199	THESIS I [3]	6
Minimum Total Credit Hours:		**32**

[1] A detailed plan of study should be submitted for advisor approval before the first 16 credit hours of graduate credit have been completed.

[2] Minimum 20 credit hours of coursework must at the 60000-level or above (includes required MATH courses and thesis) for the degree. With permission of the advisor, students may apply a maximum of 12 credit hours of 50000-level Mathematics (MATH) courses toward the total required for the degree. Candidates who do not have an undergraduate degree in applied mathematics should include MATH 52031 and MATH 52045 in their program.

[3] Candidates for the Master of Science degree must write and defend a thesis in an area agreed upon with their faculty advisor.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
2. Reason in mathematical arguments at a level appropriate to the discipline, including posing problems precisely, articulating assumption and reasoning logically to conclusions.
3. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
4. Communicate mathematics clearly both orally and in writing.
5. Teach university-level mathematics effectively.
6. Obtain depth in some subdiscipline of applied mathematics.

Applied Mathematics - Minor

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

About This Program

The Applied Mathematics minor offers courses in several areas of mathematics that are applicable to sciences and can be combined with science majors.

Contact Information

- **Xiaoyu Zheng** | xzheng3@kent.edu | 330-672-9089
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the

A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Prerequisites		
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES (min C grade)	
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING (min C grade)	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING (min C grade)	
EMAT 25310	CREATIVE CODING (min C grade)	
Minor Requirements		
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	3-5
or MATH 12013	BRIEF CALCULUS II	
Section A or B, choose from the following:		8-10
Selection A		
MATH 21001	LINEAR ALGEBRA (min C grade in either course)	
or MATH 21002	APPLIED LINEAR ALGEBRA	
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III (min C grade)	
MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	
Selection B		
MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I (min C grade)	
MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	
Minor Electives, choose from the following: [1]		6
MATH 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE [2]	
or MATH 31011	PROOFS IN DISCRETE MATHEMATICS	
MATH 40011	PROBABILITY THEORY AND APPLICATIONS	
MATH 40012	THEORY OF STATISTICS (WIC)	
MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	
MATH 41021	THEORY OF MATRICES	
MATH 42011	MATHEMATICAL OPTIMIZATION	
MATH 42031	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS	
MATH 42039	MODELING PROJECTS (ELR) (WIC)	
MATH 42041	ADVANCED CALCULUS	
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS	
MATH 42048	COMPLEX VARIABLES	
MATH 42201	NUMERICAL LINEAR ALGEBRA	
MATH 42202	NUMERICAL APPROXIMATION AND OPTIMIZATION	
Minimum Total Credit Hours:		**22**

[1] Students should select electives in consultation with their minor advisor.

[2] Credit for both MATH 23022 (or its equivalent CS 23022) and MATH 31011 is not permitted toward the minor. Students planning to take Computer Science upper-division courses (CS 30000 or 40000 level) must take MATH 23022.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Formulate, analyze and solve problems using a variety of problem solving strategies.

Applied Mathematics - Ph.D.

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

About This Program

The Ph.D. degree in Applied Mathematics is for those interested in becoming professional scholars, college and university teachers or independent workers in private, industrial or government research institutions. Original research in applied mathematics, is required, and the Ph.D. dissertation must be orally defended. Two years of graduate coursework and three years of research are typical.

Contact Information

- **Artem Zvavitch** | azvavitc@kent.edu | 330-672-3316

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Mathematical science teachers, postsecondary

- 1.3% slower than the average
- 60,100 number of jobs
- $73,650 potential earnings

Mathematicians

- 3.0% about as fast as the average
- 2,900 number of jobs
- $110,860 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or vita
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 1
- **Spring Semester**
  - Application deadline: October 1
- **Summer Term**
  - Application deadline: March 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Mathematics (MATH) Doctoral-Level courses (70000 or 80000 level) [1]		16-47
Mathematics Electives, choose two sequences from the following: [2]		13-14
MATH 70051 & MATH 70052	PROBABILITY I and PROBABILITY II	
MATH 70061 & MATH 70062	MATHEMATICAL STATISTICS I and MATHEMATICAL STATISTICS II	
MATH 72041 & MATH 72042	METHODS OF APPLIED MATHEMATICS I and METHODS OF APPLIED MATHEMATICS II	
MATH 72251 & MATH 72252	NUMERICAL ANALYSIS I and NUMERICAL ANALYSIS II	
Culminating Requirement		
MATH 87199	DISSERTATION I [3]	30
Minimum Total Credit Hours for Post-Baccalaureate Students		**90**
Minimum Total Credit Hours for Post-Master's Students		**60**

[1] A cognate of maximum 10 credit hours may be counted toward the completion of the degree subject to the approval of the student's advisor and the graduate studies committee.

[2] Each student is required to pass the departmental qualifying examination at the doctoral level. Students must choose two out of the four offered qualifying exams: probability, statistics, numerical analysis and methods of applied mathematics.

[3] Each doctoral candidate, upon admission to candidacy, must register for MATH 87199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter MATH 87299, each semester, until all requirements for the degree have been met. It is expected that candidates will present the results of their research in a defense open to students and faculty, at which the dissertation will be presented and defended before the dissertation committee.

Candidacy

This examination will be a comprehensive examination in the field of the major subject, and will be a substantially deeper test than the qualifying examination.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and appreciate connections between mathematics and other disciplines.
2. Be aware of and understand a broad range of mathematical subdisciplines.
3. Obtain a broader and deeper understanding of core applied mathematics subdisciplines, including numerical analysis, probability and mathematical statistics.
4. Obtain a deep understanding of some subdiscipline.
5. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
6. Reason in mathematical arguments at a level appropriate to the discipline, including posing problems precisely, articulating assumptions and reasoning logically to conclusions.
7. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
8. Develop and carry out a research program in applied mathematics.
9. Communicate mathematics clearly both orally and in writing.
10. Teach university-level mathematics effectively.

Applied Statistics - Minor

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

About This Program

The Applied Statistics minor offers courses in several areas of applied and computational statistics.

Contact Information

- **Xiaoyu Zheng** | xzheng3@kent.edu | 330-672-9089
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY (min C grade)	3
MATH 21001	LINEAR ALGEBRA (min C grade in either course)	3
or MATH 21002	APPLIED LINEAR ALGEBRA	
MATH 40015	APPLIED STATISTICS (min C grade)	3
MATH 40024	COMPUTATIONAL STATISTICS (min C grade)	3
MATH 40028	STATISTICAL LEARNING	3
Minimum Total Credit Hours:		**20**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Data Science - M.S.

College of Arts and Sciences
Department of Mathematical Sciences
Department of Computer Science
www.kent.edu/math

About This Program

The Data Science M.S. program provides you with the theoretical knowledge and practical experience needed to succeed in today's data-driven world. With hands-on learning opportunities, experienced faculty and cutting-edge technology, you will be prepared to solve complex data challenges and make an impact in your field. Read more...

Contact Information

- **Hassan Peyravi** | gradinfo@cs.kent.edu | 330-672-9047
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Computer and information research scientists

- 15.4% much faster than the average
- 32,700 number of jobs
- $126,830 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

Computer and information systems managers

- 10.4% much faster than the average
- 461,000 number of jobs
- $151,150 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Database administrators and architects

- 9.7% much faster than the average
- 132,500 number of jobs
- $98,860 potential earnings

Computer programmers

- -9.4% decline
- 213,900 number of jobs
- $89,190 potential earnings

Software developers and software quality assurance analysts and testers

- 21.5% much faster than the average
- 1,469,200 number of jobs
- $110,140 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Prerequisite mathematics and computer science courses[1]
- Official transcript(s)
- GRE scores
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] Students entering the program are expected to have previously completed courses in linear algebra (equivalent to MATH 21001 or MATH 21002), statistics (equivalent to MATH 20011), advanced calculus (equivalent to MATH 22005), discrete mathematics/structures (equivalent to MATH 31011 or CS 23022), programming and data structures (equivalent to CS 23001) and database systems (equivalent to CS 33007). Applicants have not completed all the prerequisite courses may be admitted conditionally (based on a holistic review of their application) until they complete the remaining courses being before beginning the program's coursework.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: June 15
- **Spring Semester**
  - Application deadline: November 1
- **Summer Term**
  - Application deadline: April 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CS 63005	ADVANCED DATABASE SYSTEMS DESIGN	3
CS 63015	DATA MINING TECHNIQUES	3
CS 63016	BIG DATA ANALYTICS	3
MATH 50015	APPLIED STATISTICS	3
MATH 50024	COMPUTATIONAL STATISTICS	3
MATH 50028	STATISTICAL LEARNING	3
Major Electives, choose from the following: [1]		6
BSCI 60104	BIOLOGICAL STATISTICS	
CS 54201	ARTIFICIAL INTELLIGENCE	
CS 57206	DATA SECURITY AND PRIVACY	
CS 63017	BIG DATA MANAGEMENT	

CS 63018	PROBABILISTIC DATA MANAGEMENT	
CS 63100	COMPUTATIONAL HEALTH INFORMATICS	
CS 64201	ADVANCED ARTIFICIAL INTELLIGENCE	
CS 64402	MULTIMEDIA SYSTEMS AND BIOMETRICS	
CS 67302	INFORMATION VISUALIZATION	
CS 69098	RESEARCH	
or MATH 67098	RESEARCH	
ECON 62054	ECONOMETRICS I	
ECON 62055	ECONOMETRICS II	
ECON 62056	TIME SERIES ANALYSIS	
EHS 62018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	
EPI 62017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY	
EPI 63016	PRINCIPLES OF EPIDEMIOLOGIC RESEARCH	
EPI 63019	EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH	
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
HI 60401	HEALTH INFORMATICS MANAGEMENT	
HI 60411	CLINICAL ANALYTICS	
HI 60414	HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS	
HI 60418	CLINICAL ANALYTICS II	
KM 60301	FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT	
LIS 60020	INFORMATION ORGANIZATION	
MATH 50011	PROBABILITY THEORY AND APPLICATIONS	
MATH 50051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	
MATH 50059	STOCHASTIC ACTUARIAL MODELS	
PSYC 61651	QUANTITATIVE STATISTICAL ANALYSIS I	
PSYC 61654	QUANTITATIVE STATISTICAL ANALYSIS II	
Culminating Requirement		
Choose from the following:		6
Thesis Option		
DATA 69199	THESIS I	
Project and Internship Option		
DATA 69099	CAPSTONE PROJECT	
DATA 69192	GRADUATE INTERNSHIP	
Project and Course Option		
DATA 69099	CAPSTONE PROJECT	
Approved Graduate course (50000 level or higher)		
Minimum Total Credit Hours:		**30**

[1] With graduate coordinator approval, students may substitute a relevant graduate-level course (50000 or 60000 level) in either Computer Science (CS) or Mathematics (MATH).

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Culminating Experience

The culminating experience requirement is a master's thesis or an integrated learning experience.

The master's thesis requires a written thesis, a public defense of the thesis and approval by the student's supervisory committee. Students must form a master's thesis committee, which will include the advisor and at least two other graduate faculty members. The thesis topic and committee must be approved by the advisor and graduate coordinator. The final version of the thesis must be approved by the advisor, thesis committee and graduate coordinator.

The integrated learning experience may include a substantial capstone project or a capstone project and internship. Students must prepare a written document explaining and/or demonstrating their capstone project or internship activity and its significance. In addition, students must give a public presentation of their capstone project or internship, and the written document and presentation must be approved by their supervisory committee.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
CS 63005	ADVANCED DATABASE SYSTEMS DESIGN	3
MATH 50015	APPLIED STATISTICS	3
Major Elective		3
	Credit Hours	**9**
Semester Two		
CS 63015	DATA MINING TECHNIQUES	3
MATH 50024	COMPUTATIONAL STATISTICS	3
MATH 50028	STATISTICAL LEARNING	3
	Credit Hours	**9**
Semester Three		
CS 63016	BIG DATA ANALYTICS	3
Major Elective		3
Culminating Requirement		3
	Credit Hours	**9**
Semester Four		
Culminating Requirement		3
	Credit Hours	**3**
	Minimum Total Credit Hours:	**30**

Program Learning Outcomes

Graduates of this program will be able to:

1. Ask the questions so that problems in a particular business or industrial situation become clear.
2. Determine if the problem may be addressed with data science methods and tools, and if yes, propose potential methods for solving the problems.

3. Make suggestions for how data science may be used to enhance the quality and value of currently existing products (whether the products are physical or methods) and how data science may be used in the development of new products.

Full Description

The Master of Science degree in Data Science provides a focus on developing scientists who will understand the theories, methods and tools of data science and apply data science to solving research and workplace questions in the natural, health and social sciences for businesses and industries.

Data science is a STEM discipline founded on the principles of mathematics and the sciences and developed through a synthesis of mathematics and computer science. One may think of data science as a blending together of methods and ideas from analysis, statistics, databases, big data, artificial intelligence, numerical analysis, graph theory and visualization for the purposes of finding information in data and applying that information to solving real-world problems.

Mathematics - B.A.

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

About This Program

The Bachelor of Arts degree in Mathematics is a flexible program, grounded in the liberal arts and suited for students' individual interests and needs. The program combines well with a second major and/or minors.

Students may apply early to the Master of Arts in Economics degree and double count 9 credit hours of graduate courses toward both degree programs. See the **Combined Bachelor's/Master's Degree Program Policy** in the University Catalog for more information.

Contact Information

- **Xiaoyu Zheng** | xzheng3@kent.edu | 330-672-9089
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Examples of Possible Careers and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Mathematical science teachers, postsecondary

- 1.3% slower than the average
- 60,100 number of jobs
- $73,650 potential earnings

Mathematicians

- 3.0% about as fast as the average
- 2,900 number of jobs
- $110,860 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific

exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
MATH 21001	LINEAR ALGEBRA (min C grade)	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III (min C grade)	4
MATH 30055	MATHEMATICAL THEORY OF INTEREST [1]	3
or MATH 31011	PROOFS IN DISCRETE MATHEMATICS	
or MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	
Mathematics (MATH) Upper-Division Electives (30000 or 40000 level) [2]		9
Computer Programming Elective, choose from the following:		3-4
CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING (min C grade in both courses)	
EMAT 25310	CREATIVE CODING	
Mathematics Elective, choose from the following: [3]		3-4
MATH 40011	PROBABILITY THEORY AND APPLICATIONS	
MATH 40012	THEORY OF STATISTICS (WIC) [4]	
MATH 40055	ACTUARIAL MATHEMATICS I (ELR) (WIC) [4]	
MATH 40056	ACTUARIAL MATHEMATICS II	
MATH 41001	MODERN ALGEBRA I (ELR) (WIC) [4]	
MATH 41002	MODERN ALGEBRA II (ELR) (WIC) [4]	
MATH 42001	ANALYTIC I (ELR) (WIC) [4]	
MATH 42002	ANALYSIS II (ELR) (WIC) [4]	
MATH 42031	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS	
MATH 42039	MODELING PROJECTS (ELR) (WIC) [4]	
MATH 42201	NUMERICAL LINEAR ALGEBRA	
MATH 42202	NUMERICAL APPROXIMATION AND OPTIMIZATION	
Writing-Intensive Elective, choose from the following: [4]		3-4
MATH 40012	THEORY OF STATISTICS (WIC)	
MATH 40055	ACTUARIAL MATHEMATICS I (ELR) (WIC)	
MATH 41001	MODERN ALGEBRA I (ELR) (WIC)	
MATH 42001	ANALYSIS I (ELR) (WIC)	
MATH 42039	MODELING PROJECTS (ELR) (WIC)	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		35
Minimum Total Credit Hours:		**120**

1. Students should choose one of MATH 30055, MATH 31011 and MATH 32044 in consultation with their major advisor. A minimum C grade is required in the selected course if it serves as a prerequisite for any 40000-level course the student plans to take.
2. The following courses cannot be applied as mathematics electives: MATH 30011, MATH 32051, MATH 32052, MATH 34001, MATH 34002, MATH 38001 and MATH 42024. Students should select courses in consultation with their major advisor.
3. Students should select their mathematics elective in consultation with their major advisor.
4. A minimum C grade must be earned to fulfill the writing-intensive requirement. Students should select their writing-intensive elective in consultation with their major advisor.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States

iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
UC 10001	FLASHES 101	1
Computer Programming Elective		3-4
Foreign Language		4
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**16**
Semester Four		
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
MATH 21001	LINEAR ALGEBRA	3
MATH 30055 or MATH 31011	MATHEMATICAL THEORY OF INTEREST or PROOFS IN DISCRETE MATHEMATICS or ORDINARY DIFFERENTIAL EQUATIONS or MATH 32044	3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Six		
Mathematics (MATH) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Seven		
Mathematics Elective		3-4
Mathematics (MATH) Upper-Division Elective (30000 or 40000 level)		3
General Electives		9
	Credit Hours	**15**
Semester Eight		
Mathematics (MATH) Upper-Division Elective (30000 or 40000 level)		3
Writing-Intensive Elective		3-4
General Electives		7
	Credit Hours	**13**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Reason in mathematical arguments at a level appropriate to the discipline, including using precise definitions, articulating assumptions and reasoning logically to conclusions.
2. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
3. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
4. Communicate mathematics clearly both orally and in writing.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Mathematics - B.S.

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

About This Program

Gain a deep understanding of mathematical concepts and their practical applications while learning from experienced faculty and utilizing state-of-the-art facilities. With a Mathematics B.S. degree from Kent State, you will be equipped with the skills needed to pursue a variety of careers in fields such as finance, education, research and more. Read more...

Contact Information

- **Xiaoyu Zheng** | xzheng3@kent.edu | 330-672-9089
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Examples of Possible Careers and Salaries*

Mathematicians

- 3.0% about as fast as the average
- 2,900 number of jobs
- $110,860 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

Operations research analysts

- 24.8% much faster than the average
- 105,100 number of jobs
- $86,200 potential earnings

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Actuaries

- 17.6% much faster than the average
- 27,700 number of jobs
- $111,030 potential earnings

Secondary school teachers, except special and career/ technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) [1]		
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
MATH 21001	LINEAR ALGEBRA (min C grade)	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III (min C grade)	4
MATH 31011	PROOFS IN DISCRETE MATHEMATICS (min C grade)	3
MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	3
MATH 41001	MODERN ALGEBRA I (ELR) (WIC) (min C grade) [2]	3
MATH 41002	MODERN ALGEBRA II (ELR) (WIC) [2]	3
MATH 41021	THEORY OF MATRICES	3
MATH 42001	ANALYSIS I (ELR) (WIC) (min C grade) [2]	3
MATH 42002	ANALYSIS II (ELR) (WIC) [2]	3
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Applied Mathematics Sequence, choose from the following: [3]		6-8
MATH 40011 & MATH 40012	PROBABILITY THEORY AND APPLICATIONS and THEORY OF STATISTICS (WIC) [2]	
MATH 40055 & MATH 40056	ACTUARIAL MATHEMATICS I (ELR) (WIC) and ACTUARIAL MATHEMATICS II [2]	
MATH 42031 & MATH 42039	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS and MODELING PROJECTS (ELR) (WIC) [2]	
MATH 42041 & MATH 42045	ADVANCED CALCULUS and PARTIAL DIFFERENTIAL EQUATIONS	
MATH 42201 & MATH 42202	NUMERICAL LINEAR ALGEBRA and NUMERICAL APPROXIMATION AND OPTIMIZATION	
Computer Science Elective, choose from the following:		4
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
Pure Mathematics Electives, choose from the following: [3]		9
MATH 42021	GRAPH THEORY AND COMBINATORICS	
MATH 42048	COMPLEX VARIABLES	
MATH 45011	DIFFERENTIAL GEOMETRY	
MATH 45021	EUCLIDEAN GEOMETRY	
MATH 45022	LINEAR GEOMETRY	
MATH 46001	ELEMENTARY TOPOLOGY	
MATH 47011	THEORY OF NUMBERS	
Allied Area Electives, choose from the following: [3]		6
BSCI 30050	HUMAN GENETICS	
BSCI 40020	BIOLOGY OF AGING	
CHEM 30105	ANALYTICAL CHEMISTRY I	
CHEM 30106	ANALYTICAL CHEMISTRY II	
CHEM 30301	INORGANIC CHEMISTRY I	

CHEM 40302	INORGANIC CHEMISTRY II
CHEM 40303	INORGANIC CHEMISTRY III
CHEM 40555	PHYSICAL CHEMISTRY I
CHEM 40556	PHYSICAL CHEMISTRY II
CHEM 40559	NANOMATERIALS
CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN
CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES
CS 33211	OPERATING SYSTEMS
CS 33901	SOFTWARE ENGINEERING
CS 35101	COMPUTER ORGANIZATION
CS 35201	COMPUTER COMMUNICATION NETWORKS
CS 38101	INTRODUCTION TO GAME PROGRAMMING
CS 43202	SYSTEMS ADMINISTRATION
CS 43203	SYSTEMS PROGRAMMING
CS 43301	SOFTWARE DEVELOPMENT FOR ROBOTICS
CS 43305	ADVANCED DIGITAL DESIGN
CS 43401	SECURE PROGRAMMING
CS 44001	COMPUTER SCIENCE III - PROGRAMMING PATTERNS
CS 44003	MOBILE APPS IN IOS PROGRAMMING
CS 44105	WEB PROGRAMMING I
CS 44106	WEB PROGRAMMING II
CS 44201	ARTIFICIAL INTELLIGENCE
CS 45203	COMPUTER NETWORK SECURITY
CS 45231	INTERNET ENGINEERING
CS 46101	DESIGN AND ANALYSIS OF ALGORITHMS
CS 47101	COMPUTER GRAPHICS
CS 47205	INFORMATION SECURITY
CS 47206	DATA SECURITY AND PRIVACY
CS 47207	DIGITAL FORENSICS
CS 47221	INTRODUCTION TO CRYPTOLOGY
CS 48101	GAME ENGINE CONCEPTS
ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS
ECON 32041	INTERMEDIATE MACROECONOMIC THEORY AND POLICY
ECON 32050	APPLIED ECONOMETRICS I (ELR)
ECON 32051	APPLIED ECONOMETRICS II
ECON 42050	DATA ACQUISITION, PREPARATION AND VISUALIZATION
ECON 42070	GAME THEORY
ESCI 31080	STRUCTURAL GEOLOGY
ESCI 32066	GEOMORPHOLOGY
ESCI 41025	GENERAL GEOPHYSICS
ESCI 41080	TECTONICS AND OROGENY
ESCI 42030	REMOTE SENSING
ESCI 42035	DATA ANALYSIS IN THE EARTH SCIENCES
GEOG 31062	FUNDAMENTALS OF METEOROLOGY
GEOG 31064	CLIMATE AND THE ENVIRONMENT
GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY
GEOG 41065	DATA ANALYSIS FOR CLIMATE AND THE ENVIRONMENT
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE
GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE
GEOG 49085	WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE
GEOG 49162	CARTOGRAPHY
GEOG 49230	REMOTE SENSING
MATH 30055	MATHEMATICAL THEORY OF INTEREST
MATH 38001	HANDS-ON MATHEMATICS
MATH 40011	PROBABILITY THEORY AND APPLICATIONS
MATH 40012	THEORY OF STATISTICS (WIC) [2]
MATH 40015	APPLIED STATISTICS
MATH 40024	COMPUTATIONAL STATISTICS
MATH 40028	STATISTICAL LEARNING
MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES
MATH 40055	ACTUARIAL MATHEMATICS I (ELR) (WIC) [2]
MATH 40056	ACTUARIAL MATHEMATICS II
MATH 40059	STOCHASTIC ACTUARIAL MODELS
MATH 42011	MATHEMATICAL OPTIMIZATION
MATH 42021	GRAPH THEORY AND COMBINATORICS
MATH 42024	NUMBERS AND GAMES
MATH 42031	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS
MATH 42039	MODELING PROJECTS (ELR) (WIC) [2]
MATH 42041	ADVANCED CALCULUS
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS
MATH 42048	COMPLEX VARIABLES
MATH 42201	NUMERICAL LINEAR ALGEBRA
MATH 42202	NUMERICAL APPROXIMATION AND OPTIMIZATION
MATH 45011	DIFFERENTIAL GEOMETRY
MATH 45021	EUCLIDEAN GEOMETRY
MATH 45022	LINEAR GEOMETRY
MATH 46001	ELEMENTARY TOPOLOGY
MATH 47011	THEORY OF NUMBERS
MATH 47021	HISTORY OF MATHEMATICS
MATH 49992	INTERNSHIP IN MATHEMATICS (ELR)
PHIL 41035	PHILOSOPHY OF SCIENCE
PHIL 41038	INTERMEDIATE LOGIC
PHY 34000	COSMOLOGY
PHY 35101	CLASSICAL MECHANICS
PHY 36001	INTRODUCTORY MODERN PHYSICS
PHY 36002	APPLICATIONS OF MODERN PHYSICS
PHY 44802	ASTROPHYSICS
PHY 45201	ELECTROMAGNETIC THEORY
PHY 45301	THERMAL PHYSICS
PHY 45401	MATHEMATICAL METHODS IN PHYSICS
PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES
PHY 45501	ELECTROMAGNETIC WAVES AND MODERN OPTICS
PHY 46101	QUANTUM MECHANICS
PHY 46301	INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS
PHY 46401	INTRODUCTION TO SOLID STATE PHYSICS
Additional Requirements (courses do not count in major GPA)	
UC 10001	FLASHES 101 1
Foreign Language (see Foreign Language College Requirement below)	8
Kent Core Composition	6
Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (must be from two disciplines)	6
Kent Core Basic Sciences	1

Kent Core Additional	6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	12
Minimum Total Credit Hours:	**120**

1 MATH 30011, MATH 34001 and MATH 34002 cannot be applied toward major requirements.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

3 A course may count toward only one requirement even though it may appear in more than one course list.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

1 All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

2 The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10001	FLASHES 101	1
!	Computer Science Elective		4
	Foreign Language		4
	Kent Core Requirement		3
	Credit Hours		**17**
	Semester Two		
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
	MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Foreign Language		4
	Credit Hours		**17**
	Semester Three		
!	MATH 21001	LINEAR ALGEBRA	3
!	MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
	MATH 31011	PROOFS IN DISCRETE MATHEMATICS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		**16**
	Semester Four		
	MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	3
!	MATH 41021	THEORY OF MATRICES	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		**15**
	Semester Five		
!	MATH 41001	MODERN ALGEBRA I (ELR) (WIC)	3
	Allied Area Elective		3
	Pure Mathematics Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		**15**
	Semester Six		
!	MATH 41002	MODERN ALGEBRA II (ELR) (WIC)	3
	Pure Mathematics Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		1
	General Elective		3
	Credit Hours		**13**
	Semester Seven		
!	MATH 42001	ANALYSIS I (ELR) (WIC)	3
	Allied Area Elective		3
	Applied Mathematics Sequence		3-4
	General Electives		6
	Credit Hours		**15**
	Semester Eight		
!	MATH 42002	ANALYSIS II (ELR) (WIC)	3
	Applied Mathematics Sequence		3-4
	Pure Mathematics Elective		3
	General Elective		3
	Credit Hours		**12**
	Minimum Total Credit Hours:		**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour

Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Reason in mathematical arguments at a level appropriate to the discipline, including using precise definitions, articulating assumptions and reasoning logically to conclusions.
2. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
3. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
4. Communicate mathematics clearly both orally and in writing.
5. Understand and appreciate connections among different subdisciplines of mathematics.
6. Understand and appreciate connections between mathematics and other disciplines.
7. Be aware of and understand a broad range of mathematical subdisciplines.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Mathematics comprises core areas in algebra (number systems, equations, discrete structures), analysis (functions, limits, continuous processes), geometry (space, shape, form) and associated generalizations and abstractions.

The B.S. degree program is recommended for students interested in a flexible option of careers or graduate study in mathematics. Coupled with the Education minor, the program can lead to Ohio teacher licensure.

Students may apply early to the following master's degree programs and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

- Master of Arts in Economics degree
- Master of Science degree in Pure Mathematics

Mathematics - Minor

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

About This Program

The Mathematics minor offers study in several areas of pure mathematics and can be combined with several majors, including those in the sciences and education.

Contact Information

- **Xiaoyu Zheng** | xzheng3@kent.edu | 330-672-9089
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**

- Kent Campus
- Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements		
CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING (min C grade in both courses)	
EMAT 25310	CREATIVE CODING	
Minor Requirements		
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	3-5
or MATH 12013	BRIEF CALCULUS II	
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3-4
or MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	
MATH 21001	LINEAR ALGEBRA (min C grade)	3
or MATH 21002	APPLIED LINEAR ALGEBRA	
MATH 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
or MATH 31011	PROOFS IN DISCRETE MATHEMATICS	
or MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	
or Mathematics Upper-Division Course (MATH 40000 level)		
Mathematics Electives, choose from the following: [1]		6
MATH 41001	MODERN ALGEBRA I (ELR) (WIC)	
MATH 41002	MODERN ALGEBRA II (ELR) (WIC)	
MATH 41021	THEORY OF MATRICES	
MATH 42001	ANALYSIS I (ELR) (WIC)	
MATH 42002	ANALYSIS II (ELR) (WIC)	
MATH 42021	GRAPH THEORY AND COMBINATORICS	
MATH 42041	ADVANCED CALCULUS	
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS	
MATH 42048	COMPLEX VARIABLES	
MATH 45011	DIFFERENTIAL GEOMETRY	
MATH 45021	EUCLIDEAN GEOMETRY	
MATH 45022	LINEAR GEOMETRY	
MATH 46001	ELEMENTARY TOPOLOGY	
MATH 47011	THEORY OF NUMBERS	
Minimum Total Credit Hours:		**23**

[1] Students should select electives in consultation with the student's minor advisor.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Formulate, analyze and solve problems, logically and critically, in proper math settings.

Mathematics for Secondary School Teachers - M.A.

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

About This Program

The Master of Arts degree in Mathematics for Secondary School Teachers is a three-year program offered during the evenings and summer. Designed collaboratively by mathematical sciences and teacher education faculty, this program is for in-service teachers and features both mathematics and education courses. This program does not lead to Ohio teacher licensure.

Contact Information

- **Evgenia (Jenya) Soprunova** | esopruno@kent.edu (etesta@kent.edu) | 330-672-9086
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Mathematical science teachers, postsecondary

- 1.3% slower than the average
- 60,100 number of jobs
- $73,650 potential earnings

Career/technical education teachers, postsecondary

- 1.1% slower than the average
- 124,100 number of jobs
- $55,620 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree in mathematics or mathematics education (or another discipline plus mathematics coursework equivalent to an undergraduate program in mathematics education) from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CI 67224	TEACHING MATHEMATICS WITH TECHNOLOGY	3
CI 67225	RESEARCH IN MATHEMATICS EDUCATION	3
CI 67791	SEMINAR IN MATHEMATICS EDUCATION	3
MATH 64091	SEMINAR IN MATHEMATICS EDUCATION (repeatable)	6
Mathematics Electives, choose from the following:		15
MATH 51021	THEORY OF MATRICES	
MATH 52001	ANALYSIS I	
MATH 52021	GRAPH THEORY AND COMBINATORICS	
MATH 52041	ADVANCED CALCULUS	
MATH 52201	NUMERICAL LINEAR ALGEBRA	
MATH 55021	EUCLIDEAN GEOMETRY	
MATH 55022	LINEAR GEOMETRY	
MATH 57011	THEORY OF NUMBERS	
MATH 67057	ADVANCED CONCEPTS OF GEOMETRY	
MATH 67067	ADVANCED CONCEPTS OF PROBABILITY AND STATISTICS	
MATH 67077	ADVANCED CONCEPTS OF ALGEBRA	
Culminating Requirement		
MATH 69099	CAPSTONE PROJECT	2
Minimum Total Credit Hours:		**32**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Minimum 32 hours of graduate credit with minimum 16 credit hours at the 60000 level and 22 credit hours in mathematics
- Final presentation and report of the capstone project
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Reason in mathematical arguments, including using precise definitions, articulating assumptions and reasoning logically to conclusions.
2. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.

3. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
4. Communicate mathematics clearly both orally and in writing.
5. Teach high school-level mathematics.
6. Understand and appreciate connections among different subdisciplines of mathematics.
7. Be aware of and understand a broad range of mathematical subdisciplines.
8. Obtain a broader and deeper understanding of algebra, geometry and analysis and their interpretation in the K-12 curriculum.

Pure Mathematics - M.A.

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

About This Program

The Pure Mathematics M.A. program provides a rigorous curriculum and faculty mentorship to prepare students for a successful career in mathematics research and education. Read more...

Contact Information

- **Artem Zvavitch** | azvavitc@kent.edu | 330-672-3316
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Career and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Mathematical science teachers, postsecondary

- 1.3% slower than the average
- 60,100 number of jobs
- $73,650 potential earnings

Mathematicians

- 3.0% about as fast as the average
- 2,900 number of jobs
- $110,860 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university[1]
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Résumé or vita
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] Applicants are not required to have an undergraduate degree in pure mathematics; however, they are expected to have proficiency in algebra and analysis at the level of MATH 41001, MATH 41002, MATH 42001 and MATH 42002. Those who do not meet these specific requirements may be granted conditional admission by the Graduate Studies Committee.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 1
- **Spring Semester**
  - Application deadline: October 1

- **Summer Term**
  - Application deadline: March 1

Applications submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Mathematics Electives		14
Mathematics Sequence Electives, choose from the following: [1]		18
MATH 61051 & MATH 61052	ABSTRACT ALGEBRA I and ABSTRACT ALGEBRA II	
MATH 62051 & MATH 62052	FUNCTIONS OF A REAL VARIABLE I and FUNCTIONS OF A REAL VARIABLE II	
MATH 62151 & MATH 62152	FUNCTIONS OF A COMPLEX VARIABLE I and FUNCTIONS OF A COMPLEX VARIABLE II	
Minimum Total Credit Hours:		**32**

[1] Students must complete, at minimum, two of the sequences and one semester of one of the remaining sequences. With prior permission from the Graduate Studies Committee, maximum 6 credit hours of mathematically related coursework from other departments can be applied to meet the Mathematics Sequence Electives.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Candidates for the Master of Arts degree must pass the departmental qualifying examination at the master's level in algebra and analysis.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Note

Each student should submit a detailed plan of study for approval by the advisor by the time the first 16 credit hours of graduate credit have been completed.

Program Learning Outcomes

Graduates of this program will be able to:

1. Reason in mathematical arguments, including using precise definitions, articulating assumptions and reasoning logically to conclusions.
2. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
3. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
4. Communicate mathematics clearly both orally and in writing.
5. Teach university-level mathematics effectively.
6. Understand and appreciate connections among different subdisciplines of mathematics.
7. Be aware of and understand a broad range of mathematical subdisciplines.
8. Obtain a broader and deeper understanding of core mathematics disciplines of algebra and analysis.

Full Description

The Master of Arts degree in Pure Mathematics comprises a flexible program of coursework in mathematics beyond the bachelor's degree emphasizing theoretical areas of the discipline (algebra, analysis, geometry, number theory and topology). There is no thesis requirement or option. Students in the Pure Mathematics Ph.D. degree can apply for this M.A. degree after completing the requisite number of credit hours.

Pure Mathematics - M.S.

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

About This Program

The Pure Mathematics M.S. program offers a comprehensive curriculum and research opportunities to prepare students for a successful career in mathematics. Read more...

Contact Information

- **Artem Zvavitch** | azvavitc@kent.edu | 330-672-3316
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Mathematical science teachers, postsecondary

- 1.3% slower than the average
- 60,100 number of jobs
- $73,650 potential earnings

Mathematicians

- 3.0% about as fast as the average
- 2,900 number of jobs
- $110,860 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university[1]
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or vita
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] Applicants are not required to have an undergraduate degree in pure mathematics; however, they are expected to have proficiency in algebra and analysis at the level of MATH 41001, MATH 41002, MATH 42001 and MATH 42002. Those who do not meet these specific requirements may be granted conditional admission by the Graduate Studies Committee.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 1
- **Spring Semester**
  - Application deadline: October 1
- **Summer Term**
  - Application deadline: March 1

Applications submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Mathematics Electives		8
Mathematics Sequence Electives, choose from the following: [1]		18
MATH 61051 & MATH 61052	ABSTRACT ALGEBRA I and ABSTRACT ALGEBRA II	
MATH 62051 & MATH 62052	FUNCTIONS OF A REAL VARIABLE I and FUNCTIONS OF A REAL VARIABLE II	
MATH 62151 & MATH 62152	FUNCTIONS OF A COMPLEX VARIABLE I and FUNCTIONS OF A COMPLEX VARIABLE II	
Culminating Requirement		
MATH 67199	THESIS I	6
Minimum Total Credit Hours:		**32**

[1] Students must complete, at minimum, two of the sequences and one semester of one of the remaining sequences. With prior permission from the Graduate Studies Committee, maximum 6 credit hours of mathematically-related coursework from other departments can be applied to meet the Mathematics Sequence Electives.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Candidates for the Master of Science degree must write and defend a thesis in an area agreed upon with the faculty advisor.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Note

Each student should submit a detailed plan of study for approval by the advisor by the time the first 16 credit hours of graduate credit have been completed.

Program Learning Outcomes

Graduates of this program will be able to:

1. Reason in mathematical arguments at a level appropriate to the discipline, including using precise definitions, articulating assumptions and reasoning logically to conclusions.

2. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
3. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
4. Communicate mathematics clearly both orally and in writing.
5. Teach university-level mathematics effectively.
6. Obtain a deeper understanding of some subdiscipline of mathematics.

Full Description

The Master of Science degree in Pure Mathematics is primarily a terminal, pre-professional degree comprising coursework beyond the bachelor's degree that emphasizes theoretical areas of the discipline, including algebra, analysis, geometry, number theory and topology. Students are required to write and defend a thesis in an area agreed upon with a faculty advisor.

Pure Mathematics - Ph.D.

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

About This Program

The Ph.D. degree in Pure Mathematics is for students interested in becoming professional scholars, college and university teachers or independent workers in private, industrial or government research institutions. Kent State's pure mathematics Ph.D. program is one of six in the state public university system, and one of only two in Northeast Ohio.

In broad terms, the faculty areas of research lie in functional and harmonic analysis, convex and algebraic geometry, Lie representation theory, approximation theory, finite groups, character theory, number theory and probability and stochastic processes. Original research in pure mathematics is required, and the Ph.D. dissertation must be orally defended. Two years of graduate coursework and three years of research are typical.

Contact Information

- **Artem Zvavitch** | azvavitc@kent.edu | 330-672-3316
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Mathematical science teachers, postsecondary

- 1.3% slower than the average
- 60,100 number of jobs
- $73,650 potential earnings

Mathematicians

- 3.0% about as fast as the average
- 2,900 number of jobs
- $110,860 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university
- Minimum 3.000 GPA on a 4.000-point scale
- Official transcript(s)
- Goal Statement
- Résumé or vita
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]

- Minimum 71 TOEFL iBT score
- Minimum 6.0 IELTS score
- Minimum 50 PTE score
- Minimum 100 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 1
- **Spring Semester**
  - Application deadline: October 1
- **Summer Term**
  - Application deadline: March 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Mathematics (MATH) Doctoral Electives (70000 or 80000 level) [1]		12-42
Mathematics Electives, choose two and a half sequences from the following: [2]		18
MATH 71051 & MATH 72052	ABSTRACT ALGEBRA I and ABSTRACT ALGEBRA II	
MATH 72051 & MATH 72052	FUNCTIONS OF A REAL VARIABLE I and FUNCTIONS OF A REAL VARIABLE II	
MATH 72151 & MATH 72152	FUNCTIONS OF A COMPLEX VARIABLE I and FUNCTIONS OF A COMPLEX VARIABLE II	
Culminating Requirement		
MATH 87199	DISSERTATION I [3]	30
Minimum Total Credit Hours for Post-Baccalaureate Students		**90**
Minimum Total Credit Hours for Post-Master's Students		**60**

[1] Students may petition to have specific course requirements waived if minimum B grade was obtained for an equivalent course at another institution. The basic courses will prepare the student for the candidacy examination. Students still must meet the minimum credit hours for the degree (60 for post-master's and 90 for post-baccalaureate).

[2] Each student is required to pass the departmental qualifying examination at the doctoral level in algebra and analysis (real and complex).

[3] Each doctoral candidate, upon admission to candidacy, must register for MATH 87199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter MATH 87299, each semester, until all requirements for the degree have been met. It is expected that candidates will present the results of their research in a defense open to students and faculty, at which the dissertation will be presented an defended before the dissertation committee.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students present at least one seminar during their graduate career.

Candidacy for Degree

This examination will be a comprehensive examination in the field of the major subject, and will be a substantially deeper test than the qualifying examination.

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and appreciate connections among different subdisciplines of mathematics.
2. Be aware of and understand a broad range of mathematical subdisciplines.
3. Obtain a broader and deeper understanding of core mathematics subdisciplines of algebra and analysis.
4. Obtain a deep understanding of some subdiscipline.
5. Reason in mathematical arguments at a deep level, including using precise definitions, articulating assumptions and reasoning logically to conclusions.
6. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
7. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
8. Develop and carry out a research program in mathematics.
9. Communicate mathematics clearly both orally and in writing.
10. Teach university-level mathematics effectively.

Department of Modern and Classical Language Studies

College of Arts and Sciences
Department of Modern and Classical Language Studies
109 Satterfield Hall
Kent Campus
330-672-2150
mcls@kent.edu
www.kent.edu/mcls

Undergraduate Programs

- American Sign Language - B.A.
- Classics - B.A.
- French - B.A.
- German - B.A.
- Russian Literature, Culture and Translation - B.A.
- Spanish - B.A.
- Translation - B.S.

Minors

- American Sign Language
- Arabic
- Business German
- Business Russian
- Business Spanish
- Chinese
- Classics
- French
- French for the Professions
- German
- German Studies
- Greek
- Italian
- Italian Studies
- Japanese
- Latin
- Russian
- Russian Studies
- Spanish

Graduate Programs

- French - M.A.
- Latin - M.A.
- Spanish - M.A.
- Translation - M.A.
- Translation Studies - Ph.D.

Minors

- Arabic Translation
- Classics
- French Translation
- German Translation
- Japanese Translation
- Russian Translation
- Spanish Translation

Department of Modern and Classical Language Studies Faculty

- Baer, Brian J. (1996), Professor, Ph.D., Yale University, 1996
- Bilali, Loubna (2008), Associate Professor, Ph.D., Kent State University, 2018
- Brett-Paez, Maria C. (2009), Associate Lecturer, M.A., Kent State Unviersity, 2013
- Carduner, Jessie (1998), Associate Professor, Ph.D., University of Pittsburgh, 1998
- Carl, Michael (2018), Professor, Ph.D., Kent State University
- Castaneda-Vise, Daniel A. (2007), Professor, Ph.D., West Virginia University, 2007
- Chism, Rebecca L. (1999), Associate Professor, Ph.D., Florida State University, 2000
- De Julio, MaryAnn (1986), Professor, Ph.D., University of Iowa, 1979
- Dunne, Keiran J. (2000), Professor, Ph.D., Pennsylvania State University, 2000
- Dzero, Irina (2010), Assistant Professor, Yale University, 2009
- Ehrman, Radd K. (1982), Professor, Ph.D., University of Illinois-Chicago, 1982
- Gallagher, Patrick L. (2001), Associate Professor, Ph.D., University of Iowa, 1997
- Gee, Jacqueline L. (2009), Lecturer, M.Ed., Kent State University, 2016
- Hall, Jennifer E. (2008), Lecturer, M.Ed., University of Akron, 2015
- Harvey, Brian K. (1999), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1998
- Harvey, Sarah M. (2001), Professor, Ph.D., University of Michigan, Ann Arbor, 1999
- Hermosilla, Luis G. (1994), Associate Professor, Ph.D., The Ohio State University, 1994
- Kish-Leland, Farah (2009), Lecturer, B.A., Kent State University, 2012
- Koby, Geoffrey S. (1994), Professor, Ph.D., University of Wisconsin, Madison, 1992
- Lacruz, Isabel (1998), Professor, Ph.D., Kent State University, 2005
- Larson, Jennifer L. (1992), Professor, Ph.D., University of Wisconsin-Madison, 1992
- Lemley, Lauren (2013), Lecturer, M.Ed., Kent State University, 2021
- Mirkin-McGee, Lori L. (1995), Associate Lecturer, M.A., Kent State Unviersity, 1997
- Nehring, Lawrence J. (2008), Associate Lecturer, M.S., University of Rochester, 1991
- Riclet, Aurelien (2022), Lecturer
- Rivera, Olga I. (1999), Professor, Ph.D., The Ohio State University, 1998
- Roberts, Trask P. (2022), Assistant Professor, Ph.D., University Of Pennsylvania, 2022
- Romero-Gonzalez, Mariana (2009), Associate Lecturer, M.A., Kent State University, 2012
- Rossoll, Hildegard M. (1988), Associate Professor, Ph.D., Washington University in St. Louis, 1991
- Sato, Paula K. (2009), Associate Professor, Ph.D., University Of Virginia-Main Campus, 2008
- Shiyab, Said M. (2014), Professor
- Shuman, Mason P. (2005), Associate Lecturer, M.A., Kent State University, 2006
- Siciarz, Stephanie J. (2012), Associate Lecturer, M.A., Johns Hopkins University, 2007
- Song, Yumei (2018), Assistant Professor, Kyoto University, 2017
- Stahler, Bethany C. (2009), Lecturer, M.Ed., Kent State University, 2020
- Stasiowski, Kristin (2013), Assistant Professor
- Talentino, Kimberly L. (2007), Associate Lecturer, M.A., Kent State University, 1991
- Tanaka, Eriko (2010), Associate Lecturer, M.A., Bowling Green State University, 2001
- Trzeciak Huss, Joanna (2006), Professor, Ph.D., University Of Chicago
- Vickery, Steve C. (1997), Lecturer, B.A., Kent State University, 1998
- Villa-Ignacio, Teresa (2022), Associate Professor, Ph.D., Brown University, 2010
- Washbourne, Richard K. (2003), Professor, Ph.D., University of Massachusetts-Amherst, 2002
- Yu, Hui (2012), Associate Lecturer

- Zaldivar, Maria E. (2007), Professor, Ph.D., Pennsylvania State University, 1991

Arabic (ARAB)

ARAB 11101 ELEMENTARY ARABIC I 4 Credit Hours
Course is designed for learners with little or no previous knowledge of the Arabic language. It is based on the integration of learning outcomes across interpersonal, interpretive and presentational modes of communication. Students are introduced to the basics of the Arabic writing and sound systems. Students learn basic grammar, vocabulary and structures to enable them to meet functional performance goals at the elementary level to build a foundation for continued language learning. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

ARAB 11102 ELEMENTARY ARABIC II 4 Credit Hours
Continuation of ARAB 11102. This course is based on the integration of learning outcomes across interpersonal, interpretive and presentational modes of communication. It reviews the basics of the Arabic writing and sound systems, focuses on extending students' knowledge of basic grammar, vocabulary and structures to enable them to meet functional performance goals at the elementary level, and develops the skills required for continued language learning. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 11101.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

ARAB 21201 INTERMEDIATE ARABIC I 3 Credit Hours
Continuation of ARAB 11102. This course is based on the integration of learning outcomes across interpersonal, interpretive and presentational modes of communication. It builds upon the concepts, themes, topics and subjects covered in the elementary levels. Course focuses on extending students' knowledge of basic grammar, vocabulary and structures to enable them to meet functional performance goals at the intermediate level, and develops the skills required for continued language learning. Students continue to engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 11102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 21202 INTERMEDIATE ARABIC II 3 Credit Hours
A continuation of Intermediate Arabic I. This course is based on the integration of learning outcomes across interpersonal, interpretive, and presentational modes of communication. The course focuses on extending students' knowledge of basic grammar, vocabulary, and structures to enable them to meet functional performance goals at the intermediate level, and develops the skills required for continued language learning. Students continue to engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 21201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 21401 ARAB CULTURES 3 Credit Hours
This course promotes an understanding of contemporary Arab cultures through conversations and discussions centered around the readings from the course textbook and other supplemental materials provided by the course instructor. Through discussion, other interactive course activities, and short assignments, students learn about the symbols, languages, values, norms, and artifacts that are part of Arab cultures. The course is taught in English and is open to students in all programs of study. No knowledge of the Arabic language is necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 30095 SPECIAL TOPICS IN ARABIC CULTURE AND LANGUAGE 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Topics in Arabic civilization, culture or language.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 31301 ADVANCED INTERMEDIATE ARABIC I 3 Credit Hours
Continuation of the study of Modern Standard Arabic and colloquial Arabic in the context of Arab cultures. Further development of listening, speaking, reading and writing skills, using a variety of cultural materials.
Prerequisite: ARAB 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 31302 ADVANCED INTERMEDIATE ARABIC II 3 Credit Hours
Developing skills of reading, writing, speaking and understanding, this course enhances students' ability to express simple and compound sentences related to everyday activities; examine differences between present, past and future tenses; write assignments using a variety of writing techniques, i.e., describing geographical places, narrating an event, arguing against or for something, and reflecting on news reports; improve students understanding of the world around them using authentic materials on a variety of topics in Modern Standard Arabic; practice the use of grammatical structures and build new vocabulary related to Arab culture and social life in an attempt to improve students' ability to understand texts and express their ideas at an advanced level.
Prerequisite: ARAB 31301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 31311 ARABIC FOR WRITTEN COMMUNICATION 3 Credit Hours
This course is based on the integration of learning outcomes across interpersonal, interpretive, and presentational modes of communication with a focus on developing reading and writing skills. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 31313 ARABIC FOR ORAL COMMUNICATION 3 Credit Hours
This course is based on the integration of learning outcomes across interpersonal, interpretive, and presentational modes of communication with a focus on developing listening and speaking skills. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 37231 TRANSLATION PRACTICE: ARABIC 1 Credit Hour
Translation practice with Arabic texts using principles and techniques learned in the lecture class.
Prerequisite: ARAB 21202.
Corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARAB 37240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: ARABIC 3 Credit Hours
This course is based on the integration of learning outcomes across interpersonal, interpretive, and presentational modes of communication with a focus on developing listening and speaking skills in Arabic for business and other specialized contexts. Students engage in real-world communicative tasks in culturally appropriate ways through Modern Standard Arabic and colloquialisms of at least one dialect.
Prerequisite: ARAB 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Arabic language or culture carried out under the supervision of a faculty member. Departmental approval is required. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Arabic (ARAB) upper-division course (30000 or 40000 level) with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ARAB 41201 ADVANCED ARABIC I 3 Credit Hours
Continuation of ARAB 31302. Emphasis is on building active vocabulary for comprehension, reading authentic texts, writing of connected discourse and the development of higher levels of conversational proficiency.
Prerequisite: ARAB 31302; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 41202 ADVANCED ARABIC II 3 Credit Hours
Enhancing students' ability to speak, understand and write analytically; refining students' ability to use conjunctives and logical connectives at a higher level; understanding stylistic features such as tone, register, figures of speech (i.e., irony, metaphor, simile, alliteration, etc), phrase, clause, sentence and idiomatic structures; enhancing students' ability to use appropriate techniques in descriptive, argumentative, expository writing.
Prerequisite: ARAB 41201; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 47230 ADVANCED TRANSLATION PRACTICE: ARABIC 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes Arabic-English translation of selected texts in business, technology, medicine and law.
Prerequisite: ARAB 37231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 47240 BUSINESS AND SPECIAL TEXTS: ARABIC 3 Credit Hours
This course introduces the concept of language for special purposes and emphasizes special vocabulary in business and other related settings. Learners will build up competence and skills in written communication in business contexts. The course enhances understanding of cultural and ethical issues to identify, resolve and avoid miscommunication. Students learn how to work collaboratively and perform professionally.
Prerequisite: One upper-division ARAB 30000 level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 47343 ARABIC MEDIA AND CURRENT EVENTS 3 Credit Hours
This course introduces students to authentic texts and audiovisual materials from a wide variety of media sources. The course familiarizes students with different media genres. In this course, students develop linguistic, analytical, and bidirectional translation skills and expand their reading, writing, listening, and speaking proficiency. Students discuss, in Arabic, current events related to topics such as technology, politics, economics, terrorism, and the environment.
Prerequisite: One upper-division ARAB course (30000 or 40000 level).
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

ARAB 67010 PRACTICE OF ARABIC TRANSLATION 2 Credit Hours
Introductory course in which students translate a variety of non-specialized, non-fiction short texts in different domains, identify the most common semantic, syntactic, stylistic, cultural and discourse-level problems encountered in translation, and apply appropriate cognitive strategies.
Prerequisite: Graduate standing.
Pre/corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ARAB 67091 SEMINAR IN ARABIC TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized translation projects currently of concern in the translation industry across the Arabic-speaking world. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: ARAB 67010 and TRST 60010; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 67098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Arabic language, translation or culture carried out under the supervision of a faculty member. Departmental approval is required. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

ARAB 67240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, speeches and essays in and from Arabic. '
Prerequisite: ARAB 67010 and TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 67250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
Translating a variety of commercial, financial and legal texts, with special emphasis on text-types most generally translated by professional translators; examining diplomatic texts to understand the language of diplomacy and find the best way to translate it into the target language. Texts subjected for translation from Arabic into English and English into Arabic include employment contracts, articles of incorporation, annual financial statements, diplomatic or official notes, presidential speeches,and international business articles.
Prerequisite: ARAB 67010 and TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 67251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
Introducing methods and resources for the translation of scientific, technical, industrial and medical documents; translating a variety of scientific and medical texts, with special emphasis on text-types most generally translated by professional translators.
Prerequisite: TRST 60001 and TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARAB 67979 TRANSLATION CASE STUDY 3 Credit Hours
Students are responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

American Sign Language (ASL)

ASL 19201 ELEMENTARY AMERICAN SIGN LANGUAGE I 4 Credit Hours
Introduction to American Sign Language and the culture of the American signing community, in an immersion setting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ASL 19202 ELEMENTARY AMERICAN SIGN LANGUAGE II 4 Credit Hours
A continuation of the introduction to American Sign Language and the culture of the American signing community, in an immersion setting.
Prerequisite: ASL 19201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ASL 19401 EXPLORATION OF DEAF CULTURE 3 Credit Hours
Introduction to the American Deaf Community and its culture. Topics include myths and facts about deafness, cultural norms, basic history of American Sign Language, issues of language and cultural oppression, history of education of deaf and hard-of-hearing individuals, legal rights and advocacy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 29201 INTERMEDIATE AMERICAN SIGN LANGUAGE I 3 Credit Hours
Continued development of receptive and expressive skills in American Sign Language and an introduction to ASL grammar, using a bilingual-bicultural approach and interaction with deaf organizations.
Prerequisite: ASL 19202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ASL 29202 INTERMEDIATE AMERICAN SIGN LANGUAGE II 3 Credit Hours
Continuation of ASL 29201 with an emphasis on greater exploration of American Sign Language sentence structure using a bilingual-bicultural approach. Students are involved in a community service project, providing a hands-on experience with using ASL within a community setting.
Prerequisite: ASL 29201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ASL 29212 APPLIED AMERICAN SIGN LANGUAGE GRAMMAR 3 Credit Hours
Provides students with intensive instruction and practice in grammar to help intermediate students express complex ideas using American Sign Language.
Prerequisite: ASL 19202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 29213 FINGERSPELLING, NUMBERS AND DEPICTION 3 Credit Hours
Provides intermediate students with intensive instruction and practice in technical aspects of American Sign Language, including fingerspelling, numbers, and depiction, and provides opportunities for students to incorporate these skills in spontaneous conversations.
Prerequisite: ASL 19202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 39095 SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE 1-3 Credit Hours
(Repeatable for credit for maximum 9 hours) Special topics course in American Sign Language, the topic of which varies. Precise titles and descriptions appear in the schedule of classes.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ASL 39201 ADVANCED AMERICAN SIGN LANGUAGE I 3 Credit Hours
Students enhance receptive and expressive proficiency in an immersion setting through the use of both planned and impromptu in-class discussion of current and historic events and involvement in a community service project. Students are advised to begin planning this activity early in the semester. Successful completion of ASL 29201 portfolio review required prior to registration.
Prerequisite: ASL 29202 .
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 39202 ADVANCED AMERICAN SIGN LANGUAGE II 3 Credit Hours
Students continue to increase their receptive and expressive proficiency in American Sign Language in an immersion setting, through in-class formal and informal presentations, discussions of current and historical events, and working in groups to complete a semester project and a community service project.
Prerequisite: ASL 39201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 39223 SOCIOLINGUISTICS OF THE DEAF COMMUNITY (WIC) 3 Credit Hours
Provides an introduction to the sociolinguistics of American Sign Language (ASL) and the Deaf Community: A study of ASL within a social context. Topics include: multilingualism, variation (related to region, ethnicity, class and age), bilingualism and language contact, language policy and planning and language attitudes. This course is taught in English. Knowledge of ASL is helpful but not necessary.
Prerequisite: Junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ASL 39401 INFLUENTIAL FIGURES IN THE DEAF WORLD 3 Credit Hours
This course explores key figures who have impacted the lives and culture of Deaf, Deaf-Blind and hard of hearing people while also participating within a dominant culture. First-hand narratives will allow students to engage with Deaf experiences to understand hegemony as it applies to hearing status. Coursework investigates but is not limited to the lives and contributions of those who have influenced American Sign Language, ASL instruction, Deaf professionals in Education and research, the arts, interpreting, sports, media, legislation, and affiliated organizations. A portion of this course will be utilized to explore Deaf people, social issues and civil rights from a global perspective.
Pre/corequisite: ASL 19202.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

ASL 49091 SEMINAR IN AMERICAN SIGN LANGUAGE LINGUISTICS 3 Credit Hours
(Repeatable for credit) Provides an in-depth treatment of an American Sign Language linguistics-related topic.
Prerequisite: Minimum C grade in ASL 49108; and special approval.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49092 PRACTICUM IN AMERICAN SIGN LANGUAGE (ELR) 1-3 Credit Hours
In consultation with the ASL program coordinator, ASL students design a practicum experience related to signed languages and their communities. Successful presentation of cumulative portfolio required prior to registration.
Prerequisite: ASL 29202.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ASL 49096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual research on a topic dealing with American Sign Language, ASL pedagogy and/or deaf culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other gradable product(s).
Prerequisite: One American Sign Language (ASL) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ASL 49108 AMERICAN SIGN LANGUAGE LINGUISTICS I 3 Credit Hours
(Slashed with SPED 53108) Lecture, discussion and application course designed to introduce students to basic linguistic terminology and concepts, as applied to American Sign Language (ASL) and taught using a bilingual-bicultural approach. Both ASL and English are used in the instruction of this class. Successful presentation of cumulative portfolio is required prior to registration in this course.
Prerequisite: ASL 29202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49109 AMERICAN SIGN LANGUAGE LINGUISTICS II 3 Credit Hours
Through lecture, in-class and out-of-class activities, and in-class presentations, students discuss, use, and respond to varied sentence structures and types of discourse in ASL, and compare these to English. Class is predominantly taught in ASL, but may at times use a bilingual approach.
Prerequisite: ASL 49108; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49201 ADVANCED PROFICIENCY 3 Credit Hours
Students improve knowledge and use of American Sign Language and experiential knowledge of ASL culture through development, production, critique, revision and evaluation of an extended ASL presentation. This is an immersion class; voicing will not be used.
Prerequisite: ASL 39202; and score of intermediate level on the Signing Competency Proficiency Interview.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49309 INTRODUCTION TO DEAF STUDIES (ELR) (WIC) 3 Credit Hours
(Cross-listed with SPED 43309) (Slashed with SPED 53309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment and the various communication systems used by deaf individuals. Specifically, topics discussed include historical, medical and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational and vocational experiences of deaf children, adults and their families.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ASL 49350 AMERICAN SIGN LANGUAGE LITERATURE 3 Credit Hours
This course explores the evolution of storytelling and poetry in American Sign Language and the Deaf community (in the U.S.). Two perspectives are explored: (1) the evolution of the language and its literature, and (2) the historical context and important figures whose work and style had significant impact. The course is conducted primarily in ASL, but examines the translation process to and from English to explore how the spoken, written and signed languages influence each other. This course culminates in a final student production in ASL, either live or recorded, performed for an audience providing appropriate translation and accessibility.
Prerequisite: ASL 39201 with a minimum B grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49401 DEAF CULTURE AND COMMUNITY 3 Credit Hours
(Slashed with SPED 53101) Students explore the different voices and perspectives which have been, and are, present within the deaf community, issues of controversy, myths and data, using a mix of ASL and English materials and discussion. Successful presentation of cumulative portfolio required prior to registration.
Prerequisite: ASL 29202 and 49309; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASL 49601 ACTIVITY DESIGN, IMPLEMENTATION AND EVALUATION 3 Credit Hours
This course is designed to prepare students to teach in both a formal classroom setting as well as in developing community programs to increase awareness of ASL and the Deaf community. Through a combination of theoretical foundations and practical application, students develop a comprehensive understanding of ASL pedagogy. This is an essential course for students preparing for a student teaching placement or students in other fields who wish to offer workshops and community content.
Pre/corequisite: ASL 39202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Chinese (CHIN)

CHIN 15101 ELEMENTARY CHINESE I 4 Credit Hours
An introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

CHIN 15102 ELEMENTARY CHINESE II 4 Credit Hours
A continuation of the introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures.
Prerequisite: CHIN 15101.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

CHIN 25201 INTERMEDIATE CHINESE I 4 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: CHIN 15102.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

CHIN 25202 INTERMEDIATE CHINESE II 4 Credit Hours
Continuation of CHIN 25201.
Prerequisite: CHIN 25201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

CHIN 25421 CHINESE CULTURE 3 Credit Hours
This course will guide students to explore the foundations of Chinese civilization and the dimensions of Chinese culture. The course will focus on providing students with a deeper knowledge of Chinese culture and better understanding of contemporary China. This course is a basic introduction to Chinese culture. It does not presume prior knowledge of China or the Chinese language. This course is taught in English and is open to students in any program.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 30095 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)Topic to be announced in schedule of classes.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 35211 INTENSIVE CHINESE CONVERSATION 3 Credit Hours
This course increases students' knowledge of Chinese vocabulary and sentence structure; emphasis will be on developing fluency and oral proficiency in Chinese.
Prerequisite: CHIN 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 35221 CHINESE IN THE REAL WORLD 3 Credit Hours
This course focuses on how the Chinese language varies by social and cultural contexts. The instructor will utilize different socially and culturally relevant topics to help students master the structures, vocabulary, and idiomatic expressions commonly used in formal and informal situations. Students will be systematically exposed to the distinguishing features of written and spoken Chinese in terms of language form, function, and communication.
Prerequisite: CHIN 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Chinese language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Chinese (CHIN) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

CHIN 45302 BUSINESS CHINESE 3 Credit Hours
Study of the business protocol, language functions, texts and vocabulary associated with travel and business in the Chinese-speaking world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 45322 CHINESE FICTION 3 Credit Hours
This course emphasizes speaking and reading skills in Chinese through selected stories and anecdotes including sayings from classical philosophers, folk tales, legends, and great works of literature.
Prerequisite: CHIN 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CHIN 45323 CHINESE COMPOSITION 3 Credit Hours
This course focuses on studying modern and classical forms of Chinese literature written by acknowledged masters. Through studying these works, students improve their understanding of Chinese literature, open avenues of thought, broaden their vocabulary, master basic rules and techniques of writing, and develop the ability to write with eloquence and skill.
Prerequisite: CHIN 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Classics (CLAS)

CLAS 21201 ENGLISH WORDS FROM CLASSICAL ELEMENTS 3 Credit Hours
Building of English vocabulary through study of basic roots from Latin and Greek; prefixes, suffixes, rules for accent and pronunciation; specialized scientific and legal terminology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 21404 THE GREEK ACHIEVEMENT (DIVG) (KHUM) 3 Credit Hours
A survey of the cultural achievements of the ancient Greeks as manifested in their poetry, philosophy, history and art from the Homeric period through the New Testament.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, Transfer Module Humanities

CLAS 21405 THE ROMAN ACHIEVEMENT (DIVG) (KHUM) 3 Credit Hours
A survey of the cultural achievements of the ancient Romans as manifested in their literature and art from the Etruscans through the Christians.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, Transfer Module Humanities

CLAS 41005 HISTORY OF ANCIENT GREECE 3 Credit Hours
(Slashed with CLAS 51005) (Cross-listed with HIST 41003 and HIST 51003) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with HIST 41006) (Slashed with CLAS 51006, HIST 51006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41089 CLASSICS INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Slashed with CLAS 51089) A Kent State faculty-led study abroad experience that involves experiential activities and site visits outside the United States. May include, for example, participation in an archaeological dig or tour of sites in Italy and Greece. Course may have pre- or post-travel classroom study. Course activities may include classroom study, research, fieldwork, internships and service-learning.
Prerequisite: Special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CLAS 41092 FIELD EXPERIENCE IN CLASSICS (ELR) 1-4 Credit Hours
(Repeatable for a maximum of 7 credit hours)(Slashed with CLAS 51092) Travel-based study/field experience at a site or sites away from Kent State University under the supervision of members of the classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites that pertain to classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other cities and participation in an archaeological field school.
Prerequisite: None.
Schedule Type: Field Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CLAS 41095 SPECIAL TOPICS IN CLASSICS 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with CLAS 51095) Topic varies per course offering and listed in the schedule of classes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with classical languages or cultures carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Classics (CLAS) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

CLAS 41097 COLLOQUIUM IN CLASSICS 3 Credit Hours
(Repeatable for credit)(Slashed with CLAS 51097) Detailed study of an aspect of antiquity that engages issues of current interest, for example women in antiquity, ancient Christianity, multiculturalism in antiquity.
Prerequisite: None.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

CLAS 41301 CLASSICAL MYTHOLOGY 3 Credit Hours
(Slashed with CLAS 51301) Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41304 LITERATURE OF THE ROMAN WORLD (ELR) (WIC) 3 Credit Hours
(Slashed with CLAS 51304) Major works of Latin literature, studied in their historical context by genre; knowledge of Latin not required. Authors read include Plautus, Terence, Lucretius, Cicero, Catullus, Vergil, Horace, Petronius, Seneca, Suetonius, Tacitus and Juvenal.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CLAS 41305 CLASSICAL LITERARY STUDIES 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Slashed with CLAS 51305) Study of a particular literary genre. Topics are individually designed to provide instruction and training of a specific genre of Greek or Roman literature.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41401 GREEK ARCHAEOLOGY AND ART 3 Credit Hours
(Slashed with CLAS 51401) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41402 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours
(Slashed with CLAS 51402) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41404 ANCIENT CHRISTIANITIES 3 Credit Hours
In-depth examination of the formative period of Christianity and the diverse "Christianities" during the first 100 years after the death of Jesus of Nazareth, including the Judaic context for the birth of Christianity, diversity among the earliest Christian communities, and the process by which the New Testament canon was formed. Study of a variety of texts produced by the early church.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 41503 LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC) 3 Credit Hours
(Slashed with CLAS 51503) Major works of Greek literature, studied in their historical context and by genre. Knowledge of Greek is not required.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CLAS 51005 HISTORY OF ANCIENT GREECE 3 Credit Hours
(Slashed with CLAS 41005) (Cross-listed with HIST 41003 and HIST 51003) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51006 ROMAN HISTORY 3 Credit Hours
(Cross-listed with HIST 51006) (Slashed with CLAS 41006, HIST 41006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51089 CLASSICS INTERNATIONAL EXPERIENCE 1-4 Credit Hours
(Slashed CLAS 51089) A Kent State faculty-led study abroad experience that involves experiential activities and site visits outside the United States. International experience may include, for example, participation in an archaeological dig or tour of sites in Italy or Greece. International experience courses may have pre-and post-travel classroom study. Course activities include, but are not limited to, classroom study, research, fieldwork, internships and service-learning.
Prerequisite: Graduate Standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

CLAS 51092 FIELD EXPERIENCE IN CLASSICS 1-4 Credit Hours
(Repeatable for a maximum of 7 credit hours)(Slashed with CLAS 41092) Travel-based study/field experience at a site or sites away from Kent State University under the supervision of members of the classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites that pertain to classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other cities and participation in an archaeological field school.
Prerequisite: Graduate standing.
Schedule Type: Field Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter

CLAS 51095 SPECIAL TOPICS IN CLASSICS 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with CLAS 51095) Topic varies per course offering and listed in the schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51097 COLLOQUIUM IN CLASSICS 3 Credit Hours
(Repeatable for credit) (Slashed with CLAS 41097) Detailed study of an aspect of antiquity that engages issues of current interest, for example women in antiquity, ancient Christianity, multiculturalism in antiquity.
Prerequisite: Graduate standing.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

CLAS 51301 CLASSICAL MYTHOLOGY 3 Credit Hours
(Slashed with CLAS 41301) Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51304 LITERATURE OF THE ROMAN WORLD 3 Credit Hours
(Slashed with CLAS 41304) Major works of Latin literature, studied in their historical context by genre; knowledge of Latin not required. Authors read include Plautus, Terence, Lucretius, Cicero, Catullus, Vergil, Horace, Petronius, Seneca and Juvenal.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51305 CLASSICAL LITERARY STUDIES 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Slashed with CLAS 41305) Study of a particular literary genre. Topics are individually designed to provide instruction and training of a specific genre of Greek or Roman literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51401 GREEK ARCHAEOLOGY AND ART 3 Credit Hours
(Slashed with CLAS 41401) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51402 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours
(Slashed with CLAS 41402) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 51503 LITERATURE OF THE ANCIENT GREEKS 3 Credit Hours
(Slashed with CLAS 41503) Major works of Greek literature, studied in their historical context and by genre. Knowledge of Greek is not required.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 61404 ANCIENT CHRISTIANITIES 3 Credit Hours
In-depth examination of the formative period of Christianity and the diverse "Christianities" during the first 100 years after the death of Jesus of Nazareth, including the Judaic context for the birth of Christianity, diversity among the earliest Christian communities, and the process by which the New Testament canon was formed. Study of a variety of texts produced by the early church.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CLAS 66398 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with classical languages, translation or cultures carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

French (FR)

FR 10089 BASIC CONVERSATIONAL FRENCH (DIVG) (ELR) 2 Credit Hours
This course is offered to students who are studying in Paris and have little to no previous experience in French, and helps students acquire competencies in all four basic language skills: listening, speaking, reading and writing. The course has a practical focus on opportunities for self-expression in everyday situations (transportation, shopping, dining), as well as in professional contexts (internships, workplace, studio). The course develops intercultural competence through a comparative, critical approach to the study of language and culture. Students are encouraged to complete MCLS 23217 before their semester abroad.
Prerequisite: Special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FR 13201 ELEMENTARY FRENCH I 4 Credit Hours
An introduction to the French language in the context of Francophone cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

FR 13202 ELEMENTARY FRENCH II 4 Credit Hours
A continuation of the introduction to the French language in the context of Francophone cultures.
Prerequisite: FR 13201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

FR 20089 BASIC PROFESSIONAL FRENCH (DIVG) (ELR) 2 Credit Hours
This conversation course is offered to students enrolled in professionally-oriented programs during their semester or summer abroad in Paris. Students practice the four language skills (listening, speaking, reading and writing) with a focus on vocabulary and expressions relevant to professional contexts, including applying for positions, French workplace culture and reading and writing business documents. Comparative and critical analyses of French and American professional practices develop students' intercultural competence.
Prerequisite: FR 13202; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FR 23201 INTERMEDIATE FRENCH I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: FR 13202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

FR 23202 INTERMEDIATE FRENCH II 3 Credit Hours
This course develops oral and written communication skills in French, as well as reading and listening skills through practice with conversations about familiar topics and situations involving issues of current interest, reading informational and fictional texts, and listening to podcasts and watching videos in French. The course develops the ability to describe and narrate and go beyond memorized phrases in a variety of timeframes, including the past and the future.
Prerequisite: FR 23201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

FR 33091 FRENCH FOR THE PROFESSIONS SEMINAR 3 Credit Hours
(Repeatable for credit) Introduction to the special vocabulary for the professions; introduces the concept of language for special purposes and emphasizes the use of special vocabulary throughout conversations and texts for the professions (e.g. business, hospitality, international relations, healthcare).
Prerequisite: FR 23202.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 33095 SELECTED TOPICS IN FRENCH 3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Topic to be announced in the schedule of classes.
Prerequisite: FR 33211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 33211 FRENCH CONVERSATION 3 Credit Hours
A course designed to enhance students' oral proficiency through instruction in facilitating conversation and the discussion of culture-based texts. This course also include phonetics and diction components to enhance students' understanding of the language.
Prerequisite: FR 23202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 33212 FRENCH COMPOSITION 3 Credit Hours
A course designed to develop writing and reading skills, as well as to prepare students to read and write about French literature and culture.
Prerequisite: FR 23202; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 33215 FRENCH PHONETICS AND DICTION 3 Credit Hours
Study of sounds of French language and their relation to spelling; application of international phonetic alphabet to French. Study augmented by recordings.
Prerequisite: FR 23202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 33231 TRANSLATION PRACTICE: FRENCH 1 Credit Hour
Translation practice with French texts using principles and techniques learned in the lecture class. To be taken concurrently with TRST 30230.
Corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FR 33335 INTRODUCTION TO FRENCH THEATRE (ELR) (WIC) 3 Credit Hours
Evolution of French dramatic literature from the middle ages to the present. Readings of representative works with lectures analyses. In French.
Prerequisite: FR 33212.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

FR 33336 INTRODUCTION TO FRENCH POETRY (ELR) (WIC) 3 Credit Hours
Evolution of French poetry from the middle ages to the present. Readings of representative works with lectures analyses. In French.
Prerequisite: FR 33212.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

FR 33337 INTRODUCTION TO FRENCH LITERARY PROSE (ELR) (WIC) 3 Credit Hours
Masterpieces of French literary prose from the seventeenth century to the present. Readings of representative major works, lectures, analyses. In French. This course may be used to satisfy the WIC graduation requirement with approval of major department.
Prerequisite: FR 33212 or permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

FR 33421 FRENCH CIVILIZATION 3 Credit Hours
A survey of French history and culture from its beginnings to World War II. Taught in French.
Prerequisite: FR 33212.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43091 FRENCH SEMINAR 3 Credit Hours
(Repeatable for credit) (Slashed with FR 53091) Topic to be announced.
Prerequisite: One course from FR 33335 or FR 33336 or FR 33337.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 43093 VARIABLE TITLE WORKSHOP IN FRENCH 1-6 Credit Hours
(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of French studies.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

FR 43096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with French language, literature or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One French (FR) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

FR 43213 FRENCH COMPOSITION-ADVANCED 3 Credit Hours
(Slashed with FR 53213) French stylistics developed by analyses of literary extracts and practice in written expression.
Prerequisite: FR 33335 or FR 33336 or FR 33337 or FR 33421.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43216 CONTEMPORARY FRENCH CULTURE 3 Credit Hours
(Slashed with FR 53216) A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world.
Prerequisite: FR 33421; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43230 ADVANCED TRANSLATION PRACTICE: FRENCH (WIC) 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes French-to-English translation of selected texts in business, technology, medicine and law.
Prerequisite: FR 33231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

FR 43368 THE TWENTIETH-CENTURY FRENCH NOVEL 3 Credit Hours
Studies of selected 20th century French novels, with detailed study of the novel of one or several major writers or movements.
Prerequisite: 6 semester hours from the 33330-level.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43369 TWENTIETH-CENTURY FRENCH POETRY 3 Credit Hours
(Slashed with FR 53369) A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Albiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century.
Prerequisite: 6 semester hours from the FR 33330-level.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43370 THE TWENTIETH CENTURY FRENCH THEATRE 3 Credit Hours
(Slashed with FR 53370) Studies in French drama since 1900.
Prerequisite: 6 semester hours from the 33330-level.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 43591 SEMINAR IN FRENCH CINEMA 3 Credit Hours
(Slashed with FR 53591)(Repeatable for credit) Topics for this course provide a history of French cinema from the early years of documentary and fantasy film through the 1930s, the Golden Age of French cinema, the French New Wave and contemporary trends in French and Francophone cinema. Students develop analytical and critical skills in "reading" film as an aesthetic work (matters of form, narrative and style) and a cultural artifact (social, economic and political functions).
Prerequisite: Two of the following courses: FR 33335 or FR 33336 or FR 33337 or FR 33421.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 53091 FRENCH SEMINAR 3 Credit Hours
(Repeatable for credit) (Slashed with FR 43091) Topic to be announced.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 53213 FRENCH COMPOSITION-ADVANCED 3 Credit Hours
French stylistics developed through analyses of literary extracts and practice in written expression.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53216 CONTEMPORARY FRENCH CULTURE 3 Credit Hours
(Slashed with FR 43216) A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53368 20TH-CENTURY FRENCH NOVEL 3 Credit Hours
Study of selected 20th-century French novels, with emphasis on one or several major writers or movements.
Prerequisite: 6 hours from 33330-level; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53369 20TH-CENTURY FRENCH POETRY 3 Credit Hours
(Slashed with FR 43369) A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Alpiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53370 20TH-CENTURY FRENCH THEATRE 3 Credit Hours
(Slashed with FR 43370) Studies in French drama since 1900.
Prerequisite: 6 hours from 33330-level; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 53591 SEMINAR IN FRENCH CINEMA 3 Credit Hours
(Slashed with FR 43591)(Repeatable for credit) Topics for this course provide a history of French cinema from the early years of documentary and fantasy film through the 1930s, the Golden Age of French cinema, the French New Wave and contemporary trends in French and Francophone cinema. Students develop analytical and critical skills in "reading" film as an aesthetic work (matters of form, narrative and style) and a cultural artifact (social, economic and political functions).
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FR 63010 THE PRACTICE OF FRENCH TRANSLATION 2 Credit Hours
Students apply linguistic and communication science concepts to case studies of language mediation.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

FR 63091 SEMINAR IN FRENCH TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized translation projects currently of concern in the translation industry across the French-speaking world. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: FR 63010 and TRST 60010; graduate studies.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 63093 VARIABLE TITLE WORKSHOP IN FRENCH 1-6 Credit Hours
(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of French studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

FR 63098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with French language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

FR 63199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

FR 63240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into French will also be emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 63250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 63251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FR 63299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: FR 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

FR 63979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

German (GER)

GER 11201 ELEMENTARY GERMAN I 4 Credit Hours
An introduction to the German language in the context of the cultures of German-speaking lands.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GER 11202 ELEMENTARY GERMAN II 4 Credit Hours
A continuation of the introduction to the German language in the context of the cultures of German-speaking lands.
Prerequisite: GER 11201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GER 21201 INTERMEDIATE GERMAN I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: GER 11202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GER 21202 INTERMEDIATE GERMAN II 3 Credit Hours
Continuation of GER 21201.
Prerequisite: GER 21201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GER 31095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced in schedule of classes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

GER 31201 INTENSIVE GERMAN GRAMMAR 3 Credit Hours
A systematic approach to German grammar and syntax.
Prerequisite: GER 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31211 GERMAN COMPOSITION AND CONVERSATION 3 Credit Hours
Grammar review and practice in writing and speaking German.
Prerequisite: GER 21202; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31215 GERMAN PHONETICS AND DICTION 3 Credit Hours
Study of the German sound system with emphasis on pronunciation and intonation. Reading and performance of a series of skits and short plays.
Prerequisite: GER 21202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31231 TRANSLATION PRACTICE: GERMAN 1 Credit Hour
Translation practice with German texts using principles and techniques learned in the lecture class.
Corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

GER 31240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: GERMAN 3 Credit Hours
Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings.
Prerequisite: GER 31211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31303 INTRODUCTION TO GERMAN LITERATURE 3 Credit Hours
Introduction to German literature and textual analysis.
Prerequisite: GER 21202 and GER 31201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 31421 GERMAN CIVILIZATION 3 Credit Hours
A survey of German history and intellectual life to 1918; taught in German.
Prerequisite: Six hours upper division german courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) (Slashed with GER 51095) Topic announced in schedule of classes.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

GER 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with German language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One German (GER) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

GER 41211 ADVANCED GERMAN COMPOSITION AND CONVERSATION 3 Credit Hours
Advanced practice in speaking and writing German.
Prerequisite: GER 31211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41216 CONTEMPORARY GERMAN CULTURE (ELR) (WIC) 3 Credit Hours
(Slashed with GER 51216) A study of selected sociological, political, cultural and economic issues in contemporary German- speaking countries using readings, films and legal documents as the basis for discussions. Taught in German.
Prerequisite: Six hours of upper division german courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GER 41230 ADVANCED TRANSLATION PRACTICE: GERMAN (ELR) (WIC) 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes German-to-English translation of selected texts in business, technology, medicine and law.
Prerequisite: GER 31231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GER 41240 BUSINESS AND SPECIAL TEXTS: GERMAN 3 Credit Hours
Survey of the typical text types of business in the German culture and language. Practice sessions focus on reading and understanding specialized texts, and on the translation and composition of selected special texts in German.
Prerequisite: GER 31211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41323 GERMAN FAIRY TALES 3 Credit Hours
(Slashed with GER 51323) An investigation in German fairy tales, from the Brothers Grimm to the literary fairy tales of later German authors.
Prerequisite: GER 31201 and GER 31211; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41324 GERMAN LITERATURE FOR CHILDREN AND ADOLESCENTS 3 Credit Hours
(Slashed with GER 51324) An investigation into German literature for children and adolescents from the Middle Ages to modernity.
Prerequisite: GER 31201 and GER 31211; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41330 TWENTIETH-CENTURY GERMAN AUTHORS (ELR) (WIC) 3 Credit Hours
(Slashed with GER 51330) A survey of the major movements and authors of the twentieth century.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

GER 41334 THE GERMAN NOVELLA 3 Credit Hours
(Slashed with GER 51334) Development of the German novella from the eighteenth century to the present. Readings of major works lectures analyses taught in German.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41340 HISTORY OF GERMAN LITERATURE TO 1750 3 Credit Hours
A history of the development of German literature from the Germanic tribes through the Age of Enlightenment (the first half of the eighteenth century).
Prerequisite: GER 31303 and 31421.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41341 HISTORY OF GERMAN LITERATURE 1750 TO THE PRESENT 3 Credit Hours
A history of the development of German literature from the Age of Sensibility (the second half of the eighteenth century) to the present.
Prerequisite: GER 31303 and 31421.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 41399 RESEARCH PROJECT IN GERMAN LITERATURE (ELR) 3 Credit Hours
(Repeatable for credit) Thesis or other independent study.
Prerequisite: 6 hours at the 40000-level.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

GER 41731 SURVEY OF GERMAN CINEMA 3 Credit Hours
(Slashed with GER 51731) A survey of major contributions to the German cinema from the beginnings to the present; taught in German.
Prerequisite: Six hours of upper division german courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) (Slashed with GER 41095) Topic announced in schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

GER 51096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with GER 41096) Independent investigation of problems in German language or literature. Permission of the department chair required.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

GER 51212 STYLISTICS 3 Credit Hours
Development of written German style through selected readings, textual analysis and stylistic exercises.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51216 CONTEMPORARY GERMAN CULTURE 3 Credit Hours
(Slashed with GER 41216) A study of selected sociological, political, cultural and economic issues in contemporary German-speaking countries, using readings, films and legal documents as the basis for discussion. Taught in German.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51323 GERMAN FAIRY TALES 3 Credit Hours
(Slashed with GER 41323) An investigation into German fairy tales, from the Brothers Grimm to the literary fairy tales of later German authors.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51324 GERMAN LITERATURE FOR CHILDREN AND ADOLESCENTS 3 Credit Hours
(Slashed with GER 41324) An investigation into German literature for children and adolescents from the Middle Ages to modernity.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51330 20TH-CENTURY GERMAN AUTHORS 3 Credit Hours
(Slashed with GER 41330) A survey of the major movements and authors of the twentieth century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51334 THE GERMAN NOVELLA 3 Credit Hours
(Slashed with GER 41334) Development of the German novella from the 18th century to the present. Readings of major works, lectures, analyses; taught in German.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51340 HISTORY OF GERMAN LITERATURE TO 1750 3 Credit Hours
A history of the development of German literature from the Germanic tribes through the Age of Enlightenment (the first half of the eighteenth century).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51341 HISTORY OF GERMAN LITERATURE 1750 TO THE PRESENT 3 Credit Hours
A history of the development of German literature from the Age of Sensibility (the second half of the eighteenth century) to the present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 51731 SURVEY OF GERMAN CINEMA 3 Credit Hours
(Slashed with GER 41731) A survey of major contributions to the German cinema from the beginnings to the present; taught in German.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61010 THE PRACTICE OF GERMAN TRANSLATION 2 Credit Hours
Students apply linguistic and communication science concepts to case studies of language mediation.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

GER 61091 SEMINAR IN GERMAN TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized German translation projects currently of concern in the translation industry. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: GER 61010 and TRST 60010, graduate studies.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GER 61199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GER 61240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into German will also be emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: GER 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

GER 61398 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with German language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

GER 61901 READING GERMAN FOR GRADUATE STUDENTS 4 Credit Hours
Introduction to the fundamentals of German grammar for graduate students. Practice in reading and translation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

GER 61902 READING GERMAN FOR GRADUATE STUDENTS 3 Credit Hours
Continued practice in reading and translation. Independent study of scholarly texts in the student's own discipline.
Prerequisite: GER 61901; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GER 61979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text,the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

Greek (GRE)

GRE 14201 ELEMENTARY CLASSICAL GREEK I 4 Credit Hours
An introduction to the classical Greek language in the context of ancient Greek culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GRE 14202 ELEMENTARY CLASSICAL GREEK II 4 Credit Hours
A continuation of the introduction to the classical Greek language in the context of ancient Greek culture.
Prerequisite: GRE 14201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GRE 24201 INTERMEDIATE CLASSICAL GREEK I: READINGS 3 Credit Hours
Excerpts from classical Greek literature with emphasis on translation into English.
Prerequisite: GRE 14202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GRE 24202 INTERMEDIATE CLASSICAL GREEK II: READINGS 3 Credit Hours
Excerpts from classical Greek literature with emphasis on both prose (e.g. Plato) and poetry (e.g. Euripides).
Prerequisite: GRE 24201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

GRE 34370 PLATO:APOLOGY AND PHAEDO 3 Credit Hours
Readings in the original Greek of Plato's dialogues centering on the trial, conviction and death of Socrates.
Prerequisite: GRE 24202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GRE 34371 HOMER 3 Credit Hours
Selections from the Iliad or Odyssey studied from a literary and grammatical standpoint.
Prerequisite: GRE 24202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GRE 34372 ADVANCED READINGS IN GREEK 3 Credit Hours
Readings in the original Greek of authors in poetry and prose studied from a literary and grammatical standpoint.
Prerequisite: GRE 24202; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GRE 44096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Investigation of problems in Greek literature or linguistics.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

Hebrew (HEBR)

HEBR 12101 ELEMENTARY HEBREW I 4 Credit Hours
An introduction to the modern Hebrew language in the context of Israeli culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

HEBR 12102 ELEMENTARY HEBREW II 4 Credit Hours
A continuation of the introduction to the modern Hebrew language in the context of Israeli culture.
Prerequisite: HEBR 12101.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

HEBR 22104 INTERMEDIATE HEBREW I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: HEBR 12102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEBR 22105 INTERMEDIATE HEBREW II 3 Credit Hours
Continuation of HEBR 22104.
Prerequisite: HEBR 22104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Heritage Languages (HRTG)

HRTG 10101 ELEMENTARY I (VARIABLE LANGUAGE) 4 Credit Hours
An introduction to a heritage language in the context of the culture of its speakers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

HRTG 20202 INTERMEDIATE II (VARIABLE LANGUAGE) 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HRTG 30095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced in schedule of classes.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

Italian (ITAL)

ITAL 15201 ELEMENTARY ITALIAN I 4 Credit Hours
An introduction to the Italian language in the context of Italian culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ITAL 15202 ELEMENTARY ITALIAN II 4 Credit Hours
A continuation of the introduction to the Italian language in the context of Italian culture.
Prerequisite: ITAL 15201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ITAL 15204 BASIC CONVERSATIONAL ITALIAN I 2 Credit Hours
Exposure to basic grammar and to current Italian useful to travelers. Not applicable to fulfillment of foreign language requirement.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ITAL 25201 INTERMEDIATE ITALIAN I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: ITAL 15202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ITAL 25202 INTERMEDIATE ITALIAN II 3 Credit Hours
Continuation of ITAL 25201.
Prerequisite: ITAL 25201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

ITAL 35211 COMPOSITION AND CONVERSATION: CONTEMPORARY ITALIAN SOCIETY 3 Credit Hours
This course is designed to develop acquisition of written and oral proficiency through the study and practice of written and spoken Italian in the context of contemporary societal issues.
Prerequisite: ITAL 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35213 COMPOSITION AND CONVERSATION: MEDIA AND INFORMATION IN ITALY 3 Credit Hours
This course is designed to develop acquisition of written and oral proficiency through the sturdy and practice of written and spoken Italian in the context of contemporary Italian media and information-gathering.
Prerequisite: ITAL 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35323 GRAMMAR OF FANTASY: THE LITERATURE AND TEACHINGS OF GIANNI RODARI 3 Credit Hours
This course, conducted in Italian, examines the literature and teachings of Gianni Rodari, renowned author of Italian children's literature. Readings explore Rodari's nursery rhymes, fables, his novel-length children's fairy tale and the essay collection that provides the foundation of his educational theory based on creativity and children's happiness.
Prerequisite: ITAL 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35331 EARLY ITALIAN LITERATURE 3 Credit Hours
A survey of Italian literature from its medieval origins through the Baroque period.
Prerequisite: ITAL 35211 or ITAL 35213.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35332 RECENT ITALIAN LITERATURE (ELR) 3 Credit Hours
A survey of Italian literature from the Enlightenment through the 1900s and into the 21st century.
Prerequisite: ITAL 35211 or ITAL 35213.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ITAL 35340 BOCCACCIO'S DECAMERON IN TRANSLATION 3 Credit Hours
The Decameron, one of the most entertaining, beloved and imitated prose works ever written, is an accurate reflection of fourteenth-century life in Italy. Like Dante's Divine Comedy, this human comedy was written not only to delight, but also to instruct by exploring both our spiritual and our natural environment. Giovanni Boccaccio (1313-1375), considered by some typically medieval and by others one of the first truly modern literary figures to emerge from the darkness of the Middle Ages into the light of the Renaissance, shows himself, as author of The Decameron, to be both a passionate believer and a passionate critic as he reconstructs society, destroyed by the Black Plague, through the perfection of his 100-fold narrative. Boccaccio's Decameron, of course, generated a flourishing early modern tradition of proto-novelistic short-story collections (think of Marguerite de Navarre and Cervantes), but also provided substantial material for the nascent dramatic tradition (from Machiavelli's Mandragola to Shakespeare's All's Well). His biographical collection, Of Famous Women, was an indispensable source and model for the wide-spread debates on the status of women. His Genealogy of the Gentile Gods was a staple of the Renaissance mythographical tradition. This course is taught in English.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35421 ITALIAN CIVILIZATION 3 Credit Hours
Lectures, readings, oral and written reports on outstanding features of the culture and civilization of Italy.
Prerequisite: ITAL 25202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35540 DANTE'S DIVINE COMEDY IN TRANSLATION 3 Credit Hours
This course is an introduction to Dante and the history of Florence through critical reading and discussion of the Divine Comedy and selected minor works: Vita Nova, Convivio, De vulgari eloquentia and the Epistle to Cangrande. Close readings of the Inferno, Purgatory and Paradise will explore the literary, political, theological and philosophical concerns of the poem in order to understand Dante's work within the intellectual and social context of the Middle Ages. Some of the central topics of the course will include Dante's relationship to Florence, his use of classical, Christian and mythological personages, symbols and references; his views on the papacy and the empire, his relationship to the people he encounters and the unique aspects of his vision of the afterlife. In addition, we will focus on a variety of thematic concerns including Dante's understanding of poetry, grace, love and divine justice. Though primarily taught through a combination of lecture and discussion, the course will also focus on the use of art, film, music, performance, digital media and other interdisciplinary methods that have been used to interpret and further our understanding the Divine Comedy and its lasting fascination and influence. The course and the readings will be offered in English.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 35597 COLLOQUIUM 3 Credit Hours
(Repeatable for credit)Variable topic course deals with single literary theme in Italian literature or a single author. May be offered in Italian or in English translation.
Prerequisite: Permission.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter

ITAL 45093 VARIABLE TITLE WORKSHOP IN ITALIAN 1-6 Credit Hours
(Repeatable for credit)Workshops individually designed to provide instruction and training in specific areas of Italian studies.
Prerequisite: Departmental permission.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ITAL 45095 SPECIAL TOPICS IN ITALIAN 3 Credit Hours
Designed to instruct students on a specific topic in the area of Italian studies.
Prerequisite: ITAL 35211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ITAL 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Italian language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Italian (ITAL) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

ITAL 45212 ADVANCED ITALIAN CONVERSATION 3 Credit Hours
Designed to develop students' ability to employ acquired grammar and vocabulary in conversation in Italian. Students will elaborate on cultural and social aspects of Italy presented in class and actively participate in class discussions.
Prerequisite: ITAL 35211 or 35213.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Japanese (JAPN)

JAPN 15101 ELEMENTARY JAPANESE I 4 Credit Hours
Introduction to modern standard Japanese in the context of Japanese culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

JAPN 15102 ELEMENTARY JAPANESE II 4 Credit Hours
A continuation of the introduction to modern standard Japanese in the context of Japanese culture.
Prerequisite: JAPN 15101.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

JAPN 25201 INTERMEDIATE JAPANESE I 4 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: Minimum C- grade in JAPN 15102.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

JAPN 25202 INTERMEDIATE JAPANESE II 4 Credit Hours
Continuation of JAPN 25201.
Prerequisite: JAPN 25201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

JAPN 30095 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)Topic to be announced in schedule of classes.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 35010 INTERMEDIATE READING 3 Credit Hours
The goal of this course is to achieve basic to intermediate competency with reading modern Japanese, develop reading strategies and comprehend and discuss the content of the readings. The course is conducted in both English and Japanese and consists of close, collaborative readings of texts. Students are required to give small presentations and complete weekly assignments and quizzes. There is also a midterm and final exam.
Prerequisite: JAPN 25201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 35101 INTENSIVE JAPANESE GRAMMAR 3 Credit Hours
A continuation of the study of modern standard Japanese grammar. Focus on passive, causative, passive-causative forms.
Prerequisite: JAPN 25202 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 35325 READINGS IN MODERN JAPANESE 3 Credit Hours
Close readings of contemporary Japanese topics such as technology, pop culture, food, geography, etc. Emphasizes reading skills, vocabulary, and kanji.
Pre/corequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 35326 ADVANCED READING 3 Credit Hours
This course is a continuation of JAPN 35010. The goal of this course is to achieve intermediate to advanced competency with reading modern Japanese, develop reading strategies and comprehend and discuss the content of the readings. The course is conducted in both English and Japanese and consists of close, collaborative readings of texts. Students are required to give small presentations and complete weekly assignments and quizzes. There is also a midterm and final exam.
Prerequisite: JAPN 35010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Japanese language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Japanese (JAPN) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

JAPN 45211 WRITING IN JAPANESE 3 Credit Hours
Advanced study of Japanese with emphasis on writing in different styles (essays, questionnaires, charts, emails, etc).
Pre/corequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45212 ORAL COMMUNICATION IN JAPANESE 3 Credit Hours
The class focuses on oral communication. Students practice expressing their opinions on familiar subjects and various topics related to Japanese culture through group discussion, interviews, role plays, and presentations. They learn different communication strategies and conversation styles from casual to formal.
Pre/corequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45301 BUSINESS JAPANESE 3 Credit Hours
Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.
Prerequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

JAPN 45411 VOICES FROM JAPAN 3 Credit Hours
Designed to further develop students' proficiency in speaking, listening, writing and reading comprehension. The textbook includes interviews with Japanese from various backgrounds.
Pre/corequisite: JAPN 35101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45421 JAPANESE CULTURE 3 Credit Hours
Explores key aspects of traditional and contemporary Japanese culture. Taught in English; no knowledge of Japanese necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 45591 VARIABLE TOPIC SEMINAR IN JAPANESE 3 Credit Hours
(Repeatable for credit) Seminar in Japanese literature or culture; course may be repeated when content varies. Student should have completed at least 9 hours of upper division work in Japanese.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

JAPN 55301 BUSINESS JAPANESE 3 Credit Hours
Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 65010 THE PRACTICE OF JAPANESE TRANSLATION 2 Credit Hours
Provides an introduction to the translation of non-specialized, non-fiction Japanese texts, focusing on common problem areas, general translation strategies, and specific techniques for resolving problems.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

JAPN 65091 SEMINAR IN JAPANESE TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized Japanese translation projects currently of concern in the translation industry. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: JAPN 65010 and TRST 60010; and graduate studies.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

JAPN 65098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Japanese language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

JAPN 65240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treaties and essays.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 65250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 65251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JAPN 65979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

Latin (LAT)

LAT 16201 ELEMENTARY LATIN I 4 Credit Hours
An introduction to the classical Latin language in the context of ancient Roman culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

LAT 16202 ELEMENTARY LATIN II 4 Credit Hours
A continuation of the introduction to the classical Latin language in the context of ancient Roman culture.
Prerequisite: LAT 16201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

LAT 26201 INTERMEDIATE LATIN I: READINGS 3 Credit Hours
Excerpts from Latin literature with emphasis on translation into English.
Prerequisite: LAT 16202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

LAT 26202 INTERMEDIATE LATIN II: READINGS 3 Credit Hours
Excerpts from Latin literature with emphasis on both prose (e.g., Caesar, Cicero) and poetry (Vergil, Catullus).
Prerequisite: LAT 26201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

LAT 36172 ADVANCED READINGS IN LATIN 3 Credit Hours
Readings in the original Latin of prose and poetry authors studied from a literary and grammatical standpoint.
Prerequisite: LAT 26202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41214 LATIN EPIGRAPHY 3 Credit Hours
Study of ancient inscriptions (funerary, career, documentary, graffiti, etc.) preserved on any kind of durable material, with focus on cultural information necessary to understand the content and significance of the inscriptions under investigation.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41304 ROMAN HISTORIANS 3 Credit Hours
(Slashed with LAT 51304) Stylistics and cultural context of Roman historians. Readings from any of the following: Caesar, Livy, Suetonius, Tacitus.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41305 ROMAN COMEDY AND SATIRE 3 Credit Hours
Stylistics, history and cultural context of Roman comedy and satire. Readings from any of the following: Plautus, Terence, Horace, Juvenal, Persius, Martial.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41306 LATIN EPIC 3 Credit Hours
(Slashed with LAT 51306) Stylistics, history and cultural context of Latin epic poetry. Readings from any of the following: Vergil, Lucretius, Ovid, Lucan, Statius.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41307 LYRIC AND ELEGIAC POETRY 3 Credit Hours
(Slashed with LAT 51307) Stylistics, history and cultural context of Latin lyric and elegiac poetry. Readings from any of the following: Catullus, Horace, Propertius, Tibullus, Ovid.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 41308 ORATORY AND LETTERS 3 Credit Hours
Stylistics, history and cultural context of Latin oratory and the Latin epistle. Readings from any of the following: Cicero, Seneca, Pliny.
Prerequisite: LAT 36172; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 46095 SELECTED TOPICS IN LATIN 3 Credit Hours
(Repeatable for credit) Topic announced in the schedule of classes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 46096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Latin language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Latin (LAT) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

LAT 46211 LATIN PROSE COMPOSITION 3 Credit Hours
Analysis of prose models; writing of connected Latin prose with attention to the Latin idiom.
Prerequisite: LAT 36172.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 51304 ROMAN HISTORIANS 3 Credit Hours
(Slashed with LAT 41304) Stylistics and cultural context of Roman historians. Readings from any of the following: Caesar, Livy, Suetonius, Tacitus.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 51306 LATIN EPIC 3 Credit Hours
(Slashed with LAT 41306) Stylistics, history and cultural context of Latin epic. Readings from any of the following: Vergil, Ovid, Lucan, Lucretius, Statius.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 51307 LYRIC AND ELEGIAC POETRY 3 Credit Hours
(Slashed with LAT 41307) Stylistics, history and cultural context of Latin lyric and elegiac poetry. Readings from any of the following. Catullus, Horace, Propertius, Tibullus, Ovid.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 56095 SELECTED TOPICS IN LATIN 3 Credit Hours
(Repeatable for a maximum of 15 credit hours)Topic to be announced in semester schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 61001 RESEARCH AND WRITING 3 Credit Hours
Use of lexical tools, bibliographies and corpora specific to research in Classics and Latin. Conventions of scholarship in the discipline of Classics. To be taken in conjunction with a 50000 or 60000-level course in Latin literature.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 61214 LATIN EPIGRAPHY 3 Credit Hours
Study of ancient inscriptions (funerary, career, documentary, graffiti, etc.) preserved on any kind of durable material, with focus on cultural information necessary to understand the content and significance of the inscriptions under investigation.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 61305 ROMAN COMEDY AND SATIRE 3 Credit Hours
Stylistics, history and cultural context of Roman comedy and satire. Readings from any of the following: Plautus, Terence, Horace, Juvenal, Persius, Martial.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 61308 ORATORY AND LETTERS 3 Credit Hours
Stylistics, history and cultural context of Latin oratory and the Latin epistle. Readings from any of the following: Cicero, Seneca, Pliny.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 66199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LAT 66211 ADVANCED PROSE COMPOSITION 3 Credit Hours
More thorough training in composition where need is established.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LAT 66299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: LAT 66199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LAT 66391 SEMINAR IN CLASSICAL LITERATURE 2,3 Credit Hours
(Repeatable for credit)Topics to be announced.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP

LAT 66398 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Latin language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

Modern and Classical Language Studies (MCLS)

MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS 3 Credit Hours
Prepares students for successful study of a foreign language; includes introduction to basic grammatical concepts such as use of verb tenses, personal pronouns, etc., as well as strategies for learning a foreign language efficiently.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 10095 SPECIAL TOPICS IN ELEMENTARY FOREIGN LANGUAGE STUDY 1-3 Credit Hours
(Repeatable for credit) Study of a foreign language at the elementary level (Elementary I or II) or intermediate level (Intermediate I or II) as determined appropriate by the department. No proficiency needed for work at the Elementary I level; proficiency equivalent of Elementary I for work at the Elementary II level, at Elementary II for the Intermediate I level, and at Intermediate I for the Intermediate II level.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 other
Grade Mode: Standard Letter

MCLS 14421 INTRODUCTION TO YIDDISH LANGUAGE AND CULTURE 3 Credit Hours
This course is an introduction to the Yiddish language and the culture of Eastern European Jewry. The objectives of the course are twofold. The first is linguistic. Students should be able to read and write basic Yiddish and understand the fundamentals of Yiddish grammar. The second important objective of this course is to offer students an introduction to the richness of Yiddish culture of the past two centuries. This component of the course will include lectures and readings in English, films (documentary and dramatic), poetry, short fiction along with folk tales in English translation and the singing of Yiddish folk songs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 20001 GLOBAL LITERACY AND CULTURAL AWARENESS (KADL) 3 Credit Hours
Introduction to dimensions of cultural identity and parameters of cultural expression, with a focus on fostering cultural awareness skills. By exploring the ways in which culture shapes us, students gain a better understanding of the dynamics shaping their world, the world of others, and their respective places in it. Discussion of real-world critical incidents, authentic cultural ethnographies, and case studies provide students with concrete examples and contexts to solve problems linked to encounters with persons of different linguistic and cultural backgrounds.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Additional

MCLS 20089 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) A study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. This course includes some language skill development content during the international experience, varying as appropriate on a case by case basis.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES 3 Credit Hours
(Repeatable for credit) In-depth study of the interaction between two or more cultures of the world, focusing on the impact of linguistic and other cultural differences. Topics will vary.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG) 3 Credit Hours
This course examines how issues of diversity have shaped German culture and traces the country's transformation into a postnational, multicultural society. Taught in English; knowledge of German not necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

MCLS 21420 WOMEN OF ARAB SOCIETIES 3 Credit Hours
This course will consider questions and lead to fruitful discussions about the changing roles and representation of women in contemporary Arab societies. It will highlight the social forces behind Arab women's status in society. It will also enable a better understanding of how Arab women are perceived in local, regional, and global contexts. The course is taught in English, does not presume prior knowledge in Arabic, and is open to all students in any program.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 22217 DIVERSITY IN TODAY'S RUSSIA (DIVG) 3 Credit Hours
This course examines how issues of diversity have shaped Russian culture and traces Russia's attempts at transition to a postnational, multicultural society. Taught in English; knowledge of Russian not necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

MCLS 28403 HISPANICS IN THE UNITED STATES 3 Credit Hours
An introduction to historic and cultural aspects of Latino experiences in the United States using a comparative approach focusing on Mexicans, Puerto Ricans, Cubans, Central Americans and other immigrants from other Latin American countries, living in the United States. The course is taught in English.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG) 3 Credit Hours
An introduction to various aspects of contemporary Latin American societies and cultures. Taught in English; knowledge of a foreign language is not necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

MCLS 30089 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) A Kent State faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. This course includes some language skill development content during the international experience, varying as appropriate on a case by case basis.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MCLS 30096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual research on a topic dealing with modern and classical language topics carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

MCLS 30420 FOREIGN LANGUAGES AND CULTURE STUDIES 3 Credit Hours
Examines the anthropological, linguistic and cultural dimensions involved in language interactions. Students acquire the skills necessary to analyze language and culture “in action” from verbal and non-verbal perspectives, and to identify and reflect on the distinctive viewpoints of other cultures and speakers of other languages. Interactive lectures, discussions and application activities build on students' current linguistic and cultural competence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 30660 ORIENTATION TO SECOND LANGUAGE PEDAGOGY 3 Credit Hours
Theories of human development and learning, second language acquisition research and second language methodology form the basis for classroom practices. Peer-teaching and 30 hours of field experience required.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 39597 INTRADEPARTMENTAL COLLOQUIUM 1-4 Credit Hours
(Repeatable for credit)Permits students to explore areas of special interest not usually covered in standard departmental courses, e.g. movies and literature, women in literature.
Prerequisite: None.
Schedule Type: Colloquium
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MCLS 40093 VARIABLE TITLE WORKSHOP IN MODERN AND CLASSICAL LANGUAGE STUDIES 1-6 Credit Hours
(Repeatable for credit)Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies.
Prerequisite: Departmental special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MCLS 40095 SELECTED TOPICS 1-3 Credit Hours
(Repeatable for credit when topic varies) Topic to be announced in the schedule of classes.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MCLS 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual research on a topic dealing with modern and classical language topics carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

MCLS 40510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with CS 40510)(Slashed with CS 50510, CS 70510, MCLS 50510 and MCLS 70510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 40525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
Foreign language teaching as a profession and the teacher as disciplined investigator. The final seminar of four it is conducted during the student teaching semester with emphasis on collaborative and individual classroom problem solving.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 40654 TECHNOLOGY AND SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Slashed with MCLS 50654) During this course, students explore the use of current technology, its implementation in the classroom and its integration with second language skills. This course is designed for future teachers or any student interested in technology and second language acquisition.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 40660 METHODS OF TEACHING FOREIGN LANGUAGE 3 Credit Hours
Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels. Peer-teaching and 30 hours of field experience required.
Prerequisite: MCLS 30660; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 40692 STUDENT TEACHING OF A SECOND LANGUAGE (ELR) 3-9 Credit Hours
(Repeatable for credit) Supervised practicum in the teaching of a second language, grades K-12.
Prerequisite: MCLS 30660 and MCLS 40660; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MCLS 50093 VARIABLE TITLE WORKSHOP IN MODERN AND CLASSICAL LANGUAGE STUDIES 1-6 Credit Hours
(Repeatable for credit)Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MCLS 50095 SELECTED TOPICS 1-3 Credit Hours
(Repeatable for credit when topic varies)Topic to be announced in the schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MCLS 50510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with CS 50510)(Slashed with CS 40510, CS 70510, MCLS 40510 and MCLS 70510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 50654 TECHNOLOGY AND SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Slashed with MCLS 40654) During this course, students explore the use of current technology, its implementation in the classroom and its integration with second language skills. This course is designed for future teachers or any student interested in technology and second language acquisition.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 50660 METHODS OF TEACHING FOREIGN LANGUAGES 3 Credit Hours
Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels. Peer teaching 30 hours of field experience and curriculum guide required.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60094 COLLEGE TEACHING OF FOREIGN LANGUAGES 1 Credit Hour
(Repeatable for credit)An introduction to current principles and issues in the teaching of foreign languages at the college elementary and intermediate levels. Required of departmental teaching assistants.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

MCLS 60098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic related to modern and classical language studies carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

MCLS 60330 APPROACHES TO LITERATURE AND CULTURE 3 Credit Hours
Introduction to the major critical theories used for the analysis of literature and culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60601 LINGUISTICS FOR THE LANGUAGE PROFESSIONS 3 Credit Hours
(Cross-listed with ENG 63040) Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60622 TEACHING LITERATURE AND CULTURE 3 Credit Hours
(Cross-listed with ENG 63038) Students explore theories of literature and culture teaching as well as strategies for teaching literature and culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60623 SOCIOCULTURAL THEORY AND FOREIGN AND SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Cross-listed with ENG 63048) The foundations of sociocultural theory and its applications to the second and foreign language classroom.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60624 HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING 3 Credit Hours
(Cross-listed with ENG 63047) Theory and practice in language education of heritage language speakers. Ethnic, minority, ancestral, and community languages and language practices will be explored with implications for second and additional language learning in English, foreign language, bilingual education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60625 SOCIOLINGUISTICS 3 Credit Hours
(Cross-listed with ENG 63034)(Slashed with ENG 73034) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60661 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours
(Slashed with ENG 63033 and ENG 73033) This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60663 SECOND LANGUAGE CURRICULUM AND ASSESSMENT 3 Credit Hours
(Cross-listed with ENG 63039) Students study second language curriculum and assessment design and current issues, including oral proficiency testing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60664 SECOND LANGUAGE READING 3 Credit Hours
(Cross-listed with ENG 63044) This course addresses a wide variety of topics related to second language reading, including theoretical perspectives, the process of learning to read, models of how reading happens, comprehension, fluency, discourse structures, strategy use, and vocabulary acquisition. Teaching issues related to second language reading will also be addressed directly, namely assessment and curriculum building.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 60665 SECOND LANGUAGE WRITING 3 Credit Hours
(Cross-listed with ENG 63043) Theory and practice in teaching second language writing. Topics will include current and historic approaches to second language writing, approaches to tutoring international students in writing centers, teacher and peer response, error correction and technology in second language writing instruction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 63049 SECOND LANGUAGE RESEARCH METHODS 3 Credit Hours
(Cross-listed with ENG 63049) This course provides students with skills for reading, interpreting and conducting research studies investigating second/foreign language teaching, learning and/or use. Students learn about quantitative and qualitative research methods commonly used in second language research. Students also conduct a research project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCLS 70510 INTRODUCTION TO NATURAL LANGUAGE PROCESSING 3 Credit Hours
(Cross-listed with CS 70510)(Slashed with CS 40510, CS 50510, MCLS 40510 and MCLS 50510) This course provides an introduction to natural language processing, discusses methods to analyze translation product and translation process data and applies and evaluates machine learning methods on natural language data. Students use tools to transform texts into structured representations that are elementary for numerous applications, artificial intelligence, data analytics and predictive modeling. Knowledge of Python is strongly encouraged, but not required.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Russian (RUSS)

RUSS 12201 ELEMENTARY RUSSIAN I 4 Credit Hours
An introduction to the Russian language in the context of Russian cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

RUSS 12202 ELEMENTARY RUSSIAN II 4 Credit Hours
A continuation of the introduction to the Russian language in the context of Russian cultures.
Prerequisite: RUSS 12201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

RUSS 22201 INTERMEDIATE RUSSIAN I 3 Credit Hours
Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.
Prerequisite: RUSS 12202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 22202 INTERMEDIATE RUSSIAN II 3 Credit Hours
Continuation of RUSS 22201 in the development of speaking, listening, reading and writing in a variety of Russian cultural contexts.
Prerequisite: RUSS 22201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 22215 RUSSIAN PHONETICS AND DICTION 3 Credit Hours
Study of the Russian sound system with special emphasis on pronunciation and intonation. Application of the international phonetic alphabet to Russian.
Prerequisite: RUSS 12202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32201 INTENSIVE RUSSIAN GRAMMAR 3 Credit Hours
A systematic approach to Russian grammar and syntax.
Prerequisite: RUSS 22202 .
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32211 COMPOSITION AND CONVERSATION 3 Credit Hours
Introduction to advanced oral and written discourse strategies in Russian.
Prerequisite: RUSS 22202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32231 TRANSLATION PRACTICE: RUSSIAN 1 Credit Hour
Translation practice with Russian texts using principles and techniques learned in the lecture class.
Prerequisite: RUSS 22202.
Pre/corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RUSS 32240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: RUSSIAN 3 Credit Hours
Introduction to the special vocabulary of business and other special subject areas. Course introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations and oral presentations in business and other related settings.
Prerequisite: RUSS 22202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32303 MODERN WRITERS (ELR) (WIC) 3 Credit Hours
Reading and analysis of modern Russian plays and stories.
Prerequisite: RUSS 22202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

RUSS 32320 PROSE OF VLADIMIR NABOKOV 3 Credit Hours
A study of selected prose works of Russian-American author Vladimir Nabokov. This course is taught in English and is open to students in any program.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 32421 RUSSIAN CIVILIZATION (ELR) (WIC) 3 Credit Hours
A survey of Russian cultural history and intellectual life in the pre-Soviet, Soviet, and post-Soviet periods.
Prerequisite: RUSS 32201 or RUSS 32211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

RUSS 32501 RUSSIAN LITERATURE IN ENGLISH 3 Credit Hours
Survey of major authors, movements and works of Russian literature from the early nineteenth century to present in English translation. No knowledge of Russian is required.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 42095 SPECIAL TOPICS IN RUSSIAN LANGUAGE AND LITERATURES 1-4 Credit Hours
(Repeatable for credit) Topic varies per course offering; to be announced in schedule of classes.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

RUSS 42096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Russian language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Russian (RUSS) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

RUSS 42211 ADVANCED COMPOSITION AND CONVERSATION 3 Credit Hours
(Slashed with RUSS 52211) Advanced practice in written and oral expression in Russian through engagement with visual media.
Prerequisite: RUSS 32211 or RUSS 32201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 42216 RUSSIAN POPULAR CULTURE 3 Credit Hours
This course offers students a chance to familiarize themselves with prominent figures in Russian culture of the post-Soviet period, including journalists, actors, musicians, athletes, film directors, and other cultural personalities. The students will engage in thinking and communicating across a range of disciplines, such as history, literature, sociology, and anthropology. The course focuses on students' advanced oral and written production. Learners will acquire cultural knowledge and analyze developments in post-Soviet Russian culture while expanding their vocabulary and structures.
Prerequisite: RUSS 32201 or RUSS 32211.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

RUSS 42230 ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC) 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes Russian-to-English translation of selected texts in business, technology, medicine and law.
Prerequisite: RUSS 32231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

RUSS 42240 BUSINESS AND SPECIAL TEXTS: RUSSIAN 3 Credit Hours
Survey of typical business-related text types in Russian. Focus on reading and understanding specialized business-related texts and on the translation and composition of selected special texts in Russian.
Prerequisite: Any 30000-level Russian course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 42351 SURVEY OF RUSSIAN AND SOVIET LITERATURE 3 Credit Hours
(Slashed with RUSS 52351) Introduces students to the major movements and authors of Russian, Soviet and post-Soviet literature, from the late eighteenth century to today.
Prerequisite: 3 credit hours of upper-division Russian courses (RUSS 30000 or 40000 levels).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 52211 ADVANCED COMPOSITION AND CONVERSATION 3 Credit Hours
(Slashed with RUSS 42211) Advanced practice in written and oral expression in Russian.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 52351 SURVEY OF RUSSIAN AND SOVIET LITERATURE 3 Credit Hours
(Slashed with RUSS 42351) Introduces students to the major movements, authors and works of Russian, Soviet and post-Soviet literature, beginning in the late eighteenth century and ending in the early twenty first century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 62010 THE PRACTICE OF RUSSIAN TRANSLATION 2 Credit Hours
Students apply linguistic and communication science concepts to case studies of language mediation.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RUSS 62091 SEMINAR IN RUSSIAN TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized Russian translation projects currently of concern in the translation industry. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: RUSS 62010 and TRST 60010; and graduate studies.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

RUSS 62098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Russian language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

RUSS 62240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treaties and essays. Translation into Russian will also be emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 62250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 62251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resource for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RUSS 62979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students are responsible for a major translation and a terminology glossary, as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

Spanish (SPAN)

SPAN 18201 ELEMENTARY SPANISH I 4 Credit Hours
An introduction to the Spanish language in the context of Hispanic cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

SPAN 18202 ELEMENTARY SPANISH II 4 Credit Hours
A continuation of the introduction to the Spanish language in the context of Hispanic cultures.
Prerequisite: SPAN 18201.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

SPAN 18489 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) This course is a faculty-led experience in a Spanish-speaking country that involves both in-class and out-of-class experiences. Students are placed into an appropriate level language course according to their Common European Framework of References for Language Proficiency (CEFR) score. During class, students study grammar, vocabulary and culture and engage in reading, writing, listening and speaking activities as in a traditional language class. Outside of class, students tour cultural sites and participate in various cultural activities.
Prerequisite: SPAN 18201.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

SPAN 28201 INTERMEDIATE SPANISH I 3 Credit Hours
A continuation of the development of listening, speaking, reading and writing skills using a variety of material on the Spanish language in the context of Hispanic cultures.
Prerequisite: SPAN 18202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

SPAN 28202 INTERMEDIATE SPANISH II 3 Credit Hours
A continuation of the development of listening, speaking, reading and writing skills using a variety of material on the Spanish language in the context of Hispanic cultures and specific areas of study like culture, business, justice, etc.
Prerequisite: SPAN 28201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Foreign Language

SPAN 28489 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) This course is a faculty-led experience in a Spanish-speaking country that involves both in-class and out-of-class experiences. Students are placed into an appropriate level language course according to their Common European Framework of References for Language Proficiency (CEFR) score. During class, students study grammar, vocabulary and culture and engage in reading, writing, listening and speaking activities as in a traditional language class. Outside of class, students tour cultural sites and participate in various cultural activities.
Prerequisite: SPAN 18202.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

SPAN 38211 SPANISH GRAMMAR AND COMPOSITION 3 Credit Hours
This course focuses on progressively increasing grammatical competence to communicate in writing through the development of skills to describe, narrate, expose and create arguments on general interest, and academic topics.
Prerequisite: SPAN 28202 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38213 SPANISH READING AND CONVERSATION 3 Credit Hours
This course will provide continuous opportunities to practice Spanish based on selected non-literary and literary readings (such as poems, essays, short stories, theater, and short novels) and film. The readings and films cover diverse topics, such as art, politics, history, culture, and literature. We will concentrate on building vocabulary, reading skills, speaking and listening skills, reviewing important grammatical structures, and practicing the analysis of literature, culture, and current events.
Prerequisite: SPAN 28202 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38215 SPANISH PHONETICS AND DICTION 3 Credit Hours
Study of the modern Spanish language sounds and practical application through extensive interactive listening and speaking activities addressing various Hispanic culture.
Prerequisite: SPAN 28202 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38231 TRANSLATION PRACTICE: SPANISH 1 Credit Hour
Translation practice with Spanish texts using principles and techniques learned in the lecture class. To be taken concurrently with TRST 30230.
Corequisite: TRST 30230.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPAN 38240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: SPANISH 3 Credit Hours
This course introduces students to concepts, specialized vocabulary, and social-, cultural- and economic- considerations when engaging in interactions with Spanish speakers in business and other professional settings. Some of the business topics include globalization, types of businesses and industries, organizational structures, leadership, management, personnel, banking and finance, accounting, economics, marketing and advertising, the business office, technology, ethics, and business laws. Topics in cross-cultural communication include etiquette and socio-pragmatic conventions, solidarity and deference, directness and indirectness, language variation, non-verbal communication, personalism, individualism, cultural priorities, management styles, establishing trust, and equality and equity in the workplace. While students will engage in background reading on the business and cultural topics, in this first of the two-course Business Spanish series, emphasis will be on developing interpersonal-, presentational- and interpretive communication skills mainly in the oral and aural modalities. Course materials, activities and assessments will be carried out within the framework of World-Readiness Standards for Learning Languages (National Standards Collaborative Board) and the "5 C's": Communication, Cultures, Connections, Comparisons and Communities.
Prerequisite: SPAN 28202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38291 SEMINAR IN SPANISH FOR THE PROFESSIONS 1-4 Credit Hours
(Repeatable for credit) A variable topics course designed to advance students' proficiency in Spanish in specialized areas such as business, communication, education, healthcare, hospitality, sciences, international relations, human services, advertising, journalism, technology and other fields in which there is currently a high demand for bilingual English-Spanish speakers. The class conforms to the World Readiness Standards for Learning Languages: communication, comparisons, cultures, connections and communities; and aims to increase students' competency across all these dimensions. Course focuses on oral and written communication.
Prerequisite: SPAN 28202.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

SPAN 38303 MEDICAL SPANISH TRANSLATION AND INTERPRETING 3 Credit Hours
An introduction to medical translation and interpreting, also known as healthcare translation and interpreting. Sociolinguistic, legal, and pragmatic dimensions of translation, cross-cultural health literacy, intercultural competency, text analysis, common medical text types and basic terminology; text production in English of Spanish medical documents, strategies of research, documentation and transfer. The rudiments of interpreting in health care environments; protocol, ethics, and credentialing in the language mediation industry; public health policy as it affects Latino and Latina populations. Spanish-English, English-Spanish language combination. Note: translation refers to written texts; interpreting to spoken language.
Prerequisite: SPAN 28202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38330 EARLY SPANISH LITERATURE (ELR) (WIC) 3 Credit Hours
Outline of development, reading of representative works to 1700.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 38331 RECENT SPANISH LITERATURE (ELR) (WIC) 3 Credit Hours
Outline of development, reading of representative works 1700 present.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 38334 EARLY SPANISH-AMERICAN LITERATURE (ELR) (WIC) 3 Credit Hours
Outline of development, reading of representative works including indigenous literature, 1492-1882.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 38335 RECENT SPANISH-AMERICAN LITERATURE (ELR) (WIC) 3 Credit Hours
Outline of the development of modern Spanish-American literature (1882 to the present). Reading of representative works.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 38421 CIVILIZATION OF SPAIN 3 Credit Hours
General survey of evolution of Spanish civilization from antiquity to present day.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38424 CULTURE AND CIVILIZATION OF LATIN AMERICA 3 Credit Hours
This course focuses on a study of the historical and cultural development of Latin America, with emphasis on Spanish America, as reflected in its geography, history, art, political and social institutions encompassing from Pre-Hispanic times to the present.
Prerequisite: SPAN 38211 or SPAN 38213.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 38489 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) This course is a faculty-led experience in a Spanish-speaking country that involves both in-class and out-of-class experiences. Students are placed into an appropriate level language course according to their Common European Framework of References for Language Proficiency (CEFR) score. During class, students study grammar, vocabulary and culture and engage in reading, writing, listening and speaking activities as in a traditional language class. Outside of class, students tour cultural sites and participate in various cultural activities.
Prerequisite: One Spanish (SPAN) upper-division course (30000 or 40000 level).
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

SPAN 38912 SPANISH LINGUISTICS: WORDS, ROOTS AND AFFIXES 3 Credit Hours
Through readings, lectures, multimedia, discourse analysis and language-production tasks, this course in Spanish morphology provides students with the tools to expand their vocabulary exponentially though the application of word-building rules and conventions. Students learn how to predict the form and meaning of Spanish words they have not yet encountered by applying derivational rules such as forming nouns and adjectives from verbs, adjectives from nouns and adverbs from adjectives and nouns. Additionally, students learn how Spanish uses prefixes and suffixes, for example, those that express negation, opposition, repetition, location, size, purpose or affect to alter a word's basic meaning, and how new words come into the Spanish language through processes like word coinage and lexical borrowing. Finally, students are introduced to the topic of lexical variation as it occurs over time, across regions and that resulting from language contact; social- and situational factors; technological innovation; and speakers' identity and preferences.
Prerequisite: SPAN 28201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48095 SELECTED TOPICS IN SPANISH 3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Topic announced in Schedule of Classes.
Prerequisite: 9 hours above 20000-level of Spanish courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with Spanish language or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Spanish (SPAN) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

SPAN 48215 ADVANCED SPANISH COMPOSITION AND CONVERSATION 3 Credit Hours
This course focuses on descriptive, summary, narrative, expository and argumentative oral and written styles addressing topics dealing with diverse areas of Hispanic culture as presented through literary and nonfiction texts.
Prerequisite: SPAN 38211 and SPAN 38213; and one additional Spanish (SPAN) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48216 CONTEMPORARY HISPANIC CULTURE 3 Credit Hours
A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world.
Prerequisite: 6 hours from 30000-level Spanish courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48230 ADVANCED TRANSLATION PRACTICE: SPANISH (ELR) (WIC) 3 Credit Hours
Theory and practice course that discusses translation theory and emphasizes Spanish-to-English translation of selected texts in business, technology, medicine and law.
Prerequisite: SPAN 38231.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPAN 48240 BUSINESS AND SPECIAL TEXTS: SPANISH 3 Credit Hours
Survey of the typical text types of business in the Spanish culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Spanish.
Prerequisite: SPAN 38211.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48291 SEMINAR IN GARCÍA LORCA 3 Credit Hours
(Slashed with SPAN 58291) (Repeatable for credit) This seminar is an in-depth interdisciplinary study of Federico García Lorca's literary works and their film adaptations in their socio-historical, artistic and cultural contexts. Thematic approaches to Lorca's works and person cover a variety of study topics such as political repression and social class, honor and desire, religion and taboo, homoerotism and gay identity, the subversion of women gender roles and sexuality in the patriarchal society, independently or along with others. Books, articles, documentaries and films situate Lorca's works within the historical, socio-political and cultural contexts that shaped Spain prior to the Civil War. Critical works provide the necessary framework for the analysis of the primary sources.
Prerequisite: SPAN 38211 and SPAN 38213.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPAN 48314 CINEMA AND CULTURE: SPANISH AMERICA TODAY 3 Credit Hours
(Slashed with SPAN 58314) This course explores contemporary Spanish America through Spanish-language feature films and authentic cultural texts. Topics include politics, education, religion, indigenous traditions, economic issues, music, art and family life. Each course unit examines one film and interviews, cultural notes and articles on the topic.
Prerequisite: SPAN 38211 or SPAN 38213 or SPAN 38331 or SPAN 38334 or SPAN 38335.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48325 IDENTITY, POLITICS AND GENDER IN PUERTO RICAN FICTION 3 Credit Hours
(Slashed with SPAN 58325) This course focuses on critical analyses of a diverse corpus of literary pieces written by prominent Puerto Rican authors. It addresses the following topics: the jíbarao identity vis a vis the political and cultural practices of americanización (Americanization), the migratory waves from the countryside to San Juan and the United States, and constructs of gender and LGBTQ identity articulated in the literary discourse.
Prerequisite: SPAN 38421 or SPAN 38424.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48376 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3 Credit Hours
The development of the Spanish-American short story from 1917 to the present.
Prerequisite: 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48378 U.S. LATINA/O WRITERS 3 Credit Hours
The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters.
Prerequisite: SPAN 38211 and SPAN 38213; and one of the following: SPAN 38330 or SPAN 38331 or SPAN 38334 or SPAN 38335.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48391 SEMINAR IN DETECTIVE FICTION IN SPANISH 3 Credit Hours
(Slashed with SPAN 58391) (Repeatable for credit) Students read and view a selection of detective fiction texts and films. They become familiar with detective fiction theory and cultural and political issues, such as dictatorships, national movements, class, gender, and race issues.
Prerequisite: Two upper-division (30000 level and 40000 level) courses in Spanish.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SPAN 48422 EARLY SPANISH-AMERICAN DISCOURSE 3 Credit Hours
This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression.
Prerequisite: SPAN 38213 and SPAN 38334.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48424 SPANISH-AMERICAN CULTURE THROUGH SONGS 3 Credit Hours
(Slashed with SPAN 58424) The main objective of this course is to critically analyze a selection of songs organized by topics that address major cultural trends, changes or movements in Spanish America and regions in the US known for their Latino presence. Classes consist of close analysis of lyrics, their musical arrangement and cultural representations connected to historical events and ethnic identities as discussed in supporting documents. Some activities involve face-to-face and LMS group discussions on topics like similarities and differences among Spanish-American countries, Spanish-American Indigenous nations, Hispanic/Latino in the US, family ties, the role of women, socio-political movements, customs and folklore, literature and art.
Prerequisite: SPAN 38211 or SPAN 38213.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SPAN 48491 SEMINAR IN MODERN SPAIN 3 Credit Hours
(Slashed with SPAN 58491) In-depth study of modern Spain, including themes such as art, literature, film, history, politics, social movements, and other manifestations of modern Spain. Historical and political topics such as the Spanish transition to democracy, the post-transition disillusion, neoliberalism in Spain, Nationalisms of the periphery, and social movements like the "Indignados" or 15M may be covered. Artistic and cultural movements and genres such as "La movida Madrileña," the popular novel, and the detective novel and film noir may also be covered.
Prerequisite: Minimum C grade in three SPAN 30000-level (or higher) courses.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48900 INTRODUCTION TO HISPANIC LINGUISTICS 3 Credit Hours
(Slashed with SPAN 58900) This course introduces students to the major areas and subareas of theoretical and applied linguistics with examples taken from varieties of the Spanish language. Students will learn how linguists describe and analyze the features and patterns of the Spanish language both in the abstract and within social, discursive contexts. Students will learn about the predominant methods for gathering and analyzing Spanish language data in the various fields and subfields of Hispanic linguistics.
Prerequisite: SPAN 38211 or SPAN 38215 or SPAN 38912.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 48991 SEMINAR IN HISPANIC LINGUISTICS 3 Credit Hours
(Repeatable for credit) (Slashed with SPAN 58991) In this course, students will learn about the patterns of Spanish language structure and usage as investigated by scholars in specific fields of linguistics. Students will critically examine theoretical frameworks and empirical studies that describe and analyze the Spanish language both in the abstract and as used in real-life communication by native- and non-native speakers of Spanish.
Prerequisite: Two courses from the following: SPAN 38211, SPAN 38213, SPAN 38215, SPAN 38912, SPAN 48215.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58095 SELECTED TOPICS IN SPANISH 3 Credit Hours
(Repeatable for a maximum of 15 credit hours)Topic to be announced in semester schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58216 CONTEMPORARY HISPANIC CULTURE 3 Credit Hours
A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58291 SEMINAR IN GARCÍA LORCA 3 Credit Hours
(Slashed with SPAN 48291) (Repeatable for credit) This seminar is an in-depth interdisciplinary study of Federico García Lorca's literary works and their film adaptations in their socio-historical, artistic and cultural contexts. Thematic approaches to Lorca's works and person cover a variety of study topics such as political repression and social class, honor and desire, religion and taboo, homoerotism and gay identity, the subversion of women gender roles and sexuality in the patriarchal society, independently or along with others. Books, articles, documentaries and films situate Lorca's works within the historical, socio-political and cultural contexts that shaped Spain prior to the Civil War. Critical works provide the necessary framework for the analysis of the primary sources.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPAN 58314 CINEMA AND CULTURE: SPANISH AMERICA TODAY 3 Credit Hours
(Slashed with SPAN 48314) This course explores contemporary Spanish America through Spanish-language feature films and authentic cultural texts. Topics include politics, education, religion, indigenous traditions, economic issues, music, art and family life. Each course unit examines one film and interviews, cultural notes and articles on the topic.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58325 IDENTITY, POLITICS AND GENDER IN PUERTO RICAN FICTION 3 Credit Hours
(Slashed with SPAN 48325) This course focuses on critical analyses of a diverse corpus of literary pieces written by prominent Puerto Rican authors. It addresses the following topics: the jíbarao identity vis a vis the political and cultural practices of americanización (Americanization), the migratory waves from the countryside to San Juan and the United States, and constructs of gender and LGBTQ identity articulated in the literary discourse.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58376 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3 Credit Hours
The development of the Spanish-American short story from 1917 to the present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58378 U.S. LATINA/O WRITERS 3 Credit Hours
The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58391 SEMINAR IN DETECTIVE FICTION IN SPANISH 3 Credit Hours
(Slashed with SPAN 48391) (Repeatable for credit) Students read and view a selection of detective fiction texts and films. They become familiar with detective fiction theory and cultural and political issues, such as dictatorships, national movements, class, gender, and race issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SPAN 58422 EARLY SPANISH-AMERICAN DISCOURSE 3 Credit Hours
This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58424 SPANISH-AMERICAN CULTURE THROUGH SONGS (DIVG) 3 Credit Hours
(Slashed with SPAN 48424) The main objective of this course is to critically analyze a selection of songs organized by topics that address major cultural trends, changes or movements in Spanish America and regions in the US known for their Latino presence. Classes consist of close analysis of lyrics, their musical arrangement and cultural representations connected to historical events and ethnic identities as discussed in supporting documents. Some activities involve face-to-face and LMS group discussions on topics like similarities and differences among Spanish-American countries, Spanish-American Indigenous nations, Hispanic/Latino in the US, family ties, the role of women, socio-political movements, customs and folklore, literature and art.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

SPAN 58491 SEMINAR IN MODERN SPAIN 3 Credit Hours
(Slashed with SPAN 48491) In-depth study of late 20th and early 21st-century Spain, including themes such as art, literature, film, history, politics, social movements, and other manifestations of contemporary Spain. Historical and political topics such as the Spanish transition to democracy, the post-transition disillusion, neoliberalism in Spain, Nationalisms of the periphery, and social movements like the "Indignados" or 15M may be covered. Artistic and cultural movements and genres such as "La movida Madrileña," the popular novel, and the detective novel and film noir may also be covered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58900 INTRODUCTION TO HISPANIC LINGUISTICS 3 Credit Hours
(Slashed with SPAN 48900) This course introduces students to the major areas and subareas of theoretical and applied linguistics with examples taken from varieties of the Spanish language. Students will learn how linguists describe and analyze the features and patterns of the Spanish language both in the abstract and within social, discursive contexts. Students will learn about the predominant methods for gathering and analyzing Spanish language data in the various fields and subfields of Hispanic linguistics.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 58991 SEMINAR IN HISPANIC LINGUISTICS 3 Credit Hours
(Repeatable for credit) (Slashed with SPAN 48991) In this course students will learn about the patterns of Spanish language structure and usage as investigated by scholars in specific fields of linguistics. Students will critically examine theoretical frameworks and empirical studies that describe and analyze the Spanish language both in the abstract and as used in real-life communication by native- and non-native speakers of Spanish.
Prerequisite: Graduate Standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68010 THE PRACTICE OF SPANISH TRANSLATION 2 Credit Hours
Students apply linguistic and communication science concepts to case studies of language mediation.
Prerequisite: Graduate standing.
Corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPAN 68091 SEMINAR IN SPANISH TRANSLATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of methods and resources for specialized translation projects currently of concern in the translation industry across the Spanish-speaking world. Topics may focus on various sub-domains including law, finance, medicine, technology, cybersecurity, media translation, subtitling, etc.
Prerequisite: SPAN 68010 and TRST 60010; and graduate studies.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68095 SELECTED TOPICS 3 Credit Hours
(Repeatable for credit)Selected topics on Spanish literature or linguistics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with Spanish language, translation or culture carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

SPAN 68199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPAN 68215 ADVANCED SPANISH COMPOSITION AND CONVERSATION 3 Credit Hours
Focuses on description, summary, narration, exposition and argumentation on topics dealing with diverse areas of Hispanic culture as presented through literary and non-fiction texts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68231 TRANSLATION INTO SPANISH 3 Credit Hours
Provides advanced intensive practice in the translation of a variety of texts into Spanish. Translation issues and appropriate strategies are identified. Also provides practice in the evaluation of translations, the identification of professional issues, and an advanced review of linguistic and grammatical aspects of Spanish as they apply to translation.
Class meetings are conducted in a workshop format based on weekly assignments of readings and translation exercises.
Prerequisite: TRST 60010 and SPAN 68010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Spanish will also be emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of commercial, economic financial legal diplomatic and governmental documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAN 68299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SPAN 68199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPAN 68979 CASE STUDY IN TRANSLATION 3 Credit Hours
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

Translation Studies (TRST)

TRST 20009 MULTILINGUAL INFORMATION LIFECYCLE 3 Credit Hours
Introduction to the multilingual information cycle, including general technological issues, text preparation, translation in markup languages, computer-assisted translation tools and multilingual information flow for multilingual and multicultural work. Course is taught in English.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 30230 APPROACHES TO TRANSLATION 3 Credit Hours
Introduction to foreign language translation. Introduces concepts, resources, principles and techniques of text analysis and translation strategies applicable to various types of texts.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 30330 CROSS-LANGUAGE MEDIATION 3 Credit Hours
An exploration of textual and contextual factors impacting cross-language mediation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 40095 SPECIAL TOPICS IN TRANSLATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with TRST 50095 and TRST 70095) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for maximum of 6 credit hours) Individual research on a topic dealing with translation studies carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: One Translation Studies (TRST) upper-division (30000 or 40000 level) course with a minimum B grade; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

TRST 50009 THEORY AND PRACTICE OF INTERPRETING 3 Credit Hours
(Slashed with TRST 70009) Survey of the theory and practice of unimodal (spoken word) interpreting in its multiple contexts: conference, medical, judicial, liaison, and media interpreting, with an emphasis on community interpreting. Stakeholders, discourses, modalities, and environments; characteristics of interpreted speech; identities and intervenient roles of interpreters (coordinators, co-participants, diplomats); professionalization and 'volunteerization'; ethics and protocols; research paradigms and future directions; quality and assessment; legal frameworks and language policy; histories of interpreting. Pedagogies of dialogue interpreting [process, interactive, demand-control schema; cognitive and effort models]; memory; technologies; terminology. Course conducted in English.
Prerequisite: Graduate standing; Translation major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 50031 PROFESSIONAL EDITING FOR TRANSLATORS 3 Credit Hours
Provides practical instruction in the editing of translated texts representing a variety of text types. Course covers the skills and techniques that are required for all stages of the editing process and using the best practices of professional translation. Topics include the stages of editing, from rough translation to finished draft; electronic tools for multilingual translation editing; translation style guides; and pre- and post-editing of machine translation. Interactive lecture and workshop formats.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 50095 SPECIAL TOPICS IN TRANSLATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with TRST 40095 and TRST 70095) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 60001 GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES 3 Credit Hours
Individual instruction and assistance with problems encountered in academic research and writing in translation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60009 INTRODUCTION TO TRANSLATION TECHNOLOGY 3 Credit Hours
This course provides an in-depth exploration of the principles, processes and technologies involved with managing the document life cycle within a multilingual environment. It examines the various stages that documents undergo both online and offline, from authoring, management and retrieval to translation, publishing and archiving, along with the tools, challenges and requirements at each phase. Key concepts for translation technologies, such as translation memory systems and terminology management, are also introduced. Through a series of modules and hands-on activities, students explore the impact of information technology on content creation and translation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60010 THEORY OF TRANSLATION AND INTERPRETING 2 Credit Hours
Introduction to the theoretical bases and methods of language mediation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

TRST 60011 TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION 3 Credit Hours
This course provides students with an introduction to translation technology and software tools used within the translation industry as part of translation workflows. The course surveys the three main forms of translation technology: terminology management systems, translation memories and machine translation. The course first introduces the fundamental principles of terminology management and lays out best practices for creating and maintaining terminological databases (termbases). The course then turns to translation memories, databases created from aligned parallel corpora that allow translators to reuse past translations. Finally, the role of machine translation and AI in human translation workflows is examined, focusing specifically on human-machine interaction in the workflow, including the activity of post-editing. The course concludes with an examination of how translation technology affects translation quality, the management of translation technology for projects and predictions for the future of translation technology within the language industry.
Prerequisite: TRST 60009; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60012 SOFTWARE AND WEBSITE LOCALIZATION 3 Credit Hours
This course introduces students to the principles, techniques and best practices involved with the internationalization and localization of various types of digital content, including software, websites, web pages and graphics. Localization entails adapting content related to a product, service or idea to suit the language and culture of a specific market or locale. As a rapidly growing industry, localization is expanding at an annual rate of 6.5-7.5%, making it a thriving field with excellent career prospects for students interested in language, culture and technology. Throughout this course, students gain a solid understanding of the central concepts and terminology used within the field of localization. They also learn about the formal standards and best practices for creating, maintaining and sharing resources generated by translation and localization technologies. Alongside essential theoretical perspectives and principles, the course provides hands-on experience with contemporary translation and localization practices. Students work with up-to-date computer-assisted translation (CAT) tools, as well as text and multimedia editing platforms to apply their learning within practical contexts. By bridging the gap between theory and practice, projects and activities involve practical exercises based on the concepts, technologies and processes discussed during class.
Prerequisite: TRST 60011 with a minimum B grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60013 LANGUAGE PROJECT MANAGEMENT 3 Credit Hours
This course offers an introduction to the knowledge, skills, tools and techniques of project management and applies these concepts within the language industry context. The language industry is predominantly outsourced, digitized and project based, which means that regardless of the career path on which you embark, translation and localization projects have a major influence on your role and how you conduct your work. This course provides students with an analytical framework, as well as pragmatic tools and techniques to navigate work within the industry and build broadly applicable expertise throughout time. After all, project management is the "art and science of getting stuff done." Project management not only equips students with the tools to get work done and lead and manage diverse teams of people effectively, but also helps them build an understanding of the core concepts and dynamics of projects. This is true regardless of whether you work within the language industry or another profession entirely.
Prerequisite: TRST 60011 and TRST 60012 with a minimum B grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60031 INTERCULTURAL COMMUNICATION IN THE LANGUAGE INDUSTRY 3 Credit Hours
The role and impact of intercultural communication models, theories and approaches in shaping language industry dynamics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60040 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 60092 TRANSLATION INTERNSHIP 1-3 Credit Hours
(Repeatable for credit) Supervised practical experience in translation or localization or a related role at a cooperating organization, subject to availability. The internship may be undertaken on-site or remotely. Students must have completed TRST 60011. Requires preparation of an internship report or portfolio connecting academic coursework to on-the-job experiences.
Prerequisite: TRST 60011; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 60095 SPECIAL TOPICS IN TRANSLATIONS STUDIES 1-3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 60098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activity on a topic dealing with translation studies carried out under the supervision of a faculty member. The work for this course should result in a paper, presentation or some other appropriate gradable product(s).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

TRST 60099 CAPSTONE PROJECT IN TRANSLATION 3 Credit Hours
Guided selection, completion, critically reflective analysis and defense of a professional-level translation or translation-related project.
Prerequisite: TRST 60010 and TRST 60011; and graduate studies.
Schedule Type: Project or Capstone
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory

TRST 60100 PRACTICE OF TRANSLATION 2 Credit Hours
Introductory course in which students translate a variety of non-specialized, nonfiction short texts in different domains; identify the most common semantic, syntactic, stylistic, cultural and discourse-level problems encountered in translation; and apply appropriate cognitive strategies.
Prerequisite: Graduate standing.
Pre/corequisite: TRST 60010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

TRST 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Write a thesis on a topic dealing with translation studies carried out under the supervision of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 60298 APPLIED TRANSLATION RESEARCH 1-3 Credit Hours
(Repeatable for credit) Research experience in translation or interpreting in a corporate, translation bureau or freelance setting, supervised by a faculty member.
Prerequisite: TRST 60010; and graduate standing.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Write a thesis on a topic dealing with translation studies carried out under the supervision of a faculty member.
Prerequisite: TRST 61099; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 60630 CAREER PATHS IN THE LANGUAGE INDUSTRY 3 Credit Hours
This course adopts a holistic approach to career management and planning in the language industry. It involves self-assessment of interests, values and skills and a deep understanding of career development theories and the job search process. Students gain insights into their own narratives, constructing new meanings and engaging in dynamic career exploration, and master using a range of career, vocational, educational, occupational and labor market information resources and systems. They develop the ability to integrate self-knowledge and industry awareness into their decision-making processes, enabling them to set meaningful goals and devise effective strategies to navigate career challenges in a complex global economy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70001 APPLIED LINGUISTICS AND TRANSLATION INFORMATICS 3 Credit Hours
Advanced topics in applied linguistics, including corpus and text linguistics as they apply to translation. Advanced topics in translation informatics in multilingual environments.
Prerequisite: TRST 60011; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70002 THE LANGUAGE INDUSTRY 3 Credit Hours
Study of the socio-economic context of professional translation and the language services business sector. Includes in-depth study of the language industry drawing on industry analysis and business case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70003 TERMINOLOGY STUDIES 3 Credit Hours
Advanced topics in terminology, lexicography, ontology and knowledge organization systems.
Prerequisite: TRST 60011; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70004 TRANSLATION PEDAGOGY 3 Credit Hours
Teaching methods and curriculum design for translation programs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70005 CURRENT TRENDS IN TRANSLATION STUDIES 3 Credit Hours
A critical examination of the main trends in translation theory and an exploration of emerging developments in translation studies.
Prerequisite: TRST 60010; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70006 EMPIRICAL METHODS FOR TRANSLATION STUDIES 3 Credit Hours
Study of the methods and research designs used to conduct empirical research in translation, with an emphasis on experimental design of cross-language tasks; the use and analysis of bilingual verbal protocols; the application of new methods, such as keystroke-logging and eye-tracking; and the particular empirical and methodological issues involved in cross-language research data-gathering and statistical analysis.
Prerequisite: Translation studies major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

TRST 70007 CORPORA IN TRANSLATION 3 Credit Hours
Exploration of corpus-based applications in translation studies research and the practice of translation. Competence in utilizing translation-oriented corpus-based tools and corpus building will be fostered.
Prerequisite: Translation studies major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70008 TRANSLATION AND COGNITION 3 Credit Hours
Study of foreign language translation and interpreting from a cognitive science perspective. Includes discussion of current empirical research; application of selected models of cognition to problems in translation studies; and research design in translation process research.
Prerequisite: Translation studies major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70009 THEORY AND PRACTICE OF INTERPRETING 3 Credit Hours
(Slashed with TRST 50009) Survey of the theory and practice of unimodal (spoken word) interpreting in its multiple contexts: conference, medical, judicial, liaison, and media interpreting, with an emphasis on community interpreting. Stakeholders, discourses, modalities, and environments; characteristics of interpreted speech; identities and intervenient roles of interpreters (coordinators, co-participants, diplomats); professionalization and 'volunteerization'; ethics and protocols; research paradigms and future directions; quality and assessment; legal frameworks and language policy; histories of interpreting. Pedagogies of dialogue interpreting [process, interactive, demand-control schema; cognitive and effort models]; memory; technologies; terminology. Course conducted in English.
Prerequisite: Doctoral standing; and Translation Studies major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TRST 70095 SPECIAL TOPICS IN TRANSLATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with TRST 40095 and TRST 50095) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 80091 SEMINAR IN TRANSLATION STUDIES 3 Credit Hours
(Repeatable for credit) Seminar for doctoral students to present and discuss research related to specific areas of translation studies. May be taken for a total of 6 credit hours, either alone or in combination with TRST 80191.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

TRST 80095 SPECIAL TOPICS IN TRANSLATION STUDIES 1-3 Credit Hours
(Repeatable for credit) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TRST 80098 RESEARCH IN TRANSLATION STUDIES 1-6 Credit Hours
(Repeatable for credit) Research or scholarly activities about topics in translation studies under faculty supervision with departmental approval. The work for this course should result in a paper, presentation or some other appropriate gradable product.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory

TRST 80191 SEMINAR IN TRANSLATION INFORMATICS 3 Credit Hours
(Repeatable for credit) Seminar for doctoral students to present and discuss research related to specific areas of translation informatics. May be taken for a total of 6 credit hours, either alone or in combination with TRST 80191.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

TRST 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation. Registration in at least two semesters is required the first of which will be the semester in which dissertation work begins and continuing until 30 hours are completed.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TRST 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met.
Prerequisite: TRST 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

American Sign Language - B.A.

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

Ready to explore a captivating new language and culture? Look no further than Kent State University's American Sign Language bachelor's degree program. With an innovative curriculum and endless opportunities to connect with a vibrant community, your journey toward fluency starts today. Read more...

Contact Information

- mcls@kent.edu (%20mcls@kent.edu) | 330-672-2150
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Foreign language and literature teachers, postsecondary

- 5.7% faster than the average
- 30,600 number of jobs
- $69,920 potential earnings

Interpreters and translators

- 20.0% much faster than the average
- 77,400 number of jobs
- $52,330 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

The American Sign Language teacher licensure program (through this major and the Education minor) is accredited by the National Council for the Accreditation of Teacher Education (NCATE).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed

will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	
ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II	
Major Requirements (courses count in major GPA)		
ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I	3
ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II	3
ASL 39201	ADVANCED AMERICAN SIGN LANGUAGE I	3
ASL 39202	ADVANCED AMERICAN SIGN LANGUAGE II [2]	3
ASL 39223	SOCIOLINGUISTICS OF THE DEAF COMMUNITY (WIC) [3]	3
or ASL 49309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC)	
or SPED 43309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC)	
American Sign Language (ASL) Upper-Division Electives (40000 level only)		6
American Sign Language (ASL) Electives, choose from the following:		6
ASL 29212	APPLIED AMERICAN SIGN LANGUAGE GRAMMAR	
ASL 29213	FINGERSPELLING, NUMBERS AND DEPICTION	
Any American Sign Language (ASL) Upper-Division course (30000 or 40000 level)		
Major Electives, choose from the following:		6
ANTH 48214	POLITICS OF CULTURE (ELR) (WIC) [3]	
ASEI 43100	SURVEY OF THE INTERPRETING PROFESSION	
ASL 19401	EXPLORATION OF DEAF CULTURE	
ASL 29212	APPLIED AMERICAN SIGN LANGUAGE GRAMMAR	
ASL 29213	FINGERSPELLING, NUMBERS AND DEPICTION	
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	
MCLS 40095	SELECTED TOPICS	
MCLS 40096	INDIVIDUAL INVESTIGATION	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
SPED 43306	FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS	
SPED 43307	LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS	
Any American Sign Language (ASL) Upper-Division course (30000 or 40000 level)		
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		50
Minimum Total Credit Hours:		**120**

[1] Students with previous study in American sign language should take the American Sign Language Placement Test and enroll in the correct course based on their score. Students who must enroll in any of the prerequisite courses based on their placement test score will earn general elective credit hours toward the degree.

[2] Students should show documentation of a proficiency level of intermediate or above on the Sign Language Proficiency Interview (administered off-site) upon completion of ASL 39202.

[3] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- To earn the degree, students must successfully show documentation of a proficiency level of either (a) Intermediate or above on the Sign Language Proficiency Interview (SLPI); or (b) a 2+ on the ASL Proficiency Interview (ASLPI); or (c) a PASS on the Ohio American Sign Language (ASL) Assessment for Teachers of World Languages (Subtests I and II).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Please see the program coordinator or your academic advisor for course planning.

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level

and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	UC 10001	FLASHES 101	1
!	Prerequisite or Major Elective or General Elective		3-4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	Prerequisite or Major Elective or General Elective		3-4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I	3
	Major Electives or General Electives		6
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II	3
	Major Electives or General Electives		6
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
!	ASL 39201	ADVANCED AMERICAN SIGN LANGUAGE I	3
	ASL 39223 or ASL 49309 or SPED 43309	SOCIOLINGUISTICS OF THE DEAF COMMUNITY (WIC) or INTRODUCTION TO DEAF STUDIES (ELR) (WIC) or INTRODUCTION TO DEAF STUDIES (ELR) (WIC)	3
	Major Electives or General Electives		6
	General Elective		3
		Credit Hours	**15**
	Semester Six		
!	ASL 39202	ADVANCED AMERICAN SIGN LANGUAGE II	3
	American Sign Language (ASL) Elective		3
	American Sign Language (ASL) Upper-Division Elective (40000 level only)		3
	Major Electives or General Electives		6
		Credit Hours	**15**
	Semester Seven		
	American Sign Language (ASL) Elective		3
	American Sign Language (ASL) Upper-Division Elective (40000 level only)		3
	General Electives		9
		Credit Hours	**15**
	Semester Eight		
	General Electives		14
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Participate in informal conversations with other speakers of American sign language.
2. Engage in some formal conversations in American sign language in workplace settings.
3. Watch films, plays and other multimedia presentations in American sign language with minimal need to use closed captions.
4. Interact in American sign language in culturally-appropriate ways.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in American Sign Language presents American sign language as a culture- and community-based language that interacts with other world languages. Through techniques — including immersion and bilingual-bicultural comparison classes, community interaction, research, lab activities and use of digital video technology — students gain documented proficiency in American sign language, validity within the deaf community and networking within the professional community.

American Sign Language - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The American Sign Language minor provides students with opportunities to develop foundational receptive and expressive skills in American sign language, and introduces students to the study of Deaf culture.

Contact Information

- mcls@kent.edu | 330-672-2150
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	
ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II	
Minor Requirements		
ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I	3
ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II	3
ASL 39201	ADVANCED AMERICAN SIGN LANGUAGE I	3
ASL 39202	ADVANCED AMERICAN SIGN LANGUAGE II	3
American Sign Language (ASL) Upper-Division Elective (40000 level only)		3
Minor Electives, choose from the following:		6
ASL 19401	EXPLORATION OF DEAF CULTURE	
ASL 29212	APPLIED AMERICAN SIGN LANGUAGE GRAMMAR	
ASL 29213	FINGERSPELLING, NUMBERS AND DEPICTION	
SPED 43306	FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS	
SPED 43307	LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS	
Any American Sign Language (ASL) Upper-Division course (30000 or 40000 level)		
Minimum Total Credit Hours:		**21**

[1] Prerequisites may be satisfied with demonstrated language proficiency.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.

- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Please see the program coordinator or your academic advisor for course planning.

Program Learning Outcomes

Graduates of this program will be able to:

1. Engage in casual conversations with other speakers of American sign language and engage in some formal conversations.
2. Use foundational knowledge of American sign language and Deaf culture to continue learning independently.

Arabic - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Arabic minor introduces learners to Modern Standard Arabic and other dialects, histories, religions and cultures of Arab societies. Students develop linguistic and cultural competencies through an outcome-based curriculum. In accordance with their interests and career-, social- or academic- goals, students choose from the Arabic language and related courses from other disciplines such as political science, history, geography, business and translation studies.

Contact Information

- mcls@kent.edu | 330-672-2150
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

The Arabic minor is not accepting students at this time.

Admission Requirements

The Arabic minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
ARAB 11101	ELEMENTARY ARABIC I	
ARAB 11102	ELEMENTARY ARABIC II	
Minor Requirements		
ARAB 31311	ARABIC FOR WRITTEN COMMUNICATION	3
or ARAB 47240	BUSINESS AND SPECIAL TEXTS: ARABIC	
ARAB 31313	ARABIC FOR ORAL COMMUNICATION	3
or ARAB 37240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: ARABIC	
Arabic (ARAB) Upper-Division Elective (40000 level)		3
Minor Electives, choose from the following:		9
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
HIST 31126	HISTORY OF THE MIDDLE EAST	
MCLS 21420	WOMEN OF ARAB SOCIETIES	
POL 30560	MIDDLE EAST POLITICS (DIVG)	
TRST 30230	APPROACHES TO TRANSLATION	
Any Arabic (ARAB) course (20000, 30000 or 40000 level) [2]		
Minimum Total Credit Hours:		**18**

[1] Students with prior knowledge of Arabic may be able to fulfill one or more of the prerequisite courses through an Alternative Credit option. Students may also fulfill one or more of the prerequisite courses by starting in a higher level course than ARAB 11101 and applying for a proficiency waiver as outlined in the Foreign Language Placement policy.

[2] Students who place below the 30000 level for Arabic courses must take ARAB 21201 and ARAB 21202.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Notes

- Students are strongly encouraged to participate in short-term, semester-long or year-long study abroad programs in an Arabic-speaking country.
- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis. Students should meet with their faculty advisor for Arabic each term.

Program Learning Outcomes

Graduates of this program will be able to:

1. Investigate, explain and reflect on Arabic cultures, values and perspectives.

2. Interpret, analyze and express opinions about texts and audio-visual materials in Arabic.
3. Communicate appropriately in Arabic in a variety of situations and for multiple purposes.
4. Exhibit a fundamental understanding of modern Arab societies, language, dialects, histories, religions and cultures.
5. Extend their studies of Arabic formally or independently for enjoyment, enrichment and professional advancement.

Arabic Translation - Graduate Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Arabic Translation graduate minor helps to prepare students for careers in translation, translation management, international business and government.

Contact Information

- mcls@kent.edu | 330-672-2150

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Graduate standing at Kent State University
- Minimum 3.000 GPA on a 4.000-point scale
- A CD or MP3/wav file with a five-minute oral sample in the applicant's first and second languages (conversational, not read from a script)
- Writing sample(s) in applicant's second language, which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements:		
TRST 60010	THEORY OF TRANSLATION AND INTERPRETING	2
Minor Electives, choose from the following:		8-9
ARAB 67010	PRACTICE OF ARABIC TRANSLATION	
ARAB 67240	LITERARY AND CULTURAL TRANSLATION	
ARAB 67250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
ARAB 67251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
TRST 60099	CAPSTONE PROJECT IN TRANSLATION	
Minimum Total Credit Hours:		**10**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Translate authentic, industry-relevant content, both general and domain-specific, using appropriate tools and approaches.
2. Engage in effective research and information retrieval for a variety of language industry-relevant tasks.
3. Demonstrate an understanding of professional and ethical considerations in various project scenarios.
4. Successfully communicate and mediate communication across languages and cultures in multilingual, multicultural contexts.
5. Apply theory to inform and justify their decision-making.
6. Critically reflect on their work and that of others.

Business German - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Business German minor offers core courses in language, culture and conversation/texts for business purposes. The minor is especially well-suited as a combination with a business or marketing major.

Contact Information

- **Geoff Koby** | gkoby@kent.edu | 330-672-1814
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person

- **Location:**
  - Kent Campus

The Business German minor is not accepting students at this time.

Admission Requirements

The Business German minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
GER 11201	ELEMENTARY GERMAN I	
GER 11202	ELEMENTARY GERMAN II	
GER 21201	INTERMEDIATE GERMAN I	
GER 21202	INTERMEDIATE GERMAN II	
Minor Requirements		
GER 31201	INTENSIVE GERMAN GRAMMAR	3
GER 31211	GERMAN COMPOSITION AND CONVERSATION	3
GER 31215	GERMAN PHONETICS AND DICTION	3
GER 31240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: GERMAN	3
GER 31421	GERMAN CIVILIZATION	3
GER 41240	BUSINESS AND SPECIAL TEXTS: GERMAN	3
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
Minimum Total Credit Hours:		**21**

[1] Students with prior knowledge of German may be able to fulfill one or more of the prerequisite courses through an Alternative Credit option. Students may also fulfill one or more of the prerequisite courses by starting in a higher level course than GER 11201 and applying for a proficiency waiver as outlined in the Foreign Language Placement policy.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see the program coordinator or academic advisor for course planning.

Business Russian - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Business Russian minor offers core courses in language, culture and conversation/texts for business purposes. The minor is especially well-suited as a combination with a business or marketing major.

Contact Information

- **Joanna Trzeciak** | jtrzecia@kent.edu
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

The Business Russian minor is not accepting students at this time.

Admission Requirements

The Business Russian minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
RUSS 12201	ELEMENTARY RUSSIAN I	
RUSS 12202	ELEMENTARY RUSSIAN II	
RUSS 22201	INTERMEDIATE RUSSIAN I	
RUSS 22202	INTERMEDIATE RUSSIAN II	
Minor Requirements		
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
RUSS 22215	RUSSIAN PHONETICS AND DICTION	3
RUSS 32201	INTENSIVE RUSSIAN GRAMMAR	3
RUSS 32211	COMPOSITION AND CONVERSATION	3
RUSS 32240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: RUSSIAN	3
RUSS 32421	RUSSIAN CIVILIZATION (ELR) (WIC)	3
RUSS 42240	BUSINESS AND SPECIAL TEXTS: RUSSIAN	3
Minimum Total Credit Hours:		**21**

[1] Prerequisites may be satisfied with demonstrated language proficiency.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Please see the program coordinator or your academic advisor for course planning.

Business Spanish - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Business Spanish minor offers core courses in language, culture and conversation/texts for business purposes. The minor is especially well-suited as a combination with a business or marketing major.

Contact Information

- **Jessie Carduner** | jcardune@kent.edu | 330-672-1806
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

The Business Spanish minor is not accepting students at this time.

Admission Requirements

The Business Spanish minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
SPAN 18201	ELEMENTARY SPANISH I	
SPAN 18202	ELEMENTARY SPANISH II	
SPAN 28201	INTERMEDIATE SPANISH I	
SPAN 28202	INTERMEDIATE SPANISH II	
Minor Requirements		
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
SPAN 38211	SPANISH GRAMMAR AND COMPOSITION	3
SPAN 38213	SPANISH READING AND CONVERSATION	3
SPAN 38215	SPANISH PHONETICS AND DICTION	3
SPAN 38240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: SPANISH	3
SPAN 38421	CIVILIZATION OF SPAIN	3
or SPAN 38424	CULTURE AND CIVILIZATION OF LATIN AMERICA	
SPAN 48240	BUSINESS AND SPECIAL TEXTS: SPANISH	3
Minimum Total Credit Hours:		**21**

[1] Students with prior knowledge of Spanish may be able to fulfill one or more of the prerequisite courses through an Alternative Credit option. Students may also fulfill one or more of the prerequisite courses by starting in a higher level course than SPAN 18201 and applying for a proficiency waiver as outlined in the Foreign Language Placement policy.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see the program coordinator or academic advisor for course planning.

Chinese - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Chinese minor provides a variety of courses to develop not only the traditional skills of listening, speaking, reading and writing, but also international cultural competence and critical thinking skills. By imitating natural mother-tongue language learning processes and employing student-centered classroom techniques, this minor provides students practice in using Chinese in real-life contexts and equips students to speak about their own and other cultures.

Contact Information

- **Hui Yu** | hyu5@kent.edu | 330-672-2150
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
CHIN 15101	ELEMENTARY CHINESE I	
CHIN 15102	ELEMENTARY CHINESE II	
Minor Requirements		
CHIN 25201	INTERMEDIATE CHINESE I	4
CHIN 25202	INTERMEDIATE CHINESE II	4
CHIN 25421	CHINESE CULTURE	3
CHIN 35211	INTENSIVE CHINESE CONVERSATION	3
Minor Electives, choose from the following:		6
CHIN 30095	SPECIAL TOPICS	
CHIN 35221	CHINESE IN THE REAL WORLD	
CHIN 45302	BUSINESS CHINESE	
CHIN 45322	CHINESE FICTION	
CHIN 45323	CHINESE COMPOSITION	
Minimum Total Credit Hours:		**20**

[1] Prerequisites may be satisfied with demonstrated language proficiency.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Please see the program coordinator or your academic advisor for course planning.

Classics - B.A.

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Bachelor of Arts program in Classics offers a fascinating journey through the rich legacy of the ancient world. With a focus on classical languages, literature and culture, you will explore the roots of Western civilization and gain valuable insights into the world today. Our program also provides opportunities for interdisciplinary studies in areas such as history, philosophy and art history. Enroll now and experience the wonders of the ancient world. Read more...

Contact Information

- **Brian K. Harvey, Ph.D.** | bkharvey@kent.edu | 330-672-1804
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Postsecondary teachers, all other

- 2.0% slower than the average
- 245,900 number of jobs
- $71,950 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Interpreters and translators

- 20.0% much faster than the average
- 77,400 number of jobs
- $52,330 potential earnings

Curators

- 12.6% much faster than the average
- 14,500 number of jobs
- $56,990 potential earnings

Clergy

- 4.0% about as fast as the average
- 243,900 number of jobs
- $51,940 potential earnings

Additional Careers

- Entrepreneurs

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	3
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	3
CLAS 41005	HISTORY OF ANCIENT GREECE	3
or CLAS 41006	ROMAN HISTORY	
CLAS 41304	LITERATURE OF THE ROMAN WORLD (ELR) (WIC) [1]	3
or CLAS 41503	LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC)	
CLAS 41401	GREEK ARCHAEOLOGY AND ART	3
or CLAS 41402	ROMAN ARCHAEOLOGY AND ART	
LAT 16201	ELEMENTARY LATIN I [2]	4
LAT 16202	ELEMENTARY LATIN II [2]	4
Classics Culture and Language Electives, choose from the following:		9
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
ARTH 42041	ITALIAN RENAISSANCE ART	
ENG 35201	THE BIBLE AS LITERATURE	
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	
SOC 42561	SOCIOLOGY OF RELIGION	
Any Classics (CLAS) course (20000, 30000 or 40000 level)		
Any Greek (GRE) course (20000, 30000 or 40000 level)		
Any Latin (LAT) course (20000, 30000 or 40000 level)		
Any Religion (REL) course (10000, 20000, 30000 or 40000 level)		
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below) [3]		2-8
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Fine Arts		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		55
Minimum Total Credit Hours:		**120**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

2 Students with prior knowledge of Latin may be able to fulfill one or more of the requirements through an Alternative Credit option. Students may also fulfill one or more of the requirements by starting in a higher level course than LAT 16201 and applying for a proficiency waiver as outlined in the Foreign Language Placement policy. Students can make up the credit hours for any waived courses with general electives or apply the credit hours toward a second academic program.

3 Recommended: GRE 14201, GRE 14202, LAT 26201, LAT 26202

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see their program coordinator or academic advisor for course planning.

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmaps

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
LAT 16201	ELEMENTARY LATIN I	4
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
LAT 16202	ELEMENTARY LATIN II	4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
CLAS 21404 or CLAS 21405	THE GREEK ACHIEVEMENT (DIVG) (KHUM) or THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	3
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
CLAS 21404 or CLAS 21405	THE GREEK ACHIEVEMENT (DIVG) (KHUM) or THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	3
Foreign Language and/or General Elective		3
General Electives		9
	Credit Hours	**15**
Semester Five		
CLAS 41005 or CLAS 41006	HISTORY OF ANCIENT GREECE or ROMAN HISTORY	3
Classics Culture and Language Elective		3
General Electives		9
	Credit Hours	**15**
Semester Six		
CLAS 41304 or CLAS 41503	LITERATURE OF THE ROMAN WORLD (ELR) (WIC) or LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC)	3
CLAS 41401 or CLAS 41402	GREEK ARCHAEOLOGY AND ART or ROMAN ARCHAEOLOGY AND ART	3
General Electives		9
	Credit Hours	**15**
Semester Seven		
Classics Culture and Language Elective		3
General Electives		12
	Credit Hours	**15**
Semester Eight		
Classics Culture and Language Elective		3
General Electives		12
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	

Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate general knowledge about the literature, history and culture of classical civilization (Greece and Rome).
2. Demonstrate an understanding of the Greek or Roman cultural context within which literary, historical and other writings were produced.
3. Use primary source materials, including material culture, to better understand the cultures of the ancient world.
4. Apply critical thinking to ethical conundrums in the record of the past.
5. Recognize historical biases.
6. Analyze texts with respect to philology, literary style and cultural contexts.
7. Demonstrate knowledge of the historical and cultural significance of important sites, monuments and artifacts of the ancient Greek or Roman world.
8. Conduct research about ancient Greek or Roman material culture.
9. Read beginner passages and compose basic sentences in Latin.
10. Understand the basics of Latin morphology and syntax (verb and noun morphology, case usage, verb tenses, Latin word order and sentence structure).

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Classics provides a foundation in the Western humanities while sharpening a student's analytical skills and English vocabulary though the systematic study of ancient cultures and languages.

This program provides students with a strong, general liberal arts education appropriate to many pursuits after college, including law, medicine, business, writing and publishing. Students are required to take two semesters of elementary Latin, basic courses covering the achievements of Greek and Roman cultures and a semester each of Greek or Roman history, archaeology and literature. Students also take three additional courses from the above categories as well as courses covering ancient mythology, sport, religion and language and culture studies.

Classics - Graduate Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Classics graduate minor is intended for graduate students in allied disciplines such as art history, English, history, philosophy and library and information sciences who wish to enhance their knowledge about the ancient Mediterranean world and/or Latin skills.

Contact Information

- mcls@kent.edu | 330-672-2150

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Graduate standing at Kent State University
- Minimum 3.000 GPA on a 4.000-point scale
- Writing sample that demonstrates research skills
- Latin proficiency demonstrated through transcripts or placement tests if planning to take Latin (LAT) courses for the minor

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Greek Elective, choose from the following:		3
CLAS 51005	HISTORY OF ANCIENT GREECE	
CLAS 51301	CLASSICAL MYTHOLOGY	
CLAS 51401	GREEK ARCHAEOLOGY AND ART	
CLAS 51503	LITERATURE OF THE ANCIENT GREEKS	
Roman Elective, choose from the following:		3
CLAS 51006	ROMAN HISTORY	
CLAS 51304	LITERATURE OF THE ROMAN WORLD	
CLAS 51402	ROMAN ARCHAEOLOGY AND ART	
Any Latin (LAT) Graduate course (50000 or 60000 level)		
Minor Elective, choose from the following:		3
CLAS 51097	COLLOQUIUM IN CLASSICS	
CLAS 51305	CLASSICAL LITERARY STUDIES	
CLAS 61404	ANCIENT CHRISTIANITIES	
Any Classics (CLAS) or Latin (LAT) Graduate course (50000 or 60000 level)		
Minimum Total Credit Hours:		**9**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Engage in effective research using online and/or physical resources for classical studies.
2. Identify the significance of major literary works, historical figures, artistic and archaeological remains and cultural structures.
3. Demonstrate understanding of key concepts, theories and/or methodologies in the field of classics.
4. Design and implement an independent research project pertaining to classical studies.

Classics - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Classics minor is for students who wish to study classical antiquity both in terms of language and cultural studies.

Contact Information

- **Brian K. Harvey, Ph.D.** | bkharvey@kent.edu | 330-672-1804
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	3
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	3
Classical Culture Upper-Division Electives, choose from the following:		6
Any Classics (CLAS) Upper-Division course (30000 or 40000 level)		
Any Greek (GRE) Upper-Division course (30000 or 40000 level)		
Any Latin (LAT) Upper-Division course (30000 or 40000 level)		
Classical Culture Elective, choose from the following:		3
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	
Any Classics (CLAS) course (20000, 30000 or 40000 level)		
Any Greek (GRE) Upper-Division course (30000 or 40000 level)		
Any Latin (LAT) Upper-Division course (30000 or 40000 level)		
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Please see the program coordinator or your academic advisor for course planning.

French - B.A.

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

Our Bachelor of Arts in French offers a rigorous and rewarding education in French language, literature and culture. With opportunities for immersive experiences abroad and small class sizes, you will develop strong language skills and cultural competency that will serve you well in a variety of career paths. Read more...

Contact Information

- **Maryann Dejulio** | mdejulio@kent.edu | 330-672-1807
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Foreign language and literature teachers, postsecondary

- 5.7% faster than the average
- 30,600 number of jobs
- $69,920 potential earnings

Interpreters and translators

- 20.0% much faster than the average
- 77,400 number of jobs
- $52,330 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
FR 13201	ELEMENTARY FRENCH I [1]	4
FR 13202	ELEMENTARY FRENCH II [1]	4
FR 23201	INTERMEDIATE FRENCH I [1]	3
FR 23202	INTERMEDIATE FRENCH II [1]	3
FR 33211	FRENCH CONVERSATION	3
FR 33212	FRENCH COMPOSITION	3
FR 33335	INTRODUCTION TO FRENCH THEATRE (ELR) (WIC) [2]	3
or FR 33336	INTRODUCTION TO FRENCH POETRY (ELR) (WIC)	
or FR 33337	INTRODUCTION TO FRENCH LITERARY PROSE (ELR) (WIC)	
FR 33421	FRENCH CIVILIZATION	3
French (FR) Upper-Division Electives (30000 or 40000 level)		9
French (FR) Upper-Division Elective (40000 level)		3
Cultural Literacy Elective, choose from the following:		3

MCLS 20001	GLOBAL LITERACY AND CULTURAL AWARENESS (KADL)	
MCLS 20091	VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES	
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES [3]	
Any Modern and Classical Language Studies (MCLS) Upper-Division course (30000 or 40000 level)		
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		42
Minimum Total Credit Hours:		**120**

[1] Students with prior knowledge of French may be able to fulfill one or more of the prerequisite courses through an Alternative Credit option. Students may also fulfill one or more of the prerequisite courses by starting in a higher level course than FR 13201 and applying for a proficiency waiver as outlined in the Foreign Language Placement policy. Students can make up the credit hours for any waived courses with general electives or apply the credit hours to a second academic program.

[2] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[3] Students seeking K-12 teaching licensure through the Education minor should take MCLS 30420.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- All students in the French major must take the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview, ACTFL Writing Proficiency Test and French Outcomes Assessment Test prior to being cleared for graduation. Information about the exams can be found on the ACTFL Website and Language Testing International (LTI) website, the exclusive licensee of ACTFL.

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see the program coordinator or academic advisor for course planning.

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
FR 13201	ELEMENTARY FRENCH I	4
UC 10001	FLASHES 101	1
Cultural Literacy Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
FR 13202	ELEMENTARY FRENCH II	4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
FR 23201	INTERMEDIATE FRENCH I	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
FR 23202	INTERMEDIATE FRENCH II	3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**

Semester Five		
FR 33212	FRENCH COMPOSITION	3
French (FR) Upper-Division Electives (30000 or 40000 level)		6
General Electives		6
	Credit Hours	**15**
Semester Six		
FR 33211	FRENCH CONVERSATION	3
FR 33335 or FR 33336 or FR 33337	INTRODUCTION TO FRENCH THEATRE (ELR) (WIC) or INTRODUCTION TO FRENCH POETRY (ELR) (WIC) or INTRODUCTION TO FRENCH LITERARY PROSE (ELR) (WIC)	3
French (FR) Upper-Division Elective (30000 or 40000 level)		3
General Electives		6
	Credit Hours	**15**
Semester Seven		
FR 33421	FRENCH CIVILIZATION	3
French (FR) Upper-Division Elective (40000 level)		3
General Electives		9
	Credit Hours	**15**
Semester Eight		
Note: ACTFL Oral Proficiency Interview, ACTFL Written Proficiency Test and French Outcomes Assessment Test should be taken during this semester.		
General Electives		15
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Perform tasks at intermediate-high and advanced-low levels of proficiency as described by the American Council on the Teaching of Foreign Languages (ACTFL) Proficiency Guidelines. Proficiency, in ACTFL terms, is understood to describe a range of qualities rather than an absolute norm and will vary according to task type, language function, topic, skill (listening, speaking, reading, writing) and so forth.
2. Contribute to most informal and some formal conversations with sufficient accuracy, clarity and precision to convey their intended message without misrepresentation or confusion.
3. Read a wide variety of and complex texts written for native speakers of French and not edited or adapted for non-native speakers.
4. Write cohesive summaries, narratives and descriptions of a factual nature in French.
5. Demonstrate knowledge of French history and culture and understand the diverse nature of culture throughout the ages.
6. Discuss cultural differences, distinguishing between fact, opinion and stereotypes.
7. Communicate effectively and sensitively with diverse ethnic and cultural groups.
8. View concepts, issues, events and themes from the perspectives of diverse ethnic and cultural groups.
9. Esteem diversity.
10. Maintain an ongoing assessment of their own cultural values and behaviors.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in French provides opportunities for students to study the language, literature and culture of France and Francophone countries. Students gain a respectable measure of competence in reading, writing and oral/aural skills in the French language. To help gain proficiency, students can attend a weekly French coffee hour.

Students can take upper-division French courses abroad, either through Kent's own program with the Paris Institute or with any accredited study abroad program offered by another university. Such programs may be for one semester, one academic year or one summer. However, they most benefit students who have already acquired a strong command of the language here before leaving.

French - M.A.

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Master of Arts in French program provides advanced training in French language, literature and culture, with opportunities for research, teaching and study abroad. With a focus on critical analysis, cultural interpretation and intercultural competence, you will be well prepared for careers in academia, government, business and more. Read more...

Contact Information

- **Maryann DeJulio** | mdejulio@kent.edu | 330-672-1807
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Foreign language and literature teachers, postsecondary

- 5.7% faster than the average
- 30,600 number of jobs
- $69,920 potential earnings

Interpreters and translators

- 20.0% much faster than the average
- 77,400 number of jobs
- $52,330 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Literature concentration are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- CD or MP3/wav file with a 5-10-minute oral sample in the applicant's first and second languages (conversational, not read from a script)
- Writing sample(s) in the applicant's second language, which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation. International applicants should also submit a writing sample in English
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: January 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
FR 53213	FRENCH COMPOSITION-ADVANCED	3
FR 53216	CONTEMPORARY FRENCH CULTURE	3
French (FR) Graduate Electives (50000 or 60000 level)		6
Applied Linguistics Elective, choose from the following:		3
FR 63010 & TRST 60010	THE PRACTICE OF FRENCH TRANSLATION and THEORY OF TRANSLATION AND INTERPRETING	
MCLS 60601	LINGUISTICS FOR THE LANGUAGE PROFESSIONS	
Literary Theory Elective, choose from the following:		3
FR 63240	LITERARY AND CULTURAL TRANSLATION	
or MCLS 60330	APPROACHES TO LITERATURE AND CULTURE	
or MCLS 60622	TEACHING LITERATURE AND CULTURE	
Research Method Elective, choose from the following:		3
MCLS 63049	SECOND LANGUAGE RESEARCH METHODS	
or TRST 60001	GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES	
Concentrations		
Choose from the following:		12
Applied Linguistics and Pedagogy		
Literature		
Minimum Total Credit Hours:		**33**

Applied Linguistics and Pedagogy Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
MCLS 50660	METHODS OF TEACHING FOREIGN LANGUAGES [1]	3
MCLS 60661	THEORIES IN SECOND LANGUAGE ACQUISITION	3
Second Language Pedagogy Courses		6
Minimum Total Credit Hours:		**12**

[1] Students who are already licensed to teach language in Ohio may, with departmental approval, substitute a graduate second-language pedagogy elective for MCLS 50660.

Languages, Literature and Culture Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
French (FR) Graduate Electives (50000 or 60000 level) [1]		6
Concentration Electives, choose from the following: [1]		6
Any French (FR) Graduate course (50000 or 60000 level)		
Any Modern and Classical Language Studies (MCLS) Graduate course (60000 level)		
Any Translation Studies (TRST) Graduate course (60000 level)		
Minimum Total Credit Hours:		**12**

[1] Students must complete a minimum 18 credit hours of their M.A. program at the 60000 level. A maximum 6 credit hours of individual investigation research may be applied toward the degree. Students interested in a thesis option may register for a maximum 6 credit hours of FR 63199. Electives should be chosen accordingly in consultation with the student's academic advisor.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students in the Applied Linguistics and Pedagogy concentration must successfully complete a final project, a portfolio or a comprehensive examination. In addition, students complete an exit oral interview and an exit essay examination in French. Students are encouraged to enroll in study-abroad courses (maximum 6 credit hours) and in specialized workshops in advanced language or pedagogy (maximum 4 credit hours). Departmental permission must be obtained before enrolling in such courses.
- Students in the Languages, Literature and Culture concentration must complete a comprehensive examination.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Communicate in French at advanced-mid or higher proficiency level as measured by the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview Test and ACTFL Writing Proficiency Test.
2. Demonstrate skills in the analysis of French culture, literature and language.
3. Demonstrate an ability to carry out and present research projects in their respective concentration areas.
4. Demonstrate specialized knowledge and skills in their respective concentration areas.

Full Description

The Master of Arts degree in French provides advanced education in French, which integrates the language, linguistics, literature and culture of France and La Francophonie and the latest methodologies in the teaching of French.

The French major comprises the following concentrations:

- The **Applied Linguistics and Pedagogy** concentration is intended primarily for (1) licensed, in-service pre-K-12 French teachers who wish to continue their professional development, advancing their knowledge of the French language, literature and culture and language-teaching practices, and (2) students interested in teaching French in college and university settings. This program does not lead to teaching licensure.

- The **Languages, Literature and Culture** concentration is intended for those who wish to increase their knowledge of literature and culture along with their command of the language for various purposes.

French - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The French minor gives students a sufficient command of the language, both written and spoken. Students gain knowledge of French literature and culture, are able to travel in France as more than just an interested tourist and have a foundation from which to pursue their interest in French independently for personal enrichment and professional advancement.

Contact Information

- **Maryann Dejulio** | mdejulio@kent.edu | 330-672-1807
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
FR 13201	ELEMENTARY FRENCH I	
FR 13202	ELEMENTARY FRENCH II	
FR 23201	INTERMEDIATE FRENCH I	
Minor Requirements		
FR 23202	INTERMEDIATE FRENCH II	3
FR 33211	FRENCH CONVERSATION	3
FR 33212	FRENCH COMPOSITION	3
FR 33421	FRENCH CIVILIZATION	3
French (FR) Upper-Division Electives (30000 or 40000 level		6
Minimum Total Credit Hours:		**18**

[1] Students with prior knowledge of French may be able to fulfill one or more of the prerequisite courses through an Alternative Credit option. Students may also fulfill one or more of the prerequisite courses by starting in a higher level course than FR 13201 and applying for a proficiency waiver as outlined in the Foreign Language Placement policy.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note:

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see the program coordinator or academic advisor for course planning.

Program Learning Outcomes

Graduates of this program will be able to:

1. Speak in French about topics ranging from personal to cultural and social issues.
2. Write in French about a variety of situations and for multiple purposes.
3. Read and comprehend various text types such as newspaper articles, short stories and web content with the aid of dictionaries and other resources.
4. Exhibit a fundamental understanding of francophone culture.

French Translation - Graduate Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The French Translation graduate minor helps to prepare students for careers in translation, translation management, international business and government.

Contact Information

- mcls@kent.edu | 330-672-2150

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Graduate standing at Kent State University
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- A CD or MP3/wav file with a five-minute oral sample in the applicant's first and second languages (conversational, not read from a script)
- Writing sample(s) in applicant's second language, which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements:		
TRST 60010	THEORY OF TRANSLATION AND INTERPRETING	2
Minor Electives, choose from the following:		8-9
FR 63010	THE PRACTICE OF FRENCH TRANSLATION	
FR 63240	LITERARY AND CULTURAL TRANSLATION	
FR 63250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
FR 63251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
TRST 60099	CAPSTONE PROJECT IN TRANSLATION	
Minimum Total Credit Hours:		**10**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
3.000	

Program Learning Outcomes

Graduates of this program will be able to:

1. Translate authentic, industry-relevant content, both general and domain-specific, using appropriate tools and approaches.
2. Engage in effective research and information retrieval for a variety of language industry-relevant tasks.
3. Demonstrate an understanding of professional and ethical considerations in various project scenarios.
4. Successfully communicate and mediate communication across languages and cultures in multilingual, multicultural contexts.
5. Apply theory to inform and justify their decision making.
6. Critically reflect on their work and that of others.

German - B.A.

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

Experience the richness of German language and culture with Kent State's German B.A. program. Immerse yourself in the language, literature and culture of the German-speaking world, and prepare for a wide range of career opportunities in the global marketplace. Read more...

Contact Information

- **Hildegard Rossoll** | hrossoll@kent.edu | 330-672-1833
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the B.A. in German are not being accepted at this time.

Examples of Possible Careers and Salaries*

Foreign language and literature teachers, postsecondary

- 5.7% faster than the average
- 30,600 number of jobs
- $69,920 potential earnings

Interpreters and translators

- 20.0% much faster than the average
- 77,400 number of jobs
- $52,330 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Additional Careers

- Careers with an international component in any field, including business, science, technology, education, communication and government

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment

over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Applications to the B.A. in German are not being accepted at this time.

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
GER 11201	ELEMENTARY GERMAN I	
GER 11202	ELEMENTARY GERMAN II	
GER 21201	INTERMEDIATE GERMAN I	
GER 21202	INTERMEDIATE GERMAN II	
Major Requirements (courses count in major GPA)		
GER 31201	INTENSIVE GERMAN GRAMMAR	3
GER 31211	GERMAN COMPOSITION AND CONVERSATION	3
GER 31231	TRANSLATION PRACTICE: GERMAN	1
GER 31240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: GERMAN	3
or GER 41240	BUSINESS AND SPECIAL TEXTS: GERMAN	
GER 31303	INTRODUCTION TO GERMAN LITERATURE	3
GER 31421	GERMAN CIVILIZATION	3
GER 41211	ADVANCED GERMAN COMPOSITION AND CONVERSATION	3
GER 41216	CONTEMPORARY GERMAN CULTURE (ELR) (WIC) [2]	3
MCLS 21417	MULTICULTURALISM IN TODAY'S GERMANY (DIVG)	3
or TRST 30230	APPROACHES TO TRANSLATION	
German (GER) Upper-Division Electives (30000 or 40000 level)		6
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		52
Minimum Total Credit Hours:		**120**

[1] Students who already have some proficiency in German through high school study should take the German Placement Test prior to their first advising appointment so they can enroll in the correct course(s). Students who have completed three or four years of high school German should see a German advisor for placement. Students lacking in sufficient proficiency for the first major courses (GER 31201 and GER 31211) can reach it by taking courses in the prerequisite sequence (GER 11201, GER 11202, GER 21201 and GER 21202) based on their placement score and high school training.

[2] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- All students in the German major must take the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview, ACTFL Writing Proficiency Test and the German Outcomes Assessment Test prior to being cleared for graduation. Information about the exams can be found on the ACTFL website and the Language Testing International (LTI) website, the exclusive licensee of ACTFL.

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see the program coordinator or academic advisor for course planning.

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MCLS 21417 or TRST 30230	MULTICULTURALISM IN TODAY'S GERMANY (DIVG) or APPROACHES TO TRANSLATION	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**16**
Semester Two		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Three		
GER 31201	INTENSIVE GERMAN GRAMMAR	3
GER 31231	TRANSLATION PRACTICE: GERMAN	1
GER 41211	ADVANCED GERMAN COMPOSITION AND CONVERSATION	3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		2
	Credit Hours	**15**
Semester Four		
GER 31421	GERMAN CIVILIZATION	3
GER 41216	CONTEMPORARY GERMAN CULTURE (ELR) (WIC)	3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Five		
GER 31211	GERMAN COMPOSITION AND CONVERSATION	3
Kent Core Requirement		3
General Electives		9
	Credit Hours	**15**
Semester Six		
GER 31303	INTRODUCTION TO GERMAN LITERATURE	3
German Business Course or Upper-Division Elective		3
General Electives		9
	Credit Hours	**15**
Semester Seven		
German Business Course or Upper-Division Elective		3
Kent Core Requirement		3
General Electives		9
	Credit Hours	**15**
Semester Eight		
Note: ACTFL Oral Proficiency Interview, ACTFL Written Proficiency Test and Departmental Outcomes Assessment Test should be taken during this semester.		
German Business Course or Upper-Division Elective		3
Kent Core Requirement		3
General Electives		8
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	

Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Perform language tasks in German at the intermediate-high and advanced-low levels or above as described by the American Council on the Teaching of Foreign Languages (ACTFL) Proficiency Guidelines. Proficiency, in ACTFL terms, is understood to describe a range of qualities rather than an absolute norm and will vary according to task type, language function, topic, skill (listening, speaking, reading, writing) and so forth.
2. Contribute to most informal and some formal conversations with sufficient accuracy, clarity and precision to convey their intended message without misrepresentation or confusion.
3. Read a wide variety of texts written for native speakers of German and not edited or adapted for non-native speakers.
4. Compose routine social correspondence and write cohesive summaries, narratives and descriptions of a factual nature in German.
5. Explain various facets of contemporary German-speaking cultures in depth in German.
6. Analyze aspects of the linguistic, ethnic, racial, religious, cultural and social diversity within German-speaking countries and communities in German.
7. Explain the historical and political context of German-speaking cultures.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in German provides instruction designed to develop competence in oral and written communication; insights into language form, usage and meaning; and knowledge of German literature, cultural history and contemporary issues. Additionally, students are introduced to basic skills in German-to-English translation.

The flexibility of the major makes it easy for students to combine with a second major, such as the History, International Studies or Political Science major or another foreign language major.

Students wishing to teach may combine the German major with the Education minor to prepare for multi-age (K–12) teacher licensure in Ohio.

German - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The German minor studies the German language, culture and literature and can be combined easily with numerous majors.

Contact Information

- **Hildegard Rossoll** | hrossoll@kent.edu | 330-672-1833
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

The German minor is not accepting students at this time.

Admission Requirements

The German minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the

A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
GER 11201	ELEMENTARY GERMAN I	
GER 11202	ELEMENTARY GERMAN II	
GER 21201	INTERMEDIATE GERMAN I	
GER 21202	INTERMEDIATE GERMAN II	
Minor Requirements		
GER 31201	INTENSIVE GERMAN GRAMMAR	3
GER 31211	GERMAN COMPOSITION AND CONVERSATION	3
GER 31303	INTRODUCTION TO GERMAN LITERATURE	3
GER 31421	GERMAN CIVILIZATION	3
German (GER) Culture and Literature Upper-Division Electives (30000 and 40000 level)		6
Minimum Total Credit Hours:		**18**

[1] Students with prior knowledge of German may be able to fulfill one or more of the prerequisite courses through an Alternative Credit option. Students may also fulfill one or more of the prerequisite courses by starting in a higher level course than GER 11201 and applying for a proficiency waiver as outlined in the Foreign Language Placement policy.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see the program coordinator or academic advisor for course planning.

Program Learning Outcomes

Graduates of this program will be able to:

1. Perform language tasks in German at the intermediate-low to intermediate-mid level or above as described by the American Council on the Teaching of Foreign Languages (ACTFL). Proficiency, in ACTFL terms, is understood to describe a range of qualities rather than an absolute norm and will vary according to task type, language function, topic, skill (listening, speaking, reading, writing) and so forth.
2. Explain various facets of contemporary German-speaking cultures in German.
3. Analyze aspects of the linguistic, ethnic, racial, religious, cultural and social diversity within German-speaking countries and communities in German.
4. Explain the historical and political context of German-speaking cultures.

German Studies - Minor

College of Arts and Sciences
Department of German
www.kent.edu/mcls

About This Program

The German Studies minor offers students the opportunity for study of the language and culture of the German-speaking countries.

Contact Information

- **Hildegard Rossoll** | hrossoll@kent.edu | 330-672-1833
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
GER 11201	ELEMENTARY GERMAN I	4
GER 11202	ELEMENTARY GERMAN II	4
MCLS 21417	MULTICULTURALISM IN TODAY'S GERMANY (DIVG)	3
German or German History and Thought Electives, choose from the following:		9
ARTH 42069	NATIONS AND BORDERS	
GER 21201	INTERMEDIATE GERMAN I	
GER 21202	INTERMEDIATE GERMAN II	
HIST 30040	NINETEENTH-CENTURY EUROPE	
HIST 30060	HISTORY OF GERMANY, 1871-PRESENT	
HIST 30070	THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 31022	THE GREAT POWERS IN WAR AND PEACE, 1792-1914	

HIST 31023	THE GREAT POWERS IN WAR AND PEACE, 1914-1945	
HIST 31024	WORLD WAR II	
HIST 41060	COMPARATIVE FASCISM	
PHIL 31013	LATE MODERN PHILOSOPHY	
POL 30520	EUROPEAN POLITICS (DIVG)	
Minimum Total Credit Hours:		**20**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Notes

- Appropriate specialized offerings may be substituted above as available with approval of the German Studies program coordinator.
- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see the program coordinator or academic advisor for course planning.

Program Learning Outcomes

Graduates of this program will be able to:

1. Perform language tasks in German at the intermediate-low level or above as described by the American Council on the Teaching of Foreign Languages (ACTFL). Proficiency, in ACTFL terms, is understood to describe a range of qualities rather than an absolute norm and will vary according to task type, language function, topic, skill (listening, speaking, reading, writing) and so forth.
2. Explain various facets of contemporary German-speaking cultures in English and German.
3. Analyze aspects of the linguistic, ethnic, racial, religious, cultural and social diversity within German-speaking countries and communities in English and German.
4. Explain the historical and political context of German-speaking cultures.
5. Connect other discipline-based fields in the context of the German language and cultures.

German Translation - Graduate Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The German Translation graduate minor helps to prepare students for careers in translation, translation management, international business and government.

Contact Information

- mcls@kent.edu | 330-672-2150

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Graduate standing at Kent State University
- Minimum 3.000 GPA on a 4.000-point scale
- A CD or MP3/wav file with a five-minute oral sample in the applicant's first and second languages (conversational, not read from a script)
- Writing sample(s) in applicant's second language, which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements:		
TRST 60010	THEORY OF TRANSLATION AND INTERPRETING	2
Minor Electives, choose from the following:		8-9
GER 61010	THE PRACTICE OF GERMAN TRANSLATION	
GER 61240	LITERARY AND CULTURAL TRANSLATION	
GER 61250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
GER 61251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
TRST 60099	CAPSTONE PROJECT IN TRANSLATION	
Minimum Total Credit Hours:		**10**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Translate authentic, industry-relevant content, both general and domain-specific, using appropriate tools and approaches.
2. Engage in effective research and information retrieval for a variety of language industry-relevant tasks.
3. Demonstrate an understanding of professional and ethical considerations in various project scenarios.
4. Successfully communicate and mediate communication across languages and cultures in multilingual, multicultural contexts.
5. Apply theory to inform and justify their decision making.
6. Critically reflect on their work and that of others.

Greek - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Greek minor is for students who wish to gain expertise in classical Greek and ancient culture beyond the intermediate II level. Students gain proficiency in Greek and take courses in ancient Greek culture, history and archaeology.

Contact Information

- **Radd Ehrman** | rehrman@kent.edu | 330-672-2439
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

The Greek minor is not accepting students at this time.

Admission Requirements

The Greek minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
GRE 14201	ELEMENTARY CLASSICAL GREEK I	
GRE 14202	ELEMENTARY CLASSICAL GREEK II	
Minor Requirements		
GRE 24201	INTERMEDIATE CLASSICAL GREEK I: READINGS	3
GRE 24202	INTERMEDIATE CLASSICAL GREEK II: READINGS	3
GRE 34372	ADVANCED READINGS IN GREEK	3
Classics (CLAS) or Greek (GRE) Upper-Division Elective (30000 or 40000 level)		3
Greek Culture Elective, choose from the following:		3
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	
Any Classics (CLAS) Upper-Division course (30000 or 40000 level)		
Any Greek (GRE) Upper-Division course (30000 or 40000 level)		
Minimum Total Credit Hours:		**15**

[1] Students with prior knowledge of Greek may be able to fulfill one or more of the prerequisite courses through an Alternative Credit option. Students may also fulfill one or more of the prerequisite courses by starting in a higher level course than GRE 14201 and applying for a proficiency waiver as outlined in the Foreign Language Placement policy.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see the program coordinator or academic advisor for course planning.

Italian - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Italian minor is designed for students who wish to speak, read and write in Italian. Required coursework provides a strong grammar foundation and guides students through further development of listening, reading, writing and conversational skills. Students are also introduced to Italian civilization and culture through history, literature and conversation classes conducted in Italian and using Italian-language texts. Students have the opportunity for additional exploration of Italian cultural topics through elective offerings in both Italian and English.

Students may complete some of the coursework for the minor through Kent State's Florence program in Florence, Italy.

Contact Information

- **Stephanie Siciarz** | ssiciarz@kent.edu | 330-672-1810
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
ITAL 15201	ELEMENTARY ITALIAN I	
ITAL 15202	ELEMENTARY ITALIAN II	
ITAL 25201	INTERMEDIATE ITALIAN I	
Minor Requirements		
ITAL 25202	INTERMEDIATE ITALIAN II	3
ITAL 35211	COMPOSITION AND CONVERSATION: CONTEMPORARY ITALIAN SOCIETY	3
ITAL 35213	COMPOSITION AND CONVERSATION: MEDIA AND INFORMATION IN ITALY	3
Italian Electives, choose from the following:		6
ITAL 35331	EARLY ITALIAN LITERATURE	
ITAL 35332	RECENT ITALIAN LITERATURE (ELR)	
ITAL 35421	ITALIAN CIVILIZATION	
Minor Elective, choose from the following:		3
ARTH 42041	ITALIAN RENAISSANCE ART	
ARTH 42043	THE HIGH RENAISSANCE AND MANNERISM IN ITALY	
ARTH 42044	VENETIAN RENAISSANCE ART	
ARTH 42045	ITALIAN ART FROM GIOTTO TO BERNINI	
ARTH 42046	BAROQUE ART OF THE 17TH CENTURY	
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	
CLAS 41006	ROMAN HISTORY	
or HIST 41006	ROMAN HISTORY	
CLAS 41402	ROMAN ARCHAEOLOGY AND ART	
FDM 35589	INTERNATIONAL EXPERIENCE: ITALIAN FASHION AND CULTURE (DIVG) (ELR)	
HIST 31025	ITALY FROM ROME TO THE RENAISSANCE	
HIST 31026	ITALIAN HISTORY FROM THE RENAISSANCE TO THE ENLIGHTENMENT	
HIST 31034	MURDER MYSTERY AND MAYHEM: THE MEDICI DYNASTY IN FLORENCE	
HIST 37001	FLORENCE THE MYTH OF A CITY	
Any Italian (ITAL) Upper-Division course (30000 or 40000 level)		
Minimum Total Credit Hours:		**18**

[1] Prerequisites may be satisfied with demonstrated language proficiency.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Please see the program coordinator or your academic advisor for course planning.

Program Learning Outcomes

Graduates of this program will be able to:

1. Speak in Italian on a variety of topics using appropriate styles of speech.
2. Write in Italian on Italian cultural topics (such as literature, history, politics, society and the arts) and express themselves creatively in Italian.
3. Read and analyze authentic Italian texts such as literary works, nonfiction, history texts, newspaper articles and web content.
4. Recognize and interpret spoken Italian.
5. Exhibit a fundamental understanding of aspects of modern Italian society (such as the economy, religion, media, political system, social issues) and Italy's cultural heritage (such as the history of the Italian peninsula and the Italian literary canon).

Italian Studies - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Italian Studies minor is an interdisciplinary program in the language, literature, history, theater, music and art of Italy. Students are introduced to Italian civilization and culture from the Romans to the present, with a focus on a wide range of various subjects across multiple disciplines.

Students are encouraged to study abroad through Kent State's Florence program in Florence, Italy.

Contact Information

- **Kristin Stasiowski** | kstasiow@kent.edu | 330-672-1804
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Italian Elective, choose from the following:		3
ITAL 15201	ELEMENTARY ITALIAN I	
ITAL 15202	ELEMENTARY ITALIAN II	
ITAL 15204	BASIC CONVERSATIONAL ITALIAN I	
ITAL 25201	INTERMEDIATE ITALIAN I	
ITAL 35340	BOCCACCIO'S DECAMERON IN TRANSLATION	
ITAL 35540	DANTE'S DIVINE COMEDY IN TRANSLATION	
ITAL 45095	SPECIAL TOPICS IN ITALIAN [1]	
Italian History, Arts and Culture Elective, choose from the following:		3
ARCH 30012	URBAN DESIGN, FLORENCE, ITALY	
ARCH 45210	RENAISSANCE ARCHITECTURE	
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	
ARTH 42041	ITALIAN RENAISSANCE ART	
ARTH 42043	THE HIGH RENAISSANCE AND MANNERISM IN ITALY	
ARTH 42044	VENETIAN RENAISSANCE ART	
ARTH 42045	ITALIAN ART FROM GIOTTO TO BERNINI	
BSCI 30189	SCIENTIFIC INQUIRY AND OBSERVATION OF THE NATURAL WORLD (DIVG) (ELR)	
BSCI 30789	FEASTS AND PLAGUES: THE SCIENCE OF ITALIAN FOOD, WINE AND DISEASE - INTERNATIONAL EXPERIENCE (DIVG) (ELR)	
CCI 40089	BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR)	
CCI 40189	ITALIAN POP CULTURE (DIVG) (ELR)	
CCI 40289	ITALIAN CINEMA (DIVG) (ELR)	
FDM 35589	INTERNATIONAL EXPERIENCE: ITALIAN FASHION AND CULTURE (DIVG) (ELR)	
HDF 44089	FAMILIES IN FLORENCE, ITALY: LOVE, PARENTING AND POLICY (DIVG) (ELR)	
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	
HIST 31025	ITALY FROM ROME TO THE RENAISSANCE	
HIST 31026	ITALIAN HISTORY FROM THE RENAISSANCE TO THE ENLIGHTENMENT	
HIST 31034	MURDER MYSTERY AND MAYHEM: THE MEDICI DYNASTY IN FLORENCE	
HIST 37001	FLORENCE THE MYTH OF A CITY	
Minor Electives, choose from the following: [2]		12
ANTH 38789	FACES: HUMAN HEAD ANATOMY WITH A FORENSIC ART FOCUS (DIVG) (ELR)	
ARCH 30012	URBAN DESIGN, FLORENCE, ITALY	
ARCH 45210	RENAISSANCE ARCHITECTURE	
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	
ARTH 42041	ITALIAN RENAISSANCE ART	
ARTH 42043	THE HIGH RENAISSANCE AND MANNERISM IN ITALY	
ARTH 42044	VENETIAN RENAISSANCE ART	
ARTH 42045	ITALIAN ART FROM GIOTTO TO BERNINI	
ARTH 42046	BAROQUE ART OF THE 17TH CENTURY	
BSCI 30189	SCIENTIFIC INQUIRY AND OBSERVATION OF THE NATURAL WORLD (DIVG) (ELR)	
BSCI 30789	FEASTS AND PLAGUES: THE SCIENCE OF ITALIAN FOOD, WINE AND DISEASE - INTERNATIONAL EXPERIENCE (DIVG) (ELR)	
BSCI 40389	ECOLOGY AND NATURAL HISTORY OF MEDITERRANEAN ECOSYSTEMS (DIVG) (ELR)	
CCI 40089	BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR)	
CCI 40189	ITALIAN POP CULTURE (DIVG) (ELR)	
CCI 40289	ITALIAN CINEMA (DIVG) (ELR)	
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	
CLAS 41005	HISTORY OF ANCIENT GREECE	
CLAS 41006	ROMAN HISTORY	
CLAS 41304	LITERATURE OF THE ROMAN WORLD (ELR) (WIC)	
CLAS 41401	GREEK ARCHAEOLOGY AND ART	
CLAS 41402	ROMAN ARCHAEOLOGY AND ART	
CLAS 41503	LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC)	
ENG 34001	MEDIEVAL LITERATURE	
ENG 37001	CLASSICAL RHETORIC	
FDM 30189	FLORENCE FASHION DESIGN STUDIO I (DIVG) (ELR)	
FDM 30289	FLORENCE FASHION DESIGN STUDIO II (DIVG) (ELR)	
FDM 35589	INTERNATIONAL EXPERIENCE: ITALIAN FASHION AND CULTURE (DIVG) (ELR)	
FDM 45589	INTERNATIONAL EXPERIENCE: EUROPEAN FASHION STUDY TOUR FOR FLORENCE STUDENTS (DIVG) (ELR)	
HDF 44089	FAMILIES IN FLORENCE, ITALY: LOVE, PARENTING AND POLICY (DIVG) (ELR)	
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	
HIST 30040	NINETEENTH-CENTURY EUROPE	
HIST 31025	ITALY FROM ROME TO THE RENAISSANCE	
HIST 31026	ITALIAN HISTORY FROM THE RENAISSANCE TO THE ENLIGHTENMENT	

HIST 31032	THE GLOBAL CRISIS OF THE SEVENTEENTH CENTURY
HIST 31034	MURDER MYSTERY AND MAYHEM: THE MEDICI DYNASTY IN FLORENCE
HIST 37001	FLORENCE THE MYTH OF A CITY
ITAL 15201	ELEMENTARY ITALIAN I
ITAL 15202	ELEMENTARY ITALIAN II
ITAL 15204	BASIC CONVERSATIONAL ITALIAN I
ITAL 25201	INTERMEDIATE ITALIAN I
ITAL 35340	BOCCACCIO'S DECAMERON IN TRANSLATION
ITAL 35540	DANTE'S DIVINE COMEDY IN TRANSLATION
ITAL 45095	SPECIAL TOPICS IN ITALIAN [1]
PHIL 31002	MEDIEVAL PHILOSOPHY
PHIL 31011	ANCIENT PHILOSOPHY
PHIL 31060	PHILOSOPHY OF ART AND BEAUTY (ELR)
POL 30520	EUROPEAN POLITICS (DIVG)
Minimum Total Credit Hours:	**18**

[1] No more than 6 credit hours of a special topics (xxx95) course can count toward minor requirements.

[2] International experience (xxx89) courses taken through Kent State's Florence program may be included with the permission of the director of the Italian Studies minor. No more than 6 credit hours can be taken from the same course subject.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- No more than 6 credit hours of a special topics (xxx95) course can count toward minor requirements.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see the program coordinator or academic advisor for course planning.

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand Italian culture through interdisciplinary contexts to produce a personal, informed and critical understanding of Italy.
2. Demonstrate extensive knowledge of Italian culture and society and develop the ability to grasp cultural, social, artistic, political, historical, economic issues and more relevant to Italy and Italians.
3. Identify, interpret, and explain the major developments and forces shaping Italian social, political and cultural history.
4. Understand, discuss and evaluate the role of key trends and works in Italian literature, cinema and other forms of cultural production.

Japanese - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Japanese minor provides a solid grounding in the Japanese language through challenging coursework in the four skills of speaking, listening, reading and writing. The curriculum allows students to explore different aspects of traditional and contemporary culture and society in Japan.

Contact Information

- **Eriko Tanaka** | etanaka1@kent.edu | 330-672-1804
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
JAPN 15101	ELEMENTARY JAPANESE I	
JAPN 15102	ELEMENTARY JAPANESE II	
Minor Requirements		**12**
JAPN 25201	INTERMEDIATE JAPANESE I	
JAPN 25202	INTERMEDIATE JAPANESE II	
JAPN 35010	INTERMEDIATE READING	
JAPN 35101	INTENSIVE JAPANESE GRAMMAR	
Minor Electives, choose from the following:		**6**
JAPN 35326	ADVANCED READING	
JAPN 45211	WRITING IN JAPANESE	
JAPN 45212	ORAL COMMUNICATION IN JAPANESE	
Any Japanese (JAPN) Upper-Division course (20000, 30000, or 40000 level)		
Minimum Total Credit Hours:		**18**

[1] Students with prior knowledge of Japanese may be able to fulfill one or more of the prerequisite courses through an Alternative Credit option. Students may also fulfill one or more of the prerequisite courses by starting in a higher level course than JAPN 15101 and applying for

a proficiency waiver as outlined in the Foreign Language Placement policy.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see the program coordinator or academic advisor for course planning.

Program Learning Outcomes

Graduates of this program will be able to:

1. Speak in Japanese using appropriate styles of speech and manners on topics ranging from personal to cultural and social issues.
2. Write in Japanese using appropriate linguistic styles on various topics.
3. Read and comprehend various types of writing in Japanese such as newspaper articles, short stories and web content with the help of dictionaries and other resources.
4. Distinguish formal, informal and honorific expressions; and successfully code-switch, according to appropriate social contexts.
5. Discuss Japanese cultural traditions and contemporary aesthetics.

Japanese Translation - Graduate Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Japanese Translation graduate minor helps to prepare students for careers in translation, translation management, international business and government.

Contact Information

- mcls@kent.edu | 330-672-2150

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Graduate standing at Kent State University
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- A CD or MP3/wav file with a five-minute oral sample in the applicant's first and second languages (conversational, not read from a script)
- Writing sample(s) in applicant's second language, which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements:		
TRST 60010	THEORY OF TRANSLATION AND INTERPRETING	2
Minor Electives, choose from the following:		8-9
JAPN 65010	THE PRACTICE OF JAPANESE TRANSLATION	
JAPN 65240	LITERARY AND CULTURAL TRANSLATION	
JAPN 65250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
JAPN 65251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
TRST 60099	CAPSTONE PROJECT IN TRANSLATION	
Minimum Total Credit Hours:		**10**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Translate authentic, industry-relevant content, both general and domain-specific, using appropriate tools and approaches.
2. Engage in effective research and information retrieval for a variety of language industry-relevant tasks.
3. Demonstrate an understanding of professional and ethical considerations in various project scenarios.

4. Successfully communicate and mediate communication across languages and cultures in multilingual, multicultural contexts.
5. Apply theory to inform and justify their decision making.
6. Critically reflect on their work and that of others.

Latin - M.A.

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Master of Arts in Latin program allows you to explore the rich history and culture of the Latin language. With a focus on literature, linguistics and cultural studies, you will gain a deep understanding of the language and its impact on the world today. Read more...

Contact Information

- **Jennifer Larson, Ph.D.** | jlarson@kent.edu | 330-672-1801
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online (Literature concentration only)
  - Mostly online
- **Location:**
  - Kent Campus (Applied Linguistics and Pedagogy concentration only - hybrid online/on-ground)

Applications to the M.A. degree in Latin are not being accepted at this time.

Examples of Possible Careers and Salaries*

Curators

- 12.6% much faster than the average
- 14,500 number of jobs
- $56,990 potential earnings

Clergy

- 4.0% about as fast as the average
- 243,900 number of jobs
- $51,940 potential earnings

Curators

- 12.6% much faster than the average
- 14,500 number of jobs
- $56,990 potential earnings

Foreign language and literature teachers, postsecondary

- 5.7% faster than the average
- 30,600 number of jobs
- $69,920 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Additional Careers

- Attorney
- Entrepreneur
- Judicial
- Politician
- Translator

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.A. degree in Latin are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Research paper or essay in English (5-10 pages), which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CLAS 51006	ROMAN HISTORY	3

CLAS 51402	ROMAN ARCHAEOLOGY AND ART	3
LAT 66211	ADVANCED PROSE COMPOSITION	3
Major Electives, choose from the following:		6
CLAS 61404	ANCIENT CHRISTIANITIES	
CLAS 66398	RESEARCH	
LAT 61214	LATIN EPIGRAPHY	
LAT 66391	SEMINAR IN CLASSICAL LITERATURE	
Other approved 60000-level courses, including MCLS courses		
Concentrations		
Choose from the following:		18
Applied Linguistics and Pedagogy		
Literature		
Minimum Total Credit Hours:		**33**

Applied Linguistics and Pedagogy Concentration

Code	Title	Credit Hours
Concentration Requirements		
MCLS 60622	TEACHING LITERATURE AND CULTURE	3
MCLS 60661	THEORIES IN SECOND LANGUAGE ACQUISITION	3
MCLS 60663	SECOND LANGUAGE CURRICULUM AND ASSESSMENT	3
MCLS 63049	SECOND LANGUAGE RESEARCH METHODS	3
Second Language Pedagogy Electives		6
Minimum Total Credit Hours:		**18**

Literature Concentration

Code	Title	Credit Hours
Concentration Requirements		
LAT 66199	THESIS I	6
or LAT 66398	RESEARCH	
Latin Language and Literature Electives [1]		12
Minimum Total Credit Hours:		**18**

[1] Any Latin (LAT) course

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students in the Applied Linguistics and Pedagogy concentration must successfully complete a final project, a portfolio or a comprehensive examination. In addition, students must complete an exit oral interview and an exit essay examination.
- Students in the Literature concentration must successfully complete a thesis or final project. Students are encouraged to enroll (with departmental permission) in study-abroad programs (maximum 6 credit hours) and in specialized workshops in advanced language or pedagogy (maximum 4 credit hours).
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of the Applied Linguistics and Pedagogy concentration will be able to:

1. Demonstrate skills in the analysis of Latin literature.
2. Read Latin proficiently and demonstrate general knowledge of the literature, history and culture of Roman civilization.
3. Demonstrate theoretical knowledge of second language acquisition and linguistics.
4. Demonstrate theoretical knowledge and applied skills in the teaching and assessment of outcomes for second language learners.

Graduates of the Literature concentration will be able to:

1. Demonstrate skills in Latin composition, Latin comprehension, the analysis of Latin literature and understanding of the Roman cultural context within which Latin literature was produced.
2. Read Latin proficiently and demonstrate general knowledge of the literature, history and culture of Roman civilization.
3. Demonstrate the ability to distinguish between ancient and modern cultural values, recognize historical biases and use primary source materials to better understand the culture of ancient Rome.

Full Description

The Master of Arts degree in Latin provides advanced coursework in Latin literature and the history and culture of the Roman civilization.

The Latin major comprises the following concentrations:

- The **Applied Linguistics and Pedagogy** concentration is designed for students already certified to teach Latin and classics in elementary and secondary schools and who wish to increase their language proficiency and effectiveness as teachers.
- The **Literature** concentration is designed for those who anticipate continuing their studies beyond the master's degree level, who plan to teach Latin and classics at the college or post-secondary level, and who wish to pursue scholarly research in classical studies.

Latin - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Latin minor allows students to gain expertise in Latin and ancient culture beyond the intermediate II level. Students obtain proficiency in Latin and take courses in Roman culture, history and archaeology.

Contact Information

- **Brian K. Harvey, Ph.D.** | bkharvey@kent.edu | 330-672-1804
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person

- **Location:**
  - Kent Campus

The Latin minor is not accepting students at this time.

Admission Requirements

The Latin minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
LAT 16201	ELEMENTARY LATIN I	
LAT 16202	ELEMENTARY LATIN II	
Minor Requirements		
LAT 26201	INTERMEDIATE LATIN I: READINGS	3
LAT 26202	INTERMEDIATE LATIN II: READINGS	3
LAT 36172	ADVANCED READINGS IN LATIN	3
Classics (CLAS) or Latin (LAT) Upper-Division Elective (30000 or 40000 level)		3
Latin Culture Elective, choose from the following:		3
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	
Any Classics (CLAS) course (20000, 30000 or 40000 level)		
Any Latin (LAT) Upper-Division course (30000 or 40000 level)		
Minimum Total Credit Hours:		**15**

[1] Students with prior knowledge of Latin may be able to fulfill one or more of the prerequisite courses through an Alternative Credit option. Students may also fulfill one or more of the prerequisite courses by starting in a higher level course than LAT 16201 and applying for a proficiency waiver as outlined in the Foreign Language Placement policy.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see the program coordinator or academic advisor for course planning.

Russian - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Russian minor offers a solid grounding in both spoken and written Russian, in addition to a broad-based understanding of Russian culture. By cultivating linguistic proficiency and cultural literacy, as well as a greater appreciation for the diverse cultures within the Russian-speaking world, this minor prepares students to visit Russia and interact in informal and professional settings with native speakers.

Contact Information

- **Joanna Trzeciak** | jtrzecia@kent.edu | 330-672-1832
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

The Russian minor is not accepting students at this time.

Admission Requirements

The Russian minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
RUSS 12201	ELEMENTARY RUSSIAN I	
RUSS 12202	ELEMENTARY RUSSIAN II	
Minor Requirements		
MCLS 22217	DIVERSITY IN TODAY'S RUSSIA (DIVG)	3
RUSS 22201	INTERMEDIATE RUSSIAN I	3
RUSS 22202	INTERMEDIATE RUSSIAN II	3
RUSS 32201	INTENSIVE RUSSIAN GRAMMAR	3
RUSS 32421	RUSSIAN CIVILIZATION (ELR) (WIC)	3
Russian (RUSS) or Translation Studies (TRST) Upper-Division Elective (30000 or 40000 level) [2]		3
Minimum Total Credit Hours:		**18**

[1] Students with prior knowledge of Russian may be able to fulfill one or more of the prerequisite courses through an Alternative Credit option. Students may also fulfill one or more of the prerequisite courses by

starting in a higher level course than RUSS 12201 and applying for a proficiency waiver as outlined in the Foreign Language Placement policy.

2 Faculty approval is required to take Translation Studies (TRST) courses.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see the program coordinator or academic advisor for course planning.

Program Learning Outcomes

Graduates of this program will be able to:

1. Read a variety of texts written for native speakers of Russian and not edited or adapted for non-native speakers.
2. Compose routine social correspondence and descriptions of a factual nature in Russian.
3. Demonstrate historical knowledge of Russian history and culture and understand the diverse nature of culture throughout the ages.
4. Discuss cultural differences, distinguishing between fact, opinion and stereotype.
5. Maintain an ongoing assessment of their own cultural values and behaviors.

Russian Literature, Culture and Translation - B.A.

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

Explore the rich world of Russian literature and culture with Kent State's B.A. in Russian Literature, Culture and Translation program. Immerse yourself in Russian language, literature and culture while gaining valuable skills in translation and interpretation. Read more...

Contact Information

- **Brian Baer** | bbaer@kent.edu | 330-672-1813
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the B.A. in Russian Literature, Culture and Translation are not being accepted at this time.

Examples of Possible Careers and Salaries*

Foreign language and literature teachers, postsecondary

- 5.7% faster than the average
- 30,600 number of jobs
- $69,920 potential earnings

Interpreters and translators

- 20.0% much faster than the average
- 77,400 number of jobs
- $52,330 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Applications to the B.A. in Russian Literature, Culture and Translation are not being accepted at this time.

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific

exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
RUSS 12201	ELEMENTARY RUSSIAN I	
RUSS 12202	ELEMENTARY RUSSIAN II	
Major Requirements (courses count in major GPA)		
MCLS 22217	DIVERSITY IN TODAY'S RUSSIA (DIVG)	3
RUSS 22201	INTERMEDIATE RUSSIAN I	3
RUSS 22202	INTERMEDIATE RUSSIAN II	3
RUSS 22215	RUSSIAN PHONETICS AND DICTION	3
RUSS 32201	INTENSIVE RUSSIAN GRAMMAR	3
or RUSS 32211	COMPOSITION AND CONVERSATION	
RUSS 32303	MODERN WRITERS (ELR) (WIC) [2]	3
or RUSS 32421	RUSSIAN CIVILIZATION (ELR) (WIC)	
or RUSS 42230	ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC)	
RUSS 32501	RUSSIAN LITERATURE IN ENGLISH	3
Russian (RUSS) Upper-Division Elective (30000 or 40000 level)		3
Russian (RUSS) Upper-Division Elective (40000 level)		3
Major Electives, choose from the following:		6
Any Modern and Classical Language Studies (MCLS) course (20000, 30000 or 40000 level) [3]		
Any Russian (RUSS) Upper-Division course (30000 or 40000 level)		
Any Translation Studies (TRST) Upper-Division course (30000 or 40000 level)		
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		50
Minimum Total Credit Hours:		**120**

1. Students who fulfill the language requirement in fewer than 14 credit hours as a result of starting their Russian studies in a course higher than RUSS 22202 will complete remaining credit hours with general electives. Students with previous Russian study or background knowledge should take the Russian Placement test and consult with a Russian faculty advisor for placement. Students lacking in sufficient major-level proficiency to take the first major course (RUSS 22201) can reach it by taking courses in the prerequisite sequence (RUSS 12201 and RUSS 12202). Students with sufficient Russian to place into higher semesters are not allowed to take RUSS 12201 or RUSS 12202.
2. Students must earn a minimum C grade in one course to fulfill the writing-intensive requirement.
3. Students planning to earn teaching licensure and declared in the Education minor should take MCLS 30420.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- All Russian Literature, Culture and Translation majors must take the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview, ACTFL Writing Proficiency Test and the Russian Outcomes Assessment Test prior to being cleared for graduation. Information about the exams can be found on the ACTFL website and the Language Testing International (LTI) website, the exclusive licensee of ACTFL. B.A. in Russian Literature, Culture and Translation candidates should consult with their designated Russian faculty advisor for more information on arranging to take the proficiency exams.

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see the program coordinator or academic advisor for course planning.

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level

and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	MCLS 22217	DIVERSITY IN TODAY'S RUSSIA (DIVG)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
!	Prerequisite or General Electives		4
		Credit Hours	**14**
	Semester Two		
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
!	Prerequisite or General Electives		4
		Credit Hours	**16**
	Semester Three		
!	RUSS 22201	INTERMEDIATE RUSSIAN I	3
	RUSS 22215	RUSSIAN PHONETICS AND DICTION	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	RUSS 22202	INTERMEDIATE RUSSIAN II	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Five		
	RUSS 32211	COMPOSITION AND CONVERSATION	3
	or Major Elective		
	General Electives		12
		Credit Hours	**15**
	Semester Six		
	RUSS 32303 or RUSS 32421 or RUSS 42230	MODERN WRITERS (ELR) (WIC) or RUSSIAN CIVILIZATION (ELR) (WIC) or ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC)	3
!	RUSS 32501	RUSSIAN LITERATURE IN ENGLISH	3
	General Electives		9
		Credit Hours	**15**
	Semester Seven		
	RUSS 32201	INTENSIVE RUSSIAN GRAMMAR	3
	or Major Elective		
	Russian (RUSS) Upper-Division Elective (40000 level)		3
	General Electives		9
		Credit Hours	**15**
	Semester Eight		
	Russian (RUSS) Upper-Division Elective (30000 or 40000 level)		3
	Major Elective		3
	General Electives		9
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7

Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Perform tasks at intermediate-high and advanced-low levels of proficiency as described by the American Council on the Teaching of Foreign Languages (ACTFL) Proficiency Guidelines. Proficiency, in ACTFL terms, is understood to describe a range of qualities rather than an absolute norm and will vary according to task type, language function, topic, skill (listening, speaking, reading, writing) and so forth.
2. Contribute to most informal and some formal conversations with sufficient accuracy, clarity and precision to convey their intended message without misrepresentation or confusion.
3. Read a variety of texts written for native speakers of Russian and not edited or adapted for non-native speakers.
4. Compose routine social correspondence and write cohesive summaries, narratives and descriptions of a factual nature in Russian.
5. Demonstrate a historical knowledge of Russian history and culture and understand the diverse nature of culture throughout the ages.
6. Discuss cultural differences, distinguishing between fact, opinion and stereotype.
7. Communicate effectively and sensitively to diverse ethnic and cultural groups.
8. View concepts, issues, events and themes from the perspectives of diverse ethnic and cultural groups.
9. Maintain an ongoing assessment of their own cultural values and behaviors.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Russian Literature, Culture and Translation provides a basis for the development of professional-level proficiency in the Russian language, as well as comprehensive understanding of Russian literature and culture, including television and film. Additionally, students are introduced to basic skills for translating a variety of pragmatic texts from Russian into English. Students explore the language and culture of the pre-revolutionary Russian empire, the Soviet Union and contemporary post-Soviet Russia.

Russian Studies - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Russian Studies minor offers students the opportunity to study the language and culture of Russia.

Contact Information

- **Joanna Trzeciak** | jtrzecia@kent.edu | 330-672-1832
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

The Russian Studies minor is not accepting students at this time.

Admission Requirements

The Russian Studies minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
MCLS 22217	DIVERSITY IN TODAY'S RUSSIA (DIVG)	3
RUSS 12201	ELEMENTARY RUSSIAN I	4
RUSS 12202	ELEMENTARY RUSSIAN II	4
Minor Electives, choose from the following:		9
ARTH 42060	RUSSIAN ART	
HIST 31023	THE GREAT POWERS IN WAR AND PEACE, 1914-1945	
HIST 31024	WORLD WAR II	
HIST 31035	THE GLOBAL COLD WAR	
POL 30520	EUROPEAN POLITICS (DIVG)	
Minimum Total Credit Hours:		**20**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Please see the program coordinator or your academic advisor for course planning.

Program Learning Outcomes

Graduates of this program will be able to:

1. Contribute to most informal and some formal conversations with sufficient accuracy, clarity and precision to convey their intended message without misrepresentation or confusion.
2. Read a variety of texts written for native speakers of Russian and not edited or adapted for non-native speakers.
3. Demonstrate a historical knowledge of Russian history and culture and understand the diverse nature of culture throughout the ages.
4. View concepts, issues, events and themes from the perspectives of diverse ethnic and cultural groups.
5. Maintain an ongoing assessment of their own cultural values and behaviors.

Russian Translation - Graduate Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Russian Translation graduate minor helps to prepare students for careers in translation, translation management, international business and government.

Contact Information

- mcls@kent.edu | 330-672-2150

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Graduate standing at Kent State University
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- A CD or MP3/wav file with a five-minute oral sample in the applicant's first and second languages (conversational, not read from a script)
- Writing sample(s) in applicant's second language, which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements:		
TRST 60010	THEORY OF TRANSLATION AND INTERPRETING	2
Minor Electives, choose from the following:		8-9
RUSS 62010	THE PRACTICE OF RUSSIAN TRANSLATION	
RUSS 62240	LITERARY AND CULTURAL TRANSLATION	
RUSS 62250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
RUSS 62251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
TRST 60099	CAPSTONE PROJECT IN TRANSLATION	
Minimum Total Credit Hours:		**10**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of the program will be able to:

1. Translate authentic, industry-relevant content, both general and domain-specific, using appropriate tools and approaches.
2. Engage in effective research and information retrieval for a variety of language industry-relevant tasks.
3. Demonstrate an understanding of professional and ethical considerations in various project scenarios.
4. Successfully communicate and mediate communication across languages and cultures in multilingual, multicultural contexts.
5. Apply theory to inform and justify their decision-making.
6. Critically reflect on their work and that of others.

Spanish - B.A.

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

Kent State's Bachelor of Arts in Spanish program combines language proficiency with cultural understanding. With experienced faculty and immersive study abroad opportunities, you will gain the skills needed to communicate effectively with Spanish-speaking populations. Enroll now and expand your cultural horizons with Kent State. Read more...

Contact Information

- **Luis Hermosilla** | lhermosi@kent.edu | 330-672-1830
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Foreign language and literature teachers, postsecondary

- 5.7% faster than the average
- 30,600 number of jobs
- $69,920 potential earnings

Interpreters and translators

- 20.0% much faster than the average
- 77,400 number of jobs
- $52,330 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
SPAN 18201	ELEMENTARY SPANISH I	
SPAN 18202	ELEMENTARY SPANISH II	
SPAN 28201	INTERMEDIATE SPANISH I	
SPAN 28202	INTERMEDIATE SPANISH II	
Major Requirements (courses count in major GPA)		
SPAN 38211	SPANISH GRAMMAR AND COMPOSITION	3
SPAN 38213	SPANISH READING AND CONVERSATION	3
SPAN 38421	CIVILIZATION OF SPAIN	3
SPAN 38424	CULTURE AND CIVILIZATION OF LATIN AMERICA	3
SPAN 48215	ADVANCED SPANISH COMPOSITION AND CONVERSATION	3
Spanish (SPAN) Upper-Division Electives (30000 or 40000 level)		6
Spanish (SPAN) Upper-Division Electives (40000 level)		6
Survey Literature Elective, choose from the following:		3

SPAN 38330	EARLY SPANISH LITERATURE (ELR) (WIC) [2]	
SPAN 38331	RECENT SPANISH LITERATURE (ELR) (WIC) [2]	
SPAN 38334	EARLY SPANISH-AMERICAN LITERATURE (ELR) (WIC) [2]	
SPAN 38335	RECENT SPANISH-AMERICAN LITERATURE (ELR) (WIC) [2]	
Major Elective, choose from the following:		3
Any Modern and Classical Language Studies (MCLS) Upper-Division course (30000 or 40000 level) [3]		
Any Spanish (SPAN) Upper-Division course (30000 or 40000 level)		
Any Translation Studies (TRST) Upper-Division course (30000 or 40000 level)		
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		50
Minimum Total Credit Hours:		**120**

[1] Many students begin their university studies with substantial proficiency in Spanish and therefore, should begin their program of study with the first course in the Spanish major, SPAN 38211. Other students may need to complete one or more of the prerequisite courses: SPAN 18201, SPAN 18202, SPAN 28201, SPAN 28202. Starting Spanish studies in the appropriate course(s) is critical to on-time graduation. All students intending to major in Spanish should contact a Spanish faculty advisor in the Department of Modern and Classical Language Studies for individualized placement and advising information prior to enrolling in their first Spanish course. Students entering the university with substantial knowledge of Spanish should consider taking the College-Level Examination Program (CLEP), through which they may receive up to 14 credit hours of university credit. Students wishing to earn credit through CLEP should take the exam several weeks prior to enrolling in their first Spanish course to ensure eligibility, timely granting of credits and timely placement into the correct Spanish course(s).

[2] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[3] It is recommended that students who have declared the Education minor and students interested in declaring a double major with Translation take MCLS 30420.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- All students in the Spanish major are required to complete the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview, ACTFL Writing Proficiency Test and the Spanish Outcomes Assessment Test prior to being cleared for graduation. Information about the exams can be found on the ACTFL website and the Language Testing International (LTI) website, the exclusive licensee of ACTFL.

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Please see the program coordinator or your academic advisor for course planning.

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
SPAN 38211	SPANISH GRAMMAR AND COMPOSITION	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**16**
Semester Two		
SPAN 38213	SPANISH READING AND CONVERSATION	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3

Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
SPAN 38421	CIVILIZATION OF SPAIN	3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Four		
SPAN 38424	CULTURE AND CIVILIZATION OF LATIN AMERICA	3
Major Elective or Survey Literature Elective or Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
General Electives		9
	Credit Hours	**15**
Semester Five		
Major Elective or Survey Literature Elective or Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
General Electives		9
	Credit Hours	**15**
Semester Six		
Major Elective or Survey Literature Elective or Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Seven		
SPAN 48215	ADVANCED SPANISH COMPOSITION AND CONVERSATION	3
Major Electives or Survey Literature Electives or Spanish (SPAN) Upper-Division Electives (30000 or 40000 level)		6
General Electives		6
	Credit Hours	**15**
Semester Eight		
Major Elective or Survey Literature Elective or Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
General Electives		11
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Perform tasks at intermediate-high and advanced-low levels of proficiency as described by the American Council on the Teaching of Foreign Languages (ACTFL) Proficiency Guidelines. Proficiency, in ACTFL terms, is understood to describe a range of qualities rather than an absolute norm and will vary according to task type, language function, topic, skill (listening, speaking, reading, writing) and so forth.
2. Contribute to most informal and some formal conversations with sufficient accuracy, clarity and precision to convey their intended message without misrepresentation or confusion. They will, for the most part, be understood by native speakers unaccustomed to dealing with non-native speakers.
3. Vary the register (formality level) of their speech.
4. Talk about personal interests, topics of general interest, literature and culture and so forth in the target language.
5. Listen to extended discourse on a variety of topics and understand main ideas and most details.
6. Read texts written for native speakers and not edited or adapted for students. They will read a wide variety of text types such as poems, plays, novels, magazine articles, newspaper articles, brochures, pamphlets, menus and letters written for native speakers of Spanish.
7. Compose routine social correspondence, take notes and write cohesive summaries and resumes, as well as narratives and descriptions of a factual nature, in the target language.
8. Demonstrate a historical knowledge of Spanish history and culture and understand the diverse nature of culture throughout the ages.
9. Discuss cultural differences, distinguishing between fact, opinion and stereotypes.
10. Learn to recognize and esteem diversity as they gain the skills necessary for sensitive, effective interpersonal and intercultural interaction.
11. Learn to view concepts, issues, events and themes from the perspectives of diverse ethnic and cultural groups and esteem

diversity as they gain the skills necessary for sensitive, effective interpersonal and intercultural communication.

12. Maintain an ongoing assessment of their own cultural values and behaviors.

Program Policies
Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Spanish provides students with opportunities to explore the rich diversity of Spanish cultures and develop reading, writing, listening and speaking skills in the Spanish language. Students also acquire an in-depth knowledge and critical perspective of history and culture of the Spanish-speaking world through the analysis of literary and non-literary texts.

Successful completion of the program fosters in students a lifetime commitment and desire to continue learning about languages, literatures and cultures different from their own.

Spanish - M.A.

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Master of Arts in Spanish provides students with advanced language skills and cultural knowledge. With a focus on research and immersion, this program prepares students for a wide range of career opportunities. Read more...

Contact Information

- **Patrick Gallagher** | pgallag1@kent.edu | 330-672-2150
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the Languages, Literature and Culture concentration are not being accepted at this time.

Examples of Possible Careers and Salaries*

Foreign language and literature teachers, postsecondary

- 5.7% faster than the average
- 30,600 number of jobs
- $69,920 potential earnings

Interpreters and translators

- 20.0% much faster than the average
- 77,400 number of jobs
- $52,330 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Languages, Literature and Culture concentration are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- A CD or MP3/wav file with a 5-10-minute oral sample in both applicant's first and second languages (conversational, not read from a script)
  - In lieu of an oral sample, applicants may submit a copy of a recent ACTFL Oral Proficiency Interview Certificate (no more than three years old)
- Writing sample(s) in applicant's second language, which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation.

International applicants should also submit a writing sample in English.

- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: January 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
SPAN 58216	CONTEMPORARY HISPANIC CULTURE	3
SPAN 68215	ADVANCED SPANISH COMPOSITION AND CONVERSATION	3
Spanish (SPAN) Electives (50000 or 60000 level)		6
Literary Theory Electives, choose from the following:		3
MCLS 60330	APPROACHES TO LITERATURE AND CULTURE	
or MCLS 60622	TEACHING LITERATURE AND CULTURE	
or SPAN 68240	LITERARY AND CULTURAL TRANSLATION	
Research Method Electives, choose from the following:		3
MCLS 63049	SECOND LANGUAGE RESEARCH METHODS	
or TRST 60001	GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES	
Applied Linguistics Electives, choose from the following:		3
MCLS 60601	LINGUISTICS FOR THE LANGUAGE PROFESSIONS	
SPAN 68010 & TRST 60010	THE PRACTICE OF SPANISH TRANSLATION and THEORY OF TRANSLATION AND INTERPRETING	
Concentrations		
Choose from the following:		12
Applied Linguistics and Pedagogy		
Languages, Literature and Culture		
Minimum Total Credit Hours:		**33**

Applied Linguistics and Pedagogy Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
MCLS 50660	METHODS OF TEACHING FOREIGN LANGUAGES [1]	3
MCLS 60661	THEORIES IN SECOND LANGUAGE ACQUISITION	3
Second Language Pedagogy Electives		6
Minimum Total Credit Hours:		**12**

[1] Students who are already licensed to teach language in Ohio may, with departmental approval, substitute a graduate second-language pedagogy elective for MCLS 50660.

Languages, Literature and Culture Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Spanish (SPAN) Electives (50000 or 60000 level) [1,2,3]		6
Concentration Electives, choose from the following: [1,2,3]		6
Any Modern and Classical Language Studies (MCLS) Graduate course (60000 level)		
Any Spanish (SPAN) Graduate course (50000 or 60000 level)		
Any Translation Studies (TRST) Graduate course (60000 level)		
Minimum Total Credit Hours:		**12**

[1] A maximum 6 credit hours of individual investigation research may be applied toward the degree.
[2] Students interested in a thesis option may register for a maximum of 6 credit hours of SPAN 68199.
[3] Students must complete a minimum of 18 credit hours of their M.A. program at the 60000 level. Electives should be chosen accordingly in consultation with the student's academic advisor.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- All students in the Spanish M.A. are required to complete the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview, ACTFL Writing Proficiency Test and the Spanish. Outcomes Assessment Test, prior to being cleared for graduation. Information about the exams can be found on the ACTFL website and the Language Testing International (LTI) website, the exclusive licensee of ACTFL.
- Students in the Applied Linguistics and Pedagogy concentration must successfully complete a final project, a portfolio or a comprehensive examination. Students are encouraged to enroll in study abroad programs (maximum 6 credit hours) and in specialized workshops in advanced language or pedagogy (maximum 4 credit hours). Departmental permission must be obtained before enrolling in such programs.
- Students in the Language, Literature and Culture concentration must successfully complete one of the following: (1) comprehensive examination; (2) concentration exam and thesis; or (3) final research project.
- Students who anticipate enrolling in a doctorate elsewhere after completing the M.A. degree are urged to write a thesis. Students who write a thesis must successfully pass a comprehensive examination.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.

- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Communicate in Spanish at advanced-mid or higher proficiency level as measured by the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview Test and ACTFL Writing Proficiency Test.
2. Demonstrate skills in the analysis of Spanish Peninsular, Latin American or Hispanic culture, literature and language.
3. Demonstrate an ability to carry out and present research projects in their respective concentration areas.
4. Demonstrate specialized knowledge and skills in their respective concentration area.

Full Description

The Master of Arts degree in Spanish provides advanced education in Spanish, which integrates the language, linguistics, literature and culture of Spain and Latin America and the latest methodologies in the teaching of Spanish.

The Spanish major comprises the following concentrations:

- The **Applied Linguistics and Pedagogy** concentration is intended primarily for (1) licensed, in-service pre-K-12 Spanish teachers who wish to continue their professional development, advancing their knowledge of the Spanish language, literature and culture and language-teaching practices, and (2) students interested in teaching Spanish in college and university settings. This program does not lead to teaching licensure.
- The **Languages, Literature and Culture** concentration is intended for those who wish to increase their knowledge of literature and culture along with their command of the language for various purposes.

Spanish - Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Spanish minor enables students to develop skills in listening, speaking, reading and writing, as well as acquire knowledge of the literatures and cultures of Spain and Latin America. To achieve these goals, students study grammar, composition, speaking, Spanish and Spanish-American civilization and Spanish-American and Hispanic literature with emphasis on culture.

Contact Information

- **Olga Rivera** | orivera@kent.edu | 330-672-1804
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Prerequisite Requirements [1]		
SPAN 18201	ELEMENTARY SPANISH I	
SPAN 18202	ELEMENTARY SPANISH II	
SPAN 28201	INTERMEDIATE SPANISH I	
SPAN 28202	INTERMEDIATE SPANISH II	
Minor Requirements		
SPAN 38211	SPANISH GRAMMAR AND COMPOSITION	3
SPAN 38213	SPANISH READING AND CONVERSATION	3
SPAN 38421	CIVILIZATION OF SPAIN	3
or SPAN 38424	CULTURE AND CIVILIZATION OF LATIN AMERICA	
Spanish (SPAN) Upper-Division Electives (30000 or 40000 level)		6
Spanish (SPAN) Upper-Division Elective (40000 level)		3
Spanish Literature Elective, choose from the following:		3
SPAN 38330	EARLY SPANISH LITERATURE (ELR) (WIC)	
SPAN 38331	RECENT SPANISH LITERATURE (ELR) (WIC)	
SPAN 38334	EARLY SPANISH-AMERICAN LITERATURE (ELR) (WIC)	
SPAN 38335	RECENT SPANISH-AMERICAN LITERATURE (ELR) (WIC)	
Minimum Total Credit Hours:		**21**

[1] Prerequisites may be satisfied with demonstrated language proficiency.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Please see the program coordinator or your academic advisor for course planning.

Spanish Translation - Graduate Minor

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Spanish Translation graduate minors helps to prepare students for careers in translation, translation management, international business and government.

Contact Information

- mcls@kent.edu | 330-672-2150

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Graduate standing at Kent State University
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- A CD or MP3/wav file with a five-minute oral sample in the applicant's first and second languages (conversational, not read from a script)
- Writing sample(s) in applicant's second language, which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements:		
TRST 60010	THEORY OF TRANSLATION AND INTERPRETING	2
Minor Electives, choose from the following:		8-9
SPAN 68010	THE PRACTICE OF SPANISH TRANSLATION	
SPAN 68240	LITERARY AND CULTURAL TRANSLATION	
SPAN 68250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
SPAN 68251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
TRST 60099	CAPSTONE PROJECT IN TRANSLATION	
Minimum Total Credit Hours:		**10**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of the program will be able to:

1. Translate authentic, industry-relevant content, both general and domain-specific, using appropriate tools and approaches
2. Engage in effective research and information retrieval for a variety of language industry-relevant tasks
3. Demonstrate an understanding of professional and ethical considerations in various project scenarios
4. Successfully communicate and mediate communication across languages and cultures in multilingual, multicultural contexts
5. Apply theory to inform and justify their decision-making
6. Critically reflect on their work and that of others

Translation - B.S.

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

Our Bachelor of Science in Translation combines language proficiency with cultural competency to prepare you for a career as a professional translator. With experienced faculty, immersive learning opportunities and access to state-of-the-art resources, you will gain the skills needed to bridge language barriers and foster cross-cultural communication. Read more...

Contact Information

- **Geoff Koby** | gkoby@kent.edu | 330-672-1814
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the B.S. in Translation are not being accepted at this time.

Examples of Possible Careers and Salaries*

Foreign language and literature teachers, postsecondary

- 5.7% faster than the average
- 30,600 number of jobs
- $69,920 potential earnings

Interpreters and translators

- 20.0% much faster than the average
- 77,400 number of jobs
- $52,330 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Applications to the B.S. in Translation are not being accepted at this time.

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING [1]	3
or ENG 30063	PROFESSIONAL WRITING	
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
TRST 20009	MULTILINGUAL INFORMATION LIFECYCLE	3
TRST 30230	APPROACHES TO TRANSLATION	3
TRST 30330	CROSS-LANGUAGE MEDIATION	3
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Minor, Certificate or Second Major Electives [2]		18
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		22
Concentrations		
Choose from the following:		28
Arabic		
French		
German		
Russian		
Spanish		
Minimum Total Credit Hours:		**120**

1 ENG 20002 is recommended for students pursuing a technology-related minor, certificate or second major; ENG 30063 is recommended for students pursuing a business-related minor, certificate or second major.

2 Students must declare and complete a minimum of 18 credit hours in a minor, certificate or second major subject to department faculty advisor approval in a field related to business, technology, health, medicine, science, law, politics or other field in which there is currently a high demand for translators.

Arabic Concentration Requirements

Code	Title	Credit Hours
Prerequisite Requirements		
ARAB 11101	ELEMENTARY ARABIC I	
ARAB 11102	ELEMENTARY ARABIC II	
ARAB 21201	INTERMEDIATE ARABIC I	
ARAB 21202	INTERMEDIATE ARABIC II	
Concentration Requirements (courses count in major GPA)		
ARAB 37231	TRANSLATION PRACTICE: ARABIC	1

ARAB 37240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: ARABIC	3
ARAB 47230	ADVANCED TRANSLATION PRACTICE: ARABIC	3
ARAB 47240	BUSINESS AND SPECIAL TEXTS: ARABIC	3
Arabic (ARAB) Upper-Division Electives (40000 level)		6
Concentration Electives, choose from the following:		12
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	
COMM 43000	COMMUNICATION TECHNOLOGY AND HUMAN INTERACTION	
ENG 30062	PRINCIPLES OF TECHNICAL WRITING	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
HIST 31126	HISTORY OF THE MIDDLE EAST	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
MKTG 25010	PRINCIPLES OF MARKETING	
OTEC 26640	CURRENT TECHNOLOGIES	
PLST 28001	LEGAL RESEARCH AND WRITING	
POL 30560	MIDDLE EAST POLITICS (DIVG)	
VCD 47000	VISUAL DESIGN FOR MEDIA	
Any Arabic (ARAB) Upper-Division course (30000 or 40000 level)		
Minimum Total Credit Hours:		**28**

French Concentration Requirements

Code	Title	Credit Hours
Prerequisite Requirements		
FR 13201	ELEMENTARY FRENCH I	
FR 13202	ELEMENTARY FRENCH II	
FR 23201	INTERMEDIATE FRENCH I	
FR 23202	INTERMEDIATE FRENCH II	
Concentration Requirements (courses count in major GPA)		
FR 33091	FRENCH FOR THE PROFESSIONS SEMINAR	3
FR 33231	TRANSLATION PRACTICE: FRENCH	1
FR 43230	ADVANCED TRANSLATION PRACTICE: FRENCH (WIC) [1]	3
French (FR) Upper-Division Electives (30000 or 40000 level)		12
French (FR) Upper-Division Electives (40000 level)		6
Additional Requirements (courses do not count in major GPA)		
General Elective		3
Minimum Total Credit Hours:		**28**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement. Students may also fulfill this requirement by earning a minimum C grade in any of the language-specific advanced translation practice courses or a language-specific elective that is designated as writing-intensive.

German Concentration Requirements

Code	Title	Credit Hours
Prerequisite Requirements		
GER 11201	ELEMENTARY GERMAN I	
GER 11202	ELEMENTARY GERMAN II	
GER 21201	INTERMEDIATE GERMAN I	
GER 21202	INTERMEDIATE GERMAN II	
Concentration Requirements (courses count in major GPA)		
GER 31231	TRANSLATION PRACTICE: GERMAN	1
GER 31240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: GERMAN	3
GER 41230	ADVANCED TRANSLATION PRACTICE: GERMAN (ELR) (WIC) [1]	3
GER 41240	BUSINESS AND SPECIAL TEXTS: GERMAN	3
German (GER) Upper-Division Electives (30000 or 40000 level)		12
German (GER) Upper-Division Electives (40000 level)		6
Minimum Total Credit Hours:		**28**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement. Students may also fulfill this requirement by earning a minimum C grade in any of the language-specific advanced translation practice courses or a language-specific elective that is designated as writing-intensive.

Russian Concentration Requirements

Code	Title	Credit Hours
Prerequisite Requirements		
RUSS 12201	ELEMENTARY RUSSIAN I	
RUSS 12202	ELEMENTARY RUSSIAN II	
RUSS 22201	INTERMEDIATE RUSSIAN I	
RUSS 22202	INTERMEDIATE RUSSIAN II	
Concentration Requirements (courses count in major GPA)		
RUSS 32231	TRANSLATION PRACTICE: RUSSIAN	1
RUSS 32240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: RUSSIAN	3
RUSS 42230	ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC) [1]	3
RUSS 42240	BUSINESS AND SPECIAL TEXTS: RUSSIAN	3
Russian (RUSS) Upper-Division Electives (30000 or 40000 level)		12
Russian (RUSS) Upper-Division Electives (40000 level)		6
Minimum Total Credit Hours:		**28**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement. Students may also fulfill this requirement by earning a minimum C grade in any of the language-specific advanced translation practice courses or a language-specific elective that is designated as writing-intensive.

Spanish Concentration Requirements

Code	Title	Credit Hours
Prerequisite Requirements		
SPAN 18201	ELEMENTARY SPANISH I	
SPAN 18202	ELEMENTARY SPANISH II	
SPAN 28201	INTERMEDIATE SPANISH I	
SPAN 28202	INTERMEDIATE SPANISH II	
Concentration Requirements (courses count in major GPA)		
SPAN 38231	TRANSLATION PRACTICE: SPANISH	1
SPAN 38240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: SPANISH	3
SPAN 48230	ADVANCED TRANSLATION PRACTICE: SPANISH (ELR) (WIC) [1]	3
SPAN 48240	BUSINESS AND SPECIAL TEXTS: SPANISH	3
Spanish (SPAN) Upper-Division Electives (30000 or 40000 level)		12

Spanish (SPAN) Upper-Division Electives (40000 level)	6
Minimum Total Credit Hours:	**28**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement. Students may also fulfill this requirement by earning a minimum C grade in any of the language-specific advanced translation practice courses or a language-specific elective that is designated as writing-intensive.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students must declare and graduate with a minor, certificate or second major to earn the B.S. degree in Translation Studies.
- Students are expected to start in a course appropriate to their language proficiency level. Students lacking in sufficient proficiency to take the first concentration course can reach it by taking courses in the prerequisite sequence based on their placement score and high school training. One or more of the prerequisites may be waived with demonstrated proficiency through the Kent State placement test, AP, CLEP, International Baccalaureate, official ACTFL Proficiency Rating or another department-approved assessment.
- Students who fulfill the college language requirement in fewer than 8 credit hours as a result of proficiency will complete remaining hours with general electives. Completion of first junior-level course completes the College of Arts and Sciences foreign language requirement.

Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Students should see the program coordinator or academic advisor for course planning.

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

[1] All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

[2] The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Arabic Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	UC 10001	FLASHES 101	1
	Arabic Concentration Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	TRST 20009	MULTILINGUAL INFORMATION LIFECYCLE	3
	Arabic Concentration Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Three		
	ENG 20002 or ENG 30063	INTRODUCTION TO TECHNICAL WRITING or PROFESSIONAL WRITING	3
!	TRST 30330	CROSS-LANGUAGE MEDIATION	3
	Arabic Concentration Elective		3
	Minor, Certificate or Second Major Elective		3
		Credit Hours	**12**
	Semester Four		
	MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
	Minor, Certificate or Second Major Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	ARAB 37231	TRANSLATION PRACTICE: ARABIC	1
!	TRST 30230	APPROACHES TO TRANSLATION	3
	Arabic (ARAB) Upper-Division Elective (40000 level)		3
	Minor, Certificate or Second Major Electives		6
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Six		
	ARAB 47230	ADVANCED TRANSLATION PRACTICE: ARABIC	3
	Minor, Certificate or Second Major Elective		3
	General Electives		9
		Credit Hours	**15**

	Semester Seven		
	ARAB 37240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: ARABIC	3
	Arabic (ARAB) Upper-Division Elective (40000 level)		3
	Arabic Concentration Elective		3
	Minor, Certificate or Second Major Elective		3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
	ARAB 47240	BUSINESS AND SPECIAL TEXTS: ARABIC	3
	General Electives		10
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

French Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	UC 10001	FLASHES 101	1
	French (FR) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	TRST 20009	MULTILINGUAL INFORMATION LIFECYCLE	3
	French (FR) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Three		
	ENG 20002 or ENG 30063	INTRODUCTION TO TECHNICAL WRITING or PROFESSIONAL WRITING	3
!	TRST 30330	CROSS-LANGUAGE MEDIATION	3
	French (FR) Upper-Division Elective (30000 or 40000 level)		3
	Minor, Certificate or Second Major Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
	Minor, Certificate or Second Major Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**12**
	Semester Five		
!	FR 33231	TRANSLATION PRACTICE: FRENCH	1
!	TRST 30230	APPROACHES TO TRANSLATION	3
	French (FR) Upper-Division Elective (40000 level)		3
	Minor, Certificate or Second Major Electives		6
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Six		
	FR 43230	ADVANCED TRANSLATION PRACTICE: FRENCH (WIC)	3
	Minor, Certificate or Second Major Elective		3
	General Electives		9
		Credit Hours	**15**
	Semester Seven		
	FR 33091	FRENCH FOR THE PROFESSIONS SEMINAR	3
	French (FR) Upper-Division Elective (30000 or 40000 level)		3
	French (FR) Upper-Division Elective (40000 level)		3
	Minor, Certificate or Second Major Elective		3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
	General Electives		13
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

German Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	UC 10001	FLASHES 101	1
	German (GER) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	TRST 20009	MULTILINGUAL INFORMATION LIFECYCLE	3
	German (GER) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Three		
	ENG 20002 or ENG 30063	INTRODUCTION TO TECHNICAL WRITING or PROFESSIONAL WRITING	3
!	TRST 30330	CROSS-LANGUAGE MEDIATION	3
	German (GER) Upper-Division Elective (30000 or 40000 level)		3
	Minor, Certificate or Second Major Elective		3
		Credit Hours	**12**
	Semester Four		
!	MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
	Minor, Certificate or Second Major Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3

	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
!	GER 31231	TRANSLATION PRACTICE: GERMAN	1
!	TRST 30230	APPROACHES TO TRANSLATION	3
	German (GER) Upper-Division Elective (40000 level)		3
	Minor, Certificate or Second Major Electives		6
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Six		
	GER 41230	ADVANCED TRANSLATION PRACTICE: GERMAN (ELR) (WIC)	3
	Minor, Certificate or Second Major Elective		3
	General Electives		9
		Credit Hours	**15**
	Semester Seven		
	GER 41240	BUSINESS AND SPECIAL TEXTS: GERMAN	3
	German (GER) Upper-Division Elective (30000 or 40000 level)		3
	German (GER) Upper-Division Elective (40000 level)		3
	Minor, Certificate or Second Major Elective		3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
	GER 31240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: GERMAN	3
	General Electives		10
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

Russian Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	UC 10001	FLASHES 101	1
	Russian (RUSS) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	TRST 20009	MULTILINGUAL INFORMATION LIFECYCLE	3
	Russian (RUSS) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Three		
	ENG 20002 or ENG 30063	INTRODUCTION TO TECHNICAL WRITING or PROFESSIONAL WRITING	3
!	TRST 30330	CROSS-LANGUAGE MEDIATION	3
	Russian (RUSS) Upper-Division Elective (30000 or 40000 level)		3
	Minor, Certificate or Second Major Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
	Minor, Certificate or Second Major Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
!	RUSS 32231	TRANSLATION PRACTICE: RUSSIAN	1
!	TRST 30230	APPROACHES TO TRANSLATION	3
	Russian (RUSS) Upper-Division Elective (40000 level)		3
	Minor, Certificate or Second Major Electives		6
		Credit Hours	**13**
	Semester Six		
	RUSS 42230	ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC)	3
	Minor, Certificate or Second Major Elective		3
	General Electives		9
		Credit Hours	**15**
	Semester Seven		
	RUSS 32240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: RUSSIAN	3
	Russian (RUSS) Upper-Division Elective (30000 or 40000 level)		3
	Russian (RUSS) Upper-Division Elective (40000 level)		3
	Minor, Certificate or Second Major Elective		3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
	RUSS 42240	BUSINESS AND SPECIAL TEXTS: RUSSIAN	3
	General Electives		10
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

Spanish Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	UC 10001	FLASHES 101	1
	Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	TRST 20009	MULTILINGUAL INFORMATION LIFECYCLE	3
	Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3

	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Three		
	ENG 20002 or ENG 30063	INTRODUCTION TO TECHNICAL WRITING or PROFESSIONAL WRITING	3
!	TRST 30330	CROSS-LANGUAGE MEDIATION	3
	Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
	Minor, Certificate or Second Major Elective		3
		Credit Hours	**12**
	Semester Four		
!	MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
	Minor, Certificate or Second Major Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
!	SPAN 38231	TRANSLATION PRACTICE: SPANISH	1
!	TRST 30230	APPROACHES TO TRANSLATION	3
	Spanish (SPAN) Upper-Division Elective (40000 level)		3
	Minor, Certificate or Second Major Electives		6
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Six		
	SPAN 48230	ADVANCED TRANSLATION PRACTICE: SPANISH (ELR) (WIC)	3
	Minor, Certificate or Second Major Elective		3
	General Electives		9
		Credit Hours	**15**
	Semester Seven		
	SPAN 38240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: SPANISH	3
	Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
	Spanish (SPAN) Upper-Division Elective (40000 level)		3
	Minor, Certificate or Second Major Elective		3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
	SPAN 48240	BUSINESS AND SPECIAL TEXTS: SPANISH	3
	General Electives		10
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Participate in most informal and some formal conversations with sufficient accuracy, clarity and precision to convey their intended message without misrepresentation or confusion and identify the cultural variables likely to lead to misunderstanding when communicating in their language pair.
2. Compose routine social correspondence and write summaries, narratives and descriptions of a factual nature needed in a professional context (i.e., business letters, memos, commercial and legal forms, etc.) in their non-native language.
3. Translate short general and semi-specialized texts in various domains and in a variety of translation contexts from the source language into their native language with a basic understanding of translation principles and text features relevant in the translation decision-making process.
4. Demonstrate an understanding of the typical life cycle of multilingual information in the language industry and common computer applications used by translators.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Translation is a pre-professional program designed for students who are seeking the more professional focus and interdisciplinary breadth that the B.S. degree offers with the inclusion of a minor, double major or certificate to develop the skills needed to translate in a professional setting. It introduces the basics of translation theory as it applies to the actual practice of translation.

The requirement of a minor, certificate or second major enables students to acquire a level of expertise in a specific field in which they can specialize as translators. This degree also enables students to have a major and a minor that make them more competitive and prepare them for a sector that the U.S. Department of Labor projects as one of the fastest-growing sectors globally. Translation majors are strongly encouraged to undertake study in a country where their language concentration is spoken so that they can achieve the necessary proficiency level. Skills necessary include an excellent command of the source language, an excellent command of the target language, cultural knowledge, specialist knowledge, research competence, terminological competence, technological competence, an understanding of the translation industry and transfer competence.

Graduates may enter graduate programs in translation (the professional degree) or go on to work for government, business, industry or translation agencies, or as freelance translators.

The Translation major comprises the following concentrations:

- Arabic
- French
- German
- Russian
- Spanish

Many study abroad opportunities exist, including:

- France: Université Michel de Montaigne Bordeaux III, Bordeaux (all class standings, all majors/minors)
- Germany: Julius-Maximilian-Universität Würzburg, Würzbug (all class standings, all majors/minors)
- Germany: Universität Leipzig, Leipzig (intermediate German language proficiency required)
- Spain: Universidad Europea de Madrid, Madrid (all class standings, all majors/minors)
- Spain: Universidad Europea de Valencia, Valencia

Students in the Translation major must declare a minor, certificate or second major at Kent State.

Translation - M.A.

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Translation M.A. program equips students with the skills needed to become a professional translator or interpreter in various fields. With a focus on hands-on training and immersive experiences, students gain practical experience and work with experienced faculty. Read more...

Contact Information

- **Brian Baer, Ph.D.** | bbaer@kent.edu
- **Loubna Bilali, Ph.D.** (online program) | lbilali@kent.edu
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Foreign language and literature teachers, postsecondary

- 5.7% faster than the average
- 30,600 number of jobs
- $69,920 potential earnings

Interpreters and translators

- 20.0% much faster than the average
- 77,400 number of jobs
- $52,330 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement (one to two pages)

- MP3/WAV file with a five-minute oral sample in English (conversational, not read from a script)
- Writing sample (10 pages) in English, which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation
- Three letters of recommendation
- English language proficiency - international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score
- **Applicants to the Language concentration only**:
  - CD or MP3/WAV file with a five-minute oral sample in the language in which the applicant intends to concentrate (conversational, not read from a script)
  - Writing sample(s) in in the language in which the applicant intends to concentrate, which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: January 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
TRST 60009	INTRODUCTION TO TRANSLATION TECHNOLOGY	3
TRST 60010	THEORY OF TRANSLATION AND INTERPRETING	2
TRST 60011	TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION	3
TRST 60100	PRACTICE OF TRANSLATION	2
TRST 60630	CAREER PATHS IN THE LANGUAGE INDUSTRY	3
Major Electives, choose from the following: [1]		12-15
MCLS 50510	INTRODUCTION TO NATURAL LANGUAGE PROCESSING	
Any Translation Studies (TRST) Graduate course (50000 level or higher) [2]		
Concentrations		
Choose from the following:		9-12
Language		
Technology and Multilingual Communication		
Minimum Total Credit Hours:		**37**

[1] Students admitted to the Language concentration will complete 15 credit hours of electives. Students admitted to the Technology and Multilingual Communication concentration will complete 12 credit hours of electives.

[2] Maximum 3 credit hours each of TRST 60092 and TRST 60098 may be applied toward the degree.

Language Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
TRST 60040	LITERARY AND CULTURAL TRANSLATION	3
Language Electives, choose two courses in the same language from the following:		6
Arabic Language		
ARAB 67091	SEMINAR IN ARABIC TRANSLATION	
ARAB 67250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
ARAB 67251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
French Language		
FR 63091	SEMINAR IN FRENCH TRANSLATION	
FR 63250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
FR 63251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
German Language		
GER 61091	SEMINAR IN GERMAN TRANSLATION	
GER 61250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
GER 61251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
Japanese Language		
JAPN 65250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
JAPN 65251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
Russian Language		
RUSS 62091	SEMINAR IN RUSSIAN TRANSLATION	
RUSS 62250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
RUSS 62251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
Spanish Language		
SPAN 68091	SEMINAR IN SPANISH TRANSLATION	
SPAN 68250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
SPAN 68251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
Minimum Total Credit Hours:		**9**

Technology and Multilingual Communication Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following: [1]		12
Emerging Media Specialization		

EMAT 51000	RESPONSIVE WEB DESIGN
EMAT 52210	WEB APPLICATION DEVELOPMENT
EMAT 60010	FOUNDATIONS OF EMERGING MEDIA AND TECHNOLOGY
EMAT 60310	CREATIVE CODING FUNDAMENTALS
EMAT 62110	INTERACTIVE DATA
EMAT 60999	PROJECTS IN EMERGING MEDIA AND TECHNOLOGY
Global Security Specialization	
CRIM 56800	INTELLIGENCE AND NATIONAL SECURITY
CRIM 56801	HOMELAND SECURITY
CRIM 56802	TERRORISM AND COUNTERTERRORISM
CRIM 56803	INFORMATION AND CYBER SECURITY
International Business Specialization	
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY
MGMT 64184	INTERNATIONAL BUSINESS
MGMT 64275	GLOBAL STRATEGIC MANAGEMENT
MKTG 65054	INTERNATIONAL MARKETING
Multidisciplinary Approaches Specialization	
Any Translation Studies (TRST) Graduate course (60000 level)	
Courses from any of the specializations	
Technology Specialization	
BA 64060	FUNDAMENTALS OF MACHINE LEARNING
CS 61002	ALGORITHMS AND PROGRAMMING I
CS 61003	ALGORITHMS AND PROGRAMMING II
MCLS 50510	INTRODUCTION TO NATURAL LANGUAGE PROCESSING
User Experience Specialization	
UX 60501	INTRODUCTION TO USER EXPERIENCE
UX 60502	USER EXPERIENCE PROCESSES AND PRACTICE
UX 60503	FUNDAMENTALS OF INTERACTION DESIGN
UX 60511	INFORMATION ARCHITECTURE FUNDAMENTALS
UX 60521	DATA-DRIVEN INTERACTION FUNDAMENTALS
UX 60541	USER EXPERIENCE EVALUATION FUNDAMENTALS
Minimum Total Credit Hours:	**12**

[1] Students will select a specialization with prior approval from the graduate coordinator or from an advisor. Courses listed under the specializations are recommended, not required. Students completing fewer than 12 credit hours for their specialization will complete additional electives to meet the required 37 credit hours for the degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Define and describe the roles and responsibilities of various language industry stakeholders and various forms of language service provision; and demonstrate an understanding of the basics of entrepreneurship and translation as a business.
2. Engage in effective research and information retrieval for a variety of language industry-relevant tasks.
3. Utilize a range of computer-assisted technologies, including machine translation, for language industry-relevant tasks; and demonstrate an understanding of the place, benefits and limitations of those technologies in a given project scenario.
4. Demonstrate an understanding of professional and ethical considerations in various project scenarios.
5. Successfully communicate and mediate communication across languages and cultures in multilingual, multicultural contexts.
6. Apply theory to inform and justify their decision making.
7. Critically reflect on their work and that of others.

Graduates of the Language concentration will be able to:

1. Translate authentic, industry-relevant content, both general and domain-specific, using appropriate tools and approaches.

Graduates of the Technology and Multilingual Communication concentration will be able to:

1. Emerging media specialization: Utilize emerging media and technology tools for localization purposes, including machine translation, artificial intelligence-driven localization and virtual reality simulations.
2. Global security specialization: Utilize translation techniques and security strategies to address real-world challenges in international contexts, effectively bridging language barriers and enhancing global security measures.
3. International business specialization: Apply localization techniques and international business principles to develop market-specific strategies for global expansion; consider linguistic, cultural and economic factors; and prepare to lead multinational teams and navigate complex global markets with confidence — leveraging localization expertise and international business acumen to drive organizational growth and success.
4. Multidisciplinary approaches specialization: Synthesize at least two of the other specialization outcomes toward their specific career goals.
5. Technology specialization: Acquire advanced technical skills in translation technology, including proficiency in computer-assisted translation tools, machine translation systems and localization software.
6. User experience specialization: Apply localization strategies and user experience design principles to create user-centric products and services tailored to diverse cultural and linguistic contexts.

Dual Degree with Master of Business Administration

Students have the opportunity to complete a dual degree program with the M.A. degree in Translation and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The Dual Degree with a M.B.A. degree in Business Administration and the M.A. degree in Translation is for students with a sufficient level of proficiency in a foreign language who wish to integrate a graduate business education with advanced translation training. This program is suitable for those whose career goals include assuming middle or executive management positions in international business or language industry enterprises or those interested in starting their own business in the language services industry.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
TRST 60001	GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES	3
TRST 60010	THEORY OF TRANSLATION AND INTERPRETING	2
TRST 60011	TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION	3
TRST 60012	SOFTWARE AND WEBSITE LOCALIZATION	3
Second Language or Culture Elective [1]		3-6
International Electives		
Translation Elective, choose from the folllowing:		2
FR 63010	THE PRACTICE OF FRENCH TRANSLATION	
GER 61010	THE PRACTICE OF GERMAN TRANSLATION	
JAPN 65010	THE PRACTICE OF JAPANESE TRANSLATION	
RUSS 62010	THE PRACTICE OF RUSSIAN TRANSLATION	
SPAN 68010	THE PRACTICE OF SPANISH TRANSLATION	
Commercial, Legal and Diplomatic Translation Elective, choose from the following:		3
FR 63250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
GER 61250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
JAPN 65250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
RUSS 62250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
SPAN 68250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
Scientific, Technical and Medical Translation Elective, choose from the following:		3
FR 63251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
GER 61251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
JAPN 65251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
RUSS 62251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
SPAN 68251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
Case Study in Translation Elective, choose from the following:		3
FR 63979	CASE STUDY IN TRANSLATION	
GER 61979	CASE STUDY IN TRANSLATION	
JAPN 65979	CASE STUDY IN TRANSLATION	
RUSS 62979	CASE STUDY IN TRANSLATION	
SPAN 68979	CASE STUDY IN TRANSLATION	
Additional Business or Translation Electives, choose from the following:		9
Any Ambassador Crawford College of Business and Entrepreneurship Graduate-Level Course (except for CIS 64042)		
Any Department of Modern and Classical Language Studies Graduate-Level Course [2]		
International Courses (either unit)		
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**60**

1 Students may take another course or study abroad with approval. Students may complete this requirement with 3 credit hours if a culture or appropriate language course is used for one of the international electives below.

2 Minimum 3 credits must be taken from the Department of Modern and Classical Language Studies.

Graduation Requirements

- Students in the M.A. Translation and M.B.A dual degree program must earn a minimum 60 total credit hours. There is a minimum requirement of 26 credit hours from the M.B.A. program and 28 credit hours from the M.A. in Translation, with the remaining 6 credit hours to be from either program.
- A minimum 3.000 GPA must be maintained.
- The M.B.A. program should be initiated before 12 credit hours in the M.A. Translation program have been completed. The M.A. in Translation is awarded upon completion of the requirements of that degree. The M.B.A. is awarded upon completion of the joint M.B.A./M.A. Translation degree program.
- Actual offerings and schedules vary from year to year, and the two colleges jointly provide a pre-approved recommended course of study. Students who wish to take a different course of study need to obtain separate approvals from the college graduate coordinators.

Full Description

The Master of Arts degree in Translation prepares students for careers in translation, language project management, international business, government and any globalizing industry.

The Translation major comprises the following concentrations:

- The **Language** concentration provides students with an in-depth focus on one language.

- The **Technology and Multilingual Communication** concentration allows students to specialize in such areas as global security, emerging media, international business and user experience.

Translation Studies - Ph.D.

College of Arts and Sciences
Department of Modern and Classical Language Studies
www.kent.edu/mcls

About This Program

The Translation Studies Ph.D. program is designed for students who want to conduct research and contribute to the field of translation studies. With a blend of theoretical and practical knowledge, students will work with experienced faculty and have access to resources and opportunities to develop their skills. Read more...

Contact Information

- **Brian Baer, Ph.D.** | bbaer@kent.edu
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Foreign language and literature teachers, postsecondary

- 5.7% faster than the average
- 30,600 number of jobs
- $69,920 potential earnings

Interpreters and translators

- 20.0% much faster than the average
- 77,400 number of jobs
- $52,330 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree in translation, a foreign language or in any other relevant discipline with prior experience or training in translation
- Minimum senior-year 2.750 undergraduate GPA and/or minimum 3.500 graduate GPA on a 4.000-point scale
- Official transcript(s)
- Proficiency in a foreign language
- Goal statement
- Essay or writing sample (7-10 pages) from a research paper on any aspect of translation (or a prospectus for a translation studies project)
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 102 TOEFL iBT score
  - Minimum 7.5 IELTS score
  - Minimum 73 PTE score
  - Minimum 130 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: January 1
- **Spring Semester**
  - Priority deadline: October 1

Applications submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
TRST 70002	THE LANGUAGE INDUSTRY	3
TRST 70004	TRANSLATION PEDAGOGY	3
TRST 70005	CURRENT TRENDS IN TRANSLATION STUDIES	3
TRST 70006	EMPIRICAL METHODS FOR TRANSLATION STUDIES	3
TRST 70007	CORPORA IN TRANSLATION	3
TRST 70008	TRANSLATION AND COGNITION	3
Translation Studies (TRST) Courses (70000 and 80000 level) [1]		12
Culminating Requirement		
TRST 80199	DISSERTATION I [2]	30
Minimum Total Credit Hours:		**60**

[1] Students may elect to take doctoral courses from other departments as appropriate and with prior approval from the graduate coordinator and the student's advisor.

[2] Each doctoral candidate, upon admission to candidacy, must register for TRST 80199 for a total of 30 credit hours. It is required that doctoral candidates continuously register for Dissertation I, and thereafter TRST 80299, each semester, until all requirements for the degree have been met. After passing the written examination, students must present a detailed written proposal of their dissertation research. The dissertation focuses on original research. The dissertation topic must fall within one or more of the sub-fields in translation studies. The

written dissertation is reviewed and approved by the research adviser and the dissertation advisory committee prior to scheduling a final defense before the committee.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate broad knowledge across several areas in the field of translation studies, as well as in-depth knowledge in an area of expertise.
2. Demonstrate the ability to design and conduct original research.
3. Critically assess translation studies literature, as well as their own empirical and theoretical findings.
4. Communicate research findings effectively in written and spoken form.
5. Follow ethical guidelines for work in the field.

Full Description

The Ph.D. degree in Translation Studies is a research-based program that provides advanced training to support the investigation of translation- and interpreting-related phenomena. Program faculty have expertise in a wide-range of subjects and disciplines, including cognitive psychology; gender and sexuality studies; histories of translation; the language industry; machine translation and pedagogy of translation and interpreting; postcolonial approaches; translation quality assessment; and specialized translation, from technical to legal to literary.

The doctoral program provides a comprehensive foundation in all aspects of translation studies, preparing students for careers in higher education, the language industry and government service — both in the United States and abroad. Funding opportunities are available on a competitive basis.

Department of Philosophy

College of Arts and Sciences
Department of Philosophy
320 Bowman Hall
Kent Campus
330-672-2315
philo@kent.edu
www.kent.edu/philosophy

Undergraduate Programs

- Philosophy - B.A.

Minors

- Bioethics and Health Humanities
- Philosophy

Graduate Programs

- Philosophy - M.A.

Department of Philosophy Faculty

- Barnbaum, Deborah R. (1997), Professor, Ph.D., University of Massachusetts-Amherst, 1996
- Byron, Michael B. (1997), Professor, Ph.D., University of Notre Dame, 1996
- Coate, Matthew B. (2015), Assistant Professor, Ph.D., Stony Brook University, 2015
- Garchar, Kimberly K. (2008), Associate Professor, Ph.D., University of Oregon, 2006
- Palmer, Daniel E. (2001), Associate Professor, Ph.D., Purdue University, 2000
- Pereplyotchik, David (2013), Associate Professor, Ph.D., City University of New York Graduate Center, 2012
- Ryan, Frank X. (1997), Associate Professor, Ph.D., Emory University, 1996
- Smith, Deborah C. (1997), Professor, Ph.D., University of Washington, 2003
- Zavota, Gina (2003), Professor, Ph.D., State University of New York-Stony Brook, 2003

Philosophy (PHIL)

PHIL 11001 INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) 3 Credit Hours
An introduction to the diverse methods and subject matters in philosophy. Topics may include: What are the arguments for the existence of God? Do humans have free will? Can we know anything with certainty, and how do we know anything at all? Is what we see real, or might it be only an illusion? What makes a person a person - their mind, or their physical attributes? Is the mind the brain, or is it something else?
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

PHIL 11009 CRITICAL THINKING (KADL) 3 Credit Hours
Critical thinking is essential to every aspect of life, whether reading a news report or editorial, examining a contract or other legal document, or entering into a debate. This course teaches the strategies of “cognitive self-defense” that allow students to see past false claims and avoid being deceived by misleading rhetorical strategies. The course also examines the role of argument in reasoning, including types of arguments and the ways in which mistakes in reasoning can lead us astray. Examples from everyday life illustrate the sorts of complex reasoning that are a crucial part of practical decision-making.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Additional, TAG Arts and Humanities

PHIL 20095 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) Sophomore level course with variable content of philosophical interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 21001 INTRODUCTION TO ETHICS (DIVG) (KHUM) 3 Credit Hours
What makes an action morally right or morally wrong, and who gets to decide? Is ethics about performing actions that are morally right, or is it about being a virtuous person? This course examines at least three competing theories about ethics, including challenges to each theory. Students get to decide which theory they think is best, but every theory presents its own strengths and weaknesses.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

PHIL 21002 INTRODUCTION TO FORMAL LOGIC (KMCR) 3 Credit Hours
This course is designed to sharpen students' reasoning skills and to help them better understand the structure of reasoning in general. To do this, it introduces students to some formal languages, such as Propositional Logic and Predicate Logic, that represent the logical structure of deductive reasoning. Unlike natural languages such as English, these formal languages allow students to focus on the general structure of different types of arguments, without discussing the content of any particular argument. Course covers both the construction of formal proofs in these languages, and translation between them and English. The study of formal logic contributes to effective and persuasive reasoning, not only in philosophy, but in any discipline or context. It also provides effective tools for evaluating the strength of English-language arguments. The skills that students acquire in this course are thus widely applicable in their personal, professional and academic lives.
Prerequisite: Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Mathematics and Critical Reasoning, TAG Arts and Humanities, Transfer Module Mathematics

PHIL 30015 MEDICINE AND MORALITY 3 Credit Hours
A philosophical exploration of at least three issues related to current medical practices, which may include ethical, religious, legal and clinical aspects. Topics may include: abortion, the use of genetic technologies, organ donation and transplantation, the use of human research subjects, or end-of-life decision-making.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 30025 ENVIRONMENTAL PHILOSOPHY (ELR) 3 Credit Hours
An examination of philosophical issues in environmental studies, including topics such as animal ethics and the sources of our food; the value of nature and environmental aesthetics; sustainability and biodiversity; ecofeminism, social justice and radical ecology; and the human response to climate change. The course is designed to complement fields of study such as geography, environmental studies and biology.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PHIL 31002 MEDIEVAL PHILOSOPHY 3 Credit Hours
Examination of issues in medieval thought, such as the existence and nature of God, the relationship between faith and reason, the problem of universals and the nature of causality. Selections from philosophers such as Augustine, Boethius, Aquinas, Abelard, Avicenna, Duns Scotus and William of Ockham.
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31011 ANCIENT PHILOSOPHY 3 Credit Hours
Examination of ancient philosophy, including Greek philosophers such as Plato and Aristotle, and those who inherited their philosophy. The ancients made the move from explanation based on myth to philosophical explanation. What did that move involve? How did the ancient philosophers answer questions about the nature of reality, what exists, the reliability of the senses and the types of things in the world? How did they conceive of the good life?
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31012 EARLY MODERN PHILOSOPHY 3 Credit Hours
The course features selections from rationalists such as Descartes, Spinoza and Leibniz, and empiricists such as Locke, Berkeley and Hume, of the early modern philosophical period. Rationalists believe that all knowledge is grounded in a priori knowledge of necessary principles. Empiricists believe that knowledge is grounded in sensory experience. How did these differences shape their wider views of the world?
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31013 LATE MODERN PHILOSOPHY 3 Credit Hours
The course explores the development of 19th century German idealism by thinkers such as Fichte, Hegel and Schelling, whose work was prompted by Kant's transcendental idealism understood as critique or as the examination of the conditions for the possibility of knowledge acquisition as a touchstone for understanding the relationship among metaphysics, epistemology, ethics and political philosophy. The course thus begins with Kant's critical project before turning to its reception and the various 19th century responses to it. Additional selections from Kant's ethical and political writings may supplement this reading. The course may also cover additional figures, such as Schopenhauer, Nietzsche and Marx, whose work, in turn, is a response to German idealism itself.
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31030 EXISTENTIALISM 3 Credit Hours
Examination of the themes of existentialism, which include absurdity, freedom, and the individual's relationship to the world. Philosophers studied may include Sartre, Kierkegaard, Nietzsche, Camus, de Beauvoir, Ortega y Gasset, Marcel, and Tillich. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31035 PHILOSOPHY AND JUSTICE (DIVD) 3 Credit Hours
Consideration of topics and issues relevant to the concept of justice, as addressed by a range of classical and contemporary philosophers. Topics may include the nature of justice from feminist, libertarian, liberal, socialist, communitarian, egalitarian, and social welfare perspectives; and the application of these perspectives to practical issues such as affirmative action, democracy, equal pay, environmental justice, just war, criminal justice, civil disobedience, tort law and poverty. Students with junior standing or above, who have not taken a Philosophy [PHIL] course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

PHIL 31040 FEMINIST PHILOSOPHY (DIVD) 3 Credit Hours
The course introduces feminist philosophy understood as social critique: a critique of unjust, exclusionary, and oppressive systemic practices surrounding sex, sexuality, and gender. As such, the course focuses on issues such as gender identity, sexual difference, the sex and gender binaries, gendered experience, trans embodiment, and LGBTQI marginalization. The course asks whether, and if so, how, feminist theory (more broadly) and feminist philosophy (more narrowly) could draw on canonical philosophical texts, traditions, and figures. The course focuses extensively on contemporary approaches, including queer, race, and gay and lesbian theory. Students with junior standing or above, who have not taken a philosophy course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

PHIL 31050 PHILOSOPHY THROUGH LITERATURE 3 Credit Hours
This course introduces several philosophical problems via an examination of those problems and themes in works of literature. The course combines philosophical essays with works of poetry, short novels, and short stories, so as to expose students to diverse perspectives on complex philosophical problems. Students with junior standing or above, who have not taken a philosophy course should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 31060 PHILOSOPHY OF ART AND BEAUTY (ELR) 3 Credit Hours
Investigation of concepts such as the artistic object and creative expression, and examination and critique of a range of theories designed to solve various problems in the field of aesthetics, or the study of the nature and principles of artistic beauty. Examples drawn from diverse genres such as the visual arts, drama, music, and dance provide the context for discussion of topics including what makes something beautiful and what is involved in an act of creativity. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PHIL 31091 PHILOSOPHERS IN DEPTH (WIC) 3 Credit Hours
(Repeatable for credit) This course introduces students to the work and influence of one philosopher, in depth. The choice of philosopher whose work is investigated varies by instructor. The course serves as a counterbalance to the broad introduction to the history of philosophy that students receive in the history of philosophy sequence. In this course, students learn to work carefully with primary sources, along with learning the requirements of academic philosophical writing. Students exhibit their understanding of the course content and mastery of philosophical writing through a variety of short and long assignments.
Prerequisite: PHIL 11001 or PHIL 21001; and PHIL 11009 or PHIL 21002 or PHIL 41038.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PHIL 40005 HEALTH CARE ETHICS 3 Credit Hours
Ethical problems in health care critically assessed, and consideration of how these specific ethical problems illuminate the ethical enterprise. Students with junior standing or above, who have not taken a philosophy course, should contact the department for a prerequisite override.
Prerequisite: One course in philosophy.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 40093 VARIABLE TITLE WORKSHOP IN PHILOSOPHY 1-6 Credit Hours
(Repeatable for credit)
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PHIL 41010 PROBLEMS IN THE PHILOSOPHY OF RELIGION 3 Credit Hours
(Slashed with PHIL 51010) Philosophical examination of issues and problems presented by various writers in philosophy of religion.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41020 SOCIAL AND POLITICAL PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 51020) Critical examination of classical and contemporary philosophical theories of the nature of society, and the state as political system that best represents a well-organized society. Topics may include the nature, existence, and justification of the state, the issue of political obligation, theories of anarchism, utopia, democracy, liberalism, communitarianism, citizenship, and patriotism, and examination of the nature of the social and political values or notions of rights, equality, and liberty.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41025 PHILOSOPHY OF LAW 3 Credit Hours
(Slashed with PHIL 51025) Critical examination of the nature, features, foundation, and function of law. Topics may include the debate between natural law theory and legal positivism, with respect to whether law and moral are necessarily connected, as well as the nature of judicial decision, constitution interpretation, the basis and elements of criminal, civil law (contract, tort) law, the grounds for obeying or disobeying bad laws, and analysis of some supreme court cases which raise philosophical issues about the nature and function of law.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41030 ETHICAL THEORY 3 Credit Hours
(Slashed with PHIL 51030) In this course, students will explore developments in the dominant normative theories of 20th and 21st century Anglo-American ethics, including consequentialism, deontology, virtue ethics, ethics of care, and varieties of contract theory.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41035 PHILOSOPHY OF SCIENCE 3 Credit Hours
(Slashed with PHIL 51035) What is science? What are its distinctive aims and methods, and how do they bolster the epistemic authority of scientific theories? Do sociological, historical, and cultural factors play a major role in the advancement of scientific thought? These questions, and others like them, define the philosophy of science - a branch of philosophy that deals with the metaphysical, epistemological, and normative issues that arise in the study of scientific practice.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41036 PHILOSOPHY OF COGNITIVE SCIENCE 3 Credit Hours
(Slashed with PHIL 51036) In this course, students focus on issues at the interface of philosophy, psychology, neuroscience, linguistics, and artificial intelligence. These fields, which comprise contemporary cognitive science, present the philosopher with an opportunity to clarify foundational concepts, such as computation, innateness, language, perception, and learning. Ultimately, the goal of the course is to understand various proposals about how neural computation could amount to human intelligence and consciousness.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with CS 41038 and MATH 41038)(Slashed with MATH 51038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics. Students with junior standing or above who have not taken a philosophy course should contact the department for a prerequisite override.
Prerequisite: CS 23022 or MATH 12003 or MATH 23022 or PHIL 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41040 EPISTEMOLOGY 3 Credit Hours
(Slashed with PHIL 51040) What is the difference between merely believing something to be the case and knowing it to be the case? In this course students examine various theories designed to answer this question and evaluate their respective strengths and weaknesses. The course will cover the Gettier problem that questions the traditional definition of knowledge as justified true belief, the debate between foundationalism and coherentism, the debate between internalism and externalism about justification, naturalized epistemology, and virtue epistemology.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41042 METAPHYSICS 3 Credit Hours
(Slashed with PHIL 51042) Covers several topics in contemporary analytic metaphysics. Topics may include existence, identity, things and their persistence over time, the nature of modalities and possible worlds, and the relationship between material parts and wholes.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41048 METAETHICS 3 Credit Hours
(Slashed with PHIL 51048) Metaethics is the study of the nature and justification of moral judgments, as distinct from ethics, which aims to articulate principles, criteria, or alternative approaches to understanding and achieving goodness and right action. Metaethics examines the concepts, ontology, psychology, and modes of justification employed within ethics. This course will explore recent developments about such questions as: which, if any, ethical judgments can be true or false; whether we can know true ethical statements; and to what kinds of properties, if any, ethical judgments and beliefs refer.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41052 PHILOSOPHY OF LANGUAGE 3 Credit Hours
(Slashed with PHIL 51052) Critical examination of nature and function of language especially in relation to mental function and development.
Prerequisite: One 30000-level Philosophy (PHIL) course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41055 PHENOMENOLOGY 3 Credit Hours
(Slashed with PHIL 51055) In-depth study of the phenomenological movement in twentieth-century philosophy, from its origin in the thought of Edmund Husserl and his contemporaries, through such canonical thinkers as Martin Heidegger and Maurice Merleau-Ponty, to various contemporary developments. Substantial time is also devoted to considering applications of phenomenology to various disciplines in the humanities, social sciences, and arts. This is in keeping with the overall focus in this seminar on phenomenology not only as a philosophical school, but also as a methodology with broad and diverse applications.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41060 PRAGMATISM 3 Credit Hours
(Slashed with PHIL 51060) As America's distinctive "home-grown" philosophy, pragmatism embodies the values of action, problem-solving, and consensus-building within a pluralistic society. The core of this course examines the seminal works of the classical American pragmatists: Peirce, James, and Dewey. Special attention will be devoted to a phenomenology of experience that undercuts the dualisms of mind and matter, subject and object, self and world.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41076 CONTINENTAL PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 51076) Investigation of some figure, issue or theme in continental philosophy from Descartes to present.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41080 PHILOSOPHY AND ART: 1890 - PRESENT 3 Credit Hours
(Slashed with PHIL 51080) Exploring, with emphasis on the modern age, philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 41491 SEMINAR IN ASIAN PHILOSOPHY (DIVG) 3 Credit Hours
(Repeatable for credit) (Slashed with PHIL 51491) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in Asian philosophy.
Prerequisite: Any Philosophy (PHIL) 30000-level course.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Diversity Global

PHIL 41591 SEMINAR IN THE HISTORY OF PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 51591)(Repeatable for credit) Intensive primary source reading and critical appreciation of the significant works of one or more philosophical figures or issues from various traditions in philosophy.
Prerequisite: One 30000-level Philosophy (PHIL) course.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PHIL 49995 SPECIAL TOPICS 2,3 Credit Hours
(Repeatable for credit when topic varies)
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter

PHIL 49996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit with departmental approval prior to registration)
Prerequisite: Departmental special approval prior to registration.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

PHIL 49999 SENIOR HONORS PROJECT (ELR) 2,3 Credit Hours
(Repeated registration permitted with departmental approval prior to registration) Thesis or other independent study or creative project.
Prerequisite: Departmental permission before registration.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PHIL 50005 HEALTH CARE ETHICS 3 Credit Hours
Ethical problems in health care critically assessed and consideration of how these specific ethical problems illuminate the ethical enterprise.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 50093 VARIABLE TITLE WORKSHOP IN PHILOSOPHY 1-6 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

PHIL 51010 PROBLEMS IN THE PHILOSOPHY OF RELIGION 3 Credit Hours
(Slashed with PHIL 41010) Philosophical examination of issues and problems presented by various writers in philosophy of religion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51020 SOCIAL AND POLITICAL PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 41020) Critical examination of classical and contemporary philosophical theories of the nature of society, and the state as political system that best represents a well-organized society. Topics may include the nature, existence, and justification of the state, the issue of political obligation, theories of anarchism, utopia, democracy, liberalism, communitarianism, citizenship, and patriotism, and examination of the nature of the social and political values or notions of rights, equality, and liberty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51025 PHILOSOPHY OF LAW 3 Credit Hours
(Slashed with PHIL 41025) Critical examination of the nature, features, foundation, and function of law. Topics may include the debate between natural law theory and legal positivism, with respect to whether law and moral are necessarily connected, as well as the nature of judicial decision, constitution interpretation, the basis and elements of criminal, civil law (contract, tort) law, the grounds for obeying or disobeying bad laws, and analysis of some supreme court cases which raise philosophical issues about the nature and function of law.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51030 ETHICAL THEORY 3 Credit Hours
(Slashed with PHIL 41030) In this course, students will explore developments in the dominant normative theories of 20th and 21st century Anglo-American ethics, including consequentialism, deontology, virtue ethics, ethics of care, and varieties of contract theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51035 PHILOSOPHY OF SCIENCE 3 Credit Hours
(Slashed with PHIL 41035) What is science? What are its distinctive aims and methods, and how do they bolster the epistemic authority of scientific theories? Do sociological, historical, and cultural factors play a major role in the advancement of scientific thought? These questions, and others like them, define the philosophy of science - a branch of philosophy that deals with the metaphysical, epistemological, and normative issues that arise in the study of scientific practice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51036 PHILOSOPHY OF COGNITIVE SCIENCE 3 Credit Hours
(Slashed with PHIL 41036) In this course, students focus on issues at the interface of philosophy, psychology, neuroscience, linguistics, and artificial intelligence. These fields, which comprise contemporary cognitive science, present the philosopher with an opportunity to clarify foundational concepts, such as computation, innateness, language, perception, and learning. Ultimately, the goal of the course is to understand various proposals about how neural computation could amount to human intelligence and consciousness.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51038 INTERMEDIATE LOGIC 3 Credit Hours
(Cross-listed with MATH 51038)(Slashed with CS 41038, MATH 41038 and PHIL 41038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors and anyone else interested in advanced study in logic. The aim of the course is twofold: (1) to develop a facility in understanding and using symbolic logic for various purposes, and (2) to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs; the distinction between axiomatic systems and natural deduction systems of object-level proofs; various systems of modal logic; and some non-classical logics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51040 EPISTEMOLOGY 3 Credit Hours
(Slashed with PHIL 41040) What is the difference between merely believing something to be the case and knowing it to be the case? In this course students examine various theories designed to answer this question and evaluate their respective strengths and weaknesses. The course will cover the Gettier problem that questions the traditional definition of knowledge as justified true belief, the debate between foundationalism and coherentism, the debate between internalism and externalism about justification, naturalized epistemology, and virtue epistemology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51042 METAPHYSICS 3 Credit Hours
(Slashed with PHIL 41042) Covers several topics in contemporary analytic metaphysics. Topics may include existence, identity, things and their persistence over time, the nature of modalities and possible worlds, and the relationship between material parts and wholes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51048 METAETHICS 3 Credit Hours
(Slashed with PHIL 41048) Metaethics is the study of the nature and justification of moral judgments, as distinct from ethics, which aims to articulate principles, criteria, or alternative approaches to understanding and achieving goodness and right action. Metaethics examines the concepts, ontology, psychology, and modes of justification employed within ethics. This course will explore recent developments about such questions as: which, if any, ethical judgments can be true or false; whether we can know true ethical statements; and to what kinds of properties, if any, ethical judgments and beliefs refer.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51052 PHILOSOPHY OF LANGUAGE 3 Credit Hours
(Slashed with PHIL 41052) Critical examination of nature and function of language especially in relation to mental function and development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51055 PHENOMENOLOGY 3 Credit Hours
(Slashed with PHIL 41055) In-depth study of the phenomenological movement in twentieth-century philosophy, from its origin in the thought of Edmund Husserl and his contemporaries, through such canonical thinkers as Martin Heidegger and Maurice Merleau-Ponty, to various contemporary developments. Substantial time is also devoted to considering applications of phenomenology to various disciplines in the humanities, social sciences, and arts. This is in keeping with the overall focus in this seminar on phenomenology not only as a philosophical school, but also as a methodology with broad and diverse applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51060 PRAGMATISM 3 Credit Hours
(Slashed with PHIL 41060) As America' s distinctive "home-grown" philosophy, pragmatism embodies the values of action, problem-solving, and consensus-building within a pluralistic society. The core of this course examines the seminal works of the classical American pragmatists: Peirce, James, and Dewey. Special attention will be devoted to a phenomenology of experience that undercuts the dualisms of mind and matter, subject and object, self and world.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51076 CONTINENTAL PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 41076) Investigation of some figure, issue or theme in continental philosophy from Descartes to present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51080 PHILOSOPHY AND ART: 1890 - PRESENT 3 Credit Hours
(Slashed with PHIL 41080) Exploring, with emphasis, on the modern age philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 51491 SEMINAR IN ASIAN PHILOSOPHY 3 Credit Hours
(Repeatable for credit) (Slashed with PHIL 41491) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in Asian philosophy.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PHIL 51591 SEMINAR IN THE HISTORY OF PHILOSOPHY 3 Credit Hours
(Slashed with PHIL 41591)(Repeatable for credit) Intensive primary source reading and critical appreciation of the significant works of one or more philosophical figures or issues from various traditions in philosophy.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PHIL 59995 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) When content varies, may be repeated for credit.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 59996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit with department approval)
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHIL 60191 GRADUATE SEMINAR 3 Credit Hours
(Repeatable for credit) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 61000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour
(Cross-listed with BMS 61000 and BMS 71000) Introduction into professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PHIL 61056 HERMENEUTICS 3 Credit Hours
Critical appreciation of the theories and practices of interpretation comprehended according to certain classical, current and emergent philosophic styles and traditions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 69101 PROSEMINAR: PROFESSIONAL AND PEDAGOGICAL TRAINING 3 Credit Hours
(Repeatable for credit) Students participate in the preparation and planning of the annual Graduate Student Conference, receive professional training and mentoring, and work closely with faculty to write and revise a philosophical essay suitable for use as a writing sample or conference presentation.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

PHIL 69199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and departmental special approval before registration.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHIL 69299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: PHIL 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHIL 69995 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) Selected topics in Philosophy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHIL 69998 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Bioethics and Health Humanities - Minor

College of Arts and Sciences
Department of Philosophy
www.kent.edu/philosophy

About This Program

The Bioethics and Health Humanities minor engages students with interests and talents in humanities fields who are also interested in various careers in health care. The minor gives students opportunities to explore bioethical questions, including understanding the challenges of various communities in accessing health, as well as health humanities, focusing on expressions of health care concerns in humanities fields.

Students in humanities, social science, health care and science majors emerge from the minor prepared to engage health care and its variations and ethical challenges with invaluable perspective and insights.

Contact Information

- **Deborah Barnbaum** | dbarnbau@kent.edu (%20dbarnbau@kent.edu) | 330-672-0267
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the

A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
PHIL 40005	HEALTH CARE ETHICS	3
Minor Electives, choose from the following: [1]		12
AFS 33130	GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA	
BSCI 30050	HUMAN GENETICS	
or BSCI 30156	ELEMENTS OF GENETICS	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
GEOG 42052	HEALTH GEOGRAPHY	
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
GERO 40656	PSYCHOLOGY OF AGING	
GERO 44030	RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD (WIC)	
HIST 31077	HISTORY OF SEXUALITY IN THE UNITED STATES	
HIST 31543	THE SCIENTIFIC REVOLUTION	
HIST 31550	MEDICINE IN THE MODERN WORLD SINCE 1500	
LGBT 20020	INTRODUCTION TO LESBIAN, GAY, BISEXUAL, TRANSGENDER AND QUEER STUDIES	
PH 32005	EMERGING ISSUES IN COMMUNITY HEALTH	
PHIL 30015	MEDICINE AND MORALITY	
PHIL 41030	ETHICAL THEORY	
PHIL 41035	PHILOSOPHY OF SCIENCE	
PHIL 41036	PHILOSOPHY OF COGNITIVE SCIENCE	
POL 40450	HEALTH CARE AND SOCIAL POLICY	
SOC 42010	DEATH AND DYING	
SOC 42560	SOCIOLOGY OF FOOD	
SOC 42562	SOCIOLOGY OF MENTAL ILLNESS	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SOC 42879	AGING IN SOCIETY (DIVD)	
Minimum Total Credit Hours:		**18**

[1] Special topic courses in BSCI, ENG, HIST, PHIL or SOC may be accepted with the approval of the program coordinator. Students interested in health humanities are encouraged, but not required, to choose the following elective courses: AFS 33130, ENG 21003, GERO 40656, HIST 31077, HIST 31550, LGBT 20020, PHIL 41035, PHIL 41036, SOC 42560.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe historical, literary and philosophical domains of bioethics and/or medical humanities scholarship.
2. Analyze and evaluate complex texts relating to the ethical, social and cultural aspects of medicine through close reading and critical interpretation of argument, history and narrative.
3. Explain how justice and injustice, inclusion and exclusion, shape both cultural values and health trajectory of diverse groups.
4. Research and communicate their own arguments about bioethics and health care humanities.

Philosophy - B.A.

College of Arts and Sciences
Department of Philosophy
www.kent.edu/philosophy

About This Program

Explore life's biggest questions with Kent State's Bachelor of Arts in Philosophy program. Our program provides a comprehensive foundation in philosophical thought, empowering you to critically examine the world around you and enhancing a variety of career pathways and possibilities. Enroll now and discover your own philosophical perspective. Read more...

Contact Information

- **Kim Garchar** | kgarchar@kent.edu | 330-672-0276
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Lawyers

- 4.0% about as fast as the average
- 813,900 number of jobs
- $126,930 potential earnings

Philosophy and religion teachers, postsecondary

- 6.7% faster than the average
- 30,900 number of jobs
- $76,160 potential earnings

Medical and health services managers

- 31.5% much faster than the average
- 422,300 number of jobs
- $104,280 potential earnings

Social workers, all other

- 5.1% faster than the average
- 62,500 number of jobs
- $64,210 potential earnings

Public relations and fundraising managers

- 9.2% much faster than the average
- 88,000 number of jobs
- $118,430 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	3
or PHIL 41038	INTERMEDIATE LOGIC	
PHIL 31011	ANCIENT PHILOSOPHY (min C grade)	3
PHIL 31012	EARLY MODERN PHILOSOPHY (min C grade)	3
PHIL 31013	LATE MODERN PHILOSOPHY (min C grade)	3
PHIL 31091	PHILOSOPHERS IN DEPTH (WIC) [1]	3
Philosophy (PHIL) Upper-Division Elective (30000 or 40000 level)		3
Philosophy (PHIL) Upper-Division Electives (40000 level)		9
Philosophical Pluralism Elective, choose from the following (min C grade): [2]		3
PHIL 30025	ENVIRONMENTAL PHILOSOPHY (ELR)	
PHIL 31002	MEDIEVAL PHILOSOPHY	
PHIL 31035	PHILOSOPHY AND JUSTICE (DIVD)	
PHIL 31040	FEMINIST PHILOSOPHY (DIVD)	
PHIL 31050	PHILOSOPHY THROUGH LITERATURE	
PHIL 31060	PHILOSOPHY OF ART AND BEAUTY (ELR)	
PHIL 41491	SEMINAR IN ASIAN PHILOSOPHY (DIVG)	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Fine Arts		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		43
Minimum Total Credit Hours:		**120**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

2 Any course approved to fulfill the philosophical pluralism elective requirement must be upper division (30000 or 40000 level).

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- To fulfill the domestic diversity requirement, students must take one diversity course that is a not a philosophy (PHIL) course.

- Minimum C grade in all three courses of the history sequence
- Minimum C grade in one upper-division, designated diversity course

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**13**
Semester Two		
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Three		
PHIL 21002 or PHIL 41038	INTRODUCTION TO FORMAL LOGIC (KMCR) or INTERMEDIATE LOGIC	3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
PHIL 31091	PHILOSOPHERS IN DEPTH (WIC)	3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**16**
Semester Five		
PHIL 31011	ANCIENT PHILOSOPHY	3
Foreign Language and/or General Elective		3
General Electives		9
	Credit Hours	**15**
Semester Six		
PHIL 31012	EARLY MODERN PHILOSOPHY	3
Philosophical Pluralism Elective		3
Philosophy (PHIL) Upper-Division Elective (30000 or 40000 level)		3
Foreign Language and/or General Elective		3
General Elective		3
	Credit Hours	**15**
Semester Seven		
PHIL 31013	LATE MODERN PHILOSOPHY	3
Philosophy (PHIL) Upper-Division Electives (40000 level)		6
General Electives		6
	Credit Hours	**15**
Semester Eight		
Philosophy (PHIL) Upper-Division Elective (40000 level)		3
General Electives		12
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours

Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Read, write and think critically and analytically.
2. Consider and analyze differing viewpoints and various sides of an issue.
3. Construct strong arguments and express them verbally and in writing.
4. Think creatively and see alternative solutions to problems.
5. Communicate effectively in both personal and professional settings.
6. Demonstrate meaningful cultural literacy.
7. Continue on a path of lifelong learning and inquiry, whether in graduate school or independently.
8. Demonstrate a broad knowledge of the history of philosophy and of important contemporary questions, as well as a deeper, more specialized understanding of selected philosophical figures, issues and/or areas of inquiry.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Philosophy gives students the opportunity to consider some of life's biggest questions, such as:

- What is the nature of reality?
- What (if anything) can I know with certainty?
- What kind of life should I live?

Philosophy students read, discuss and analyze texts from a plurality of traditional philosophical areas of study in both Western and non-Western philosophies, written by diverse philosophers. They become familiar with contemporary and historical schools of thought and learn about the application of philosophy to other disciplines and professions. The Philosophy major provides intensive training in argumentative writing, careful reading as well as critical and creative thinking, while broadening students' intellectual, cultural and personal horizons.

The flexibility of the major's curriculum allows students to combine it with other majors or minors depending on their career interests. In this way, students can tailor their educational experience to provide excellent preparation for a wide range of careers, including law, business, medicine, technology, public relations, government, journalism, education, writing, editing, communications and social work.

Philosophy - M.A.

College of Arts and Sciences
Department of Philosophy
www.kent.edu/philosophy

About This Program

The Master of Arts degree in Philosophy offers intensive, in-depth study of philosophy, with particular attention to the diversity of philosophical methods, perspectives and traditions, as well as their relation to other disciplines. Read more...

Contact Information

- **Gina Zavota** | gzavota@kent.edu | 330-672-0266
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Philosophy and religion teachers, postsecondary

- 6.7% faster than the average
- 30,900 number of jobs
- $76,160 potential earnings

Lawyers

- 4.0% about as fast as the average
- 813,900 number of jobs
- $126,930 potential earnings

Social workers, all other

- 5.1% faster than the average
- 62,500 number of jobs
- $64,210 potential earnings

Public relations and fundraising managers

- 9.2% much faster than the average
- 88,000 number of jobs
- $118,430 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Media and communication workers, all other

- 8.1% much faster than the average
- 35,200 number of jobs
- $49,730 potential earnings

News analysts, reporters, and journalists

- -11.2% decline
- 52,000 number of jobs
- $49,300 potential earnings

Writers and authors

- -2.3% decline
- 131,200 number of jobs
- $67,120 potential earnings

Additional Careers

- Bioethicists
- Business/management positions
- Communication specialists

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Writing sample
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 102 TOEFL iBT score
  - Minimum 7.5 IELTS score
  - Minimum 73 PTE score
  - Minimum 130 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority and funding deadlines: February 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission and to be considered for an assistantship or any other funded position.
- **Spring Semester**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
PHIL 51038	INTERMEDIATE LOGIC	3
PHIL 60191	GRADUATE SEMINAR [1]	6
PHIL 69101	PROSEMINAR: PROFESSIONAL AND PEDAGOGICAL TRAINING [2]	6
Philosophy (PHIL) Elective Coursework [3]		15
Culminating Experience		
Thesis or Research, choose from the following: [4]		6
PHIL 69199	THESIS I	
PHIL 69998	RESEARCH	
Additional Philosophy (PHIL) coursework and a paper		
Minimum Total Credit Hours:		**36**

[1] Students take PHIL 60191 in their second and third semesters in the program.

[2] Beyond required and elective coursework, students are required to participate in PHIL 69101 for each semester in residence. Maximum 6 credit hours of the course may be counted toward the degree requirements. The graduate coordinator, in consultation with the

graduate faculty, will consider various options for satisfying the graduate proseminar requirement where circumstances dictate.

[3] One graduate course in a discipline outside of philosophy may be taken with departmental approval.

[4] Proposals for a culminating experience can be made only after a student has met the following requirements: completion of (or present good standing in) one section each of PHIL 51038 and PHIL 60191, as well as 6 credit hours of elective course work.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students who lack background preparation in a specific area will be required to take an undergraduate course and earn a minimum B grade in that course as a prerequisite to further graduate study. The student's advisory group, in consultation with the graduate coordinator, will determine which course prerequisites are needed.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge of the history of philosophy from the classical period to the present day, of the various fields of philosophical inquiry and of central philosophical questions, both historical and contemporary.
2. Articulate and defend their positions through philosophical argumentation in both written and oral form.
3. Successfully navigate the professional academic world and prepare strong applications to doctoral programs, if they choose to continue their studies after completion of the master's degree.

Full Description

The Master of Arts degree in Philosophy offers intensive, in-depth study of philosophy, with particular attention to the diversity and plurality of philosophical methods, perspectives and traditions and their relation to other disciplines.

Most graduates go on to pursue doctoral degrees in philosophy, while others are seeking a terminal master's degree in philosophy to supplement and enhance their careers or their work in other disciplines.

The graduate program stresses both breadth and depth and offers students the option of a thesis or a non-thesis research project as a culminating experience.

Philosophy - Minor

College of Arts and Sciences
Department of Philosophy
www.kent.edu/philosophy

About This Program

Deepen your understanding of the world with our Philosophy minor. Explore fundamental questions about existence, knowledge, ethics and more, and gain critical thinking skills that are highly valued in any field. Read more...

Contact Information

- **Kim Garchar** | kgarchar@kent.edu | 330-672-0276
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
or PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	
PHIL 11009	CRITICAL THINKING (KADL)	3
or PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	
PHIL 31011	ANCIENT PHILOSOPHY	3
or PHIL 31012	EARLY MODERN PHILOSOPHY	
or PHIL 31013	LATE MODERN PHILOSOPHY	
PHIL 31091	PHILOSOPHERS IN DEPTH (WIC)	3
Philosophy (PHIL) Upper-Division Elective (30000 or 40000 level) [1, 2]		3
Philosophical Pluralism Elective, choose from the following: [1]		3
PHIL 30025	ENVIRONMENTAL PHILOSOPHY (ELR)	
PHIL 31002	MEDIEVAL PHILOSOPHY	
PHIL 31035	PHILOSOPHY AND JUSTICE (DIVD)	
PHIL 31040	FEMINIST PHILOSOPHY (DIVD)	
PHIL 31050	PHILOSOPHY THROUGH LITERATURE	
PHIL 31060	PHILOSOPHY OF ART AND BEAUTY (ELR)	
PHIL 41491	SEMINAR IN ASIAN PHILOSOPHY (DIVG)	
Minimum Total Credit Hours:		**18**

[1] Minimum one elective must be at the 40000 level.

[2] PHIL 40093, PHIL 49996 and PHIL 49999 may not be counted toward the minor.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Read, write and think critically and analytically.
2. Consider and analyze differing viewpoints and various sides of an issue.
3. Construct strong arguments and express them verbally and in writing.
4. Think creatively and see alternative solutions to problems.
5. Communicate effectively in both personal and professional settings.
6. Demonstrate meaningful cultural literacy.
7. Continue on a path of lifelong learning and inquiry, whether in graduate school or independently.
8. Demonstrate a broad knowledge of the history of philosophy and important contemporary questions, as well as a deeper, more specialized understanding of selected philosophical figures, issues and/or areas of inquiry.

Full Description

The Philosophy minor helps students develop skills such as critical thinking, careful reading and analysis of texts, argumentative and analytical writing, creative problem solving, effective communication and global literacy, all of which are vital to success in a wide range of professions.

The minor provides excellent preparation for graduate school entrance exams (such as the GRE, LSAT and GMAT) and enhances the career preparation students obtain in their major field.

Philosophy minors develop these important skills while being introduced to a fascinating discipline which considers basic, timeless questions such as:

- "What is the nature of reality?"
- "What (if anything) can I know with certainty?"
- "What kind of life should I live?"

Department of Physics

College of Arts and Sciences
Department of Physics
103 Smith Hall
Kent Campus
330-672-2246
physics-web@kent.edu
www.kent.edu/physics

Undergraduate Programs

- Physics - B.A.
- Physics - B.S.

Minors

- Physics

Graduate Programs

- Physics - M.A.
- Physics - M.S.
- Physics - Ph.D.

Department of Physics Faculty

- Antocheviz Dexheimer Strickland, Veronica A. (2013), Associate Professor, Ph.D., Goethe Universitat, 2009
- Balci, Hamza (2009), Professor, Ph.D., University of Maryland, 2004
- Bos, Philip J. (1994), Professor, Ph.D., Kent State University, 1978
- Driscoll, Donald D. (2007), Associate Professor, Ph.D., Case Western Reserve University, 2004
- Dzero, Maxim (2010), Professor
- Ellman, Brett D. (1997), Associate Professor, Ph.D., University of Chicago, 1993
- Fregoso, Benjamin (2017), Associate Professor, University of Illinois-Urbana, 2010
- Gleeson, James T. (1997), Professor, Ph.D., Kent State University, 1991
- Jakli, Antal I. (1989), Professor, Ph.D., University Of Budapest, 1988
- Katramatou, A. Mina T. (1996), Professor, Ph.D., American University, 1988
- Keane, Declan F. (1988), Professor, Ph.D., University College of Dublin
- Lavrentovich, Oleg D. (1992), Trustees Research Professor, Kiev University, 1990
- Li, Ran (2007), Associate Professor, Ph.D., Southern Illinois University, Carbondale, 2007
- Mann, Elizabeth K. (1998), Professor, Ph.D., University of Paris, 1992
- Minnick, Stephen A. (2003), Professor, Ph.D., Pennsylvania State University, 2003
- Petratos, Gerassimos G. (1994), Professor, Ph.D., American University, 1988
- Polak, Robert D. (2022), Associate Professor
- Portman, John J. (2003), Professor, Ph.D., University of Illinois-Urbana, 2000
- Quader, Khandker F. (1990), Professor, Ph.D., State University of New York-Stony Brook, 1983
- Schmidt, Thorsten-Lars (2019), Associate Professor
- Schroeder, Almut (2001), Associate Professor
- Selinger, Jonathan V. (2005), Professor, Ph.D., Harvard College, 1989
- Selinger, Robin L. (2005), Professor, Ph.D., Harvard College, 1989
- Sprunt, Samuel N. (1995), Professor, Ph.D., Massachusetts Institute of Technology, 1989
- Vanfossen, Joseph A. (2004), Associate Professor, Ph.D., Kent State University, 2017
- Yang, Deng-Ke (1989), Professor, Ph.D., University of Hawaii at Manoa, 1989

- Yokoyama, Hiroshi (2009), Professor, Ph.D., Tokyo International University, 1987

Physics (PHY)

PHY 11030 SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS) 3 Credit Hours
Description of major revolutionary physical concepts and their implications for understanding the physical universe. Not counted toward requirements for physics major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

PHY 12000 INTRODUCTORY PHYSICS SEMINAR (ELR) 1 Credit Hour
To provide a nurturing course for new physics majors, ideally to be taken in their first semester as majors. The course includes a journal club component, informational talks by industrial physicists and training in a select group of essential skills and tools for future work in the physics program.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PHY 12111 PHYSICS FOR HEALTH TECHNOLOGIES 3 Credit Hours
Basic physics applied to health technologies: measurement techniques, force and motion of solids and fluids, energy, heat wave phenomena, electricity. Students taking this course should be in a health technologies major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 12201 TECHNICAL PHYSICS I (KBS) (KLAB) 3 Credit Hours
Introduction to principles of physics: mechanics.
Prerequisite: MATH 11010.
Pre/corequisite: MATH 11022.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

PHY 12202 TECHNICAL PHYSICS II (KBS) (KLAB) 4 Credit Hours
Introduction to principles of physics, including fluids, thermodynamics, electricity and magnetism.
Prerequisite: PHY 12201.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

PHY 13001 GENERAL COLLEGE PHYSICS I (KBS) 4 Credit Hours
Principles of mechanics, heat and sound.
Prerequisite: Minimum C grade in MATH 11022 or in MATH 12011; or pre/corequisites MATH 12002 or MATH 12012 or MATH 12021.
Corequisite: PHY 13021.
Schedule Type: Lecture, Recitation
Contact Hours: 3 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

PHY 13002 GENERAL COLLEGE PHYSICS II (KBS) 4 Credit Hours
Principles of electricity and magnetism, optics and modern physics. Three hours lecture and one hour recitation weekly.
Prerequisite: PHY 13001 or PHY 23101.
Corequisite: PHY 13022.
Schedule Type: Lecture, Recitation
Contact Hours: 3 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

PHY 13012 COLLEGE PHYSICS II (KBS) 2 Credit Hours
Principles of classical physics, primarily electricity and magnetism.
Prerequisite: PHY 13001 or PHY 23101.
Schedule Type: Lecture, Recitation
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) 1 Credit Hour
Introductory lab to accompany PHY 13001.
Corequisite: PHY 13001.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences, TAG Natural Science Lab

PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) 1 Credit Hour
Introductory lab to accompany PHY 13002 or PHY 13012.
Corequisite: PHY 13002 or PHY 13012.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences, TAG Natural Science Lab

PHY 20095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced when scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 20096 INDIVIDUAL INVESTIGATION IN PHYSICS 1-6 Credit Hours
(Repeatable for credit) Individual projects in physics.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP

PHY 21040 PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS) 3 Credit Hours
Descriptive introduction to physics underlying selected forms of art and entertainment. Examples are drawn from music, visual arts and communications media. Not counted toward requirements for physics major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

PHY 21041 PHYSICS IN ENTERTAINMENT AND THE ARTS LABORATORY (KBS) (KLAB) 1 Credit Hour
Laboratory component of PHY 21040, two hours weekly.
Pre/corequisite: PHY 21040.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

PHY 21430 FRONTIERS IN ASTRONOMY (KBS) 3 Credit Hours
Modern description of astrophysical observations, the results of these observations and the physical principles based on them. Not counted toward requirements for physics major.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Transfer Module Natural Sciences

PHY 21431 FRONTIERS IN ASTRONOMY LABORATORY (KBS) (KLAB) 1 Credit Hour
Laboratory component of PHY 21430.
Pre/corequisite: PHY 21430.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences, TAG Natural Science Lab

PHY 22564 INTRODUCTION TO MATERIALS PHYSICS 3 Credit Hours
Survey of mechanical and electronic properties of materials with application in science and technology. Metals, semiconductors, ceramics, polymers and liquid crystals, and other special materials will be addressed.
Prerequisite: PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) 5 Credit Hours
Principles of mechanics, heat and sound at calculus level.
Pre/corequisite: MATH 12002.
Schedule Type: Laboratory, Lecture
Contact Hours: 4 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB) 5 Credit Hours
Principles of electricity, magnetism, light and modern physics at calculus level.
Prerequisite: PHY 13001 or PHY 23101.
Pre/corequisite: MATH 12003.
Schedule Type: Laboratory, Lecture
Contact Hours: 4 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

PHY 30020 INTERMEDIATE PHYSICS LABORATORY (WIC) 2 Credit Hours
Experiments in classical and modern physics are selected to accompany and supplement junior-level physics courses.
Pre/corequisite: PHY 36001.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PHY 30095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced when scheduled.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 32511 ELECTRONICS 4 Credit Hours
"Hands-on" course to give the student a working knowledge of analog electronics and of AC and DC circuits typically used by the scientist.
Prerequisite: MATH 12002 and; PHY 13002 or PHY 23102.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

PHY 34000 COSMOLOGY 3 Credit Hours
This course will provide a quantitative introduction to modern cosmology, from the Big Bang to the formation of the first stars. Subjects include the evolution of the geometry and temperature of the universe its composition and select aspects of general relativity.
Prerequisite: PHY 36001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 35101 CLASSICAL MECHANICS 4 Credit Hours
Modern description of mechanics including both Lagrangian and Hamilton formulations, with applications to central force, motion, coupled oscillations, rigid body motion and motion in non-inertial reference frames.
Prerequisite: PHY 23102.
Pre/corequisite: MATH 32051.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 36001 INTRODUCTORY MODERN PHYSICS 3 Credit Hours
Special theory of relativity, Rutherford-Bohr model of atom, quantization of light, matter waves, Schroedinger equation, hydrogen atom, electron spin, multi-electron atoms.
Prerequisite: MATH 12003 and PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 36002 APPLICATIONS OF MODERN PHYSICS 3 Credit Hours
Survey of applications of twentieth century physics. Topics include molecular bonding, conducting and insulating solids, degenerate matter, quantum condensates, subatomic and sub-nuclear particle physics, cosmology.
Prerequisite: PHY 36001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 40020 ADVANCED PHYSICS LABORATORY (WIC) 2 Credit Hours
(Slashed with PHY 50020) Advanced experiments in classical and modern physics are selected to accompany and supplement senior-level physics courses.
Prerequisite: PHY 30020.
Pre/corequisite: 6 credit hours of 40000-level Physics (PHY) courses.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PHY 40060 PHYSICAL LITERATURE 1-3 Credit Hours
Study of current or topical literature.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 40092 INTERNSHIP IN PHYSICS (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised capstone experience in physics at a national laboratory, a research university in industry or at a local research site. No more than 3 credit hours may be applied toward the major electives for physics majors.
Prerequisite: Permission.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PHY 40095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Topic announced when scheduled.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 40096 INDIVIDUAL INVESTIGATION (ELR) 1-3 Credit Hours
(Slashed with PHY 50096)(Repeatable for credit) Individual projects for physics majors and minors.
Prerequisite: PHY 23102; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PHY 40099 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours
(Repeatable for credit) Thesis for departmental, general or university honors must be 1-10 hours with continuous registration throughout the senior year beginning in the summer prior to the senior year. Students taking this course must consult with their department and the Honors College and receive approval prior to the first semester of the senior year.
Prerequisite: Honors senior standing; and special approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 1-10 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PHY 40195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with PHY 50195) Topic announced when scheduled.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 41010 BIOPHOTONICS 3 Credit Hours
(Slashed with PHY 51010) (Cross-listed with BSCI 41110 and BSCI 51110 and CHEM 41010 and CHEM 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

PHY 44600 INTRODUCTION TO BIOLOGICAL PHYSICS 3 Credit Hours
Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics.
Prerequisite: PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 44802 ASTROPHYSICS 3 Credit Hours
(Slashed with PHY 54802) Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), nonoptical astronomies and description of various cosmological theories.
Prerequisite: MATH 12003.
Pre/corequisite: PHY 13002 or PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 45201 ELECTROMAGNETIC THEORY 4 Credit Hours
Properties of electric and magnetic fields developed by vector methods. Treatment on static fields in vacuum and matter. Theory of classical electromagnetic fields with emphasis on dynamic fields.
Prerequisite: MATH 32052 and PHY 23102.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 45301 THERMAL PHYSICS 3 Credit Hours
(Slashed with PHY 55301) An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering.
Prerequisite: PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 45401 MATHEMATICAL METHODS IN PHYSICS 4 Credit Hours
Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations.
Prerequisite: MATH 32052.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 45403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES 3 Credit Hours
(Slashed with PHY 55403) Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques.
Prerequisite: MATH 12003 and PHY 23102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 45501 ELECTROMAGNETIC WAVES AND MODERN OPTICS 3 Credit Hours
(Slashed with PHY 55501) Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light devices and spectroscopic techniques based on modern optics.
Prerequisite: PHY 23102; and MATH 22005 or MATH 32051 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 46101 QUANTUM MECHANICS 4 Credit Hours
Systematic introduction to the principles and solution techniques of quantum mechanics, including the Schroedinger equation in one and three dimensions. Topics include: angular momentum formalism, introductory Dirac notation and vector space formalism, intrinsic spin, identical particle systems and perturbation theory.
Prerequisite: PHY 36001.
Pre/corequisite: MATH 32052.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 46301 INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS 4 Credit Hours
(Slashed with PHY 56301) Introduction to nuclear and particle physics including particle detectors and accelerators, experimental techniques, nuclear fission and fusion, nuclear reactors, medical applications and connections to astrophysics and cosmology.
Prerequisite: PHY 36001.
Pre/corequisite: MATH 32051.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 46401 INTRODUCTION TO SOLID STATE PHYSICS 3 Credit Hours
(Slashed with PHY 56401) Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research.
Prerequisite: PHY 36001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 50020 ADVANCED PHYSICS LABORATORY 2 Credit Hours
(Slashed with PHY 40020) Advanced experiments in classical and modern physics are selected to accompany and supplement graduate-level physics courses.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

PHY 50093 VARIABLE TITLE WORKSHOP IN PHYSICS 1-6 Credit Hours
(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of physics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PHY 50095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Topic announced when scheduled.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 50096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Slashed with PHY 40096)(Repeatable for credit) Individual projects for physics graduate students.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

PHY 50195 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with PHY 40195) Topic announced when scheduled.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 51010 BIOPHOTONICS 3 Credit Hours
(Slashed with PHY 41010) (Cross-listed with BSCI 41110 and BSCI 51110 and CHEM 41010 and CHEM 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

PHY 54600 INTRODUCTION TO BIOLOGICAL PHYSICS 3 Credit Hours
Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 54802 ASTROPHYSICS 3 Credit Hours
(Slashed with PHY 44802) Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), nonoptical astronomies and description of various cosmological theories.
Prerequisite: MATH 12003; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 55201 ELECTROMAGNETIC THEORY 4 Credit Hours
Properties of electric and magnetic fields developed by vector methods. Treatment of static fields in vacuum and matter. Theory of classical electromagnetic fields with emphasis on dynamic fields.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 55301 THERMAL PHYSICS 3 Credit Hours
(Slashed with PHY 45301) An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering.
Prerequisite: PHY 36001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 55401 MATHEMATICAL METHODS IN PHYSICS 4 Credit Hours
Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations.
Prerequisite: MATH 32052; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 55403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES 3 Credit Hours
(Slashed with PHY 45403) Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques.
Prerequisite: MATH 12003 and PHY 23102; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 55501 ELECTROMAGNETIC WAVES AND MODERN OPTICS 3 Credit Hours
(Slashed with PHY 45501) Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light devices and spectroscopic techniques based on modern optics.
Prerequisite: PHY 55201; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 56101 QUANTUM MECHANICS 4 Credit Hours
Systematic introduction to the principles and solution techniques of quantum mechanics, including the Schroedinger equation in one and three dimensions. Topics include: angular momentum formalism, introductory Dirac notation and vector space formalism, intrinsic spin, identical particle systems, and perturbation theory.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 56301 INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS 4 Credit Hours
(Slashed with PHY 46301) Introduction to nuclear and particle physics including particle detectors and accelerators, experimental techniques, nuclear fission and fusion, nuclear reactors, medical applications and connections to astrophysics and cosmology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 56401 INTRODUCTION TO SOLID STATE PHYSICS 3 Credit Hours
(Slashed with PHY 46401) Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research.
Prerequisite: PHY 36002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 60091 PHYSICS SEMINAR 1 Credit Hour
(Repeatable for credit)Discussion of current literature or of original research in physics. Participation by students, faculty and guests.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 60093 VARIABLE TITLE WORKSHOP IN PHYSICS 1-6 Credit Hours
(Repeatable for credit)Workshops individually designed to provide instruction and training in specific areas of physics.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

PHY 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation. Credits earned may be applied toward meeting degree requirements if department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

PHY 60199 THESIS I 2-6 Credit Hours
Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval of advisor.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 60295 ADVANCED TOPICS 1-3 Credit Hours
(Repeatable for credit) Selected special topics of current research interest.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

PHY 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: PHY 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 64101 ADVANCED PROBLEM SOLVING IN PHYSICS 3 Credit Hours
(Slashed with PHY 74101) The course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized.
Prerequisite: PHY 65101 or PHY 65203 or PHY 66161 or PHY 65301; or graduate standing; and departmental instructor approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 65101 CLASSICAL MECHANICS 3 Credit Hours
Lagrange's equations, variational principles, two-body central force problem and rigid body motion. Hamilton's equations, canonical transformations, Hamilton-Jacobi theory and small oscillations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 65203 CLASSICAL ELECTRODYNAMICS I 3 Credit Hours
Introduction to electrostatics, boundary-value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 65204 CLASSICAL ELECTRODYNAMICS II 3 Credit Hours
Plane electromagnetic waves, simple radiating systems, scattering, special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung.
Prerequisite: PHY 65203; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 65301 STATISTICAL MECHANICS I 4 Credit Hours
An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 66161 QUANTUM MECHANICS I 3 Credit Hours
Fundamental concepts of non-relativistic quantum mechanics. Solution of simple one dimensional problems. Abstract Hilbert-space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 66162 QUANTUM MECHANICS II 3 Credit Hours
Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single particle wave equations.
Prerequisite: PHY 66161; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 66201 PARTICLE PHYSICS 3 Credit Hours
Discussion of particle detectors, invariance principles and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of field theory, the Standard Model and selected topics of current interest.
Prerequisite: PHY 66162; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 66401 SOLID STATE PHYSICS I 3 Credit Hours
Crystalline state, with emphasis on wave propagation, zone and band theory, phonons. Applications to electrical and thermal conductivities, specific heats, optical, dielectric and magnetic properties.
Prerequisite: PHY 56101 or PHY 66161; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 66403 ADVANCED CONDENSED MATTER PHYSICS 3 Credit Hours
(Slashed with PHY 76403) Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems and the experimental methods that probe them.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 68401 LIQUID CRYSTAL PHYSICS 3 Credit Hours
The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications.
Prerequisite: Graduate standing in physics or chemical physics.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 70095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Topic announced when scheduled.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PHY 74101 ADVANCED PROBLEM SOLVING IN PHYSICS 3 Credit Hours
The course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized.
Prerequisite: PHY 65101 or PHY 65203 or PHY 66161 or PHY 65301; or doctoral standing; and departmental instructor approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 75101 CLASSICAL MECHANICS 3 Credit Hours
Lagrange's equations, variational principles, two-body central force problems, rigid body motion, Hamilton's equations, canonical transformations, Hamilton-Jacobi theory, small oscillations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 75203 CLASSICAL ELECTRODYNAMICS I 3 Credit Hours
Introduction to electrostatics, boundary value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 75204 CLASSICAL ELECTRODYNAMICS II 3 Credit Hours
Plane electromagnetic waves, simple radiating systems, scattering special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung.
Prerequisite: PHY 65203; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 75301 STATISTICAL MECHANICS I 4 Credit Hours
An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PHY 76161 QUANTUM MECHANICS I 3 Credit Hours
Fundamental concepts of non-relativistic quantum mechanics. Solution of simple one dimensional problems. Abstract Hilbert space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76162 QUANTUM MECHANICS II 3 Credit Hours
Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single particle wave equations.
Prerequisite: PHY 66161; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76163 QUANTUM MECHANICS III 3 Credit Hours
Second quantization and field theory formalism are developed for the many-particle system. Topics include the electron gas and nuclear matter.
Prerequisite: PHY 66162; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76201 PARTICLE PHYSICS 3 Credit Hours
Discussion of particle detectors, invariance principles and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of a field theory, the Standard Model and selected topics of current interest.
Prerequisite: PHY 66162 or 76162; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76303 APPLICATIONS OF QUANTUM CHROMODYNAMICS 3 Credit Hours
Introduces the key attributes and techniques of Quantum Chromodynamics, which is the relativistic quantum field theory of the strong interaction. Topics treated include the properties, structure and interactions of strongly interacting sub-nuclear particles (hadrons) and the physics of hadronic and nuclear matter at finite temperature and density, as applicable to modern nuclear particle physics research.
Prerequisite: PHY 76163.
Corequisite: PHY 66201 or PHY 76201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76401 SOLID STATE PHYSICS I 3 Credit Hours
Crystalline state, with emphasis on wave propagation zone and band theory phonons. Applications to electrical and thermal conductivities specific heats optical dielectric and magnetic properties.
Prerequisite: PHY 56101 or PHY 66161 or 76161; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 76403 ADVANCED CONDENSED MATTER PHYSICS 3 Credit Hours
(Slashed with PHY 66403) Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems, and the experimental methods that probe them.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 78401 LIQUID CRYSTAL PHYSICS 3 Credit Hours
The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications.
Prerequisite: Doctoral standing in physics or chemical physics.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHY 80091 PHYSICS SEMINAR 1 Credit Hour
(Repeatable for credit) Discussion of current literature or of original research in physics. Participation by students, faculty and guests.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 80097 PHYSICS COLLOQUIUM 1 Credit Hour
(Repeatable for credit)Presentation by invited speakers of research and other topics on graduate level followed by discussion period. Regular attendance of all physics majors expected. Three or more meetings each semester as arranged.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 80098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy exams. Credit earned may be applied toward the degree if the department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required; the first of which will be the semester in which dissertation work is begun, and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PHY 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: PHY 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Physics - B.A.

College of Arts and Sciences
Department of Physics
www.kent.edu/physics

About This Program

The Bachelor of Arts degree in Physics prepares students for such varied fields as secondary education, patent law, science journalism or interdisciplinary science careers. The core requirements permit a large number of elective courses, which allow students to complete a minor or second major in preparation for an interdisciplinary career. This program is well suited for those with a strong interest not only in science, but also a non-science field. Students completing the program may choose to continue their physics studies at the graduate level.

Contact Information

- **Almut Schroeder** | aschroe2@kent.edu | 330-672-3044
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) [1]	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB) [1]	5
PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC) [2]	2
PHY 35101	CLASSICAL MECHANICS	4
PHY 36001	INTRODUCTORY MODERN PHYSICS	3
PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
PHY 40020	ADVANCED PHYSICS LABORATORY (WIC) [2]	2
PHY 45201	ELECTROMAGNETIC THEORY	4
Physics (PHY) Upper-Division Electives (30000 or 40000 level) [3, 4]		8
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		27
Minimum Total Credit Hours:		**120**

1. Credit is not granted for both the PHY 13001/PHY 13002 and PHY 23101/PHY 23102 series.
2. A minimum C grade must be earned to fulfill the writing-intensive requirement.
3. With advisor permission, students may replace 3 credit hours of physics electives with ENG 20002 or PHIL 41035.
4. Maximum 6 credit hours of PHY 40096 may be applied toward the major.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- The following courses may not count toward Physics major requirements:

Code	Title	Credit Hours
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3
PHY 21040	PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS)	3
PHY 21041	PHYSICS IN ENTERTAINMENT AND THE ARTS LABORATORY (KBS) (KLAB)	1
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
PHY 21431	FRONTIERS IN ASTRONOMY LABORATORY (KBS) (KLAB)	1

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
	UC 10001	FLASHES 101	1
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Foreign Language		4
		Credit Hours	**14**
	Semester Three		
!	MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Five		
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
!	PHY 35101	CLASSICAL MECHANICS	4
!	PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	Physics (PHY) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Seven		
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2
!	PHY 45201	ELECTROMAGNETIC THEORY	4
	General Electives		9
		Credit Hours	**15**
	Semester Eight		
	Physics (PHY) Upper-Division Electives (30000 or 40000 level)		5
	General Electives		11
		Credit Hours	**16**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the technical and cognitive skills that are important for a good physicist, including the following:
   a. Think critically and analytically.
   b. Define a problem and how to solve problems.
   c. Understand advanced mathematics (e.g., calculus and differential equations) and computer skills.
   d. Use, design and even build lab equipment.

2. Demonstrate the traits that are important for a good scientist, namely, hard working, creative, meticulous, persistent, tenacious and self confident.
3. Communicate results of their work to peers, instructors or supervisors; various target groups within the physics community; and people outside the discipline.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Physics - B.S.

College of Arts and Sciences
Department of Physics
www.kent.edu/physics

About This Program

The Bachelor of Science in Physics program is designed for students who want to pursue a career in physics or a related field. With a rigorous curriculum that includes advanced coursework in classical mechanics, electromagnetism, quantum mechanics and more, this program provides you with the knowledge and skills needed to succeed in graduate school or the workforce. Read more...

Contact Information

- **Almut Schroeder** | aschroe2@kent.edu | 330-672-3044
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4

MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) [1]	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB) [1]	5
PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC) [2]	2
PHY 35101	CLASSICAL MECHANICS	4
PHY 36001	INTRODUCTORY MODERN PHYSICS	3
PHY 40020	ADVANCED PHYSICS LABORATORY (WIC) [2]	2
PHY 40092	INTERNSHIP IN PHYSICS (ELR)	2
or PHY 40096	INDIVIDUAL INVESTIGATION (ELR)	
PHY 45201	ELECTROMAGNETIC THEORY	4
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each) [3]		9
General Elective (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		1
Concentrations		
Choose from the following:		39
Applied Physics		
Biological Sciences		
Chemistry		
Computer Science		
Entrepreneurship		
Mathematical Physics		
Pre-Medicine/Pre-Osteopathy/Pre-Podiatry		
Research		
Minimum Total Credit Hours:		**120**

1 Credit is not granted for both the PHY 13001/PHY 13002 and the PHY 23101/PHY 23102 series, nor for PHY 13012.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

3 PHIL 21001 is highly recommended to fulfill the Kent Core Humanities category for the Pre-Medicine/Pre-Osteopathy/Pre-Podiatry concentration. This course also fulfills the global diversity requirement.

Applied Physics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
or CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
PHY 22564	INTRODUCTION TO MATERIALS PHYSICS	3
PHY 32511	ELECTRONICS	4
PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES	3
PHY 45501	ELECTROMAGNETIC WAVES AND MODERN OPTICS	3
Physics (PHY) Elective [1]		3
Physics (PHY) Upper-Division Elective (30000 or 40000 level) [1]		3
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		6
General Electives		7
Minimum Total Credit Hours:		**39**

1 Maximum 6 credit hours of PHY 40096 may be applied toward the major.

Biological Sciences Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40163	EVOLUTION	3
PHY 45301	THERMAL PHYSICS	3
PHY 46101	QUANTUM MECHANICS	4
Major Upper-Division Elective [1]		3
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		6
General Electives		5
Minimum Total Credit Hours:		**39**

1 Recommended major electives: BSCI 40158, CHEM 30481, PHY 41010, PHY 44600.

Chemistry Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CHEM 30481	ORGANIC CHEMISTRY I [1]	3
CHEM 30482	ORGANIC CHEMISTRY II [1]	3
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) [2]	1
CHEM 30301	INORGANIC CHEMISTRY I	3
PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
PHY 45301	THERMAL PHYSICS	3
PHY 46101	QUANTUM MECHANICS	4
Physics (PHY) Electives [3]		6
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		6
General Electives		4
Minimum Total Credit Hours:		**39**

1 Students who have already completed CHEM 30481 and CHEM 30482 may not take and apply CHEM 20482 toward the program.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

3 Maximum 6 credit hours of PHY 40096 may be applied toward the major.

Computer Science Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
or CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
CS 42201	NUMERICAL LINEAR ALGEBRA	3
PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
PHY 46101	QUANTUM MECHANICS	4
Physics (PHY) Upper-Division Electives (30000 or 40000 level) [1]		6
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		6
General Electives		6
Minimum Total Credit Hours:		**39**

[1] Maximum 6 credit hours of PHY 40096 may be applied toward the major.

Entrepreneurship Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
or ENTR 37040	ENTREPRENEURIAL TOOLS	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
ENTR 27466	SPEAKER SERIES IN ENTREPRENEURSHIP	1
ENTR 37065	ENTREPRENEURIAL FINANCE	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Physics (PHY) Upper-Division Electives (30000 or 40000 level) [1]		9
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		3
General Electives [2]		11
Minimum Total Credit Hours:		**39**

[1] Maximum 6 credit hours of PHY 40096 may be applied toward the major.

[2] Recommended general electives: ENTR 47047 and one of the following: ENTR 37045, ENTR 37075, MKTG 35056.

Mathematical Physics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
or CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
PHY 45401	MATHEMATICAL METHODS IN PHYSICS	4
PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES	3
PHY 46101	QUANTUM MECHANICS	4
Physics (PHY) Electives [1]		9
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		6
General Electives		6
Minimum Total Credit Hours:		**39**

[1] Maximum 6 credit hours of PHY 40096 may be applied toward the major.

Pre-Medicine/Pre-Osteopathy/Pre-Podiatry Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30130	HUMAN PHYSIOLOGY	3
or BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30171	GENERAL MICROBIOLOGY	4
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
or CHEM 40245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
CHEM 30481	ORGANIC CHEMISTRY I	3
CHEM 30482	ORGANIC CHEMISTRY II	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Concentration Elective, choose from the following:		3-4
BSCI 30518	VERTEBRATE ANATOMY	
BSCI 40174	IMMUNOLOGY	
BSCI 40517	MEDICAL HISTOLOGY	
PHY 41010	BIOPHOTONICS	
PHY 44600	INTRODUCTION TO BIOLOGICAL PHYSICS	
Minimum Total Credit Hours:		**39**

Research Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
or CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
PHY 45301	THERMAL PHYSICS	3
PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES	3
PHY 46101	QUANTUM MECHANICS	4
Physics (PHY) Electives [1]		5
Physics (PHY) Upper-Division Electives (30000 or 40000 level) [1]		4
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		6

General Electives	7
Minimum Total Credit Hours:	**39**

[1] Maximum 6 credit hours of PHY 40096 may be applied toward the major.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- The following courses may not count towards the Physics major requirements: PHY 11030, PHY 21040, PHY 21041, PHY 21430 and PHY 21431.

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

[1] All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

[2] The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Applied Physics Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Two		
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
	Foreign Language		4
		Credit Hours	**16**
	Semester Five		
	CS 13001 or CS 13011 ***and*** CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING ***and*** COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
!	PHY 35101	CLASSICAL MECHANICS	4
!	PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
!	PHY 45201	ELECTROMAGNETIC THEORY	4
		Credit Hours	**15**
	Semester Six		
!	PHY 22564	INTRODUCTION TO MATERIALS PHYSICS	3
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
!	PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES	3
	Physics (PHY) Elective		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Seven		
!	PHY 32511	ELECTRONICS	4
!	PHY 40092 or PHY 40096	INTERNSHIP IN PHYSICS (ELR) or INDIVIDUAL INVESTIGATION (ELR)	2
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2
!	PHY 45501	ELECTROMAGNETIC WAVES AND MODERN OPTICS	3
	Physics (PHY) Upper-Division Elective (30000 or 40000 level)		3

	General Electives		5
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

Biological Sciences Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Two		
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
		Credit Hours	**15**
	Semester Three		
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
!	MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Five		
!	BSCI 30156	ELEMENTS OF GENETICS	3
!	PHY 35101	CLASSICAL MECHANICS	4
	Major Elective		3
	Foreign Language		4
		Credit Hours	**14**
	Semester Six		
!	BSCI 30140	CELL BIOLOGY	4
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Seven		
!	BSCI 40163	EVOLUTION	3
!	PHY 40092 or PHY 40096	INTERNSHIP IN PHYSICS (ELR) or INDIVIDUAL INVESTIGATION (ELR)	2
!	PHY 45201	ELECTROMAGNETIC THEORY	4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Eight		
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2
!	PHY 45301	THERMAL PHYSICS	3
	PHY 46101	QUANTUM MECHANICS	4
	General Electives		6
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

Chemistry Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Two		
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
		Credit Hours	**15**
	Semester Three		
	CHEM 30481	ORGANIC CHEMISTRY I	3
!	MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	CHEM 30482	ORGANIC CHEMISTRY II	3
!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
	Kent Core Requirement		3
	General Elective		2
		Credit Hours	**15**
	Semester Five		
!	PHY 35101	CLASSICAL MECHANICS	4
!	PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
	Foreign Language		4

	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Six		
!	CHEM 30301	INORGANIC CHEMISTRY I	3
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
!	PHY 45301	THERMAL PHYSICS	3
	PHY 46101	QUANTUM MECHANICS	4
	Foreign Language		4
		Credit Hours	**16**
	Semester Seven		
!	CHEM 30105	ANALYTICAL CHEMISTRY I	3
!	CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
!	PHY 40092 or PHY 40096	INTERNSHIP IN PHYSICS (ELR) or INDIVIDUAL INVESTIGATION (ELR)	2
!	PHY 45201	ELECTROMAGNETIC THEORY	4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Eight		
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2
	Physics (PHY) Electives		6
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

Computer Science Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**16**
	Semester Two		
	CS 13001 or CS 13011 ***and*** CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING ***and*** COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
		Credit Hours	**14**
	Semester Three		
!	CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
!	MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Foreign Language		4
		Credit Hours	**16**
	Semester Four		
!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Five		
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
!	PHY 35101	CLASSICAL MECHANICS	4
!	PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
!	PHY 45201	ELECTROMAGNETIC THEORY	4
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Six		
!	CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
	PHY 46101	QUANTUM MECHANICS	4
	Physics (PHY) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Seven		
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	CS 42201	NUMERICAL LINEAR ALGEBRA	3
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2
!	PHY 40092 or PHY 40096	INTERNSHIP IN PHYSICS (ELR) or INDIVIDUAL INVESTIGATION (ELR)	2
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Eight		
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Physics (PHY) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	General Electives		4
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

Entrepreneurship Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
	UC 10001	FLASHES 101	1

	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Two		
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
		Credit Hours	**15**
	Semester Three		
!	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
!	ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
!	MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
		Credit Hours	**15**
	Semester Four		
!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**16**
	Semester Five		
	ACCT 23020 or ENTR 37040	INTRODUCTION TO FINANCIAL ACCOUNTING or ENTREPRENEURIAL TOOLS	3
!	PHY 35101	CLASSICAL MECHANICS	4
	PHY 45201	ELECTROMAGNETIC THEORY	4
	Foreign Language		4
		Credit Hours	**15**
	Semester Six		
	ENTR 27466	SPEAKER SERIES IN ENTREPRENEURSHIP	1
	ENTR 37065	ENTREPRENEURIAL FINANCE	3
	MKTG 25010	PRINCIPLES OF MARKETING	3
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Seven		
!	PHY 40092 or PHY 40096	INTERNSHIP IN PHYSICS (ELR) or INDIVIDUAL INVESTIGATION (ELR)	2
	Physics (PHY) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**14**
	Semester Eight		
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2
	Physics (PHY) Upper-Division Electives (30000 or 40000 level)		6
	General Electives		6
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

Mathematical Physics Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Two		
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
		Credit Hours	**15**
	Semester Three		
	CS 13001 or CS 13011 ***and*** CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING ***and*** COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
!	MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	General Elective		3
		Credit Hours	**16**
	Semester Four		
!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**16**
	Semester Five		
!	PHY 35101	CLASSICAL MECHANICS	4
!	PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
!	PHY 45201	ELECTROMAGNETIC THEORY	4
	Foreign Language		4
		Credit Hours	**15**
	Semester Six		
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
!	PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES	3
	PHY 46101	QUANTUM MECHANICS	4
	Foreign Language		4
		Credit Hours	**13**
	Semester Seven		
!	PHY 40092 or PHY 40096	INTERNSHIP IN PHYSICS (ELR) or INDIVIDUAL INVESTIGATION (ELR)	2

!	PHY 45401	MATHEMATICAL METHODS IN PHYSICS	4
	Physics (PHY) Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Eight		
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2
	Physics (PHY) Electives		6
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		1
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

Pre-Medicine/Pre-Osteopathy/Pre-Podiatry Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	UC 10001	FLASHES 101	1
		Credit Hours	**17**
	Semester Two		
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
		Credit Hours	**15**
	Semester Three		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	CHEM 30481	ORGANIC CHEMISTRY I	3
!	MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
		Credit Hours	**15**
	Semester Four		
!	BSCI 30140	CELL BIOLOGY	4
!	CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
!	CHEM 30482	ORGANIC CHEMISTRY II	3
!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
		Credit Hours	**15**
	Semester Five		
!	BSCI 30130 or BSCI 40430	HUMAN PHYSIOLOGY or ANIMAL PHYSIOLOGY	3
!	BSCI 30156	ELEMENTS OF GENETICS	3
!	PHY 35101	CLASSICAL MECHANICS	4
	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Concentration Elective or Kent Core Requirement		3
		Credit Hours	**16**
	Semester Six		
!	BSCI 30171	GENERAL MICROBIOLOGY	4
!	CHEM 30284 or CHEM 40245	INTRODUCTORY BIOLOGICAL CHEMISTRY or BIOCHEMICAL FOUNDATIONS OF MEDICINE	4
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
	Concentration Elective or Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Seven		
!	PHY 40092 or PHY 40096	INTERNSHIP IN PHYSICS (ELR) or INDIVIDUAL INVESTIGATION (ELR)	2
!	PHY 45201	ELECTROMAGNETIC THEORY	4
	Foreign Language		4
	Kent Core Requirement		3
		Credit Hours	**13**
	Semester Eight		
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2
	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		1
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

Research Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Two		
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
	Foreign Language		4

	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
	Foreign Language		4
		Credit Hours	**16**
	Semester Five		
	CS 13001 or CS 13011 ***and*** CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING ***and*** COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
!	PHY 35101	CLASSICAL MECHANICS	4
!	PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
!	PHY 45201	ELECTROMAGNETIC THEORY	4
		Credit Hours	**15**
	Semester Six		
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
!	PHY 45301	THERMAL PHYSICS	3
!	PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES	3
!	PHY 46101	QUANTUM MECHANICS	4
	Physics (PHY) Elective		3
		Credit Hours	**15**
	Semester Seven		
!	PHY 40092 or PHY 40096	INTERNSHIP IN PHYSICS (ELR) or INDIVIDUAL INVESTIGATION (ELR)	2
	Physics (PHY) Elective		2
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**13**
	Semester Eight		
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2
	Physics (PHY) Upper-Division Electives (30000 or 40000 level)		4
	Kent Core Requirement		3
	General Electives		5
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate technical and cognitive skills important in a good physicist, including the following:
   a. Think critically and analytically.
   b. Define a problem and how to solve problems.
   c. Understand advanced mathematics (e.g., calculus and differential equations) and computer skills.
   d. Use, design and even build lab equipment.
2. Demonstrate the traits important in a good scientist, namely, hard working, creative, meticulous, persistence, tenacious and self confidence.
3. Communicate results of their work to peers, to their instructors or supervisors, to various target groups within the physics community and to people outside the discipline.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Physics is a professionally oriented program that serves as preparation either for graduate work in physics or for entrance into positions in a variety of industries or government service.

The Physics major comprises the following concentrations:

- The **Applied Physics** concentration prepares students for immediate entry into careers in industry. Course requirements include electronics, introduction to computer programming, and data analysis and computational physics techniques. While rooted in the basic principles of physics, this program is optimized for students concerned with the application of physics in practical devices and systems.
- The **Biological Sciences** concentration is interdisciplinary and for students with a strong interest in both physics and biology, who may wish to prepare for graduate study in biophysics or for work in a biotechnology company.
- The **Chemistry** concentration is interdisciplinary and designed for students with a strong interest in both physics and chemistry, who may wish to prepare for graduate study in chemical physics or for work in a high-technology materials-related research and development laboratory.
- The **Computer Science** concentration is interdisciplinary and provides a foundation in physics while emphasizing the use of computer software in scientific applications. Graduates are prepared for computer-related careers that require an understanding of the underlying science as well as knowledge of relevant computer applications.
- The **Entrepreneurship** concentration is interdisciplinary and designed to prepare physics majors for various aspects of starting or managing a scientific business.
- The **Mathematical Physics** concentration is interdisciplinary and provides students with a strong understanding of applied physical theory, its applications and the underlying mathematics. This training, valuable for start-up positions with a number of industries, may also serve as preparation for graduate work in either physics or mathematics.
- The **Pre-Medicine/Pre-Osteopathy/Pre-Podiatry** concentration is interdisciplinary and designed to prepare physics majors for further study leading to careers in medicine.
- The **Research** concentration prepares majors for further study at the graduate level. This program trains students in logical thinking and problem solving using both analytical and computational methods. It also furnishes students with a comprehensive understanding of the basic laws and principles that govern the physical world. Academic assessment and GRE scores keep the program up-to-date via curricular revisions. This program is a popular stepping stone to graduate degrees not only in physics, but also in engineering, astronomy/astrophysics and materials science.

Physics - M.A.

College of Arts and Sciences
Department of Physics
www.kent.edu/physics

About This Program

The Master of Arts degree in Physics is a highly flexible program consisting of graduate coursework that can be customized according to the academic background and needs of the individual student. This flexibility is a good match for the needs of part-time students who continue to hold full-time employment in secondary education or in industry.

Post-baccalaureate students in the Ph.D. degree in Physics may apply for the M.A. degree after completing the requirements.

Contact Information

- **Hamza Balci** | hbalci@kent.edu | 330-672-2577
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or vita
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: February 1
    Applications submitted by this deadline will receive the strongest consideration for admission.
- **Spring Semester**
  - Application deadline: September 1
    Applications submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Physics (PHY) Electives [1]		16
Physics (PHY) Electives, 60000-level [1]		16
Minimum Total Credit Hours:		**32**

[1] Electives planned by the student together with the faculty advisor to best fulfill the preparation of the student.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- A total of 32 semester hours of graduate credit is required, with no more than one half at the 50000 level. The distribution of these hours will be planned by the student together with the faculty advisor to best fulfill the preparation of the student.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of these programs will be able to:

1. Demonstrate cognitive skills important to a physicist, including to think critically and analytically and define and solve problems in physics.
2. Demonstrate a core knowledge and understanding of the foundations of physics.

Physics - M.S.

College of Arts and Sciences
Department of Physics
www.kent.edu/physics

About This Program

The Master of Science degree in Physics consists of graduate coursework and a research project taking one or two semesters. The research project should result in a written report. Students may choose to complete a thesis, to be defended orally. This degree provides entry-level qualifications for team research employment or a high school teaching career.

Contact Information

- **Hamza Balci** | hbalci@kent.edu | 330-672-2577
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or vita
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: February 1
    Applications submitted by this deadline will receive the strongest consideration for admission.
- **Spring Semester**
  - Application deadline: September 1
    Applications submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
PHY 65101	CLASSICAL MECHANICS	3
PHY 66161	QUANTUM MECHANICS I	3

Graduate-Level Electives [1]		12-14
Major Electives, choose from the following:		6-8
PHY 55201	ELECTROMAGNETIC THEORY	
PHY 55301	THERMAL PHYSICS	
PHY 55401	MATHEMATICAL METHODS IN PHYSICS	
PHY 65203	CLASSICAL ELECTRODYNAMICS I	
PHY 65301	STATISTICAL MECHANICS I	
Culminating Experience		
Choose from the following:		6
PHY 60098	RESEARCH [2]	
PHY 60199	THESIS I [3]	
Minimum Total Credit Hours:		**32**

1 Electives are selected in consultation with the student's faculty advisor and approved by the department.

2 Students who select research (non-thesis option) are required to submit a written research report.

3 Students who select the thesis option are required to submit and orally defend a thesis. The thesis topic is chosen together with the research advisor and must be defended to a committee of physics graduate faculty.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate cognitive skills important to a physicist, including the following:
   a. Think critically and analytically;
   b. Define and solve problems in physics; and
   c. Conduct quantitative research in a contemporary area of physics.
2. Demonstrate a core knowledge and understanding of the foundations of physics.
3. Communicate results of their work to peers, various target groups within the physics community and people outside the discipline. Teaching skills also come under this heading.

Physics - Minor

College of Arts and Sciences
Department of Physics
www.kent.edu/physics

About This Program

The Physics minor allows students with a major or interest in natural sciences, mathematics, education and technology to complement their studies and enhance their academic credentials. Non-science majors may find that the Physics minor enhances their knowledge of this useful and fascinating field.

Contact Information

- **Hamza Balci** | hbalci@kent.edu | 330-672-2577
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Prerequisites		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	
Minor Requirements		
PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
PHY 36001	INTRODUCTORY MODERN PHYSICS	3
Physics (PHY) Upper-Division Electives (30000 or 40000 level)		6
Minimum Total Credit Hours:		**22**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a conceptual and quantitative understanding of fundamental principles of classical and modern physics.

2. Develop analytical and critical thinking skills, and use these skills to solve scientific problems.
3. Develop oral and written communication skills to present scientific findings obtained through theoretical, computational and experimental efforts.

Physics - Ph.D.

College of Arts and Sciences
Department of Physics
www.kent.edu/physics

About This Program

The Ph.D. degree in Physics provides training of professionals to conduct independently conceived programs of research or teaching in universities or research laboratories. Original research is required in fundamental or applied areas of physics, and the Ph.D. dissertation must be orally defended. Two years of graduate coursework and four years of research are typical.

Contact Information

- **Hamza Balci** | hbalci@kent.edu | 330-672-2577
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or vita
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: February 1
    Applications submitted by this deadline will receive the strongest consideration for admission.
- **Spring Semester**
  - Application deadline: September 1
    Applications submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements [1]		
PHY 75204	CLASSICAL ELECTRODYNAMICS II	3
PHY 75301	STATISTICAL MECHANICS I	4
PHY 76162	QUANTUM MECHANICS II	3
PHY 76163	QUANTUM MECHANICS III	3
PHY 76201	PARTICLE PHYSICS	3
PHY 76303	APPLICATIONS OF QUANTUM CHROMODYNAMICS	3
or PHY 76403	ADVANCED CONDENSED MATTER PHYSICS	
or PHY 78401	LIQUID CRYSTAL PHYSICS	
PHY 76401	SOLID STATE PHYSICS I	3
Additional Program Requirements [3]		8-38
Culminating Requirement		
PHY 80199	DISSERTATION I [2]	30
Minimum Total Credit Hours for Post-Baccalaureate Students		**90**
Minimum Total Credit Hours for Post-Master's Students		**60**

[1] Students may petition to substitute a specific course if a minimum B grade was earned for a course at another school that is judged to be equivalent. The required physics courses will prepare the student for the candidacy examination.

[2] Upon admission to candidacy, each student must register for PHY 80199 for a total of 30 credit hours. Thereafter, students should register for PHY 80299 continuously each term until all degree requirements have been met. The dissertation must present and interpret original research. Topics available for dissertation research are primarily in the areas of condensed matter physics, material science, biophysics, theoretical astrophysics and high-energy nuclear physics. Students present at least one seminar based on their dissertation research during their graduate career.

[3] Additional program requirements are selected in consultation with the student's faculty advisor and approved by the department.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate cognitive skills important to a physicist, including the following:

a. Think critically and analytically;
b. Define and solve problems in physics; and
c. Perform research in contemporary areas of physics research at the highest level and with a great deal of independence.

2. Demonstrate a core knowledge and understanding of the foundations of physics.
3. Communicate results of their work to peers, various target groups within the physics community and people outside the discipline.

Department of Political Science

College of Arts and Sciences
Department of Political Science
302 Bowman Hall
Kent Campus
330-672-2060
polisci@kent.edu
www.kent.edu/polisci

Undergraduate Programs

- Political Science - B.A.

Minors

- Political Science
- Pre-Law

Graduate Programs

- Political Science - M.A.
- Political Science - Ph.D.
- Public Administration - M.P.A.

Certificates

Undergraduate Certificates

- Global Issues

Graduate Certificates

- Nonprofit Management

Non-Degree Programs

- Columbus Program in State Issues
- Washington Program in National Issues

Department of Political Science Faculty

- Ayres, William R. (2022), Professor
- Banks, Christopher P. (2006), Professor, Ph.D., University of Virginia, 1995
- Carbonell, Joel R. (2007), Associate Professor, Ph.D., University of California, Riverside, 2007
- Cassell, Mark K. (1998), Professor, Ph.D., University of Wisconsin-Madison, 1998
- Chand, Daniel E. (2016), Associate Professor
- Claassen, Ryan L. (2005), Professor, Ph.D., University of California-Davis, 2005
- Dzordzormenyoh, Michael K. (2022), Assistant Professor, Ph.D., University Of South Dakota, 2019
- Ensley, Michael J. (2009), Professor, Ph.D., Duke University, 2002
- Hawes, Daniel P. (2008), Professor, Ph.D., Texas A&M University, Main Campus, 2008
- McLaughlin, Danielle (2022), Assistant Professor, Ph.D., University of Cincinnati, 2021
- Miller, Patrick R. (2023), Associate Professor, Ph.D., University of North Carolina-Chapel Hill, 2010
- Molina, Anthony D. (2013), Associate Professor, Ph.D., Cleveland State University, 2004
- Paar-Jakli, Gabriella (1991), Associate Professor, Ph.D., Kent State University, 2010
- Schmidt, Sarah (2015), Assistant Professor, Ph.D., Kent State University, 2023

Political Science (POL)

POL 10004 COMPARATIVE POLITICS (DIVG) (KSS) 3 Credit Hours
Introduces the different institutional structures of governance (e.g.,parliamentary versus presidential systems) in a range of different states for different types of regimes (e.g. democratic and authoritarian) and at the international level.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

POL 10100 AMERICAN POLITICS (DIVD) (KSS) 3 Credit Hours
Covers the basic elements of politics at the national level in the United States, including structures, processes, behaviors, institutions and policies. Special emphasis is given to conflicting theories of power as they apply to different economic, sexual and racial groups.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

POL 10200 INTRODUCTION TO THE AMERICAN LEGAL PROFESSION 3 Credit Hours
This course initially explores the historical and contemporary understanding of American law and political jurisprudence, or legal theory. Thereafter, the key role attorneys play in the legal system and within American society is analyzed by studying the legal profession's origins, education, ethics, professional licensing and legal and/or alternative legal employment opportunities. A special emphasis of the course is learning to develop a professional identity that values commitments to providing public service, acting as active or responsible citizens in the polity and public affairs and working to achieve impartially derived peaceful and civil resolutions to contentious disputes in an adversarial system of justice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 10300 PUBLIC POLICY 3 Credit Hours
Course provides a survey of basic public policy concepts and processes within an historical context. Course incorporates applied work to bridge conceptual understanding and empirical cases.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 10500 WORLD POLITICS (DIVG) (KSS) 3 Credit Hours
A practical, theoretical introduction to a study of systematic patterns in international relations. Includes analysis of rules, instruments, processes, decision- making factors, conflict resolution.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

POL 30000 MAY 4 1970 AND ITS AFTERMATH 3 Credit Hours
(Cross-listed with PACS 30000) Study of the events of the 1960s in the United States leading up to May 4, 1970, when the Ohio National Guard killed and wounded Kent State University students protesting the war in Vietnam and Cambodia. Topics are considered within their cultural, historical, social and political contexts. Course also examines the aftermath of May 4, including the controversy over constructing the Gym Annex on the site of the shootings, the legal trials, the role of commemorations and memorials and the politics of remembering May 4, 1970.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30001 RESEARCH METHODS (ELR) 3 Credit Hours
Course is designed to bring students to a basic level of statistical literacy by introducing the fundamentals of research design and interpretation, as well as basic descriptive and inferential statistics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 30002 POLITICAL THOUGHT 3 Credit Hours
Courses introduces students to basic methodological and substantive concerns in the tradition of western political thought.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30003 POLITICAL ECONOMY 3 Credit Hours
Introduction to the fundamental questions surrounding the relationship between the public and private sectors, considered from the perspective of the state and its major political institutions. Of central concern is the growing internationalization of capital and its consequences for both domestic and international politics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30100 AMERICAN POLITICAL THEORY 3 Credit Hours
Major political ideas and controversies associated with the development of American political thought. Nonmajors should contact the Department of Political Science for a prerequisite override.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30110 THE CONGRESS 3 Credit Hours
This course covers elections, the powers of Congress and its organization, leadership of the two houses, role of the parties, relationships with the chief executive and executive agencies, as well as recent reforms enacted by the House and Senate.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30120 PRESIDENCY AND EXECUTIVE BUREAUCRACY 3 Credit Hours
Intensive study of the American presidency, focusing on personality, organization of the office, use and misuse of power and policy making.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30130 THE JUDICIAL PROCESS 3 Credit Hours
Intensive study of the judicial process in the United States and the relationship between the judicial system and larger American social system.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30301 INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours
Introduction to the theory and practice of governmental administration, including structure, organization, direction and control of governmental departments and agencies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30350 ENVIRONMENTAL CONFLICT RESOLUTION 3 Credit Hours
(Cross-listed with PACS 35050) Examines environmental conflicts, such as land use disputes and resource conflicts, and conflict resolution theory and processes applicable to environmental disputes, especially biodiversity conservation and natural resource conflicts. Students learn about environmental conflict analysis, multistakeholder environmental dispute resolution, dialogue processes, conflict-sensitivity, and environmental cooperation among others. Case studies of environmental conflicts and participatory simulations are used.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30430 OHIO POLITICS 3 Credit Hours
Addresses the history, structure, and current practices of politics and public policy in Ohio.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30450 URBAN POLITICS AND POLICY 3 Credit Hours
Discusses local governance in the context of metropolitan change, and covers issues such as governing capacity, local democracy, individual choice and economic and racial inequality. Examines the formal and informal arrangements that shape change and public policy. Non-majors should contact the Department of Political Science for a prerequisite override.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30460 STATE POLITICS AND POLICY 3 Credit Hours
Introduces the theoretical and legal infrastructures of federalism and intergovernmental relations, with a particular emphasis on political and policy operations at the state level. Political behavior and institutions, as well as the specifics of selected, substantive policy areas are emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30500 INTERNATIONAL RELATIONS THEORY 3 Credit Hours
Course introduces competing theoretical approaches to the study of international relations; an examination of the historical developments followed by an examination of current issues in world politics.
Prerequisite: POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30520 EUROPEAN POLITICS (DIVG) 3 Credit Hours
Examines major European national political systems (British, French, German, Russian and Scandinavian) relations between the European states, the institutions of the European Union and prospects and problems of European integration.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30530 ASIAN POLITICS (DIVG) 3 Credit Hours
Introduction to the political, economic and social dynamics of Asia, from Siberia in the north to the Indian Ocean in the south, and from the Pacific Ocean in the east to the Hindu Kush in the west. The first part of the course examines Asia's modern political history (particularly the past half-century). The second part of the course focuses on contemporary issues, including the roles of the United States and sub-regional actors, such as the Association of Southeast Asian Nations (ASEAN).
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30540 AFRICAN POLITICS (DIVG) 3 Credit Hours
An analysis of major issues in African politics and international relations. The contemporary development of Africa will be analyzed in the global context of the historical forces of imperialism and colonialism.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30550 LATIN AMERICAN POLITICS (DIVG) 3 Credit Hours
Analysis of political culture/process in selected Latin American states, with particular emphasis on Mexico, Brazil, Argentina and Columbia.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30560 MIDDLE EAST POLITICS (DIVG) 3 Credit Hours
Introduces students to the theory and context of politics in the Middle East in a way that contests the often-simplistic stereotypes communicated through Western media and throughout Western culture, in order to encourage a more nuanced appreciation of the Middle East. Theoretical approaches utilized include modernization, dependency, structuralism and constructivism.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30570 PALESTINE AND ISRAEL (DIVG) 3 Credit Hours
(Cross-listed with INTS 30570) Course introduces students to academic approaches and theories that attempt to understand the situation in historic Palestine. The course is divided into four sections: (1) theories of settler colonialism and basic differences between Judaism, Zionism and Israeli society, as well as diversity within Palestinian society; (2) comparative studies of the establishment of the modern state of Israel, which Palestinians view in their collective experience as “the Catastrophe” or al-Nakba; (3) the occupation of East Jerusalem, the West Bank and Gaza, and how that system has changed over time; (4) pathways forward for Palestinians and Israelis.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 30810 POLITICS OF THE GLOBAL ECONOMY 3 Credit Hours
Examines interaction between economics and politics in international relations. Topics include poverty and uneven economic development, political prerequisites for free trade, intra-western and north-south economic conflict and distributive justice.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30820 INTERNATIONAL ORGANIZATION AND LAW 3 Credit Hours
Course introduces the subject matter in historical and theoretical contexts, then devotes detailed attention to the full range of international organizations that exist today. A final section addresses the role of international law in world politics.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 30840 NONGOVERNMENTAL ORGANIZATIONS 3 Credit Hours
Introduction to the diverse range of nongovernmental organizations that exist today. Course explores the varying roles on nongovernmental organizations in setting agendas, shaping legislation and implementing public policy reforms.
Prerequisite: POL 10004 or POL 10300 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 39592 GENEVA INTERNSHIP (ELR) 3 Credit Hours
(Repeatable for credit) Students perform intern duties as part of the semester in Geneva.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 40091 VARIABLE TOPIC SEMINAR 3 Credit Hours
(Slashed with POL 50091 and POL 70091) Variable topic seminar in political science.
Prerequisite: POL 10004 or POL 10500; and POL 10100 or POL 10300; and POL 30001; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40112 POLITICS AND THE MASS MEDIA 3 Credit Hours
Course examines the multiple roles played by the mass media in contemporary politics and analyzes the implications of those roles. Nonmajors should contact the Department of Political Science for a prerequisite override.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40116 PUBLIC OPINION AND POLITICAL BEHAVIOR 3 Credit Hours
Analysis of determinants of public opinion and political behavior. Study of how public makes up its mind and impact of public opinion on government policy.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40118 POLITICAL PARTIES AND INTEREST GROUPS 3 Credit Hours
An examination of the changing roles of political parties and interest groups in the American political system, including a comparison of their respective electoral activities.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40182 CONSTITUTIONAL LAW: GOVERNMENTAL STRUCTURES AND FUNCTIONS 3 Credit Hours
Nature and scope of constitutional government. Study of judicial review, separation of powers, federalism, commerce and taxation.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40183 CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD) 3 Credit Hours
Nature and scope of constitutional limitations. Study of first amendment, freedom of expression, freedom of religion, criminal rights, due process, equal protection.
Prerequisite: POL 10100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

POL 40191 SEMINAR IN AMERICAN POLITICS (WIC) 3 Credit Hours
(Repeatable for credit) A required, writing-intensive seminar for juniors and seniors in the American Politics concentration. The focus of the seminar varies depending on content and instructor.
Prerequisite: POL 10004 or 10500; and POL 10100 or 10300; and POL 30001 and POL 30002 (or POL 30003); and political science major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

POL 40320 ETHICS AND PUBLIC POLICY 3 Credit Hours
The ethical obligations of public policy makers are examined in this course, within a series of applied cases. The goal is to empower students with the intellectual tools of critical analysis within diverse policy environments.
Prerequisite: POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40391 SEMINAR IN PUBLIC POLICY (WIC) 3 Credit Hours
(Repeatable for credit) A required, writing intensive seminar for juniors and seniors in the Public Policy concentration. The focus of the seminar varies depending on content and instructor.
Prerequisite: POL 10004 or POL 10500;and POL 10100 or 10300; and POL 30001 and POL 30002 (or POL 30003); and political science major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

POL 40440 U.S. ENVIRONMENTAL POLITICS AND POLICIES 3 Credit Hours
Course covers such topics as the history of the U.S. environmental movement; public opinion and environmental issues; environmental racism and classism; and environmental policy making and implementation.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40450 HEALTH CARE AND SOCIAL POLICY 3 Credit Hours
Addresses health care policy in the United States from both theoretical (political, economic as well as public policy) and substantive perspectives at the state, national and comparative-international levels. Further, the examination of health care policy takes place in the context of social welfare policy more broadly considered.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40470 WOMEN, POLITICS AND POLICY (DIVD) 3 Credit Hours
Examines origins, development and current record of century-old women's movement unique in U.S. annals; compares it with other contemporary social movements. Examines issues of women and public policy.
Prerequisite: POL 10100 or POL 10300.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

POL 40530 POLITICS OF WAR 3 Credit Hours
Examines central questions concerning the justification, explanation characteristic features and consequences of war. Specific cases are examined such as World War II, the Chinese Revolution, Vietnam's civil war and potential nuclear war.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40540 POLITICS OF DEVELOPMENT (DIVG) 3 Credit Hours
Examines practice, record and theories of political development for less developed, developing and developed political systems. Includes extensive analysis of issues, problems through case studies.
Prerequisite: POL 10004 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 40560 HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG) 3 Credit Hours
(Cross-listed with INTS 40560) Examines the relationship between human rights and problems of the Third World in the civic, political, social and cultural arenas. Particular attention is placed on the struggle of women.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

POL 40589 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) Faculty-led study abroad programs.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

POL 40591 SEMINAR IN INTERNATIONAL RELATIONS-COMPARATIVE POLITICS (WIC) 3 Credit Hours
(Repeatable for credit) A required, writing-intensive seminar for juniors or seniors in the International Relations-Comparative Politics concentration. The focus of the seminar varies depending on content and instructor. International Relations majors who have completed POL 10004, POL 10500 and 6 credit hours of courses in the International Relations-Comparative Politics concentration may request a prerequisite override from the Department of Political Science.
Prerequisite: POL 10004 or POL 10500; and POL 10100 or POL 10300; and POL 30002 or POL 30003; and political science major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

POL 40620 POLITICS OF SOCIAL MOVEMENTS (DIVD) 3 Credit Hours
Examines the role of social movements both in the United States and around the world. Focuses on labor, environmental, social justice and other initiatives in the push for political and economic democracy. North-South, public-private, labor-management and regional perspectives are emphasized.
Prerequisite: POL 10004 or POL 10100 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

POL 40840 COMPARATIVE FOREIGN POLICY 3 Credit Hours
Comparative analysis of foreign policy patterns and determinants on the basis of the examination of foreign policy of selected countries.
Prerequisite: POL 10004 or POL 10300 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40930 U.S. FOREIGN POLICY 3 Credit Hours
Examines policy objectives, patterns of decision-making and foreign policy actions, roles of interest groups, public opinion, congress, executive and external influences on policy.
Prerequisite: POL 10004 or POL 10100 or POL 10500.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 40992 INTERNSHIP (ELR) 1-9 Credit Hours
(Repeatable for credit) Allows academic credit for approved participation in a variety of political processes, or as an intern with governmental or private agencies dealing with public affairs.
Prerequisite: Minimum 2.000 overall GPA; and special approval.
Schedule Type: Field Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

POL 40993 VARIABLE TITLE WORKSHOP IN POLITICAL SCIENCE 1-6 Credit Hours
(Repeatable for credit) Workshop topic varies per course offering.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

POL 40995 SELECTED TOPICS IN POLITICAL SCIENCE 1-3 Credit Hours
(Repeatable for credit) Special course, not regularly offered. Subject varies depending on the emerging issue, staff availability and competencies.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

POL 40996 INDEPENDENT STUDY 1-3 Credit Hours
(Repeatable for credit) For students desiring research into subjects beyond level of completed course work, or on subjects for which no regular course is offered.
Prerequisite: Any two of the following courses: POL 10004, POL 10100, POL 10300, and POL 10500; minimum 2.750 overall GPA; and junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

POL 41990 COLUMBUS PROGRAM IN STATE ISSUES (ELR) 15 Credit Hours
(Repeatable for credit) Annual fall semester resident-study in Columbus. Students spend three days per week working at an internship and two days per week attending briefings and completing course studies.
Prerequisite: Minimum 2.500 overall GPA; and special approval.
Schedule Type: Lecture, Practical Experience, Seminar, Study Away
Contact Hours: 7 lecture, 24 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 42990 WASHINGTON PROGRAM IN NATIONAL ISSUES (ELR) 15 Credit Hours
(Repeatable for credit) Annual spring semester resident-study in Washington, D.C. Credit hours divided among three units: lecture and course work, on-site briefings seminar and internship.
Prerequisite: Minimum 2.750 overall GPA; and junior standing; and special approval.
Schedule Type: Lecture, Practical Experience, Seminar, Study Away
Contact Hours: 7 lecture, 24 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 43001 WICKED PROBLEMS: TACKLING GLOBAL ISSUES IN THE 21ST CENTURY 3 Credit Hours
(Cross-listed with ESCI 43001 and GEOG 43070) This course provides an overview and analysis of the United Nations Sustainable Development Goals (SDG), as well as strategies that can be used for tackling them. The SDGs address the most serious problems faced by humankind today. These include poverty, hunger, inequality, climate change, economic development and environmental sustainability. A key characteristic of the SDGs is that they are known as "wicked problems." Wicked problems are complex issues that resist conventional approaches to problem solving, and for which existing solutions often create unintended consequences that only make the original problem worse. Emphasis is placed on problems of collective action, evidence-based public policies and interdisciplinary approaches to addressing global issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 43002 THE POLITICS OF INEQUALITY 3 Credit Hours
This course introduces students to national and transnational politics and policies that produce wealth, poverty and inequality. Along the way, it examines a range of sustainable development goals including, but not limited to, the elimination of poverty and hunger, access to quality education, decent work, reduced inequalities and responsible consumption and production. The course reviews different national or transnational case studies to assess different views and approaches to these goals. Consideration is given to them as a complex set of interconnected issues that involve education, occupation, well-being and the distribution of wealth in society. Additionally, the course examines political and policy issues that are barriers to reducing inequality.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 43003 GOOD GOVERNANCE AND SUSTAINABLE DEVELOPMENT 3 Credit Hours
This course focuses on the development of policies and institutions that are necessary for justice and good governance. It also introduces students to the system of international relations and growing body of international institutions that deliver and implement policies at the transnational level. Along the way, the course examines a range of United Nations Sustainable Development Goals (SDG). These include, but are not limited to, peace, justice, strong institutions and international partnerships. Students develop an understanding of the importance of effective political, civil and international institutions for establishing peace, prosperity and well-being.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 43499 CAPSTONE IN GLOBAL ISSUES (ELR) 1 Credit Hour
This course serves as the capstone to the certificate in Global Issues. Students integrate the concepts they have learned and relate them to their major field of study and/or professional endeavors.
Prerequisite: None.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

POL 50091 VARIABLE TOPIC SEMINAR 3 Credit Hours
(Slashed with POL 40091 and POL 70091) Variable topic seminar in political science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 51191 SEMINAR: PROBLEMS IN AMERICAN GOVERNMENT 3 Credit Hours
(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate American government course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

POL 51391 SEMINAR: PROBLEMS IN PUBLIC POLICY 3 Credit Hours
(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate public policy course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

POL 51591 SEMINAR: PROBLEMS IN INTERNATIONAL RELATIONS/ COMPARATIVE GOVERNMENT 3 Credit Hours
(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate international/comparative government course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

POL 60002 SCOPE AND EPISTEMOLOGY 3 Credit Hours
(Slashed with POL 70002) Introduces students to the philosophy of science and scientific inquiry within the context of the social sciences. Course presents a broad survey of leading paradigms and debates within political science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60003 QUANTITATIVE METHODS I 3 Credit Hours
(Slashed with POL 70003) Provides a selective introduction to basic quantitative methods for the analysis of political and public policy data dealing with basic descriptive and inferential statistics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60004 QUANTITATIVE METHODS II 3 Credit Hours
(Slashed with POL 70004) Introduces students to multivariate quantitative techniques appropriate for the analysis of political and public policy data.
Prerequisite: POL 60003; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60010 QUALITATIVE RESEARCH METHODS 3 Credit Hours
(Slashed with POL 70010) Introduces the principles and methods of qualitative research, examining the place of qualitative research alongside discussions about positivist, interpretivist and critical approaches. A variety of qualitative research methods are introduced including social observation and ethnography, interviewing, discourse analysis, oral history, document analysis, historical analysis and case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60099 CAPSTONE SEMINAR 3 Credit Hours
Directed research to use completed coursework to identify ways in which scholarship speaks to application, e.g., in the non-profit, policy, consulting or programming world.
Prerequisite: Graduate standing.
Schedule Type: Master's Project, Research
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

POL 60101 STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 70101) Course provides a broad survey of the policy-making process in the U.S. government. Coverage includes formal government structures, as well as more informal networks of private groups that seek to influence public policy at the national level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60102 AMERICAN POLICY PROCESS 3 Credit Hours
(Slashed with POL 70102) Course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation implementation and evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60103 CONGRESS, THE PRESIDENCY AND THE COURTS 3 Credit Hours
(Slashed with POL 70103) Focuses on the three branches of the U.S. government, specifically Congress, the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60106 URBAN POLICY AND POLITICS 3 Credit Hours
(Slashed with POL 70106) Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policymaking.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60108 AMERICAN POLITICAL BEHAVIOR 3 Credit Hours
(Slashed with POL 70108) Explores scholarship on the behavior of non-elite political actors, including various forms of electoral participation, voting, psychological attachment, affect, cognition, perception, attitude and belief. Additional topics include ethnic, racial and gender politics; political participation; voting choice; political psychology; politics and networks; macro politics; and connecting individual-level and macro-level findings with democratic outcomes and citizen capacity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60191 SEMINAR IN AMERICAN POLITICS AND POLICY 3 Credit Hours
(Repeatable for credit)(Slashed with POL 70191) Seminar on current and important topics in American politics and policy. Subject matter varies depending on the emerging issue. Course may be repeated for credit toward a degree with departmental approval.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 60501 STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 70501) Course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60502 GLOBAL GOVERNANCE 3 Credit Hours
(Slashed with POL 70502) Course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process, including nation-states, intergovernmental organizations and nongovernmental organizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60503 FOREIGN POLICY ANALYSIS 3 Credit Hours
(Slashed with POL 70503) Course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis and policy domains.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60507 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours
(Cross-listed with PACS 60070)(Slashed with POL 70507) Throughout the past 30 years, many states and societies have negotiated complicated transitions from authoritarianism, widespread human rights violations and intractable civil conflict toward various degrees of justice, truth-telling, reconciliation and democracy. Some have done it well and some have not; policy certainly matters in this politically potent arena. For example, political memory and accountability may be swept under the public rug—doing so may, or may not, trip up an experiment in democracy. Alternatively, truth-telling and justice may, or may not, be a springboard for reconciliation, healing and citizen empowerment. In this course, we focus on the policies and mechanisms used to constructively confront impunity and come to terms with past horrors. We analyze various international institutions like war crimes tribunals and truth commissions and various local mechanisms like Rwanda's Gacaca courts. We also study the differing roles of reparations paid to victims for past injustices, amnesties granted to former government officials, immunity being traded for truth-telling about the past and the impacts of commemoration and memorialization.
Prerequisite: POL 60501; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60510 POLITICS OF DEVELOPMENT 3 Credit Hours
(Slashed with POL 70510) Course surveys the scholarship on political development, examining the ways in which the conceptualization of development has evolved over time, looking specifically at institutionalization, state failure and the role of civil society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60591 SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours
(Repeatable for credit)(Slashed with POL 70591) Seminar on current and important topics in transnational and comparative politics and policy. Subject matter varies depending on the emerging issue.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 60901 FOUNDATIONS OF CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Cross-listed with PACS 60000) (Slashed with POL 70901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60902 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours
(Cross-listed with PACS 60021)(Slashed with POL 70902) Examines power disparities and gender as sources of conflict in multiple arenas —including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphases is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60903 IDENTITY DRIVEN CONFLICTS 3 Credit Hours
(Cross-listed with PACS 60020)(Slashed with POL 70903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60904 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours
(Cross-listed with PACS 60022)(Slashed with POL 70904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60906 POLITICAL VIOLENCE 3 Credit Hours
(Slashed with POL 70906) Examines the dynamics, networks, interests and resource mobilization underlying state-sponsored political violence, focusing on “low-intensity conflict” and counter-insurgency, paramilitarism and genocide. Of special interest is the relationship of the state to various non-state actors, both perpetrators and victims, and the role of the international community in domestic-level violence.
Prerequisite: POL 60501 or POL 60901; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60907 TERRORISM AND HUMAN RIGHTS 3 Credit Hours
(Slashed with POL 70907) Examines how governments try to adhere to the rule of law in managing terrorist threats in a post 9-11 era, striking a balance between the competing demands of public safety, personal freedom and human rights. Topics include understanding terrorism as a problem for western governments, the rule of law and human rights.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 60991 SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Repeatable for credit) (Slashed with POL 70991) Seminar on current and important topics in conflict analysis and management. Course may be repeated for credit toward a degree with departmental approval.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 61094 COLLEGE TEACHING IN POLITICAL SCIENCE 1 Credit Hour
(Repeatable for credit)(Slashed with POL 71094) Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum 4 credit hours applicable toward a degree with graduate studies committee approval.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

POL 61098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credit hours may be applied toward meeting degree requirements with department approval and when a letter grade is given.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

POL 61199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

POL 61299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: POL 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

POL 69091 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours
(Repeatable for credit) (Slashed with POL 79091) Focuses on select topics in quantitative methods, including limited and categorical dependent variables, hierarchical linear models, panel data, structural equation modeling and Q Methodology. More than one seminar may be offered.
Prerequisite: POL 60004; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 69095 SPECIAL TOPICS IN POLITICAL SCIENCE AND PUBLIC POLICY 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)(Slashed with POL 79095) Topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70002 SCOPE AND EPISTEMOLOGY 3 Credit Hours
(Slashed with POL 60002) Introduces students to the philosophy of science and scientific inquiry within the context of the social sciences. Course presents a broad survey of leading paradigms and debates within political science.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70003 QUANTITATIVE METHODS I 3 Credit Hours
(Slashed with POL 60003) Provides a selective introduction to basic quantitative methods for the analysis of political and public policy data dealing with basic descriptive and inferential statistics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70004 QUANTITATIVE METHODS II 3 Credit Hours
(Slashed with POL 60004) Introduces students to multivariate quantitative techniques appropriate for the analysis of political and public policy data.
Prerequisite: POL 70003; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70010 QUALITATIVE RESEARCH METHODS 3 Credit Hours
(Slashed with POL 60010) Introduces the principles and methods of qualitative research, examining the place of qualitative research alongside discussions about positivist, interpretivist and critical approaches. A variety of qualitative research methods are introduced including social observation and ethnography, interviewing, discourse analysis, oral history, document analysis, historical analysis and case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70091 VARIABLE TOPIC SEMINAR 3 Credit Hours
(Slashed with POL 40091 and 50091) Variable topic seminar in political science.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70101 STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 60101) Course provides a broad survey of the policy-making process in the U.S. government. Coverage includes formal government structures, as well as more informal networks of private groups that seek to influence public policy at the national level.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70102 AMERICAN POLICY PROCESS 3 Credit Hours
(Slashed with POL 60102) Course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation implementation and evaluation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70103 CONGRESS, THE PRESIDENCY AND THE COURTS 3 Credit Hours
(Slashed with POL 60103) Focuses on the three branches of the U.S. government, specifically Congress, the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70106 URBAN POLICY AND POLITICS 3 Credit Hours
(Slashed with POL 60106) Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policymaking.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70108 AMERICAN POLITICAL BEHAVIOR 3 Credit Hours
(Slashed with POL 60108) Explores scholarship on the behavior of non-elite political actors, including various forms of electoral participation, voting, psychological attachment, affect, cognition, perception, attitude and belief. Additional topics include ethnic, racial and gender politics; political participation; voting choice; political psychology; politics and networks; macro politics; and connecting individual-level and macro-level findings with democratic outcomes and citizen capacity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70191 SEMINAR IN AMERICAN POLITICS AND POLICY 3 Credit Hours
(Repeatable for credit) (Slashed with POL 60191) Seminar on current and important topics in American politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 70195 SPECIAL TOPICS IN PUBLIC ADMINISTRATION 3 Credit Hours
(Repeatable for maximum 12 credit hours)(Slashed with PADM 60195) Topic varies per course offerings.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70198 RESEARCH IN PUBLIC ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward a degree with department approval.
Prerequisite: Political science major; and doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

POL 70371 GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours
(Slashed with PADM 60371) Introductory course to the theory and study of public administration. Topics include evolution and characteristics of the modern nation state; core functions of public bureaucracy in any nation state; intergovernmental relations; formal and informal institutions and their role in policy; legal-regulatory processes; historical evolution of public administration as an academic field; and major paradigms in organization theory and internal organizational dynamics.
Prerequisite: Political science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70377 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT 3 Credit Hours
(Slashed with PADM 60377) Focuses on two aspects of public financial analysis: budgeting and financial management. The topics in budgeting are the basic purposes of budgets as mechanisms of resource control and allocation, and as legal documents; distinct budget formats and cross-walking of formats; budget preparation; legislative review; implementation and auditing. The topics in financial management are the mechanisms and tools for financing public operations, debt management, fund accounting, analyzing budgets and forecasting.
Prerequisite: Political Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70379 PROGRAM EVALUATION I 3 Credit Hours
(Slashed with PADM 60379) Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and specifically the techniques utilized under different evaluation formats.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70386 PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT 3 Credit Hours
(Slashed with PADM 60386) Management of information technology systems in the public sector. Specific focus on: planning and acquisition of hardware and software and networking technologies, organizational governance and implementation, information security and privacy, legal requirements, IT service delivery and emerging enterprise technologies.
Prerequisite: Political Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70387 ELECTRONIC GOVERNANCE 3 Credit Hours
(Slashed with PADM 60387) An introduction to electronic governance with an emphasis on public administration. Examines the implications of information and communication technology in public organizations with regard to democracy, civic engagement and performance improvement. Through case studies from the United States and across the world, students become familiar with the factors and issues surrounding the implementation of electronic governance on a comparative basis.
Prerequisite: Political Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70392 INTERNSHIP IN PUBLIC ADMINISTRATION 3 Credit Hours
(Repeatable for credit) Provides an opportunity for students to gain practical experience and be exposed to processes of public decision making and policy development.
Prerequisite: Political Science major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

POL 70470 PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE 3 Credit Hours
(Slashed with PADM 60470) Focus is on students internalizing their role in the public service as stewards of the public trust. Topics covered include dimensions of stewardship: maintaining personal honor, protecting the liberty and dignity of the citizen, dimensions of justice, anti-corruption, incorporating principles of stewardship in their personal decision making and throughout the organization.
Prerequisite: Political Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70471 NONPROFIT LAW 3 Credit Hours
(Slashed with PADM 60471) Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax-exempt status, basic requirements for establishing and operating nonprofit organizations specifically in Ohio.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70472 NONPROFIT BOARD-EXECUTIVE RELATIONS 3 Credit Hours
(Slashed with PADM 60472) Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities and governance structures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70475 CAPSTONE SEMINAR 3 Credit Hours
(Repeatable for credit) Students complete an approved, written project that is analytical and research-based.
Prerequisite: Political Science major; and doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

POL 70477 NONPROFIT FINANCIAL RESOURCE DEVELOPMENT 3 Credit Hours
(Slashed with PADM 60477) Successful strategies for fundraising and resource development for nonprofit organizations. Students are exposed to fundraising in practice and write a resource development plan.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70501 STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 60501) Course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70502 GLOBAL GOVERNANCE 3 Credit Hours
(Slashed with POL 60502) Course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process, including nation-states, intergovernmental organizations and nongovernmental organizations.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70503 FOREIGN POLICY ANALYSIS 3 Credit Hours
(Slashed with POL 60503) Course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis and policy domains.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70507 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours
(Slashed with PACS 60070 and POL 60507) Throughout the past 30 years, many states and societies have negotiated complicated transitions from authoritarianism, widespread human rights violations and intractable civil conflict toward various degrees of justice, truth-telling, reconciliation and democracy. Some have done it well and some have not; policy certainly matters in this politically potent arena. For example, political memory and accountability may be swept under the public rug—doing so may, or may not, trip up an experiment in democracy. Alternatively, truth-telling and justice may, or may not, be a springboard for reconciliation, healing and citizen empowerment. In this course, we focus on the policies and mechanisms used to constructively confront impunity and come to terms with past horrors. We analyze various international institutions like war crimes tribunals and truth commissions and various local mechanisms like Rwanda's Gacaca courts. We also study the differing roles of reparations paid to victims for past injustices, amnesties granted to former government officials, immunity being traded for truth-telling about the past and the impacts of commemoration and memorialization.
Prerequisite: POL 70501; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70510 POLITICS OF DEVELOPMENT 3 Credit Hours
(Slashed with POL 60510) Course surveys the scholarship on political development, examining the ways in which the conceptualization of development has evolved over time, looking specifically at institutionalization, state failure and the role of civil society.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70574 STRATEGIC PLANNING 3 Credit Hours
(Slashed with PADM 60574) Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70591 SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours
(Slashed with POL 60591) (Repeatable for credit) Seminar on current and important topics in transnational and comparative politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 70901 FOUNDATIONS OF CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Slashed with PACS 60000 and POL 60901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70902 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours
(Slashed with PACS 60021 and POL 60902) Examines power disparities and gender as sources of conflict in multiple arenas—including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphases is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70903 IDENTITY DRIVEN CONFLICTS 3 Credit Hours
(Slashed with PACS 60020 and POL 60903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70904 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours
(Slashed with PACS 60022 and POL 60904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70906 POLITICAL VIOLENCE 3 Credit Hours
(Slashed with POL 60906) Examines the dynamics, networks, interests and resource mobilization underlying state-sponsored political violence, focusing on "low-intensity conflict" and counter-insurgency, paramilitarism and genocide. Of special interest is the relationship of the state to various non-state actors, both perpetrators and victims, and the role of the international community in domestic-level violence.
Prerequisite: POL 70501 or POL 70901; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70907 TERRORISM AND HUMAN RIGHTS 3 Credit Hours
(Slashed with POL 60907) Examines how governments try to adhere to the rule of law in managing terrorist threats in a post 9-11 era, thus striking a balance between the competing demands of public safety, personal freedom, and human rights. Topics include understanding terrorism as a problem for western governments, the rule of law, and human rights.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 70991 SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Repeatable for credit) (Slashed with POL 60991) Seminar on current and important topics in conflict analysis and management. Course may be repeated for credit toward a degree with departmental approval.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 71094 COLLEGE TEACHING IN POLITICAL SCIENCE 1 Credit Hour
(Repeatable for credit)(Slashed with POL 61094) Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum 4 credit hours applicable toward a degree with graduate studies committee approval.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

POL 79091 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours
(Repeatable for credit) (Slashed with POL 69091) Focuses on select topics in quantitative methods, including limited and categorical dependent variables, hierarchical linear models, panel data, structural equation modeling and Q Methodology. More than one seminar may be offered.
Prerequisite: POL 70004; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

POL 79095 SPECIAL TOPICS IN POLITICAL SCIENCE AND PUBLIC POLICY 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)(Slashed with POL 69095) Topic varies per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

POL 81098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if department approves and when letter grade is given.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

POL 81199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration during at least two semesters is required, and the first of which is the semester during which dissertation work begins and continues until the completion of 30 credit hours. Doctoral students must complete a minimum of 30 credit hours post-master's (or equivalent advanced degree) or a minimum of 60 credit hours post-bachelor's to receive special approval to enroll in POL 81199.
Prerequisite: Political Science major; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

POL 81299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required for doctoral students who have completed the initial 30 credit hours of POL 81199 and continuing until all degree requirements are met.
Prerequisite: 30 credit hours of POL 81199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Public Administration (PADM)

PADM 60195 SPECIAL TOPICS IN PUBLIC ADMINISTRATION 3 Credit Hours
(Repeatable for credit) (Cross-listed with POL 70195) Topic varies per course offerings.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60198 RESEARCH IN PUBLIC ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward a degree with department approval.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

PADM 60200 NONPROFIT ADVOCACY 3 Credit Hours
This course explores the U.S. public-policy making process as it applies to nonprofit organizations. Nonprofits influence policy making or "advocacy" through a variety of methods, such as lobbying, campaigning, protesting, and policy monitoring. The course explores how nonprofit organizations both shape and are shaped by public policy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60310 LEADERSHIP IN THE NONPROFIT AND PUBLIC SECTOR 3 Credit Hours
This course teaches students theory, practice, and skills for leading non-profit and public organizations. Topics include: organizational theory and behavior; organizational culture; integrity and ethics; group dynamics; conflict management; and creating an environment that promotes diversity and inclusion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60371 GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours
(Cross-listed with POL 70371) Introductory course to the theory and study of public administration. Topics include evolution and characteristics of the modern nation state; core functions of public bureaucracy in any nation state; intergovernmental relations; formal and informal institutions and their role in policy; legal-regulatory processes; historical evolution of public administration as an academic field; and major paradigms in organization theory and internal organizational dynamics.
Prerequisite: Public administration major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60375 PUBLIC PERSONNEL ADMINISTRATION 3 Credit Hours
Study of public personnel systems, including underlying system values and current problems with emphasis on skill development and understanding of techniques for public personnel managers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60376 LABOR MANAGEMENT RELATIONS IN THE PUBLIC SECTOR 3 Credit Hours
This course focuses on issues peculiar to public sector labor relations, including the impact of public employee unionism on traditional merit systems and personnel policy decision processes.
Prerequisite: PADM 60375; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60377 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT 3 Credit Hours
(Cross-listed with POL 70377) Focuses on two aspects of public financial analysis: budgeting and financial management. The topics in budgeting are the basic purposes of budgets as mechanisms of resource control and allocation, and as legal documents; distinct budget formats and cross-walking of formats; budget preparation; legislative review; implementation and auditing. The topics in financial management are the mechanisms and tools for financing public operations, debt management, fund accounting, analyzing budgets and forecasting.
Prerequisite: Public administration major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60379 PROGRAM EVALUATION I 3 Credit Hours
(Cross-listed with POL 70379) Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and specifically the techniques utilized under different evaluation formats.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60381 METHODS IN PUBLIC ADMINISTRATION 3 Credit Hours
This course is a graduate-level introduction to statistical methods and their use in public administration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60382 SEMINAR IN PUBLIC ADMINISTRATION 3 Credit Hours
Study of selected problem areas in public service organizations with emphasis on understanding the factors contributing to them, their solution and literature bearing on the problems.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60386 PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT 3 Credit Hours
(Cross-listed with POL 70386) Management of information technology systems in the public sector. Specific focus on: planning and acquisition of hardware and software and networking technologies, organizational governance and implementation, information security and privacy, legal requirements, IT service delivery and emerging enterprise technologies.
Prerequisite: Public administration major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60387 ELECTRONIC GOVERNANCE 3 Credit Hours
(Slashed with POL 70387) An introduction to electronic governance with an emphasis on public administration. Examines the implications of information and communication technology in public organizations with regard to democracy, civic engagement and performance improvement. Through case studies from the United States and across the world, students become familiar with the factors and issues surrounding the implementation of electronic governance on a comparative basis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60392 INTERNSHIP IN PUBLIC ADMINISTRATION 3 Credit Hours
(Repeatable for credit)Provides an opportunity for students to gain practical experience and be exposed to processes of public decision making and policy development.
Prerequisite: Public administration major; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

PADM 60470 PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE 3 Credit Hours
(Cross-listed with POL 70470) Focus is on students internalizing their role in the public service as stewards of the public trust. Topics covered include dimensions of stewardship: maintaining personal honor, protecting the liberty and dignity of the citizen, dimensions of justice, anti-corruption, incorporating principles of stewardship in their personal decision making and throughout the organization.
Prerequisite: Public administration major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60471 NONPROFIT LAW 3 Credit Hours
(Cross-listed with POL 70471) Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax exempt status, basic requirements for establishing/operating nonprofit organizations specifically in Ohio.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60472 NONPROFIT BOARD EXEC RELATIONS 3 Credit Hours
(Cross-listed with POL 70472) Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities and governance structures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60477 NONPROFIT FINANCIAL RESOURCE DEVELOPMENT 3 Credit Hours
(Cross-listed with POL 70477) Successful strategies for fundraising and resource development for nonprofit organizations. Students are exposed to fundraising in practice and write a resource development plan.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PADM 60499 PORTFOLIO AND CAPSTONE 3 Credit Hours
During this culminating semester of the M.P.A. program, students engage in three key activities to demonstrate their comprehensive understanding and skills developed throughout the course. These activities include: (1) craft a reflective capstone paper that describes the skills and expertise gained throughout M.P.A. courses and link them to core competencies, (2) compile a portfolio showcasing their most significant works from the core M.P.A. courses, representing their proficiency in each of the five main competencies, and (3) complete an online exit survey as a formal conclusion to the M.P.A. program.
Prerequisite: Public Administration major; and graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

PADM 60574 STRATEGIC PLANNING 3 Credit Hours
(Cross-listed with POL 70574) Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Columbus Program in State Issues

College of Arts and Sciences
Department of Political Science
www.kent.edu/polisci

About This Program

Immerse yourself in the heart of Ohio's policymaking with the Columbus Program in State Issues. This selective, semester-long experience places students from all majors into tailored internships in Columbus, offering firsthand exposure to state government operations and professional networking opportunities. Live steps from the Statehouse, attend briefings with influential leaders and build career-ready skills in a dynamic, real-world setting. Read more...

Contact Information

- **Sarah Schmidt** | sschmi16@kent.edu | 330-672-2062
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Columbus

Admission Requirements

Admission to the program is open to students from all academic disciplines who have completed a minimum 45 credit hours of college coursework with a minimum 2.500 overall GPA.

Program Requirements

Code	Title	Credit Hours
Program Requirements		
POL 41990	COLUMBUS PROGRAM IN STATE ISSUES (ELR)	15
Minimum Total Credit Hours:		**15**

[1] Students receive 15 credit hours of academic credit, broken down as follows: 6 credit hours for attending regular briefings; 6 credit hours for completing an internship in Columbus; and 3 credit hours for completing the requirements while residing in Columbus.

Program Learning Outcomes

Completers of this program will be able to:

1. Master the protocol of state government processes.
2. Be competent in analyzing, monitoring and promoting policy.
3. Establish professional networks that will launch their careers in public service, advocacy, lobbying or related endeavors.

Full Description

The Columbus Program in State Issues provides students the opportunity to experience firsthand the public policy making process in Ohio's state capital while earning a full semester's credit toward graduation. The program is a unique learning community and requires full-time residence in Columbus during the fall semester. The program is offered, in part, with the cooperation of Kent State alumni living and working in the greater Columbus area and, thus, offers students excellent career networking opportunities.

Global Issues - Undergraduate Certificate

College of Arts and Sciences
Department of Political Science
www.kent.edu/polisci

About This Program

The Global Issues undergraduate certificate program explores critical global issues and develops valuable skills to make a difference in our interconnected world. Read more...

Contact Information

- **Mike Ensley, Ph.D.** | mensley@kent.edu
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
POL 30820	INTERNATIONAL ORGANIZATION AND LAW	3
or POL 43003	GOOD GOVERNANCE AND SUSTAINABLE DEVELOPMENT	
POL 43499	CAPSTONE IN GLOBAL ISSUES (ELR)	1
Global Issues Elective, choose from the following:		3
ESCI 43001	WICKED PROBLEMS: TACKLING GLOBAL ISSUES IN THE 21ST CENTURY	
or GEOG 43070	WICKED PROBLEMS: TACKLING GLOBAL ISSUES IN THE 21ST CENTURY	
or POL 43001	WICKED PROBLEMS: TACKLING GLOBAL ISSUES IN THE 21ST CENTURY	
POL 40540	POLITICS OF DEVELOPMENT (DIVG)	
Certificate Electives, choose from the following: [1]		9
ENVS 22070	NATURE AND SOCIETY (KSS)	
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	
ESCI 21080	ALL ABOUT THE OCEANS (KBS)	
ESCI 33025	WATER AND THE ENVIRONMENT	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 41066	GLOBAL CLIMATE CHANGE	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 46060	FOOD SECURITY AND SUSTAINABILITY	
GEOG 46080	URBAN SUSTAINABILITY	
INTS 30101	WORLDS OF WEALTH AND POWER	
INTS 30301	HUMAN SECURITY	
INTS 30501	ORDER AND RESISTANCE	
INTS 40560	HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG)	
or POL 40560	HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG)	
PACS 31002	GENDER, POWER AND CONFLICT	
PACS 32030	INTERNATIONAL CONFLICT RESOLUTION (DIVG)	
PACS 35050	ENVIRONMENTAL CONFLICT RESOLUTION	
or POL 30350	ENVIRONMENTAL CONFLICT RESOLUTION	
POL 10500	WORLD POLITICS (DIVG) (KSS)	
POL 30810	POLITICS OF THE GLOBAL ECONOMY	
POL 40440	U.S. ENVIRONMENTAL POLITICS AND POLICIES	
POL 40589	INTERNATIONAL EXPERIENCE (DIVG) (ELR)	
POL 43002	THE POLITICS OF INEQUALITY	
Minimum Total Credit Hours:		**16**

[1] Certificate electives must be from at least two different disciplines.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Communicate the basic concepts of sustainable development policy approaches to global issues and their relevance to the student's major field of study.
2. Articulate the importance of international cooperation for addressing global issues.
3. Articulate the importance of strong local, national and international public institutions for addressing global issues.

Full Description

The Global Issues undergraduate certificate examines a range of global issues through the framework of sustainable development, an approach to public policy-making that meets the needs of the present without compromising the ability of future generations to meet their own needs.

Sustainable development policies seek to address the world's most pressing "wicked problems" through cooperative action as a global community. Examples include poverty, hunger, inequality, access to education, health and well-being, climate change and sustainable communities. The certificate is an excellent complement to any major and enables students to more fully understand how their major field of study can have a positive impact on the world around them.

Nonprofit Management - Graduate Certificate

College of Arts and Sciences
Department of Political Science
www.kent.edu/polisci

About This Program

The Nonprofit Management graduate certificate prepares graduates to work in the management and administrative positions in nonprofit organizations across a range of industries. Students acquire basic management skills, as well as applied skills specific to the nonprofit

sector, which may include fundraising, executive board relations, policy advocacy and nonprofit law.

Prospective employers are nonprofit sector organizations as well as private and public sector organizations that frequently interact with nonprofit organizations.

Contact Information

- **Daniel E. Chand** | dchand@kent.edu | 330-672-8939
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Chief executives

- -10.0% decline
- 287,900 number of jobs
- $185,950 potential earnings

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

General and operations managers

- 5.8% faster than the average
- 2,486,400 number of jobs
- $103,650 potential earnings

Medical and health services managers

- 31.5% much faster than the average
- 422,300 number of jobs
- $104,280 potential earnings

Public relations and fundraising managers

- 9.2% much faster than the average
- 88,000 number of jobs
- $118,430 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Writing sample
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
Certificate Electives, choose from the following:		9
PADM 60200	NONPROFIT ADVOCACY	
PADM 60310	LEADERSHIP IN THE NONPROFIT AND PUBLIC SECTOR	
PADM 60471	NONPROFIT LAW	
PADM 60472	NONPROFIT BOARD EXEC RELATIONS	
PADM 60477	NONPROFIT FINANCIAL RESOURCE DEVELOPMENT	
Public Management Concept and Skill Elective, choose from the following:		3
PADM 60371	GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION	
PADM 60375	PUBLIC PERSONNEL ADMINISTRATION	
PADM 60377	PUBLIC BUDGETING AND FINANCIAL MANAGEMENT	
PADM 60379	PROGRAM EVALUATION I	
PADM 60470	PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE	
PADM 60574	STRATEGIC PLANNING	
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate competence in management skills related to the nonprofit sector, which may include nonprofit law, leadership skills, advocacy and grant writing.

Political Science - B.A.

College of Arts and Sciences
Department of Political Science
www.kent.edu/polisci

About This Program

The Bachelor of Arts in Political Science offers a broad understanding of the political system, both domestically and internationally. With a flexible curriculum, knowledgeable faculty and experiential learning opportunities, you will be equipped with the skills needed for a wide range of careers in the field. Read more...

Contact Information

- **Mike Ensley** | mensley@kent.edu | 330-672-8933
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Political scientists

- 6.1% faster than the average
- 7,000 number of jobs
- $125,350 potential earnings

Social science research assistants

- 5.8% faster than the average
- 40,100 number of jobs
- $49,210 potential earnings

Political science teachers, postsecondary

- 4.9% about as fast as the average
- 19,800 number of jobs
- $85,760 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or POL 10500	WORLD POLITICS (DIVG) (KSS)	
POL 10100	AMERICAN POLITICS (DIVD) (KSS) [1]	3
or POL 10300	PUBLIC POLICY	
POL 30001	RESEARCH METHODS (ELR)	3
POL 30002	POLITICAL THOUGHT	3
or POL 30003	POLITICAL ECONOMY	
POL 40191	SEMINAR IN AMERICAN POLITICS (WIC) [2]	3
or POL 40391	SEMINAR IN PUBLIC POLICY (WIC)	
or POL 40591	SEMINAR IN INTERNATIONAL RELATIONS-COMPARATIVE POLITICS (WIC)	
Political Science (POL) Elective		3
Political Science (POL) Upper-Division Elective (30000 or 40000 level)		3
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional [1]		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		40
Concentrations		
Choose from the following:		15
American Politics		
General		
International Relations - Comparative Politics		
Public Policy		
Minimum Total Credit Hours:		**120**

1 Students who choose POL 10100 must take 3 credit hours of Kent Core Additional. Students who choose POL 10300 must take 6 credit hours of Kent Core Additional.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

American Politics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Concentration Electives, choose from the following:		15
POL 10200	INTRODUCTION TO THE AMERICAN LEGAL PROFESSION	
POL 30000	MAY 4 1970 AND ITS AFTERMATH	
POL 30100	AMERICAN POLITICAL THEORY	
POL 30110	THE CONGRESS	
POL 30120	PRESIDENCY AND EXECUTIVE BUREAUCRACY	
POL 30130	THE JUDICIAL PROCESS	
POL 30430	OHIO POLITICS	
POL 30450	URBAN POLITICS AND POLICY	
POL 30460	STATE POLITICS AND POLICY	
POL 40112	POLITICS AND THE MASS MEDIA	
POL 40116	PUBLIC OPINION AND POLITICAL BEHAVIOR	
POL 40118	POLITICAL PARTIES AND INTEREST GROUPS	
POL 40182	CONSTITUTIONAL LAW: GOVERNMENTAL STRUCTURES AND FUNCTIONS	
POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
POL 40440	U.S. ENVIRONMENTAL POLITICS AND POLICIES	
POL 40450	HEALTH CARE AND SOCIAL POLICY	
POL 40470	WOMEN, POLITICS AND POLICY (DIVD)	
POL 40620	POLITICS OF SOCIAL MOVEMENTS (DIVD)	
POL 40930	U.S. FOREIGN POLICY	
Minimum Total Credit Hours:		**15**

General Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Political Science (POL) Upper-Division Electives (30000 or 40000 level)		15
Minimum Total Credit Hours:		**15**

International Relations - Comparative Politics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Concentration Electives, choose from the following:		15
POL 30500	INTERNATIONAL RELATIONS THEORY	
POL 30520	EUROPEAN POLITICS (DIVG)	
POL 30530	ASIAN POLITICS (DIVG)	
POL 30540	AFRICAN POLITICS (DIVG)	
POL 30550	LATIN AMERICAN POLITICS (DIVG)	
POL 30560	MIDDLE EAST POLITICS (DIVG)	
POL 30570	PALESTINE AND ISRAEL (DIVG)	
POL 30810	POLITICS OF THE GLOBAL ECONOMY	
POL 30820	INTERNATIONAL ORGANIZATION AND LAW	
POL 30840	NONGOVERNMENTAL ORGANIZATIONS	
POL 40530	POLITICS OF WAR	
POL 40540	POLITICS OF DEVELOPMENT (DIVG)	
POL 40560	HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG)	
POL 40620	POLITICS OF SOCIAL MOVEMENTS (DIVD)	
POL 40840	COMPARATIVE FOREIGN POLICY	
POL 40930	U.S. FOREIGN POLICY	
Minimum Total Credit Hours:		**15**

Public Policy Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Concentration Electives, choose from the following:		15
POL 10200	INTRODUCTION TO THE AMERICAN LEGAL PROFESSION	
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION	
POL 30350	ENVIRONMENTAL CONFLICT RESOLUTION	
POL 30430	OHIO POLITICS	

POL 30450	URBAN POLITICS AND POLICY
POL 30460	STATE POLITICS AND POLICY
POL 30810	POLITICS OF THE GLOBAL ECONOMY
POL 30820	INTERNATIONAL ORGANIZATION AND LAW
POL 30840	NONGOVERNMENTAL ORGANIZATIONS
POL 40320	ETHICS AND PUBLIC POLICY
POL 40440	U.S. ENVIRONMENTAL POLITICS AND POLICIES
POL 40450	HEALTH CARE AND SOCIAL POLICY
POL 40470	WOMEN, POLITICS AND POLICY (DIVD)
POL 40840	COMPARATIVE FOREIGN POLICY
POL 40930	U.S. FOREIGN POLICY
Minimum Total Credit Hours:	**15**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
POL 10100 or POL 10300	AMERICAN POLITICS (DIVD) (KSS) or PUBLIC POLICY	3
UC 10001	FLASHES 101	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
POL 10004 or POL 10500	COMPARATIVE POLITICS (DIVG) (KSS) or WORLD POLITICS (DIVG) (KSS)	3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
POL 30002 or POL 30003	POLITICAL THOUGHT or POLITICAL ECONOMY	3
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
Concentration Electives		6
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
POL 30001	RESEARCH METHODS (ELR)	3
Concentration Electives		6
General Electives		6
	Credit Hours	**15**
Semester Six		
Political Science (POL) Elective		3
Concentration Elective		3
Kent Core Requirement or General Elective		3
General Electives		6
	Credit Hours	**15**
Semester Seven		
Political Science (POL) Upper-Division Elective (30000 or 40000 level)		3
General Electives		12
	Credit Hours	**15**
Semester Eight		
POL 40191 or POL 40391 or POL 40591	SEMINAR IN AMERICAN POLITICS (WIC) or SEMINAR IN PUBLIC POLICY (WIC) or SEMINAR IN INTERNATIONAL RELATIONS-COMPARATIVE POLITICS (WIC)	3

General Electives	12
Credit Hours	**15**
Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate critical thinking and analysis skills.
2. Demonstrate advanced written and oral communication skills.
3. Demonstrate advanced understanding of national and international issues and political systems.
4. Demonstrate multicultural literacy.
5. Demonstrate competence with quantitative statistical and qualitative analysis tools.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Political Science empowers students to be engaged global citizens and informed consumers of information who are competitive in a range of careers. Graduates work in the public and private sectors across the United States and around the globe. Many also go on to graduate programs or to law school.

Students in the major are provided internship and study abroad opportunities, including two semester-long, 15-credit hour internship programs, one in Washington, D.C., and one in Columbus, Ohio. In addition, the Department of Political Science offers study abroad courses in multiple countries during the summer, and students often also take advantage of Kent State programs in Florence, Italy, and Geneva, Switzerland. More information can be found on the Department of Political Science website.

The Political Science major comprises the following concentrations:

- The **American Politics** concentration investigates the political context of life in the United States in courses on public opinion, elections and the media, as well as Congress, the presidency and the courts.
- The **International Relations-Comparative Politics** concentration focuses on international policy and politics, including aid and development, energy and oil, human rights and regions of the world (e.g., Latin America, Middle East, Russia).
- The **General** concentration allows students to design their own specialization rather than choosing a specific area to concentrate.
- The **Public Policy** concentration explores how governments address major policy questions such as health care, environmental protection and foreign policy. Courses introduce students not only to policy questions and implications, but also to the skills involved in policy analysis.

Political Science - M.A.

College of Arts and Sciences
Department of Political Science

www.kent.edu/polisci

About This Program

The Master of Arts in Political Science offers a deeper understanding of the field, with opportunities for specialized study and research. With experienced faculty and a supportive community of scholars, you will be prepared for a variety of career paths, including teaching, research and public service. Read more...

Contact Information

- **Ryan Claassen** | rclaasse@kent.edu | 330-672-2060
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Political science teachers, postsecondary

- 4.9% about as fast as the average
- 19,800 number of jobs
- $85,760 potential earnings

Political scientists

- 6.1% faster than the average
- 7,000 number of jobs
- $125,350 potential earnings

Social sciences teachers, postsecondary, all other

- -0.3% little or no change
- 19,300 number of jobs
- $69,340 potential earnings

Social science research assistants

- 5.8% faster than the average
- 40,100 number of jobs
- $49,210 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Social scientists and related workers, all other

- 0.8% little or no change
- 38,800 number of jobs
- $87,260 potential earnings

Legislators

- 6.2% faster than the average
- 53,700 number of jobs
- $33,200 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or curriculum vitae with cover letter
- Goal statement
- Writing sample
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: February 15
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
POL 60002	SCOPE AND EPISTEMOLOGY	3
POL 60003	QUANTITATIVE METHODS I	3
POL 60010	QUALITATIVE RESEARCH METHODS	3
Culminating Requirement		
Non-Thesis or Thesis Option, choose from the following: [1]		9

Non-Thesis Option		
POL 60099	CAPSTONE SEMINAR	
Electives (6 credit hours)		
Thesis Option		
POL 61199	THESIS I	
Elective (3 credit hours)		
Concentrations		
Choose from the following:		12
American Politics and Policy		
Conflict Analysis and Management		
Transnational and Comparative Politics		
Minimum Total Credit Hours:		**30**

[1] Students intending to pursue a Ph.D. degree are advised to choose the thesis option

American Politics and Policy Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
POL 60101	STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY	3
Concentration Electives, choose from the following:		9
POL 60102	AMERICAN POLICY PROCESS	
POL 60103	CONGRESS, THE PRESIDENCY AND THE COURTS	
POL 60106	URBAN POLICY AND POLITICS	
POL 60108	AMERICAN POLITICAL BEHAVIOR	
POL 60191	SEMINAR IN AMERICAN POLITICS AND POLICY	
Advisor-Approved Electives		
Minimum Total Credit Hours:		**12**

Conflict Analysis and Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
POL 60901	FOUNDATIONS OF CONFLICT ANALYSIS AND MANAGEMENT	3
Concentration Electives, choose from the following:		9
POL 60507	CONFLICT TRANSFORMATION AND RECONCILIATION	
POL 60902	POWER, CONFLICT AND THE POLITICS OF GENDER	
POL 60903	IDENTITY DRIVEN CONFLICTS	
POL 60904	SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS	
POL 60906	POLITICAL VIOLENCE	
POL 60907	TERRORISM AND HUMAN RIGHTS	
POL 60991	SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT	
Advisor-Approved Electives		
Minimum Total Credit Hours:		**12**

Transnational and Comparative Politics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
POL 60501	STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY	3
Concentration Electives, choose from the following:		9
POL 60502	GLOBAL GOVERNANCE	
POL 60503	FOREIGN POLICY ANALYSIS	
POL 60510	POLITICS OF DEVELOPMENT	
POL 60591	SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY	
Advisor-Approval Electives		
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Minimum 30 credit hours required for graduation
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the theoretical underpinnings of political science and be able to address real world issues and problems.
2. Attain research and methodological skills that will further their research and make them attractive to future employers.
3. Effectively communicate research findings and implications to a range of audiences including scholars, practitioners and citizens.

Full Description

The Master of Arts degree in Political Science focuses broadly on the dynamics surrounding representation, equity, conflict, human rights, development and conflict resolution. Students delve into the scholarship on these dynamics (among others) in an interdisciplinary and theoretically sophisticated way, thinking about how the political process and government policy-making affect the lives of citizens, and how citizens influence those processes.

The Political Science major comprises the following concentrations:

- American Politics and Policy
- Conflict Analysis and Management
- Transnational and Comparative Politics

Political Science - Minor

College of Arts and Sciences
Department of Political Science
www.kent.edu/polisci

About This Program

The Political Science minor is for students who have an ongoing interest in politics — at the local, state, national or international level — but whose primary area of study does not allow a second major. Students study the general subject matter of political science and then advance to specialty areas that meet their own interests, needs and plans of study.

Contact Information

- **Mike Ensley** | mensley@kent.edu | 330-672-8933
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Code	Title	Credit Hours
Minor Requirements		
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or POL 10500	WORLD POLITICS (DIVG) (KSS)	
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
or POL 10300	PUBLIC POLICY	
Political Science (POL) Elective		3
Political Science (POL) Upper-Division Electives (30000 or 40000 level) [1]		12
Minimum Total Credit Hours:		**21**

[1] POL 40992, POL 41990 and POL 42990 may be applied to meet the upper-division hour requirement. POL 40995 may be applied toward the upper-division hour requirement as approved by the department. POL 40996 may **not** be applied toward the upper-division hour requirement.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or POL 10500	WORLD POLITICS (DIVG) (KSS)	
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
or POL 10300	PUBLIC POLICY	
Political Science (POL) Elective		3
Political Science (POL) Upper-Division Electives (30000 or 40000 level) [1]		12
Minimum Total Credit Hours:		**21**

[1] POL 40992, POL 41990 and POL 42990 may be applied to meet the upper-division hour requirement. POL 40995 may be applied toward the upper-division hour requirement as approved by the department. POL 40996 may **not** be applied toward the upper-division hour requirement.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Political Science - Ph.D.

College of Arts and Sciences
Department of Political Science
www.kent.edu/polisci

About This Program

The Political Science doctoral program provides in-depth knowledge and advanced research skills, preparing you for leadership positions in academia, research institutions and public service. With dedicated faculty and a supportive community of scholars, you will have access to opportunities for cutting-edge research and professional development. Read more...

Contact Information

- **Ryan Claassen** | rclaasse@kent.edu | 330-672-2060
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Political science teachers, postsecondary

- 4.9% about as fast as the average
- 19,800 number of jobs
- $85,760 potential earnings

Political scientists

- 6.1% faster than the average
- 7,000 number of jobs
- $125,350 potential earnings

Social science research assistants

- 5.8% faster than the average
- 40,100 number of jobs
- $49,210 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Social scientists and related workers, all other

- 0.8% little or no change
- 38,800 number of jobs
- $87,260 potential earnings

Legislators

- 6.2% faster than the average
- 53,700 number of jobs
- $33,200 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university
- Minimum 3.000 GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or curriculum vitae with cover letter
- Goal statement
- Writing sample
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: February 15
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
POL 70002	SCOPE AND EPISTEMOLOGY	3
POL 70003	QUANTITATIVE METHODS I	3
POL 70004	QUANTITATIVE METHODS II	3
POL 70010	QUALITATIVE RESEARCH METHODS	3
POL 71094	COLLEGE TEACHING IN POLITICAL SCIENCE	1
Additional Approved Electives for Post-Baccalaureate Students		0-23
Advanced Research Methods, choose from the following:		3
POL 70379	PROGRAM EVALUATION I	
POL 79091	SEMINAR IN QUANTITATIVE METHODS	
RMS 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
SBS 83011	QUALITATIVE DATA ANALYSIS	
SOC 72221	ADVANCED QUALITATIVE METHODS IN SOCIOLOGY	
Culminating Requirement		
POL 81199	DISSERTATION I [1]	30
Concentrations		
Choose two from the following: [2]		21
American Politics and Policy		
Conflict Analysis and Management		
Transnational and Comparative Politics		
Minimum Total Credit Hours for Post-Baccalaureate Students		**90**
Minimum Total Credit Hours for Post-Master's Students		**67**

[1] Dissertation is required. Doctoral students must complete additional approved electives, including research, to reach a minimum of 30 credit hours post-master's (or equivalent advanced degree) or a minimum of 60 credit hours post-bachelor's prior to enrolling in POL 81199. Upon completion of course requirements and candidacy exams, doctoral students must register for POL 81199 for two semesters for a total of 30 credit hours, and thereafter POL 81299, until all requirements for the degree have been met.

[2] Students select two concentrations. For the first concentration, students complete one Proseminar or Status of the Field course and three elective courses (12 credit hours). For the second concentration, students complete one Proseminar or Status of the Field course and two elective courses (9 credit hours).

American Politics and Policy Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
POL 70101	STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY	3

Concentration Electives, choose from the following:		6-9
POL 70102	AMERICAN POLICY PROCESS	
POL 70103	CONGRESS, THE PRESIDENCY AND THE COURTS	
POL 70106	URBAN POLICY AND POLITICS	
POL 70108	AMERICAN POLITICAL BEHAVIOR	
POL 70191	SEMINAR IN AMERICAN POLITICS AND POLICY	
Advisor-Approved Electives		
Minimum Total Credit Hours:		**9-12**

Conflict Analysis and Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
POL 70901	FOUNDATIONS OF CONFLICT ANALYSIS AND MANAGEMENT	3
Concentration Electives, choose from the following:		6-9
POL 70507	CONFLICT TRANSFORMATION AND RECONCILIATION	
POL 70902	POWER, CONFLICT AND THE POLITICS OF GENDER	
POL 70903	IDENTITY DRIVEN CONFLICTS	
POL 70904	SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS	
POL 70906	POLITICAL VIOLENCE	
POL 70907	TERRORISM AND HUMAN RIGHTS	
POL 70991	SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT	
Advisor-Approved Electives		
Minimum Total Credit Hours:		**9-12**

Transnational and Comparative Politics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
POL 70501	STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY	3
Concentration Electives, choose from the following:		6-9
POL 70502	GLOBAL GOVERNANCE	
POL 70503	FOREIGN POLICY ANALYSIS	
POL 70510	POLITICS OF DEVELOPMENT	
POL 70574	STRATEGIC PLANNING	
POL 70591	SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY	
Advisor-Approval Electives		
Minimum Total Credit Hours:		**9-12**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Passage of one field paper in the first area of concentration
- Written and oral defense of both a dissertation prospectus and dissertation

Residency Requirement

- Students must spend two consecutive semesters pursuing doctoral studies.

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the theoretical underpinnings of political science and be able to address real world issues and problems.
2. Attain research and methodological skills that will further their research and make them attractive to future employers.
3. Effectively communicate research findings and implications to a range of audiences including scholars, practitioners and citizens.

Full Description

The Ph.D. degree in Political Science prepares students for research and teaching careers in higher education and for research-based careers in fields that are focused on political, economic and social issues. The degree program is broadly focused on the dynamics surrounding representation, equity, conflict, human rights, development and conflict resolution. Students develop their own research questions in an interdisciplinary and theoretically sophisticated way. Students work with faculty mentors throughout their degree program and often develop and present their own research at regional or national conferences.

The Political Science major comprises the following concentrations, from which students select two:

- American Politics and Policy
- Conflict Analysis and Management
- Transnational and Comparative Politics

Pre-Law - Minor

College of Arts and Sciences
Department of Political Science
www.kent.edu/polisci

About This Program

Gain the foundational knowledge and skills needed to succeed in law school and beyond with our interdisciplinary Pre-Law minor. Explore legal theory, critical thinking and problem solving while building a strong foundation for a career in law. Read more...

Contact Information

- **Christopher Banks** | cbanks6@kent.edu | 330-672-0908
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**

- Kent Campus
- Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
PHIL 11009	CRITICAL THINKING (KADL)	3
or PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	
PLST 28001	LEGAL RESEARCH AND WRITING	3
POL 10200	INTRODUCTION TO THE AMERICAN LEGAL PROFESSION	3
POL 30130	THE JUDICIAL PROCESS	3
Humanities Elective, choose from the following:		3
ENG 30064	ARGUMENTATIVE PROSE WRITING	
HIST 30030	IDEAS IN ACTION: U.S. INTELLECTUAL HISTORY (DIVD)	
HIST 31082	HISTORY OF THE CIVIL RIGHTS AND BLACK POWER MOVEMENTS IN THE UNITED STATES	
PHIL 31035	PHILOSOPHY AND JUSTICE (DIVD)	
PHIL 41025	PHILOSOPHY OF LAW	
Legal Practice Skills Elective, choose from the following:		3
COMM 35464	ARGUMENTATION AND PERSUASIVE COMMUNICATION	
COMM 45807	HIGH IMPACT PROFESSIONAL SPEAKING	
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	
PACS 44040	NEGOTIATION	
PACS 48080	MEDIATION: THEORY AND TRAINING	
PLST 28004	CIVIL PROCEDURE	
PLST 38005	TORT LAW	
PLST 48002	CONTRACT LAW	
Social Science Electives, choose from the following:		6
COMM 45007	FREEDOM OF SPEECH	
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	
CRIM 33200	CRIMINAL LAW	
CRIM 34200	CRIMINAL PROCEDURES AND EVIDENCE	
CRIM 46200	CURRENT CONTROVERSIAL LEGAL ISSUES	
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	
FIN 36072	LAW OF COMMERCIAL TRANSACTIONS	
FIN 46072	BUSINESS FINANCIAL DISTRESS AND BANKRUPTCY	
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
MDJ 40006	LAW OF MEDIA AND JOURNALISM	
POL 30100	AMERICAN POLITICAL THEORY	
POL 40182	CONSTITUTIONAL LAW: GOVERNMENTAL STRUCTURES AND FUNCTIONS	
POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
PSYC 30111	FORENSIC PSYCHOLOGY	
SOC 32762	DEVIANT BEHAVIOR	
Minimum Total Credit Hours:		**24**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Maximum three courses applied toward a student's major may also be applied toward the Pre-Law minor.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Notes

- It is recommended that students pursuing the Pre-Law minor give strong consideration to the following courses in fulfillment of the Kent Core:
  - In the additional category: COMM 15000
  - In the humanities and fine arts category: AFS 23001, AFS 23002, COMM 26000, HIST 12070, HIST 12071
  - In the social sciences category: ECON 22061, POL 10100
- Students are strongly encouraged to consider prerequisites of advanced courses in the Pre-Law minor as they select their Kent Core courses.

Program Learning Outcomes

Graduates of this program will be able to:

1. Develop reading comprehension, analytical (critical thinking), oral advocacy and writing skills.
2. Formulate legal and public policy arguments and apply them to legal practice and alternative non-legal workspaces.
3. Organize, compare and apply legal and non-legal strategies that aid in negotiation and reaching settlements or desirable outcomes in contested adversarial disputes in legal and non-legal employment settings.
4. Evaluate the operation of the judicial process and the American legal profession within the American political system and global context.
5. Interpret the nature of law and politics in the context of adversarial justice.

Full Description

The Pre-Law minor provides a background for the study of law through challenging coursework that reinforces and extends the liberal arts foundation gained through the Kent Core. It prepares students for advanced analytical and writing dexterity, and introduces them to the social and governmental structures that underlie the law.

No specific course of study is required for admission to law school. Most law schools require a bachelor's degree for admission. The bachelor's degree may be from any discipline or college. Kent State University also has a number of 3+3 agreements with law schools in Ohio. Interested students should consult with the Pre-Law Center.

Law schools and alternative legal employment emphasize the value of reading comprehension, analytical skills, oral advocacy and a good command of written English. While these skills can be obtained in various ways, a general liberal arts background is recommended. Courses in English literature, American history and government are considered essential. Many pre-law students choose a major in political science, history, sociology, psychology, economics or English. A Bachelor of Integrative Studies degree is suitable if carefully planned.

Students considering law as a career should seek individual advising from the Pre-Law Center or in their major department. A list of pre-law advisors is available in the college office. Consultation with a pre-law advisor is urged, regardless of the student's major, minor or college. The Pre-Law Center can also supply information on LSAT registration, pre-law planning guides, information on law school admissions and financial aid information. The center sponsors an inter-collegiate competitive Moot Court team; a Phi Alpha Delta legal fraternity; a pre-law club; and a Pre-Law Service, Citizenship and Justice living learning community, as well as law-related scholarships and legal internships.

Public Administration - M.P.A.

College of Arts and Sciences
Department of Political Science
www.kent.edu/polisci/mpa

About This Program

Make a difference in your community with Kent State's Master of Public Administration program. Our program prepares you for leadership roles in public service and equips you with the skills needed to drive positive change. Read more...

Contact Information

- **Daniel E. Chand** | dchand@kent.edu | 330-672-8939
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Chief executives

- -10.0% decline
- 287,900 number of jobs
- $185,950 potential earnings

General and operations managers

- 5.8% faster than the average
- 2,486,400 number of jobs
- $103,650 potential earnings

Legislators

- 6.2% faster than the average
- 53,700 number of jobs
- $33,200 potential earnings

Postmasters and mail superintendents

- -21.9% decline
- 13,400 number of jobs
- $78,060 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Transportation, storage, and distribution managers

- 3.5% about as fast as the average
- 139,400 number of jobs
- $96,390 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale[1]
- Official transcript(s)
- Current résumé
- Goal statement
- Writing sample (single-authored paper or manuscript completed during undergraduate or graduate school that exemplifies the applicant's critical thinking skills)
- Three letters of recommendation from faculty or individuals familiar with the applicant's ability to do graduate-level work
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] In some cases, applicants with a GPA below 2.750 may be admitted to the program conditionally provided other supporting materials are strong.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
PADM 60371	GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION	3
PADM 60375	PUBLIC PERSONNEL ADMINISTRATION	3
PADM 60377	PUBLIC BUDGETING AND FINANCIAL MANAGEMENT	3
PADM 60379	PROGRAM EVALUATION I	3
PADM 60381	METHODS IN PUBLIC ADMINISTRATION	3
PADM 60392	INTERNSHIP IN PUBLIC ADMINISTRATION [1]	0-3
PADM 60470	PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE	3
Major Electives, choose from the following:		15
Any Public Administration (PADM) Graduate course (50000 or 60000 level)		
Other elective courses with advisor approval [2]		
Culminating Requirement		
PADM 60499	PORTFOLIO AND CAPSTONE	3
Minimum Total Credit Hours:		**36-39**

[1] Students without substantive full-time administrative experience in a public service organization ("pre-service students") must complete minimum 3 credit hours of internship; they will earn the M.P.A. degree with a total 39 credit hours. Students with substantive full-time administrative experience in a public service organization ("in-service students") may be waived from the internship requirement with the approval of the M.P.A. coordinator. Pre-service students or students wishing to gain experience in a new area will also be placed in an agency for at least 300 hours of experience.

[2] Elective coursework outside of the program may be selective based upon the student's needs and advisor approval.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

First Year		
Fall Semester		**Credits**
First Seven Weeks		
PADM 60371	GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION	3
Second Seven Weeks		
PADM 60381	METHODS IN PUBLIC ADMINISTRATION	3
	Credit Hours	**6**
Spring Semester		
First Seven Weeks		
PADM 60377	PUBLIC BUDGETING AND FINANCIAL MANAGEMENT	3
Second Seven Weeks		
PADM 60375	PUBLIC PERSONNEL ADMINISTRATION	3
	Credit Hours	**6**
Summer Term		
First Seven Weeks		
Major Elective		3
Second Seven Weeks		
Major Elective		3
	Credit Hours	**6**
Second Year		
Fall Semester		
First Seven Weeks		
Major Elective		3
Second Seven Weeks		
PADM 60470	PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE	3
	Credit Hours	**6**
Spring Semester		
First Seven Weeks		
PADM 60379	PROGRAM EVALUATION I	3
Second Seven Weeks		
Major Elective		3
	Credit Hours	**6**
Summer Term		
Full Term		
PADM 60392	INTERNSHIP IN PUBLIC ADMINISTRATION	0-3
First Second Weeks		
Major Elective		3
Second Seven Weeks		
PADM 60499	PORTFOLIO AND CAPSTONE	3
	Credit Hours	**6-9**
	Minimum Total Credit Hours:	**36-39**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate ability to lead and manage in public governance.
2. Participate in and contribute to the policy process.
3. Analyze, synthesize, think critically, solve problems and make decisions.
4. Articulate and apply a public service perspective.

5. Communicate and interact productively with a diverse and changing workforce and citizenry.

Full Description

The Master of Public Administration degree in Public Administration is designed for students wishing to become policy analysts, managers and executives within public and nonprofit organizations. The curriculum provides students with a broad foundation in public and nonprofit management, including the scope and history of public administration, administrative theory, ethical behavior in public management, public financial management, program evaluation, methods, personnel management and information technology management.

The M.P.A. degree can be completed in two years by taking two courses each term, including summers. Courses are offered in an asynchronous online format in back-to-back seven-week sessions. Courses utilize a mix of web-based instruction supported by audio and video technologies direct to the respective student's home.

Washington Program in National Issues

College of Arts and Sciences
Department of Political Science
www.kent.edu/polisci

About This Program

The Washington Program in National Issues offers Kent State students a once-in-a-lifetime opportunity to live, learn and intern in Washington, D.C. Spend a semester immersed in the heart of American politics, gaining real-world experience through internships, seminars with policy experts and access to resources like the Library of Congress — all supported by a network of dedicated alumni. Read more...

Contact Information

- **Sarah Schmidt** | sschmi16@kent.edu | 330-672-22062
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Washington, D.C.

Admission Requirements

The program is open to junior and senior students from all academic disciplines with a minimum 2.750 overall GPA.

Program Requirements

Code	Title	Credit Hours
Program Requirements		
POL 42990	WASHINGTON PROGRAM IN NATIONAL ISSUES (ELR)	15
Minimum Total Credit Hours:		**15**

Full Description

The Washington Program in National Issues was established in 1973 through the initiative of Washington-based alumni who sought to provide Kent State University undergraduates with a unique living and learning experience in the nation’s capital.

The purpose of the program is to accomplish the following:

- Facilitate learning about the U.S. political system through briefings with government officials and other working professionals in Washington, DC
- Develop a personal understanding of the demands and rewards of the professional work world through an internship experience
- Encourage initiative through individualized research, which may involve resources at the Library of Congress, among other sit

Students participate in internships — in places such as Capitol Hill, in a governmental agency or with an interest group — and attend seminars. The program requires a semester-long residence in the Washington, DC, area. Alumni in the nation's capital continue to support the program by introducing students to the culture and serving as consultants and mentors.

Department of Psychological Sciences

College of Arts and Sciences
Department of Psychological Sciences
144 Kent Hall
Kent Campus
330-672-2166
psych@kent.edu
www.kent.edu/psychology

Undergraduate Programs

- Neuroscience - B.S.
- Psychology - B.A.
- Psychology - B.S.

Minors

- Psychology

Graduate Programs

- Clinical Psychology - Ph.D.
- Psychological Science - M.A.
- Psychological Science - Ph.D.

Department of Psychological Sciences Faculty

- Black, Sarah R. (2023), Assistant Professor, Ph.D., Stony Brook University, 2015
- Blasiman, Rachael N. (2010), Associate Professor, Ph.D., Case Western Reserve University, 2010
- Casto, Kathleen V. (2023), Assistant Professor, Ph.D., Emory University, 2016
- Ciesla, Jeffrey (2007), Associate Professor, Ph.D., University at Albany-SUNY, 2004
- Ciesla, Shannon N. (2007), Associate Professor, Ph.D., Kent State University, 2013
- Coifman, Karin G. (2010), Professor, Ph.D., Columbia University, 2008
- Cremeans-Smith, Julie K. (1998), Professor, Ph.D., Kent State University, 2004
- Delahanty, Douglas L. (1997), Professor, Ph.D., University of Pittsburgh, 1997
- Evey, Julie A. (2018), Associate Professor, Ph.D., Kent State University, 1998
- Flessner, Christopher A. (2011), Professor, Ph.D., University of Wisconsin, Milwaukee, 2008
- Folk, Jocelyn R. (1999), Associate Professor, Ph.D., University of South Carolina, Columbia, 1997
- Frey, Katelyn T. (2023), Assistant Professor, M.A., University of Akron, 2021
- Galati, Ashley R. (2013), Associate Professor, Ph.D., University of Kentucky, 2013
- Gere, Judith (2013), Associate Professor
- Gilman, Tracy L. (2020), Assistant Professor, Ph.D., Penn State University, 2013
- Gunstad, John J. (2005), Professor, Ph.D., Ohio University, 2002
- Hamrick, Phillip M. (2013), Associate Professor, Ph.D., Georgetown University, 2013
- Himmelstein, Mary S. (2019), Assistant Professor, Ph.D., Rutgers University, 2016
- Hughes, Joel W. (2003), Professor, Ph.D., The Ohio State University, 2001
- Jones, Bryan A. (2010), Associate Professor, Ph.D., State University of New York-Stony Brook, 2007
- Joynes, Robin L. (2000), Professor, Ph.D., Texas A&M University-Main Campus, 1998
- Keiller, Scott W. (1989), Associate Professor, Ph.D., Kent State University, 1997
- Larwin, David A. (1985), Senior Lecturer, M.A., Kent State University, 1989
- Lechner, William (2017), Associate Professor, Ph.D., Oklahoma State University, 2015
- Miller, Eric D. (1999), Associate Professor, Ph.D., University of Iowa, 1999
- Neal-Barnett, Angela M. (1989), Professor, Ph.D., DePaul University, 1988
- Sato, Amy F. (2012), Professor, Ph.D., University of Wisconsin-Milwaukee, 2009
- Sciartelli, Sharon M. (2007), Professor, Ph.D., Kent State University, 1995
- Sefcek, Jon A. (2011), Associate Professor, Ph.D., University of Arizona, 2007
- Shepherd, James B. (1986), Assistant Professor, Ph.D., Kent State University, 1996
- Spitznagel, Mary Beth (2009), Professor, Ph.D., Ohio University, 2003
- Tabak, Melanie A. (2003), Professor, Ph.D., Kent State University, 2008
- Taber, Jennifer M. (2016), Associate Professor
- Thompson, Clarissa A. (2014), Professor, Ph.D., The Ohio State University, 2008
- Tomich, Patricia L. (1994), Professor, Ph.D., Kent State University, 2000
- Updegraff, Alanna S. (2012), Professor, Ph.D., University of California-Los Angeles, 2003
- Updegraff, John A. (2004), Professor, Ph.D., University of California-Los Angeles, 2002
- Was, Christopher A. (2005), Professor, Ph.D., University of Utah, 2005
- Weigold, Arne (2019), Professor, Ph.D., Texas Tech University, 2008
- Williams, Trevor F. (2024), Assistant Professor, Ph.D., University at Buffalo-SUNY, 2020
- Zaragoza, Maria S. (1984), Professor, Ph.D., Johns Hopkins University, 1984

Neuroscience (NEUR)

NEUR 10100 SEMINAR IN NEUROSCIENCE 1 Credit Hour
Course provides an overview of the neuroscience field, including areas of neuroscience research, foundational principles in neuroscience, current questions and techniques, career possibilities and examples of research being conducted by neuroscience faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

NEUR 30100 NEUROSCIENCE I 3 Credit Hours
(Crosslisted with BSCI 30100) Course covers basic principles in neuroscience, from the cellular to systems levels. Provides students a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems and motor pathways.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NEUR 30200 NEUROSCIENCE II 3 Credit Hours
(Cross-listed with BSCI 30200) Course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. Course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control and higher order cognitive functioning.
Prerequisite: NEUR 30100 or BSCI 30100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NEUR 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour
(Cross-listed with BSCI 30300) Accompanying laboratory for NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception. .
Prerequisite: NEUR 30100 or BSCI 30100 with minimum C grade.
Pre/corequisite: NEUR 30200 or BSCI 30200.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

NEUR 30889 BEAUTY AND THE BRAIN: EXPLORING FLORENCE THROUGH THE SENSES (DIVG) (ELR) 3 Credit Hours
(Cross-listed with BSCI 30889) This is an introductory sensory neuroscience course for undergraduate students. By exploring the sensory richness of Florence, Italy, students delve into the biology of their sensory systems. Through a combination of field trips, laboratory exercises, lectures and presentations, students learn how our sensory systems function to change diverse environmental signals into information that can be interpreted by the brain. Site visits are used to highlight specific sensory systems and laboratories/lectures provide the conceptual framework. Together, these experiences lay the foundation for students' understanding of vision, taste, smell, touch and hearing in the unique environment of Florence, Italy.
Prerequisite: Special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

NEUR 40192 INTERNSHIP IN NEUROSCIENCE (ELR) 3-12 Credit Hours
Work experience and training in neuroscience under the supervision of appropriate personnel in a government agency, nonprofit organization or business.
Prerequisite: NEUR 30200; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-36 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NEUR 40195 SPECIAL TOPICS IN NEUROSCIENCE 1-3 Credit Hours
Topics in neuroscience vary per course offering.
Prerequisite: NEUR 30200.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-3 lecture, 2-6 lab
Grade Mode: Standard Letter

NEUR 40196 INDIVIDUAL INVESTIGATION IN NEUROSCIENCE 1-3 Credit Hours
(Repeatable for credit) Research study under the guidance of a neuroscience faculty member and under the direction of a Biological Sciences faculty mentor.
Prerequisite: NEUR 30200; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

NEUR 40385 CURRENT TOPICS IN NEUROSCIENCE 3 Credit Hours
(Cross-listed with BSCI 40385)(Slashed with BSCI 50385 and BSCI 70385) This is a discussion- and readings-based course that focuses on cellular and molecular mechanisms underpinning functions of the central nervous system. Topics covered include synaptic plasticity; neuron-glia interactions; gene-environment interactions involved in learning, memory and disease; big data in neuroscience; and more. During this course, students develop knowledge and understanding of communication between brain cells; how gene-environment interactions impact learning and memory, behavior and disease; and modern techniques used in neuroscience research. Students read, summarize and discuss primary research papers in the context of neuroscience-related topics.
Prerequisite: BSCI 30140.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NEUR 40429 NEURAL CONTROL OF REPRODUCTIVE FUNCTION 2 Credit Hours
(Cross-listed with BSCI 40429) (Slashed with BSCI 50429 and BSCI 70429) Course explores the role of the brain in regulating functions that are essential to ensure successful reproduction. Topics covered include an overview of the endocrine and neuroendocrine systems involved in reproduction, as well as regulation of puberty, fertility, pregnancy and lactation. The course also explores disorders, such as polycystic ovary syndrome, affecting the central regulation of reproduction.
Prerequisite: BSCI 30130 or BSCI 40430 or NEUR 30100.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NEUR 47387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours
(Cross-listed with PSYC 47387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. This course introduces students to the behavioral effects of psychoactive therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Psychology (PSYC)

PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS) 3 Credit Hours
Introduction to the scientific approach to understanding human behavior and mental processes such as emotions, perceptions and cognitions. Topics may include personality, social and environmental factors, biological aspects of behavior and the experience of emotion and psychological disorders.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

PSYC 20651 CHILD PSYCHOLOGY (DIVD) (KSS) 3 Credit Hours
A review of the data, concepts and theories of psychology that contribute to the understanding of child development from conception to age 14.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

PSYC 21211 PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS) 3 Credit Hours
A review of theories, concepts and data that contribute to the understanding of human adjustment. Topics may include the following: personality, stress and coping, transitions from adolescence to adulthood, psychological disorders and psychotherapy.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

PSYC 21621 QUANTITATIVE METHODS IN PSYCHOLOGY I 3 Credit Hours
Application of quantitative, statistical methods in psychological research. Descriptive and inferential methods (includes ANOVA, t-test and correlation).
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30005 CAREER PATHWAYS IN PSYCHOLOGY 1 Credit Hour
Designed to equip students with a better understanding of the career pathways available to them in psychology at the bachelor's and graduate level. Using a combination of videos, articles and activities, students learn about many different topics and strategies related to careers and the graduate school application process.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PSYC 30111 FORENSIC PSYCHOLOGY 3 Credit Hours
Surveys major areas of forensic psychology, which focuses on the application of the science and profession of psychology to legal settings. Topics include roles and responsibilities of forensic psychologists, forensic assessment, psychological theories of criminal behavior, law enforcement psychology and eyewitness testimony.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30651 ADOLESCENT PSYCHOLOGY 3 Credit Hours
Students review the theories, concepts and data that contribute to the understanding of the physical, intellectual, educational, personality and social development of adolescents in contemporary society.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

PSYC 30652 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours
Processes and findings in social and personality development, with a focus on childhood and adolescence. Students examine individual differences, as well as developmental changes, in social function and personality.
Prerequisite: PSYC 11762; and HDF 24012 or PSYC 20651.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30655 CHILDREN'S THINKING 3 Credit Hours
Focuses on how children's cognitive processes and mental representations change from infancy to early adulthood. Theoretical claims, empirical findings and methodological issues are critically evaluated. Topics include children's visual and auditory perception, language and literacy, learning and memory, mathematical and spatial thinking, logical and scientific reasoning, problem solving, theory of mind and social cognition.
Prerequisite: PSYC 11762; and HDF 24012 or PSYC 20651.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30656 PSYCHOLOGY OF AGING 3 Credit Hours
Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30821 PSYCHOLOGY OF MOTIVATION 3 Credit Hours
Factors that provide the energy and direction for behaviors, emotions and cognitive processes. Seeks to answer the question "why" concerning the things people do, feel and think. A survey approach is used to include both the traditional and newly emerging concepts in motivation.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 30822 SPORT PSYCHOLOGY 3 Credit Hours
Introduction to the use of psychological theories and interventions in sport and performance settings. Can include topics such as performance anxiety, maintaining focus under pressure, motivation, leadership, among others.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 31141 PERCEPTION 3 Credit Hours
Investigates how humans detect, organize and interpret information from the environment. Considers how both biological and psychological process create and influence our perception of the world.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 31282 PERSONALITY 3 Credit Hours
A review of the data, concepts and theories of psychology that contribute to the understanding of personality.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

PSYC 31498 UNDERGRADUATE RESEARCH (ELR) 1-6 Credit Hours
(Repeatable for credit) Individual research open to qualified students.
Prerequisite: PSYC 11762; and special approval.
Schedule Type: Research
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PSYC 31532 SOCIAL PSYCHOLOGY 3 Credit Hours
Study of environmental/situational influences on a person's thoughts, behaviors and feelings-focus on topics such as aggression, attitudes and behaviors, conformity, helping, personal relationships and social cognition.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY (ELR) 3 Credit Hours
The rationale, logic and procedures of scientific research in psychology with an emphasis on measurement, causal inference and research design.
Prerequisite: PSYC 11762 and PSYC 21621.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PSYC 31684 QUANTITATIVE METHODS IN PSYCHOLOGY II 3 Credit Hours
Small sample theory, analysis of variance, linear regression and nonparametric statistics (e.g. Chi Square). Course may include qualitative analyses and computer- based data analyses with SPSS software.
Prerequisite: PSYC 21621.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 31773 INDUSTRIAL PSYCHOLOGY 3 Credit Hours
Application of principles, facts and theories of psychology to people at work. Includes motivation and satisfaction at work, personnel selection and placement, training and development, performance appraisal, organizational development, quality of work life, ergonomics and consumer psychology.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40111 PSYCHOPATHOLOGY 3 Credit Hours
Survey of the definitions as well as the biological, psychological and sociocultural causes of various psychological disorders. Illustrations of these disorders with cases. Overview of treatment approaches to these disorders may be included.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

PSYC 40112 PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE 3 Credit Hours
Covers the biological, psychological and socio-cultural factors influencing the development of psychological disorders in children and adolescents. Emphasis is placed on conceptual and research issues and the application of knowledge to understanding diagnosis and case studies of specific disorders.
Prerequisite: PSYC 11762; and HDF 24012 or PSYC 20651 or PSYC 30651; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40231 PSYCHOLOGICAL ASSESSMENT 3 Credit Hours
Introduction to psychometrics and test theory. Use and basic interpretation of intellectual and personality tests. Skills in using tests at a professional level not given.
Prerequisite: PSYC 11762 and PSYC 21621.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40382 PEDIATRIC PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 50382 and PSYC 70382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.
Prerequisite: PSYC 20651; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40383 INTRODUCTION TO CLINICAL PSYCHOLOGY 3 Credit Hours
Application of psychological principles and techniques to the problems of the individual. Course is designed to introduce the field of clinical psychology, including models of understanding abnormal behavior, treatment of individuals and ethics and professional issues.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40445 COGNITIVE PSYCHOLOGY 3 Credit Hours
Covers the mental processes that underline human thought and behavior, such as attention, memory, comprehension, reasoning, problem-solving and language. Considers established and current theoretical models, research methods and experimental results.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40446 COGNITIVE NEUROSCIENCE 3 Credit Hours
Covers the cognitive and neural processes that underlie vision, attention, spatial processing, memory, language, social processes, executive functioning and action. Introduces basic brain structure and the behavioral and functional imaging techniques used to study the brain bases of cognition. Data from patients with neurological disorders such as Alzheimer's, aphasia, amnesia are also examined.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40461 PSYCHOLOGY OF LANGUAGE 3 Credit Hours
Investigates psychological processes involved in language production, comprehension and development. Within each broad area emphasis is on theories, psychological experiments, key findings and the relationships between theory, method and data.
Prerequisite: PSYC 11762 and PSYC 40445.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 40625 DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD) 3 Credit Hours
A life-span, developmental model is used to analyze the changes that occur with age in gender-related role performance and identity formation.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

PSYC 40974 HISTORY OF PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 50974) Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems, theories and fundamental issues with which psychologists have concerned themselves in past and contemporary stages of the science.
Prerequisite: PSYC 11762; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41043 BASIC LEARNING PROCESSES 3 Credit Hours
Examination of basic principles of Pavlovian conditioning, instrumental conditioning, animal learning and memory processes and animal cognition. Emphasis on major empirical phenomena derived from research with animals with reference to related psychological processes in humans.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41363 BIOPSYCHOLOGY 3 Credit Hours
Rigorous course covering the relationship between brain and behavior at the physiological, chemical and anatomical levels. Focuses on the association between the central nervous system and various processes and behaviors such as learning, emotions, neurological disorders and psychopathology. Students with no background or coursework in biological science should plan to devote considerable time to mastering the relevant concepts for this course (e.g., structure and function of neurons).
Prerequisite: PSYC 11762; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41364 DRUGS AND BEHAVIOR 3 Credit Hours
Provides an overview of drug taking in society, the actions of drugs in the body and the effects of drugs on behavior. Focus is on drugs and the nervous system, psychopharmacology and actions and side effects of such drugs as alcohol, opiates, stimulants, marijuana, hallucinogens, depressants and performance-enhancing drugs. Particular focus is on medications for psychiatric disorders, abuse-potential and the causes of addiction, dependence and relapse.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 51395 and PSYC 71395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41492 INTERNSHIP IN PSYCHOLOGY (ELR) 1-6 Credit Hours
(Repeatable for credit) Application of psychological knowledge and skills in applied settings. Allows academic credit for participation as an intern at approved internship sites, including social service, non-profit agencies, government agencies and hospital settings.
Prerequisite: 9 credit hours of psychology courses; and minimum 3.000 overall GPA; and psychology major; and junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 7-42 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PSYC 41495 SPECIAL TOPICS IN PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of research theory or methodology may be covered. Specific topics announced.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PSYC 41498 INDIVIDUAL INVESTIGATION (ELR) 1-6 Credit Hours
(Repeatable for maximum 16 credit hours) Involves participation in empirical research, review of psychological literature and preparation of a paper or annotated bibliography.
Prerequisite: PSYC 11762; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PSYC 41573 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: SOCIAL/CLINICAL (WIC) 3 Credit Hours
(Repeatable for credit) Intensive experience in the conduct, analysis and reporting of empirical research in social or clinical psychology. Specific content varies with instructor.
Prerequisite: PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PSYC 41574 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: COGNITIVE/LEARNING (WIC) 3 Credit Hours
(Repeatable for credit) Intensive experience in the conduct, analysis and reporting of empirical research in cognitive psychology or human/animal learning. Specific content varies with instructor.
Prerequisite: PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 overall GPA; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PSYC 41581 HEALTH PSYCHOLOGY 3 Credit Hours
Role of psychological and social factors in health and illness, typically covering three general areas: (1) psychological factors affecting disease, (2) psychological and social consequences of illness and (3) psychotherapeutic interventions.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41584 THE PSYCHOLOGY OF EXERCISE 3 Credit Hours
Provides an introduction to exercise psychology, which is the application of psychology to promote, maintain, enhance and explain the parameters of exercise. Course introduces students to the cutting-edge research and practical application of exercise psychology. Topics include use of psychological theory to predict adoption and adherence to exercise behavior; social and personality influences on exercise behavior; research on effectiveness of various exercise interventions; and consequences of exercise, including mental health states such as depression and anxiety, emotional well-being, self-esteem, self-concept, health-related quality of life and cognition.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 51595 and PSYC 71595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Topic varies per course offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 41901 WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour
Writing-intensive course taken in conjunction with a 3-credit-hour, upper-division psychology course (may not be taken with PSYC 31498, PSYC 41498, PSYC 41573, PSYC 41574 or PSYC 41993).
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PSYC 41980 RESEARCH WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour
Writing-intensive course taken in conjunction with PSYC 31574.
Pre/corequisite: PSYC 31574.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PSYC 41993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit) Specific topic varies per course offering.
Prerequisite: PSYC 11762; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PSYC 42574 ADVANCED RESEARCH METHODS 3 Credit Hours
Course helps students integrate information learned in previous courses to better understand the process of conducting research in the field of psychology. Through hands-on experiences, students use basic statistical analyses to answer hypotheses; review scientific literature and generate hypotheses; test hypotheses using a dataset and present research findings.
Prerequisite: PSYC 31574; and minimum 3.200 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 43001 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with PSYC 53001 and PSYC 73001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Minimum 3.250 overall GPA; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 43002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with PSYC 53002 and PSYC 73002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Minimum B grade in BSCI 30140 or BSCI 30156 or BSCI 30520 or PSYC 41363; and minimum 3.250 overall GPA; and junior standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 43003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with PSYC 53003 and PSYC 73003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: BSCI 30520 or PSYC 41363 with a minimum B grade; and minimum 3.250 overall GPA; and junior standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 47385 BROKEN BRAINS: INTRODUCTION TO CLINICAL NEUROPSYCHOLOGY 3 Credit Hours
Clinical neuropsychology is the study of brain-behavior relationships or the ways in which the brain allows people to think, feel and behave in their everyday life. Course introduces students to cutting-edge research into the inner workings of the brain in both healthy individuals and those with neurological disorders (e.g. Alzheimer's disease, brain injury, ADHD, bipolar disorder). Topics include organization of the brain; how people learn, pay attention and solve problems; brain plasticity; neurological disorders; and neuropsychological assessment.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 47387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours
(Slashed with PSYC 57387 and PSYC 77387) (Cross-listed with NEUR 47387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactivetherapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 50382 PEDIATRIC PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 40382 and PSYC 70382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 50974 HISTORY OF PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 40974) Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems theories and fundamental issues with which psychologists have concerned themselves in past and contemporary states of the science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 51395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 41395 and PSYC 71395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 51595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 41595 and PSYC 71595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 51993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit) Specific topic varies per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PSYC 53001 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with PSYC 43001 and PSYC 73001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 53002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with PSYC 43002 and PSYC 73002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Graduate standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 53003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with PSYC 43003 and PSYC 73003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: Graduate standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 57387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours
(Slashed with PSYC 47387 and PSYC 77387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactivetherapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60105 DEVELOPMENTAL PSYCHOPATHOLOGY 3 Credit Hours
(Slashed with PSYC 70105) Nature and theoretical explanations of various forms of psychopathology in children and adults. Students learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD 3 Credit Hours
(Slashed with PSYC 70110) Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT 3 Credit Hours
(Slashed with PSYC 70170) An examination of the etiology, symptomology and theoretical models of adult psychopathology.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60192 INTEGRATION PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives.
Prerequisite: PSYC 60292 and PSYC 60792; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1-3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 60272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 70272) Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students become familiar with major psychological tests.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT 3 Credit Hours
(Slashed with PSYC 70273) Examines psychodiagnosis within a context of "personality-as-a-coherent-whole." Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations.
Prerequisite: PSYC 60272; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD 3 Credit Hours
(Slashed with PSYC 70274) Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments and assessment of special-child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation.
Prerequisite: PSYC 60272 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60275 BEHAVIORAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 70275) Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues.
Prerequisite: PSYC 60272 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 70276) Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60292 PSYCHOLOGICAL ASSESSMENT PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Applied aspects of material presented in PSYC 60272. Emphasis on administering, scoring and interpreting major assessment tools.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Corequisite: PSYC 60272.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 60324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 70324) Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60371 INTRODUCTION TO PSYCHOLOGICAL THERAPY 3 Credit Hours
(Slashed with PSYC 70371) Introduction to psychotherapy, with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60375 COGNITIVE BEHAVIOR THERAPY 3 Credit Hours
(Slashed with PSYC 70375) Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.
Prerequisite: PSYC 60371 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60376 CHILD PSYCHOTHERAPY 3 Credit Hours
(Slashed with PSYC 70376) Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies and child therapy research. Emphasis on integration of theory, technique and research.
Prerequisite: PSYC 60371; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60395 ADVANCED TOPICS IN CLINICAL PSYCHOLOGY 1-6 Credit Hours
(Slashed with PSYC 70395)(Repeatable for credit) Advanced-level consideration of selected content areas in assessment, psychotherapy psycho pathology professional issues and community psychology. Specific topic varies per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

PSYC 60453 INTRODUCTION TO COGNITIVE PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 70453) Information-processing approaches to human thought. Focus on processes used to transform store manipulate and retrieve sensory input. Topics include attention pattern recognition memory and language.
Prerequisite: Clinical Psychology or Psychological Science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 60592 PRACTICUM IN DIAGNOSTIC INTERVIEWING 1-3 Credit Hours
(Repeatable for credit) Covers skills clinical psychologists must possess to help clients, effectively work within the field, communicate effectively with peers and colleagues and excel as a clinical researcher. Provides a foundation of skills, knowledge and expertise necessary to competently conduct a diagnostic interview, and provides an introduction to the process of conceptualize a client's presenting problem(s).
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

PSYC 60792 PSYCHOTHERAPY PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Basic training in applied aspects of psychotherapy. Through didactic and experiential methods, students learn basic listening and communication skills that are then applied to specific techniques, situations and issues.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Corequisite: PSYC 60371.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 60895 ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with PSYC 70895) Advanced-level consideration of selected content areas in experimental psychology. Specific topic varies per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

PSYC 60950 HISTORY AND CONTEMPORARY SYSTEMS 3 Credit Hours
(Slashed with PSYC 70950) Relationships between historical antecedents and the major contemporary systems and theories of psychology.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61054 LEARNING AND CONDITIONING 3 Credit Hours
(Slashed with PSYC 71054) Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena particularly as these are exemplified in animal models of behavior.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 61260 THEORIES OF PERSONALITY 3 Credit Hours
(Slashed with PSYC 71260) Consideration of major theoretical orientations, including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: PSYC 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 61350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 71350) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61498 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation. Credits may be applied toward meeting degree requirements with department approval and when satisfactory grade is given.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 61548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours
(Slashed with PSYC 71548) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61580 SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 71580) Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61651 QUANTITATIVE STATISTICAL ANALYSIS I 3 Credit Hours
(Slashed with PSYC 71651) Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two-semester sequence on statistical analysis.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61654 QUANTITATIVE STATISTICAL ANALYSIS II 3 Credit Hours
(Slashed with PSYC 71654) Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61685 CLINICAL RESEARCH METHODS 3 Credit Hours
(Slashed with PSYC 71685) Consideration of research methodologies relevant to clinical psychology, with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 61993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit) Workshop topic varies per course offering.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PSYC 62392 CLINICAL PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 62492 ADVANCED PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model.
Prerequisite: PSYC 60192 and PSYC 60292 and PSYC 60792; and clinical psychology or psychological science major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 62685 RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE 3 Credit Hours
(Slashed with PSYC 72685) Course fosters the development of graduate students as independent researchers by helping them acquire knowledge of and facility with quantitative research methods in psychology. The course covers a range of topics that are essential for successful research in psychology, including formulating research questions, measurement, research design, sampling, ethics, writing, replication and validity.
Prerequisite: Clinical psychology or psychological science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70105 DEVELOPMENTAL PSYCHOPATHOLOGY 3 Credit Hours
(Slashed with PSYC 60105) Nature and theoretical explanations of various forms of psychopathology in children and adults. Students learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD 3 Credit Hours
(Slashed with PSYC 60110) Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT 3 Credit Hours
(Slashed with PSYC 60170) An examination of the etiology, symptomology and theoretical models of adult psychopathology.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70192 INTEGRATION PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives.
Prerequisite: PSYC 70292 and PSYC 70792; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 70272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 60272) Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students become familiar with major psychological tests.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT 3 Credit Hours
(Slashed with PSYC 60273) Examines psychodiagnosis within a context of "personality-as-a-coherent-whole." Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations.
Prerequisite: PSYC 70272; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD 3 Credit Hours
(Slashed with PSYC 60274) Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments and assessment of special-child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation.
Prerequisite: PSYC 70272 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70275 BEHAVIORAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 60275) Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues.
Prerequisite: PSYC 70272 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours
(Slashed with PSYC 60276) Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70292 PSYCHOLOGICAL ASSESSMENT PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Applied aspects of material presented in PSYC 70272. Emphasis on administering, scoring and interpreting major assessment tools.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Corequisite: PSYC 70272.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 70324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 60324) Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70371 INTRODUCTION TO PSYCHOLOGICAL THERAPY 3 Credit Hours
(Slashed with PSYC 60371) Introduction to psychotherapy, with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70375 COGNITIVE BEHAVIOR THERAPY 3 Credit Hours
(Slashed with PSYC 60375) Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.
Prerequisite: PSYC 70371 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70376 CHILD PSYCHOTHERAPY 3 Credit Hours
(Slashed with PSYC 60376) Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies and child therapy research. Emphasis on integration of theory technique and research.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70382 PEDIATRIC PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 40382 and PSYC 50382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70392 SUPERVISED CLINICAL EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) Post-practicum, psychological service provision and/or research activities in institution or agency under supervision of licensed psychologist and by arrangement of department of psychology.
Prerequisite: PSYC 72392; and doctoral standing; and special approval.
Schedule Type: Field Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 70395 ADVANCED TOPICS IN CLINICAL PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with PSYC 60395) Advanced-level consideration of selected content areas in assessment, psychotherapy, psychopathology, professional issues and community psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

PSYC 70413 COGNITIVE NEUROPSYCHOLOGY 3 Credit Hours
The effect of brain injury and anomalous neurological development on cognitive skills such as language, perception and memory are explored.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70453 INTRODUCTION TO COGNITIVE PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 60453) Information-processing approaches to human thought. Focus on processes used to transform, store, manipulate and retrieve sensory input. Topics include attention, pattern recognition, memory and language.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70592 PRACTICUM IN DIAGNOSTIC INTERVIEWING 1-3 Credit Hours
(Repeatable for credit) Covers skills clinical psychologists must possess to help clients, effectively work within the field, communicate effectively with peers and colleagues and excel as a clinical researcher. Provides a foundation of skills, knowledge and expertise necessary to competently conduct a diagnostic interview, and provides an introduction to the process of conceptualize a client's presenting problem(s).
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

PSYC 70604 COGNITIVE DEVELOPMENT 3 Credit Hours
Examination of theories and research concerning changes in memory, perception, thought and language over the life span.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70615 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours
Examination of theories and research in social development, with a focus on how personal relationships influence personality development.
Prerequisite: Clinical psychology or psychological Science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 70792 PSYCHOTHERAPY PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Basic training in applied aspects of psychotherapy. Through didactic and experiential methods, students learn basic listening and communication skills that are then applied to specific techniques situations and issues.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 70895 ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with PSYC 60895) Advanced-level consideration of selected content areas in experimental psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

PSYC 70950 HISTORY AND CONTEMPORARY SYSTEMS 3 Credit Hours
(Slashed with PSYC 60950) Relationships between historical antecedents and the major contemporary systems and theories of psychology.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71054 LEARNING AND CONDITIONING 3 Credit Hours
(Slashed with PSYC 61054) Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena, particularly as these are exemplified in animal models of behavior.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71260 THEORIES OF PERSONALITY 3 Credit Hours
(Slashed with PSYC 61260) Consideration of major theoretical orientations, including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 61350) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 41395 and PSYC 51395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours
(Slashed with PSYC 61548) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71580 SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with PSYC 61580) Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours
(Repeatable for credit)(Slashed with PSYC 41595 and PSYC 51595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology related to counseling careers. Topic varies per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71651 QUANTITATIVE STATISTICAL ANALYSIS I 3 Credit Hours
(Slashed with PSYC 61651) Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two-semester sequence on statistical analysis.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71654 QUANTITATIVE STATISTICAL ANALYSIS II 3 Credit Hours
(Slashed with PSYC 61654) Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis.
Prerequisite: PSYC 71651; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71685 CLINICAL RESEARCH METHODS 3 Credit Hours
(Slashed with PSYC 61685) Consideration of research methodologies relevant to clinical psychology, with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 71894 COLLEGE TEACHING OF PSYCHOLOGY 3 Credit Hours
(Repeatable for maximum 6 credit hours) Training and experience in college teaching.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

PSYC 71993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credt) Workshop topic varies per course offering.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PSYC 72392 CLINICAL PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 72492 ADVANCED PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model.
Prerequisite: PSYC 70192 and PSYC 70292 and PSYC 70792; and clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 72685 RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE 3 Credit Hours
(Slashed with PSYC 62685) Course fosters the development of graduate students as independent researchers by helping them acquire knowledge of and facility with quantitative research methods in psychology. The course covers a range of topics that are essential for successful research in psychology, including formulating research questions, measurement, research design, sampling, ethics, writing, replication and validity.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 73001 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with PSYC 43001 and PSYC 53001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 73002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with PSYC 43002 and PSYC 53002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Doctoral standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 73003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with PSYC 43003 and PSYC 53003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: Doctoral standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 77387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours
(Slashed with PSYC 47387 and PSYC 57387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactivetherapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 80391 SEMINAR IN CLINICAL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) Seminar devoted to detailed study of various topics in field of clinical psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PSYC 80491 SEMINAR IN COGNITIVE PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) Seminar on current research in cognitive psychology. Specific topics will be announced in schedule of classes.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PSYC 80501 PSYCHOMETRIC THEORY AND MEASUREMENT 3 Credit Hours
This course is designed to provide an in-depth introduction to basic elements of psychometric theory. This includes topics of scaling (for stimuli and persons), (b) classical test theory and its approach to test reliability, (c) generalizability theory and its approach to test reliability, (d) principles and procedures for investigating test validity, (e) statistical issues of using tests for selection and classification (including diagnosis), (f) approaches to item analysis including item response theory, and (g) approaches to test construction.
Prerequisite: PSYC 71651 and PSYC 71654; and doctorate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 80502 STRUCTURAL EQUATION MODELING 3 Credit Hours
This course is designed to provide an in-depth introduction to the statistical technique of structural equation modeling (SEM). The course starts with an overview of the goals of SEM, basic terminology and conceptual issues, and basic requirements for conducting this type of analysis. Core analytic techniques (path analysis, confirmatory factor analysis, and latent variable modeling) will be discussed and conducted, and more advanced analysis techniques will also be briefly introduced. The course also involves learning the use of the statistical software MPlus.
Prerequisite: PSYC 71651 and PSYC 71654; and doctorate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 80503 HIERARCHICAL LINEAR MODELING 3 Credit Hours
This course is an upper-level graduate seminar intended to introduce students to the use of Hierarchical (Multilevel) Linear Models in psychological research. This class will focus on developing a thorough conceptual understanding and the ability to implement this knowledge by conducting analyses. This includes such topics as the analysis of persons nested within groups, as well as the analysis of repeated measures within persons which itself includes analysis of Ecological Momentary Assessment data and growth analyses.
Prerequisite: PSYC 61651 or PSYC 71651; and PSYC 61654 or PSYC 71654; and doctorate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PSYC 81091 SEMINAR IN LEARNING AND BIOPSYCHOLOGY 3 Credit Hours
(Repeatable for credit) Seminar on current research in learning and biopsychology. Specific topic varies per course offering.
Prerequisite: Clinical psychology or psychological science major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PSYC 81199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 81299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: PSYC 81199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 81498 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students. Credits may be applied toward degree with department approval.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PSYC 81591 SEMINAR IN PERSONALITY AND SOCIAL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)Seminar on current research in areas of social psychology. Specific topics will be announced in schedule of classes.
Prerequisite: Doctoral standing in psychology.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PSYC 81691 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours
(Repeatable for credit) Seminar on applications of quantitative methods within various content areas of psychology. Specific topic varies per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Clinical Psychology - Ph.D.

College of Arts and Sciences
Department of Psychological Sciences
www.kent.edu/psychology

About This Program

The Clinical Psychology Ph.D. program provides you with the knowledge and practical experience needed to excel in this rewarding field. With expert faculty, cutting-edge research opportunities and a comprehensive curriculum, you will be prepared to make a real difference in the lives of your patients. Read more...

Contact Information

- **Chris Flessner** | cflessne@kent.edu | 330-672-2236
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Clinical, counseling, and school psychologists

- 3.1% about as fast as the average
- 171,500 number of jobs
- $79,820 potential earnings

Psychology teachers, postsecondary

- 8.8% much faster than the average
- 46,800 number of jobs
- $78,180 potential earnings

Accreditation

The Ph.D. degree in Clinical Psychology is accredited by the American Psychological Association. Information on accreditation can be obtained by contacting the APA Commission on Accreditation by phone at 202-336-5979 or by mail at the Commission on Accreditation, American Psychological Association, 750 First Street, NE, Washington, DC, 20002-4242.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university
- Minimum junior-senior 3.000 undergraduate GPA on a 4.000-point scale
- 18 credit hours in psychology, including a course in statistics
- Broad background in psychology
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

Admission to the Ph.D. degree is limited to students whose records clearly indicate both scholarly and research potential to do doctoral-level work.

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Admitted students to the Ph.D. who would like to declare the Quantitative Methods of Psychology concentration must meet the following admission requirements:

- Good academic standing
- Written approval of the student's primary advisor
- Completion of PSYC 61651 and PSYC 61654 with an A grade, or an approved waiver of this criterion based on equivalent prior coursework
- Identification and written acceptance of a quantitative mentor from the list of department quantitative faculty

Application Deadlines

- **Fall Semester**
  - Application deadline: December 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
PSYC 70105	DEVELOPMENTAL PSYCHOPATHOLOGY	3
PSYC 70192	INTEGRATION PRACTICUM	3
PSYC 70272	INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT	3
PSYC 70273	ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT	3
PSYC 70324	PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY	3
PSYC 70371	INTRODUCTION TO PSYCHOLOGICAL THERAPY	3
PSYC 70392	SUPERVISED CLINICAL EXPERIENCE	2
PSYC 70592	PRACTICUM IN DIAGNOSTIC INTERVIEWING	3
PSYC 70792	PSYCHOTHERAPY PRACTICUM	3
PSYC 71651	QUANTITATIVE STATISTICAL ANALYSIS I	3
PSYC 71654	QUANTITATIVE STATISTICAL ANALYSIS II	3
PSYC 71685	CLINICAL RESEARCH METHODS	3
PSYC 71894	COLLEGE TEACHING OF PSYCHOLOGY [1]	3
PSYC 72392	CLINICAL PRACTICUM	9
PSYC 72492	ADVANCED PRACTICUM	7
Additional Program Electives [2]		20
Culminating Requirement		
PSYC 81199	DISSERTATION I [3]	30
Additional Requirements or Concentration		
Choose from the following:		9
Additional Requirements for Students Not Declaring a Concentration		
Quantitative Methods of Psychology Concentration		
Minimum Total Credit Hours:		**113**

[1] PSYC 71894 is required for students who teach starting their third year.

[2] A limited number of graduate courses outside the department may be credited toward graduation. No 50000-level psychology courses may be applied to the degree. PSYC 81498 can be used to partially satisfy additional program electives.

[3] Doctoral candidates, upon admission to candidacy, must register for PSYC 81199 for a total of 30 hours. It is expected that doctoral candidates will continuously register for PSYC 81199, and thereafter PSYC 81299, each semester, until all requirements for the degree have been met.

Additional Requirements for Students Not Declaring the Concentration

Code	Title	Credit Hours
Major Requirements		
Additional Program Electives		9
Minimum Total Credit Hours:		**9**

Quantitative Methods of Psychology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Teaching Experience [1]		
Research Experience [2]		
Concentration Electives, choose from the following:		9
PSYC 80501	PSYCHOMETRIC THEORY AND MEASUREMENT	
PSYC 80503	HIERARCHICAL LINEAR MODELING	
PSYC 80502	STRUCTURAL EQUATION MODELING	
PSYC 81691	SEMINAR IN QUANTITATIVE METHODS	
Minimum Total Credit Hours:		**9**

[1] Psychologists with strong quantitative skills often are expected to disseminate statistical knowledge to their colleagues; thus, students who pursue the concentration must have at least one practicum experience. This teaching experience can be as an instructor of an undergraduate course (PSYC 21621, PSYC 31684) or becoming the teaching assistant for the first-year graduate sequence.

[2] Students must demonstrate mastery of quantitative methodology through the inclusion of an advanced technique as part of a milestone or independent project that has been approved by the student's quantitative mentor. Students should either (a) complete a thesis/dissertation that has a strong quantitative component or (b) publish a first-authored quantitative-focused paper or a first-authored content paper with sophisticated analyses, as determined by the student's quantitative mentor. Specifically, students should demonstrate that they are able to appropriately conduct and interpret sophisticated statistical analyses. Note, however, that this requirement does not necessarily suggest that students need to develop a new statistical technique or methodology.

Candidacy Requirement

- Students who have been admitted into the doctoral program will be considered for Ph.D. candidacy after they have met all requirements for the M.A. degree and have passed a qualifying examination in a major area of specialization in psychology.
- The Department of Psychological Sciences reserves the right to separate from the program a student who, in the opinion of a duly constituted departmental committee, is not likely to succeed professionally despite earning acceptable grades.
- Proficiency in a foreign language is not a requirement for the Ph.D. degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- The program requires full-time continuous enrollment, including summers.
- Post-baccalaureate students are required to complete a minimum of four years of full-time attendance.
- All Ph.D. candidates (regardless of area of specialization) complete a program of basic core courses and clinical practical, select additional courses and seminars with the aid of a faculty advisor and complete a doctoral dissertation.
- Students must complete a supervised traineeship in a faculty-approved mental health facility outside the department, which involves a minimum of 1,000 hours. Additionally, a 2,000-hour internship in a setting approved by the American Psychological Association is required over a calendar year's duration.
- The Department of Psychological Sciences will permit the waiving of program coursework if supported by appropriate graduate-level coursework for post-master's students admitted to the program. Students may earn the Ph.D. degree with less than 113 credit hours but no less than 98 total credit hours.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate competencies in research methodologies specific to their area of interest.
2. Demonstrate competencies in teaching undergraduate courses.
3. Demonstrate competencies in providing psychological assessment and treatment services.

Full Description

The Ph.D. degree in Clinical Psychology prepares students to conduct research, to serve on college and university faculties and to provide a range of clinical services. The program adheres to the clinical scientist model of education and training, which is founded on the idea that the practice of psychology should be based on the science of psychology, and that practicing psychologists should be able to translate clinical observation into researchable questions and pursue new knowledge on the basis of their observations. Students are expected to develop an area of special expertise in research, and opportunities for specialized clinical training are offered.

In addition to general training in clinical psychology, students may receive specialized research and clinical training in one of the following areas: adult psychopathology, assessment, child, health or neuropsychology.

The Clinical Psychology major includes the following optional concentration:

- The **Quantitative Methods of Psychology** optional concentration trains individuals in some of the more recent developments of statistical science and, particularly, the application of these developments to real-world psychological data. One unique feature of the concentration is the focus on the application of quantitative methods in psychological research; although department faculty

members have expertise in an area of statistics, they also conduct research in a substantive area of psychology. The concentration is intended for those students who intend to pursue academic careers, wherein the use of advanced quantitative methods in one's own program of research is highly valued, and who also intend to teach undergraduate or graduate courses in statistical methods.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Neuroscience - B.S.

College of Arts and Sciences
Department of Psychological Sciences
Department of Biological Sciences
https://www.kent.edu/neuroscience/bs

About This Program

The Bachelor of Science in Neuroscience combines biology, chemistry, psychology and other disciplines to provide you with a comprehensive understanding of the nervous system. Together with our Neuroscience faculty, you will gain the advanced skills and knowledge needed to pursue careers in health professions, research or science communication. Read more...

Contact Information

- **Wilson Chung, Ph.D.** | neuroundergrad@kent.edu | 330-672-3641
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) [1]	1
or PSYC 41901	WRITING IN PSYCHOLOGY (WIC)	
or PSYC 41980	RESEARCH WRITING IN PSYCHOLOGY (WIC)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
NEUR 10100	SEMINAR IN NEUROSCIENCE	1
NEUR 30100	NEUROSCIENCE I	3
NEUR 30200	NEUROSCIENCE II	3
NEUR 30300	EXPERIMENTAL METHODS IN NEUROSCIENCE	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Biology Electives, choose from the following:		6
BSCI 40147	DEVELOPMENTAL NEUROBIOLOGY	
BSCI 40151	MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES	
BSCI 40152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 40157	NEUROBIOLOGY OF DRUG ADDICTION	

BSCI 40158	MOLECULAR BIOLOGY	
BSCI 40159	MOLECULAR BIOLOGY LABORATORY (ELR) (WIC) [1]	
BSCI 40431	NEUROENDOCRINOLOGY	
BSCI 40432	ENDOCRINOLOGY	
BSCI 40450	BIOLOGICAL CLOCKS	
BSCI 40460	ADVANCED HUMAN PHYSIOLOGY	
BSCI 40462	ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES	
BSCI 40515	ANIMAL BEHAVIOR	
BSCI 40519	HORMONES AND BEHAVIOR	
Psychology Electives, choose from the following:		6
PSYC 40111	PSYCHOPATHOLOGY	
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY	
PSYC 40446	COGNITIVE NEUROSCIENCE	
PSYC 41043	BASIC LEARNING PROCESSES	
PSYC 41364	DRUGS AND BEHAVIOR	
PSYC 43001	CLINICAL NEUROANATOMY	
PSYC 47387	NEUROPSYCHOPHARMACOLOGY	
Neuroscience Elective, choose from the following:		2
BSCI 40147	DEVELOPMENTAL NEUROBIOLOGY	
BSCI 40151	MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES	
BSCI 40152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 40157	NEUROBIOLOGY OF DRUG ADDICTION	
BSCI 40158	MOLECULAR BIOLOGY	
BSCI 40159	MOLECULAR BIOLOGY LABORATORY (ELR) (WIC) [1]	
BSCI 40431	NEUROENDOCRINOLOGY	
BSCI 40432	ENDOCRINOLOGY	
BSCI 40450	BIOLOGICAL CLOCKS	
BSCI 40460	ADVANCED HUMAN PHYSIOLOGY	
BSCI 40462	ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES	
BSCI 40515	ANIMAL BEHAVIOR	
BSCI 40519	HORMONES AND BEHAVIOR	
NEUR 40192	INTERNSHIP IN NEUROSCIENCE (ELR) [2]	
NEUR 40195	SPECIAL TOPICS IN NEUROSCIENCE	
NEUR 40196	INDIVIDUAL INVESTIGATION IN NEUROSCIENCE [2]	
PSYC 40111	PSYCHOPATHOLOGY	
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY	
PSYC 40446	COGNITIVE NEUROSCIENCE	
PSYC 41043	BASIC LEARNING PROCESSES	
PSYC 41364	DRUGS AND BEHAVIOR	
PSYC 43001	CLINICAL NEUROANATOMY	
PSYC 47387	NEUROPSYCHOPHARMACOLOGY	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Additional Requirements or Concentration		
Choose from the following:		48
Additional Requirements for Students Not Declaring a Concentration		
Pre-Medicine/Pre-Podiatry Concentration		
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] A maximum 6 credit hours of NEUR 40192 and NEUR 40196 combined may be applied toward major requirements.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
Neuroscience Electives, choose from the list in the major		13
General Chemistry Electives, choose from the following:		8
CHEM 10058 & CHEM 10059	GENERAL CHEMISTRY FOR LIFE SCIENCES I and GENERAL CHEMISTRY FOR LIFE SCIENCES II	
CHEM 10060 & CHEM 10061	GENERAL CHEMISTRY I (KBS) and GENERAL CHEMISTRY II (KBS)	
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		18
Minimum Total Credit Hours:		**48**

Pre-Medicine/Pre-Podiatry Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 30130	HUMAN PHYSIOLOGY	3
or BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 30171	GENERAL MICROBIOLOGY	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
or CHEM 40245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
CHEM 30481	ORGANIC CHEMISTRY I	3
CHEM 30482	ORGANIC CHEMISTRY II	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	5
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	5
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Minimum Total Credit Hours:		**48**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

1 All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

2 The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Neuroscience Major (No Concentration)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
NEUR 10100	SEMINAR IN NEUROSCIENCE	1
UC 10001	FLASHES 101	1
General Chemistry Elective		4
	Credit Hours	**14**
Semester Two		
BSCI 30140	CELL BIOLOGY	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
General Chemistry Elective		4
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
BSCI 30156	ELEMENTS OF GENETICS	3
NEUR 30100	NEUROSCIENCE I	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
Foreign Language Requirement		4
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
NEUR 30200	NEUROSCIENCE II	3
NEUR 30300	EXPERIMENTAL METHODS IN NEUROSCIENCE	1
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Foreign Language Requirement		4
Kent Core Requirement		3
	Credit Hours	**14**
Semester Five		
Biology and/or Neuroscience and/or Psychology Electives		9
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Six		
BSCI 40600 or PSYC 41901 or PSYC 41980	WRITING IN THE BIOLOGICAL SCIENCES (WIC) or WRITING IN PSYCHOLOGY (WIC) or RESEARCH WRITING IN PSYCHOLOGY (WIC)	1
Biology and/or Neuroscience and/or Psychology Electives		9
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Seven		
Biology and/or Neuroscience and/or Psychology Electives		6
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Eight		
Biology and/or Neuroscience and/or Psychology Elective		3
General Electives		12
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

Pre-Medicine/Pre-Podiatry Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
NEUR 10100	SEMINAR IN NEUROSCIENCE	1
UC 10001	FLASHES 101	1
	Credit Hours	**14**
Semester Two		
BSCI 30140	CELL BIOLOGY	4

CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
BSCI 30156	ELEMENTS OF GENETICS	3
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30481	ORGANIC CHEMISTRY I	3
NEUR 30100	NEUROSCIENCE I	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
CHEM 30482	ORGANIC CHEMISTRY II	3
MATH 11022	TRIGONOMETRY (KMCR)	3
NEUR 30200	NEUROSCIENCE II	3
NEUR 30300	EXPERIMENTAL METHODS IN NEUROSCIENCE	1
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Credit Hours	**17**
Semester Five		
BSCI 30130 or BSCI 40430	HUMAN PHYSIOLOGY or ANIMAL PHYSIOLOGY	3
BSCI 30171	GENERAL MICROBIOLOGY	4
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001 & PHY 13021 or PHY 23101	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Credit Hours	**17**
Semester Six		
CHEM 30284 or CHEM 40245	INTRODUCTORY BIOLOGICAL CHEMISTRY or BIOCHEMICAL FOUNDATIONS OF MEDICINE	4
PHY 13002 & PHY 13022 or PHY 23102	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Biology and/or Neuroscience and/or Psychology Electives		5
	Credit Hours	**14**
Semester Seven		
BSCI 40600 or PSYC 41901 or PSYC 41980	WRITING IN THE BIOLOGICAL SCIENCES (WIC) or WRITING IN PSYCHOLOGY (WIC) or RESEARCH WRITING IN PSYCHOLOGY (WIC)	1
Biology and/or Neuroscience and/or Psychology Electives		6
Foreign Language		4
Kent Core Requirement		3
	Credit Hours	**14**
Semester Eight		
Biology and/or Neuroscience and/or Psychology Elective		3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**13**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand fundamental principles of neuroscience.
2. Acquire fundamental hands-on research skills necessary for laboratory investigations into central nervous system function.
3. Understand proper experimental design, data analysis and communication of research results.
4. Gain greater knowledge and appreciation of the role neuroscience plays in societal issues, such as those related to neurological disorders, mental health, medicine and human and animal behavior.

Program Policies
Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Neuroscience offers a broad-based and hands-on study of the mechanisms of brain function from the cell and molecular level through cognition and behavior. This major is for students interested in medicine, other health professions, research and graduate studies in biology, neuroscience and psychology. The major also prepares students for careers in industries, including biotechnology, pharmaceuticals, research administration and policy, science communication, teaching and other science-related businesses.

The Neuroscience major includes the following optional concentration:

- The **Pre-Medicine/Pre-Podiatry** concentration provides the courses necessary for admission to advanced degree programs in healthcare and biomedical science professions.

Psychological Science - M.A.

College of Arts and Sciences
Department of Psychological Sciences
www.kent.edu/psychology

About This Program

The Master of Arts degree in Psychological Science is an intermediate degree only for students admitted to one of the doctoral programs in the Department of Psychological Sciences. The program is strongly research-oriented.

Contact Information

- **John Updegraff** | gradpsyc@kent.edu | 330-672-8536
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Psychologists, all other

- 2.3% slower than the average
- 19,800 number of jobs
- $105,780 potential earnings

Psychology teachers, postsecondary

- 8.8% much faster than the average
- 46,800 number of jobs
- $78,180 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

The Department of Psychological Sciences does not accept applicants only interested in pursing the M.A. degree in Psychological Science.

Application Deadlines

- No direct admissions into this program.

Program Requirements
Major Requirements

Code	Title	Credit Hours
Major Requirements		
PSYC 61651	QUANTITATIVE STATISTICAL ANALYSIS I	3
PSYC 61654	QUANTITATIVE STATISTICAL ANALYSIS II	3
PSYC 61685	CLINICAL RESEARCH METHODS [1]	3
or PSYC 62685	RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE	
Additional Program Electives [2]		15
Culminating Requirement		
PSYC 61199	THESIS I	6
Minimum Total Credit Hours:		**30**

1. Students pursuing the Ph.D. degree in Clinical Psychology must take PSYC 61685. Students pursuing the Ph.D. degree in Psychological Science must take PSYC 62685.
2. Additional courses are selected with the aid of an advisor. A limited number of courses outside the department may be credited toward the degree. No 50000-level psychology courses may be applied toward

degree requirements. PSYC 61498 may be used to partially satisfy additional program electives.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- The program requires full-time continuous enrollment, including summers.
- Students pursuing the Ph.D. degree in Psychological Science must complete a first-year project and present it to faculty and graduate students during the fall of their second year.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate mastery of the current theories and significant empirical findings in a major area of psychological science. Mastery includes acquiring both an understanding of these materials as well as the ability to think critically about them.
2. Teach courses in psychological science.
3. Supervise and mentor undergraduate students in both research settings and in the classroom.
4. Design, execute, analyze and report empirical studies that make a significant contribution in a major area of psychological science.

Psychological Science - Ph.D.

College of Arts and Sciences
Department of Psychological Sciences
www.kent.edu/psychology

About This Program

The Psychological Science Ph.D. program offers a rigorous curriculum, expert faculty and hands-on research opportunities that will prepare you for a successful career in academia or industry. Whether your interests lie in cognitive psychology, neuroscience or social psychology, you will receive personalized guidance and support to help you achieve your goals. Read more...

Contact Information

- **Jen Taber** | gradpsyc@kent.edu | 330-672-8536
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Psychologists, all other

- 2.3% slower than the average
- 19,800 number of jobs
- $105,780 potential earnings

Psychology teachers, postsecondary

- 8.8% much faster than the average
- 46,800 number of jobs
- $78,180 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university
- Minimum junior-senior 3.000 undergraduate GPA on a 4.000-point scale
- 18 credit hours in psychology, including a course in statistics
- Broad background in psychology
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

Admission to the Ph.D. degree is limited to students whose records clearly indicate both scholarly and research potential to do doctoral-level work.

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Admitted students to the Ph.D. who would like to declare the Quantitative Methods of Psychology concentration must meet the following admission requirements:

- Good academic standing
- Written approval of the student's primary advisor

- Completion of PSYC 61651 and PSYC 61654 with an A grade or an approved waiver of this criterion based on equivalent prior coursework
- Identification and written acceptance of a quantitative mentor from the list of department quantitative faculty

Application Deadlines

- **Fall Semester**
  - Application deadline: December 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
PSYC 71651	QUANTITATIVE STATISTICAL ANALYSIS I	3
PSYC 71654	QUANTITATIVE STATISTICAL ANALYSIS II	3
PSYC 71894	COLLEGE TEACHING OF PSYCHOLOGY [1]	3
PSYC 72685	RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE	3
Additional Program Electives [2]		3-39
Culminating Requirement		
PSYC 81199	DISSERTATION I [3]	30
Additional Requirements or Concentration		
Choose from the following:		9-15
Additional Requirements for Students Not Declaring a Concentration		
Quantitative Methods of Psychology Concentration		
Minimum Total Credit Hours for Post Baccalaureate Students		**90**
Minimum Total Credit Hours for Post-Master's Students		**60**

1 PSYC 71894 is required for students who teach starting their third year.

2 All doctoral students (regardless of area of specialization) select additional courses and seminars with the aid of a faculty advisor. A limited number of graduate courses outside the department may be credited toward graduation. No 50000-level psychology courses may be applied to the degree program. PSYC 81498 can be used to partially satisfy additional program electives.

3 Doctoral candidates, upon admission to candidacy, must register for PSYC 81199 for a total of 30 hours. It is expected that doctoral candidates will continuously register for PSYC 81199, and thereafter PSYC 81299, each semester, until all requirements for the degree have been met.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements		
Additional Program Electives (see note above)		15
Minimum Total Credit Hours:		**15**

Quantitative Methods of Psychology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Teaching Experience [1]		
Research Experience [2]		
Concentration Electives, choose from the following:		9
PSYC 80501	PSYCHOMETRIC THEORY AND MEASUREMENT	
PSYC 80502	STRUCTURAL EQUATION MODELING	
PSYC 80503	HIERARCHICAL LINEAR MODELING	
PSYC 81691	SEMINAR IN QUANTITATIVE METHODS	
Minimum Total Credit Hours:		**9**

1 Psychologists with strong quantitative skills often are expected to disseminate statistical knowledge to their colleagues; thus, students who pursue the concentration must have at least one practicum experience. This teaching experience can be as an instructor of an undergraduate course (PSYC 21621, PSYC 31684) or becoming the teaching assistant for the first-year graduate sequence.

2 Students must demonstrate mastery of quantitative methodology through the inclusion of an advanced technique as part of a milestone or independent project that has been approved by the student's quantitative mentor. Students should either (a) complete a thesis/dissertation that has a strong quantitative component or (b) publish a first-authored quantitative-focused paper or a first-authored content paper with sophisticated analyses, as determined by the student's quantitative mentor. Specifically, students should demonstrate that they are able to appropriately conduct and interpret sophisticated statistical analyses. Note, however, that this requirement does not necessarily suggest that students need to develop a new statistical technique or methodology.

Candidacy Requirements

- Students who have been admitted into the doctoral program will be considered for Ph.D. candidacy after they have met all requirements for the M.A. degree and have passed a qualifying examination in a major area of specialization in psychology.
- The Department of Psychological Sciences reserves the right to separate from the program a student who, in the opinion of a duly constituted departmental committee, is not likely to succeed professionally despite earning acceptable grades.
- Proficiency in a foreign language is not a requirement for the Ph.D. degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- The program requires full-time continuous enrollment.
- Post-baccalaureate students are required to complete a minimum of four years of full-time attendance.
- Doctoral program aspirants who do not hold a master's degree upon starting the program must complete all the requirements for the master's degree.
- Students must complete a first-year project and present it to faculty and graduate students during the fall of their second year.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate mastery of the current theories and significant empirical findings in a major area of psychological science. Mastery includes acquiring both an understanding of these materials as well as the ability to think critically about them.
2. Teach courses in psychological science.
3. Supervise and mentor undergraduate students in both research settings and in the classroom.
4. Design, execute, analyze and report empirical studies that make a significant contribution in a major area of psychological science.

Full Description

The Ph.D. degree in Psychological Science offers doctoral education and training in psychological science, with specializations in behavioral neuroscience, cognitive psychology, developmental psychology, social psychology and health psychology. The curriculum and other aspects of training offered by the Department of Psychological Sciences prepare students for careers in research and teaching. The program is strongly research-oriented.

The Psychological Science major includes the following optional concentration:

- The **Quantitative Methods of Psychology** optional concentration trains individuals in some of the more recent developments of statistical science and, particularly, the application of these developments to real-world psychological data. One unique feature of the concentration is the focus on the application of quantitative methods in psychological research; although department faculty members have expertise in an area of statistics, they also conduct research in a substantive area of psychology. The concentration is intended for those students who intend to pursue academic careers, wherein the use of advanced quantitative methods in one's own program of research is highly valued, and who also intend to teach undergraduate or graduate courses in statistical methods.

Psychology - B.A.

College of Arts and Sciences
Department of Psychological Sciences
www.kent.edu/psychology

About This Program

The Bachelor of Arts in Psychology program applies the science of understanding and explaining thoughts, emotions and behavior to solving real-world problems, preparing you for graduate study or a wide range of career opportunities. With experienced faculty, hands-on learning opportunities and access to cutting-edge research facilities, you will gain the skills and knowledge needed to make an impact in the field. Read more...

Contact Information

- **Debra Penberthy** | dpenbert@kent.edu | 330-672-0665
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Examples of Possible Careers and Salaries*

Clinical, counseling, and school psychologists

- 3.1% about as fast as the average
- 171,500 number of jobs
- $79,820 potential earnings

Industrial-organizational psychologists

- 2.5% slower than the average
- 1,100 number of jobs
- $96,270 potential earnings

Psychologists, all other

- 2.3% slower than the average
- 19,800 number of jobs
- $105,780 potential earnings

Psychology teachers, postsecondary

- 8.8% much faster than the average
- 46,800 number of jobs
- $78,180 potential earnings

Social science research assistants

- 5.8% faster than the average
- 40,100 number of jobs
- $49,210 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at

which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I [1]	3
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Writing-intensive Course in Psychology		
PSYC 41980	RESEARCH WRITING IN PSYCHOLOGY (WIC)	1-3
or PSYC 41901	WRITING IN PSYCHOLOGY (WIC)	
or PSYC 41573	LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: SOCIAL/CLINICAL (WIC)	
or PSYC 41574	LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: COGNITIVE/LEARNING (WIC)	
Social/Personality Course		
PSYC 31282	PERSONALITY	3
or PSYC 31532	SOCIAL PSYCHOLOGY	
Cognitive Psychology Course		
PSYC 40445	COGNITIVE PSYCHOLOGY	3
or PSYC 40446	COGNITIVE NEUROSCIENCE	
or PSYC 31141	PERCEPTION	
Behavioral Neuroscience/Learning Course		
PSYC 41043	BASIC LEARNING PROCESSES	3
or PSYC 41363	BIOPSYCHOLOGY	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		14-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		38
Additional Requirements or Concentrations		
Choose from the following:		18
Additional Requirements for Students Not Declaring a Concentration		
Child Psychology Concentration		
Counseling Careers Concentration		
Minimum Total Credit Hours:		**120**

1. Students in a double major with either Sociology or Criminology and Justice Studies may substitute SOC 32220 and SOC 32221 for PSYC 21621.
2. On the Kent Campus, students take PSYC 41980, or one of the lab courses (PSYC 41573 or 41574) when offered , all of which have a pre/corequisite of PSYC 31574. Students on the regional campuses should take PSYC 41901 and contact the teacher of the course for further instructions; this course is often paired with an upper-division course in psychology as a corequisite. That course cannot be any of the following: PSYC 31498, PSYC 41498, PSYC 41573 or PSYC 41993. A minimum C grade must be earned in one course to fulfill the writing-intensive requirement.
3. These courses are more advanced and recommended for juniors and seniors.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
Developmental Course		
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
or PSYC 30651	ADOLESCENT PSYCHOLOGY	
or PSYC 30656	PSYCHOLOGY OF AGING	
Clinical/Counseling Course		
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	3
or PSYC 40111	PSYCHOPATHOLOGY	

Psychology (PSYC) Upper-Division Electives (30000 or 40000 level) [1]	9
Additional Requirements (courses do not count in major GPA)	
Kent Core Additional	3
Minimum Total Credit Hours:	**18**

[1] Maximum 6 credit hours of PSYC 31498, PSYC 41492 and PSYC 41498 combined may be applied toward major requirements in psychology.

Child Psychology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
Clinical/Counseling Course		
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	3
or PSYC 40111	PSYCHOPATHOLOGY	
Concentration Electives, choose from the following:		12
PSYC 30651	ADOLESCENT PSYCHOLOGY	
PSYC 30652	SOCIAL AND PERSONALITY DEVELOPMENT	
PSYC 30655	CHILDREN'S THINKING	
PSYC 40112	PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE	
PSYC 40382	PEDIATRIC PSYCHOLOGY	
PSYC 41395	SPECIAL TOPICS IN CHILD PSYCHOLOGY [1]	
Minimum Total Credit Hours:		**18**

[1] Maximum 9 credit hours of PSYC 41395 may be applied toward concentration requirements.

Counseling Careers Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	3
PSYC 40111	PSYCHOPATHOLOGY	3
PSYC 40231	PSYCHOLOGICAL ASSESSMENT	3
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY	3
Developmental Course		
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
or PSYC 30651	ADOLESCENT PSYCHOLOGY	
or PSYC 30656	PSYCHOLOGY OF AGING	
Concentration Elective, choose from the following:		3
PSYC 30111	FORENSIC PSYCHOLOGY	
PSYC 30651	ADOLESCENT PSYCHOLOGY	
PSYC 30655	CHILDREN'S THINKING	
PSYC 40112	PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE	
PSYC 40382	PEDIATRIC PSYCHOLOGY	
PSYC 41364	DRUGS AND BEHAVIOR	
PSYC 41581	HEALTH PSYCHOLOGY	
PSYC 41595	SPECIAL TOPICS IN COUNSELING CAREERS	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmaps

Psychology Major (No Concentration)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Foreign Language		4
	Kent Core Requirement: Math and Critical Reasoning		3-5
	Kent Core Requirement		3
	Credit Hours		**14**
	Semester Two		
	Foreign Language		4
	Developmental or Clinical/Counseling Course		3
	Kent Core Requirement: Kent Core Composition 1		3
	Kent Core Requirement		3
	General Elective		3
	Credit Hours		**16**
	Semester Three		
	PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
	Foreign Language		3
	Kent Core Requirement: Kent Core Composition II		3

	Kent Core Requirement		3
	General Elective		3
	Credit Hours		**15**
	Semester Four		
	PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
	Developmental or Clinical/Counseling Course		3
	Foreign Language		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		**15**
	Semester Five		
	Social/Personality Course		3
	Writing Intensive Course in Psychology		1-3
	Psychology (PSYC) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		3
	Credit Hours		**16**
	Semester Six		
	Behavioral Neuroscience/Learning or Cognitive Course		3
	Kent Core Requirement		3
	General Electives		8
	Credit Hours		**14**
	Semester Seven		
	Behavioral Neuroscience/Learning or Cognition Course		3
	Psychology (PSYC) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		9
	Credit Hours		**15**
	Semester Eight		
	Psychology (PSYC) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		12
	Credit Hours		**15**
	Minimum Total Credit Hours:		**120**

Child Psychology Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Foreign Language		4
	Kent Core Requirement: Math and Critical Reasoning		3-5
	Kent Core Requirement		3
	Credit Hours		**14**
	Semester Two		
	PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
	Foreign Language		4
	Kent Core Requirement: Kent Core Composition 1		3
	Kent Core Requirement		3
	General Electives		3
	Credit Hours		**16**
	Semester Three		
	PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
	Foreign Language		3
	Kent Core Requirement: Kent Core Composition II		3
	Kent Core Requirement		3
	General Electives		3
	Credit Hours		**15**
	Semester Four		
	PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
	Social/Personality or Clinical/Counseling Course		3
	Foreign Language		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		**15**
	Semester Five		
	Social/Personality or Clinical/Counseling Course		3
	Writing-Intensive-Course in Psychology		1-3
	Child Psychology Concentration Elective		3
	Kent Core Requirement		3
	General Electives		5
	Credit Hours		**15**
	Semester Six		
	Behavioral Neuroscience/Learning or Cognition Course		3
	Child Psychology Concentration Elective		3
	Kent Core Requirement		3
	General Electives		6
	Credit Hours		**15**
	Semester Seven		
	Behavioral Neuroscience/Learning or Cognition Course		3
	Child Psychology Concentration Elective		3
	General Electives		9
	Credit Hours		**15**
	Semester Eight		
	Child Psychology Concentration Elective		3
	General Electives		12
	Credit Hours		**15**
	Minimum Total Credit Hours:		**120**

Counseling Careers Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Foreign Language		4
	Kent Core Requirement: Math and Critical Reasoning		3-5
	Kent Core Requirement		3
	Credit Hours		**14**
	Semester Two		
	PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS) (or PSYC 40111 Psychopathology)	3
	Foreign Language		4
	Kent Core Requirement: Kent Core Composition I		3
	Kent Core Requirement		3

	General Elective	3
	Credit Hours	**16**
	Semester Three	
	PSYC 21621 QUANTITATIVE METHODS IN PSYCHOLOGY I	3
	PSYC 40111 PSYCHOPATHOLOGY (or PSYC 21211 PSYCHOLOGY OF EVERYDAY LIFE)	3
	Foreign Language	3-4
	Kent Core Requirement: Kent Core Composition II	3
	Kent Core Requirement	3
	Credit Hours	**15**
	Semester Four	
	PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
	Social/Personality or Developmental Course	3
	Foreign Language	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	**15**
	Semester Five	
	Social/Personality or Developmental Course	3
	Writing-Intensive-Course in Psychology	1-3
	Kent Core Requirement	3
	General Electives	8
	Credit Hours	**15**
	Semester Six	
	PSYC 40231 PSYCHOLOGICAL ASSESSMENT	3
	Behavioral Neuroscience/Learning or Cognition Course	3
	Kent Core Requirement	3
	Counseling Careers Concentration Elective	3
	General Electives	3
	Credit Hours	**15**
	Semester Seven	
	PSYC 40383 INTRODUCTION TO CLINICAL PSYCHOLOGY	3
	Behavioral Neuroscience/Learning or Cognition Course	3
	General Electives	9
	Credit Hours	**15**
	Semester Eight	
	General Electives	15
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the basic theoretical perspectives, principles, concepts, empirical findings and historical trends in psychology.
2. Understand and use fundamental data analysis techniques.
3. Understand and apply basic research methods/tools in psychology and evaluate the adequacy of research designs.
4. Write effectively in the discipline.
5. Recognize, understand and respect the complexity of sociocultural and international diversity.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

Students in the Bachelor of Arts in Psychology apply the science of understanding and explaining thoughts, emotions and behavior to solving real-world problems. Topics include stress, biological influences on behavior, growth and development of children and diagnosis and treatment of psychological disorders. Elective courses may be used to specialize in a number of areas of psychology and to gain hands-on experience in research labs. The degree prepares students for graduate school and employment in a range of fields, including clinical, applied and experimental areas of psychology and related fields such as education, law, human resources and health care.

The Psychology major includes the following optional concentrations:

- The **Child Psychology** concentration is designed for students who are interested specifically in children and adolescents. Topics include child development, psychological disorders of childhood and adolescence, children's cognitive processes, personality development and child-related research experience. The concentration prepares students for graduate study and employment in a range of fields, including counseling for children, clinical psychology1, school psychology, school counseling and employment in settings such as child development centers and related agencies.
- The **Counseling Careers** concentration is designed to prepare students for employment in a range of fields and for master's-level study in all fields of counseling and clinical psychology.[1] Topics include human adjustment, stress and coping, human development, personality, psychological disorders, treatment and intervention techniques, psychometrics, psychopharmacology and clinical or counseling-related research experience.

Students interested in other career paths within psychology may pursue the major without a concentration.[1]

[1] Students who wish to pursue a PhD in clinical or experimental psychology will want to plan their coursework and hands-on activities (research and internships) carefully to increase their chances of admission to the PhD.

Psychology - B.S.

College of Arts and Sciences
Department of Psychological Sciences
www.kent.edu/psychology

About This Program

The Bachelor of Science in Psychology program prepares you for graduate study or careers in fields like clinical psychology and other areas of psychology, neuroscience and medicine. Explore topics such as trauma, brain function, child development, mental health and many others while gaining hands-on research experience. Optional concentrations in Child Psychology and Pre-Medicine/Pre-Podiatry allow you to tailor your degree to your goals. Read more...

Contact Information

- **Debra Penberthy** | dpenbert@kent.edu | 330-672-0665
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Clinical, counseling, and school psychologists

- 3.1% about as fast as the average
- 171,500 number of jobs
- $79,820 potential earnings

Industrial-organizational psychologists

- 2.5% slower than the average
- 1,100 number of jobs
- $96,270 potential earnings

Psychologists, all other

- 2.3% slower than the average
- 19,800 number of jobs
- $105,780 potential earnings

Psychology teachers, postsecondary

- 8.8% much faster than the average
- 46,800 number of jobs
- $78,180 potential earnings

Social science research assistants

- 5.8% faster than the average
- 40,100 number of jobs
- $49,210 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I [1]	3
PSYC 31282	PERSONALITY	3
or PSYC 31532	SOCIAL PSYCHOLOGY	
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
PSYC 31684	QUANTITATIVE METHODS IN PSYCHOLOGY II	3
PSYC 40111	PSYCHOPATHOLOGY	3
PSYC 41363	BIOPSYCHOLOGY	3
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		4
Additional Requirements or Concentrations		
Choose from the following:		71
Additional Requirements for Students Not Declaring a Concentration		
Child Psychology Concentration		
Pre-Medicine/Pre-Podiatry Concentration		
Minimum Total Credit Hours:		**120**

[1] Students who are also declared in the Sociology major may substitute SOC 32220 for PSYC 21621.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level) [1]		12
ANTH, BSCI and PSYC Electives, choose from the following:		6
ANTH 48623	HUMAN VARIATION	
ANTH 48810	HUMAN PALEONTOLOGY	
BSCI 30140	CELL BIOLOGY	
BSCI 30156	ELEMENTS OF GENETICS	
BSCI 30520	INTRODUCTION TO NEUROSCIENCE	
BSCI 40515	ANIMAL BEHAVIOR	
Any Psychology (PSYC) Upper-Division course (30000 or 40000 level) [1]		
Application of Psychological Science Elective, choose from the following:		3-4
Option 1		
PSYC 41980	RESEARCH WRITING IN PSYCHOLOGY (WIC) [2]	
and PSYC Electives, choose from the following (at least 2 credit hours)		
HONR 40099	SENIOR HONORS THESIS/PROJECT (ELR)	
PSYC 31498	UNDERGRADUATE RESEARCH (ELR) [1]	
PSYC 41492	INTERNSHIP IN PSYCHOLOGY (ELR) [1]	
PSYC 41498	INDIVIDUAL INVESTIGATION (ELR) [1]	
PSYC 42574	ADVANCED RESEARCH METHODS	
Option 2		
PSYC 41573	LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: SOCIAL/ CLINICAL (WIC) [2]	
or PSYC 41574	LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: COGNITIVE/LEARNING (WIC)	
Cognition/Learning Electives, choose from the following:		6
PSYC 40445	COGNITIVE PSYCHOLOGY	
PSYC 40446	COGNITIVE NEUROSCIENCE	
PSYC 41043	BASIC LEARNING PROCESSES	
Developmental Elective, choose from the following:		3
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	
PSYC 30651	ADOLESCENT PSYCHOLOGY	
PSYC 30656	PSYCHOLOGY OF AGING	
Mathematics Elective, choose from the following:		3-5
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
Science Electives, choose from the following (must include one laboratory):		8
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		3

Kent Core Additional	6
General Electives	21
Minimum Total Credit Hours:	**71**

[1] No more than 12 credit hours of PSYC 31498, PSYC 41492 and PSYC 41498 combined may be applied toward major requirements in psychology.

[2] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Child Psychology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level) [1]		12
Application of Psychological Science Elective, choose from the following:		3-4
Option 1		
PSYC 41980	RESEARCH WRITING IN PSYCHOLOGY (WIC) [2]	
and PSYC Electives, choose from the following (at least 2 credit hours)		
HONR 40099	SENIOR HONORS THESIS/PROJECT (ELR)	
PSYC 31498	UNDERGRADUATE RESEARCH (ELR) [1]	
PSYC 41492	INTERNSHIP IN PSYCHOLOGY (ELR) [1]	
PSYC 41498	INDIVIDUAL INVESTIGATION (ELR) [1]	
PSYC 42574	ADVANCED RESEARCH METHODS	
Option 2		
PSYC 41573	LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: SOCIAL/ CLINICAL (WIC) [2]	
or PSYC 41574	LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: COGNITIVE/LEARNING (WIC)	
Child Psychology Concentration Electives, choose from the following:		12
PSYC 30651	ADOLESCENT PSYCHOLOGY	
PSYC 30652	SOCIAL AND PERSONALITY DEVELOPMENT	
PSYC 30655	CHILDREN'S THINKING	
PSYC 40112	PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE	
PSYC 40382	PEDIATRIC PSYCHOLOGY	
PSYC 41395	SPECIAL TOPICS IN CHILD PSYCHOLOGY [3]	
Cognition/Learning Electives, choose from the following:		6
PSYC 40445	COGNITIVE PSYCHOLOGY	
PSYC 40446	COGNITIVE NEUROSCIENCE	
PSYC 41043	BASIC LEARNING PROCESSES	
Mathematics Elective, choose from the following:		3-5
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
Science Electives, choose from the following (must include one laboratory):		8
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	
Additional Requirements (courses do not count in major GPA)		
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
General Electives		18
Minimum Total Credit Hours:		**71**

[1] No more than 12 credit hours of PSYC 31498, PSYC 41492 and PSYC 41498 combined may be applied toward major requirements in psychology.

[2] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[3] Maximum 9 credit hours may be applied toward concentration requirements.

Pre-Medicine/Pre-Podiatry Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30130	HUMAN PHYSIOLOGY	3
or BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30171	GENERAL MICROBIOLOGY	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
or CHEM 40245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
PSYC 41980	RESEARCH WRITING IN PSYCHOLOGY (WIC) [1]	1
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level) [2]		6
Cognition/Learning Elective, choose from the following:		3
PSYC 40445	COGNITIVE PSYCHOLOGY	
PSYC 40446	COGNITIVE NEUROSCIENCE	
PSYC 41043	BASIC LEARNING PROCESSES	
Developmental Elective, choose from the following:		3
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	
PSYC 30651	ADOLESCENT PSYCHOLOGY	
PSYC 30656	PSYCHOLOGY OF AGING	
Organic Chemistry courses, choose one of the following:		6
CHEM 20481 & CHEM 20482	BASIC ORGANIC CHEMISTRY I and BASIC ORGANIC CHEMISTRY II	

CHEM 30481 & CHEM 30482	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II

Minimum Total Credit Hours: **71**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] No more than 12 credit hours of PSYC 31498, PSYC 41492 and PSYC 41498 combined may be applied toward major requirements in psychology.

- While individual medical or osteopathy schools may require a variety of additional courses, the following courses are recommended and encouraged:

Code	Title	Credit Hours
BSCI 30518	VERTEBRATE ANATOMY	4
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 42086	ECONOMICS OF HEALTH CARE	3
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
PSYC 40111	PSYCHOPATHOLOGY	3
PSYC 41363	BIOPSYCHOLOGY	3
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	3

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.[1]
- The following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science.[2]
- Minimum Elementary I and II of the same language

[1] All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.

[2] The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Psychology Major (No Concentration)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Science Elective		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
Science Elective		4
Mathematics Elective		3-5
Developmental Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
Cognition/Learning Elective		3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**13**
Semester Five		
PSYC 31282 or PSYC 31532	PERSONALITY or SOCIAL PSYCHOLOGY	3
PSYC 40111	PSYCHOPATHOLOGY	3
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level)		6
General Elective		3
	Credit Hours	**15**
Semester Six		
PSYC 31684	QUANTITATIVE METHODS IN PSYCHOLOGY II	3
PSYC 41363	BIOPSYCHOLOGY	3
Application of Psychological Science Elective		3
General Electives		6
	Credit Hours	**15**
Semester Seven		
ANTH, BSCI or PSYC Elective		3
Psychology (PSYC) Upper-Division Elective (30000 or 40000 level)		3
Cognition/Learning Elective		3
General Electives		6
	Credit Hours	**15**

Semester Eight		
ANTH, BSCI or PSYC Elective		3
Psychology (PSYC) Upper-Division Elective (30000 or 40000 level)		3
General Electives		10
	Credit Hours	**16**
	Minimum Total Credit Hours:	**120**

Child Psychology Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Science Elective		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
Mathematics Elective		3-5
Science Elective		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
Cognition/Learning Elective		3
Psychology (PSYC) Upper-Division Elective (30000 or 40000 level)		3
Foreign Language		4
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Psychology (PSYC) Upper-Division Elective (30000 or 40000 level)		3
Foreign Language		4
Kent Core Requirement		3
	Credit Hours	**13**
Semester Five		
PSYC 31282 or PSYC 31532	PERSONALITY or SOCIAL PSYCHOLOGY	3
PSYC 40111	PSYCHOPATHOLOGY	3
Child Psychology Concentration Elective		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Six		
PSYC 31684	QUANTITATIVE METHODS IN PSYCHOLOGY II	3
Psychology (PSYC) Upper-Division Elective (30000 or 40000 level)		3
Application of Psychological Science Elective		3
General Electives		6
	Credit Hours	**15**
Semester Seven		
PSYC 41363	BIOPSYCHOLOGY	3
Child Psychology Concentration Elective		3
Cognition/Learning Elective		3
Psychology (PSYC) Upper-Division Elective (30000 or 40000 level)		3
General Elective		3
	Credit Hours	**15**
Semester Eight		
Child Psychology Concentration Electives		6
General Electives		10
	Credit Hours	**16**
	Minimum Total Credit Hours:	**120**

Pre-Medicine/Pre-Podiatry Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
BSCI 30140	CELL BIOLOGY	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Credit Hours	**14**
Semester Three		
BSCI 30156	ELEMENTS OF GENETICS	3
CHEM 20481 or CHEM 30481	BASIC ORGANIC CHEMISTRY I or ORGANIC CHEMISTRY I	3-4
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
CHEM 20482 or CHEM 30482	BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY II	2-3
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
PSYC 41901 or PSYC 41980	WRITING IN PSYCHOLOGY (WIC) or RESEARCH WRITING IN PSYCHOLOGY (WIC)	1
Developmental Elective		3
Kent Core Requirement		3
	Credit Hours	**14**

Semester Five		
BSCI 30130 or BSCI 40430	HUMAN PHYSIOLOGY or ANIMAL PHYSIOLOGY	3
BSCI 30171	GENERAL MICROBIOLOGY	4
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Cognition/Learning Elective		3
	Credit Hours	**15**
Semester Six		
CHEM 30284 or CHEM 40245	INTRODUCTORY BIOLOGICAL CHEMISTRY or BIOCHEMICAL FOUNDATIONS OF MEDICINE	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
PSYC 31282 or PSYC 31532	PERSONALITY or SOCIAL PSYCHOLOGY	3
PSYC 31684	QUANTITATIVE METHODS IN PSYCHOLOGY II	3
	Credit Hours	**15**
Semester Seven		
PSYC 40111	PSYCHOPATHOLOGY	3
PSYC 41363	BIOPSYCHOLOGY	3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Eight		
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level)		6
Foreign Language		4
General Electives		4
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the basic theoretical perspectives, principles, concepts, empirical findings and historical trends in psychology.
2. Understand and use fundamental data analysis techniques.
3. Understand and apply basic research methods/tools in psychology and evaluate the adequacy of research designs.
4. Write effectively in the discipline.
5. Recognize, understand and respect the complexity of sociocultural and international diversity.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Psychology is designed to prepare students for graduate study in psychology, medicine, and related fields. Topics include stress and trauma, neural basis of learning and memory, social and biological influences on mental and physical health, growth and development of children and diagnosis and treatment of psychological disorders. Students evaluate and interpret data and gain

hands-on experience through internships or conducting research. Elective courses may be used to specialize in a number of areas of psychology and related fields such as neuroscience. The degree prepares students for graduate study and employment in a range of fields, including clinical psychology, research and experimental areas of psychology such as cognitive science and behavioral neuroscience and related fields such as medicine and neuroscience.

The Psychology major includes the following optional concentrations:

- The **Child Psychology** concentration is designed to prepare students for graduate study in clinical psychology, research and experimental areas of psychology, school counseling, developmental psychology, school psychology or related disciplines that require knowledge of interpersonal relationships and human development. Topics include child development, psychological disorders of childhood and adolescence, children's cognitive processes, personality development and child-related research experience.
- The **Pre-Medicine/Pre-Podiatry** concentration prepares students to take the Medical College Admission Test (MCAT) and have the required prerequisites necessary for applying to medical school.

Students may declare the program with no concentration and develop a plan of study to meet their career path within psychology.

Psychology - Minor

College of Arts and Sciences
Department of Psychological Sciences
www.kent.edu/psychology

About This Program

The Psychology minor gives students an overview of the major concepts, theories and methods of the discipline of psychology. Students are able to understand the relevance of psychological concepts and perspectives to understanding and explaining thoughts, emotions and behavior and applying that knowledge to real-world settings. Students are encouraged to use the elective courses in the minor to complement their major area of study as psychology is relevant for many careers, including nursing, business, teaching, biology, human services, justice studies and sociology.

Contact Information

- **Debra Penberthy** | dpenbert@kent.edu | 330-672-0665
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I [1]	3
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Psychology (PSYC) Electives [2]		12
Minimum Total Credit Hours:		**21**

[1] Students who are declared in either the Sociology major or Criminology and Justice Studies major may substitute SOC 32220 for PSYC 21621.

[2] Maximum 3 credit hours of PSYC 31498, PSYC 41492, PSYC 41495, PSYC 41498 and PSYC 41574 combined may be applied toward minor requirements. Minimum 9 credit hours of upper division courses (30000 and 40000 level) must be completed.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe major concepts, theories and methods of the discipline of psychology.
2. Explain the relevance of psychological concepts and perspectives to understanding and explaining thoughts, emotions and behavior.

3. Apply their knowledge of the relevance of psychological concepts and perspectives to understanding and explaining thoughts, emotions and behavior to real-world settings.

Department of Sociology and Criminology

College of Arts and Sciences
Department of Sociology and Criminology
215 Merrill Hall
Kent Campus
330-672-2562
soc_crim@kent.edu
www.kent.edu/sociology

Undergraduate Programs

- Criminology and Justice Studies - B.A.
- Sociology - B.A.

Minors

- Criminology and Justice Studies
- Sociology
- Society, Health and Medicine

Graduate Programs

- Criminology and Criminal Justice - M.A.
- Sociology - M.A.
- Sociology - Ph.D.

Department of Sociology and Criminology Faculty

- Adams, Richard E. (2007), Professor, Ph.D., Indiana University-Bloomington, 1989
- Bloch, Katrina R. (2008), Professor, Ph.D., North Carolina State University, 2009
- Campbell, Beth A. (2005), Professor, Ph.D., University of Akron, 2018
- Catto, Rebecca (2016), Associate Professor
- Chopko, Brian A. (2007), Professor, Ph.D., University of Akron, 2007
- Dum, Christopher (2014), Associate Professor, Ph.D., University at Albany-SUNY, 2014
- Fisk, Susan R. (2015), Associate Professor, Ph.D., Stanford University, 2015
- Foster, Michelle L. (2010), Associate Professor, M.A., Kent State University, 2011
- Gallagher, Mary N. (2001), Associate Professor, Ph.D., Kent State University, 2012
- Gibson, Gregory C. (2012), Professor, Ph.D., Purdue University, 2008
- Goar, Carla D. , Professor
- Graff, David R. (1994), Senior Lecturer, M.S., Mercyhurst College, 1984
- Haas, Anne E. (1996), Professor, Ph.D., The Ohio State University, 2005
- Jones, Adrian M. (2001), Associate Professor, Ph.D., Kent State University, 2012
- Kalkhoff, William W. (2002), Professor, Ph.D., University of Iowa, 2002
- Kunkle, Susan M. (2004), Professor, Ph.D., Kent State University, 2011
- Leveto, Jessica A. (2005), Associate Professor, Ph.D., Kent State University, 2012
- Licuanan-Galela, Maria N. (1995), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 1995
- Lowery, Allen (2014), Assistant Professor
- Marcussen, Kristen A. (2000), Professor, Ph.D., University of Iowa, 2000
- Mastriacovo, Paul A. (1982), Senior Lecturer, J.D., University of Akron, 1978
- Nader, Elias (2021), Assistant Professor, Ph.D., University Of Massachusetts-Lowell, 2019
- Nasheri, Hedieh (1990), Professor, Ph.D., Case Western Reserve, 1992
- Pai, Manacy (2008), Associate Professor, Ph.D., Florida State University, 2008
- Pollock, Joshua W. (2014), Associate Professor, Ph.D., University of Akron, 2014
- Ray, Kasey (2015), Associate Professor, Ph.D., University of Akron, 2015
- Robison, Kristenne M. (2019), Assistant Professor, Ph.D., Syracuse University, 2010
- Rose, Lydia (2010), Associate Professor, Ph.D., Purdue University, 1997
- Rose, Norman R. (2007), Associate Professor
- Roxburgh, Susan J. (1994), Professor, Ph.D., University of Toronto, 2020
- Schiller, J. Zach (2006), Assistant Professor, Ph.D., University of California-Davis, 2005
- Shura, Robin A. (2018), Associate Professor, Ph.D., Case Western Reserve, 2010
- Solomon, Starr (2018), Associate Professor, Ph.D., University of Nebraska Omaha, 2018
- Stacey, Clare L. (2006), Associate Professor, Ph.D., University of California-Davis, 2004
- Taylor, Tiffany L. (2008), Professor, Ph.D., North Carolina State University at Raleigh, 2008
- Tontodonato, Pamela (1987), Associate Professor, Ph.D., University of Pennsylvania, 1986
- Vander Horst, Anthony (2011), Professor, The Ohio State University, 2012
- Warren, Deirdre M. (2009), Associate Professor, Ph.D., Sam Houston State University, 2009
- Wilson, Mary G. (1998), Professor, Ph.D., Kent State University, 2010

Criminology and Justice Studies (CRIM)

CRIM 12000 INTRODUCTION TO JUSTICE STUDIES 3 Credit Hours
Surveys the U.S. criminal justice system and its component institutions and processes, including overviews of policing, corrections, courts, and their inter-relations in the criminal justice system. An overview is also provided of the nature and measurement of crime, patterns of offending and victimization, and criminal justice responses to offending and victimization. Historical and emerging issues are introduced including a variety of insights related to effective, professional and ethical practices in criminal justice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

CRIM 13000 CRIME AND TECHNOLOGY 3 Credit Hours
This course is designed to provide a comprehensive understanding of how technologies are shaping crime and justice. This course aims to focus on the broader societal impact of technologies in order to build knowledge and awareness. The course topics introduced touch on other academic disciplines such as philosophy, economics, criminal justice and sociology, weaving together the critical trends and the shifting technological revolution that is currently underway.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 22100 BASIC INTERVIEWING 3 Credit Hours
Foundation of basic interviewing principles, including communication models, question format, distortions, topic control, inhibitors, facilitators, listening, types of interviews and practical exercises.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 22200 INTERPERSONAL AND PROFESSIONAL SKILLS FOR PUBLIC SAFETY PROFESSIONALS 3 Credit Hours
Course prepares students with law enforcement-related verbal and written skills that are essential for bridging the communication gap and ensuring safety, success with cases and written reports and rapport with the citizens officers are sworn to protect. Officers encounter a variety of citizens daily from different cultures, backgrounds, socioeconomic statuses, abilities and crisis situations. This course prepares students to create a culture of mutual respect and build trust and relationships essential in de-escalating situations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 22300 POLICE ROLE 3 Credit Hours
Systematic analysis of the police role. An examination of the related research with an emphasis on divergent perspective and development of conceptual models.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

CRIM 22301 THE INVESTIGATIVE PROCESS 3 Credit Hours
An examination of established investigative processes, techniques employed in conducting a systematic investigation and legal implications.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 26701 CORRECTIONS 3 Credit Hours
Course topics include history of corrections, punishment, community corrections, correctional institutions, correctional administration, issues in corrections, and future trends of corrections.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

CRIM 26704 ISSUES IN LAW AND SOCIETY (KSS) 3 Credit Hours
General treatment of the legal system with special emphasis on its origin, structure and functional consequences on issues and problems in modern society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Social Sciences, Transfer Module Social Sciences

CRIM 27095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 2,3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Intensive analysis of issues significant and current in the field which are not covered in regular courses.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter

CRIM 27311 VICTIMOLOGY 3 Credit Hours
Patterns of victim-offender relationship and process of victimization. Role of victims in criminal process. Problems of adjustment to victimization and issues in victim compensation.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 32005 CAREER PATHWAYS IN SOCIOLOGY AND CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours
(Cross-listed with SOC 32005) This course equips students with an understanding of the career pathways available after completing a major or minor in sociology or criminology and justice studies. Provides students with a broad overview of career paths in sociology and criminology and justice studies while also helping students identify opportunities for internships and research while at Kent State.
Prerequisite: CRIM 12000 or SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 32200 POLICE AND COMMUNITY 3 Credit Hours
An examination of the rights of individuals, citizen involvement, the police as members of the community, and the development implementation and evaluation of related programs.
Prerequisite: CRIM 12000 and CRIM 22300; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 32500 CRISIS INTERVENTION 3 Credit Hours
Crisis intervention situations in criminal justice are considered. The service role of criminal justice personnel, community resources and skill development are also considered.
Prerequisite: CRIM 12000; and CRIM 22300 or CRIM 27311; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 32762 DEVIANT BEHAVIOR 3 Credit Hours
(Cross-listed with SOC 32762) Overview of classical and contemporary theories and perspectives on the nature, causes and societal management of deviant behavior. Application of theories and perspectives to modern and historical social problems, methods of punishment and policy trends in social control.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 33200 CRIMINAL LAW 3 Credit Hours
Developmental backgrounds and principles of criminal law; structure, functions of criminal law; rules of criminal liability and procedural requisites in criminal proof. Case analysis included.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 33300 DEVELOPMENT OF JUSTICE IN AMERICA 3 Credit Hours
Course focuses on the evolution of the criminal justice process from its establishment in the United States to the present.
Prerequisite: CRIM 12000; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 33400 CRIME AND JUSTICE IN POPULAR CULTURE 3 Credit Hours
Crime and criminal justice as they are socially constructed and portrayed in popular culture including television, news and entertainment, popular film and other media of popular culture. Critical analysis of relations between popular culture, media institutions, crime and justice. Role of popular culture media in shaping public opinions about crime and justice, and in turn the relevance of public opinion for understanding criminal justice politics and policy.
Prerequisite: CRIM 12000; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 34200 CRIMINAL PROCEDURES AND EVIDENCE 3 Credit Hours
This course focuses on the use of evidence and the legal procedures followed in the processing of criminal cases. Case analysis and writing assignments required.
Prerequisite: CRIM 12000 or PLST 18000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 34311 YOUTH AND THE JUSTICE SYSTEM 3 Credit Hours
Analysis of situations involving the legal rights of children and youths, which demand intervention by justice institutions or service agencies.
Prerequisite: CRIM 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 34500 UNDERSTANDING CRIMINAL LAW THROUGH FICTION 3 Credit Hours
Exploration of legal concepts and their application as reflected in popular and literary fiction. Legal analysis of important issues involving criminal and civil law, criminal and civil procedures, evidence, courts and related legal topics. Application of legal issues and procedures to real life situations.
Prerequisite: CRIM 12000 and CRIM 26704; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 36702 CRIMINOLOGY 3 Credit Hours
Examines crime from the legal and social viewpoints including extent and patterns of criminal behavior. Special emphasis on theoretical explanations of criminal behavior and crime rates.
Prerequisite: CRIM 12000 or SOC 12050; and Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter
Attributes: CTAG Criminal Justice, TAG Social and Behavioral Sciences

CRIM 36703 JUVENILE DELINQUENCY 3 Credit Hours
Social and personal factors in juvenile delinquency; operation of juvenile justice system; prevention and control of delinquency.
Prerequisite: CRIM 12000 and CRIM 36702.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 36800 LGBTQ POPULATIONS IN THE JUSTICE SYSTEM (DIVD) 3 Credit Hours
This course explores research on LGBTQ (lesbian, gay, bisexual, transgender, and queer) populations in the juvenile and criminal justice systems. Students will examine the role that sexual orientation, gender identity, and gender expression play in the juvenile and criminal justice system, with particular attention given to the experiences of LGBTQ people within these institutions. Drawing on sociological theories of sex and gender and queer criminology, the course will review historical trends in the treatment of LGBTQ people in the justice systems, circumstances facing LGBTQ populations (sexual assault, harassment, hate crimes, institutional discrimination), and policy developments and innovations.
Prerequisite: SOC 12050 or CRIM 12000; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

CRIM 37091 SEMINAR IN CRITICAL ISSUES IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours
(Repeatable for credit) Intense analysis of issues significant and current in the justice field which are not covered in regular courses.
Prerequisite: CRIM 12000; and sophomore standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

CRIM 37095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)Intensive analysis of issues significant and current in the field which are not covered in regular courses. Repeatable for a total of 6 hours.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 37311 MINORITIES IN CRIME AND JUSTICE (DIVD) 3 Credit Hours
Focus on the role of social and ethnic minorities as victims, offenders and participants in the justice process.
Prerequisite: CRIM 12000 or SOC 12050; and Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter
Attributes: Diversity Domestic

CRIM 37411 WOMEN IN CRIME AND JUSTICE (DIVD) 3 Credit Hours
Women as a significant group in crime and their role in the development and operation of the criminal justice system.
Prerequisite: CRIM 12000 or SOC 12050; and Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter
Attributes: Diversity Domestic

CRIM 37511 IMMIGRATION: LAW, CRIME AND JUSTICE (DIVD) 3 Credit Hours
Covers issues of immigration related to law, crime, and justice. Students will be introduced to issues of international diversity through the consideration of issues of law, criminal justice, and social justice related to immigration. Topics to be covered include legal and illegal immigration, immigration law enforcement, immigrants as criminal offenders and as crime victims, police-community relations, immigrants in correctional or detention facilities, and immigration as a national security concern and controversy.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

CRIM 42577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours
(Cross-listed with SOC 42577)(Slashed with CRIM 52577 and SOC 52577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, intimate partner abuse, elderly abuse, rape, sexual abuse of children.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 44400 JUSTICE ADMINISTRATION 3 Credit Hours
Identification of administrative and management functions, leadership management styles and supervision of personnel in justice organizations.
Prerequisite: CRIM 12000; and CRIM 22300 (or CRIM 26701); and CRIM 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 45093 VARIABLE TITLE WORKSHOP IN CRIMINOLOGY AND JUSTICE STUDIES 1-6 Credit Hours
(Repeatable for credit) (Slashed with CRIM 55093)
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

CRIM 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours when topic varies) Involves an individual research project of considerable depth in a subject area not covered by regular course offerings. Prior consent of supervising faculty member is required.
Prerequisite: CRIM 12000 and 26704; and SOC 32210; and junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

CRIM 46200 CURRENT CONTROVERSIAL LEGAL ISSUES 3 Credit Hours
Focuses on reading, analyzing and discussing current criminal, evidentiary and procedural issues as set forth in recent and historical U.S. Supreme Court cases. Case analysis, discussion and writing assignments are required.
Prerequisite: CRIM 12000 or PLST 18000; and junior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CRIM 46701 CRIME, JUSTICE AND SUBSTANCE ABUSE 3 Credit Hours
(Slashed with CRIM 56701) Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered.
Prerequisite: CRIM 12000 and CRIM 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46705 COMMUNITY CORRECTIONS 3 Credit Hours
(Slashed with CRIM 56705) This course is devoted to an examination of formal and informal approaches to correctional supervision and treatment through probation, parole and community residential treatment.
Prerequisite: CRIM 12000 and CRIM 26701.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46707 CORRECTIONAL INSTITUTIONS 3 Credit Hours
A thorough examination of the correctional institution, including the structure and organization, personnel, inmate social world and examination of the issues in contemporary correctional institutions.
Prerequisite: CRIM 12000 and CRIM 26701.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46708 TREATMENT METHODS 3 Credit Hours
(Slashed with CRIM 56708) Various methods of treatment are applied to corrections field. Focus is on specific techniques in community and institutional correctional settings. Direct observation utilized when possible.
Prerequisite: CRIM 12000 and 26701; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46792 INTERNSHIP (ELR) 3-9 Credit Hours
(Repeatable for credit) Work experience under the direction of supervising faculty member in a private, federal, state or local justice agency/organization, law agency/organization.
Prerequisite: CRIM 12000; and minimum 2.000 overall GPA; and Criminology and Justice Studies major or minor; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CRIM 46798 RESEARCH IN CRIMINOLOGY AND JUSTICE STUDIES (ELR) 3-12 Credit Hours
(Repeatable for credit) Individual research under direct supervision of a faculty member to provide direct hands-on research experience working on faculty research projects. Prior consent of supervising faculty member is required. Only 6 hours of nontraditional coursework can count towards the major.
Prerequisite: CRIM 12000 and CRIM 26704; and SOC 32210; and special approval.
Schedule Type: Research
Contact Hours: 3-12 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

CRIM 46800 INTELLIGENCE AND NATIONAL SECURITY 3 Credit Hours
(Slashed with CRIM 56800) Addresses topics related to global security, including economic and industrial espionage, trade secret thefts, law and technology and cyber-crimes. Implications of industrial espionage and intellectual property theft for the global economy, national and international security, and the control and regulation of white collar crime. Foundational exploration of Intelligence and Counterintelligence (IC) as concepts, processes and careers.
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46801 HOMELAND SECURITY 3 Credit Hours
(Slashed with CRIM 56801) Explores the nexus between terrorism and homeland security as it relates to homeland security strategy, assessment, evaluation, preparation, responses, and recovery actions and mechanisms relating to terrorism and homeland security. There is a focus on the importance of coordination of various assessments, plans, strategies and implementation of plans of action involving local, county, state, federal and international responses pertaining to terrorism and homeland security.
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46802 TERRORISM AND COUNTERTERRORISM 3 Credit Hours
(Slashed with CRIM 56802) Examines the origins and evolution of modern terrorism, challenges posed by terrorist groups to states and to the international system, and strategies employed to confront and combat terrorism. Assesses a wide variety of terrorist organizations, and explores the psychological, socioeconomic, political, and religious causes of terrorist violence past and present. Also analyzes the strengths and weaknesses of various counterterrorism efforts.
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46803 INFORMATION AND CYBER SECURITY 3 Credit Hours
(Slashed with CRIM 56803) Vulnerabilities of computer networks and techniques for protecting networks and data are discussed. Basic elements of symmetric and asymmetric cryptography, secure e-commerce, involving secure transmission, authentication, digital signatures, digital certificates and Public Key Infrastructure (PKI) are presented. Provides students with an introduction to the field of information security risk assessment. Incorporates cases in risk analysis derived from actual state and law enforcement agencies or private firms.
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 46904 ISSUES IN POLICE WORK 3 Credit Hours
(Slashed with CRIM 56904) Analysis of police practices and functions at the municipal, state and federal level. Examination of emerging trends and issues in policing. Review of changes in police department policies and research on problem-solving in policing.
Prerequisite: CRIM 12000 and CRIM 22300; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47002 HUMAN SERVICE AGENCIES AND THE LAW 3 Credit Hours
(Slashed with CRIM 57002) An overview of the law as it pertains to human service agencies, as well as on the relationships between such agencies and the criminal and juvenile justice systems. Focused attention is given to agencies that closely connect with vulnerable populations (such as children and the poor) and those that work closely with policing and corrections (such as mental health agencies and halfway houses).
Prerequisite: CRIM 12000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47003 RESTORATIVE JUSTICE AND VICTIM ASSISTANCE 3 Credit Hours
(Slashed with CRIM 57003) An inquiry into the theories and research in restorative justice, as well as an assessment of victim assistance protocols and programs. Examines restorative justice and victim assistance initiatives that provide an alternative framework for dealing with crime that places victim needs in a primary position, while addressing legal concerns and interagency differences.
Prerequisite: CRIM 12000 and CRIM 27311; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47004 LEGAL PERSPECTIVES AND RIGHTS IN VICTIMIZATION 3 Credit Hours
(Slashed with CRIM 57004) An analysis of the legal rights of victims of crime at state and federal levels as well as a review of how these laws relate to the treatment of victims within the criminal and juvenile justice systems, with particular focus on the courts and correctional institutions. Relevant legislative and Constitutional changes and challenges are also addressed.
Prerequisite: CRIM 12000 and CRIM 27311; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours
(Repeatable for credit) Intensive analysis of issues significant and current in the field which are not covered in regular courses.
Prerequisite: CRIM 12000 and 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47211 COURT FUNCTIONS 3 Credit Hours
Analysis of the structure, functions and critical role of incumbents in the criminal court.
Prerequisite: CRIM 12000 and 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 47311 COMPARATIVE JUSTICE SYSTEMS 3 Credit Hours
A systematic comparison of the developmental backgrounds, structure and functioning of the major systems of justice in the modern world.
Prerequisite: CRIM 12000 and CRIM 26704.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 52577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours
(Cross-listed with SOC 52577)(Slashed with CRIM 42577 and SOC 42577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, intimate partner abuse, elderly abuse, rape, sexual abuse of children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 55093 VARIABLE TITLE WORKSHOP IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with CRIM 45093) Classroom presentations and field study focused on professional and disciplinary concerns. Specific content varies with workshop topic.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CRIM 56701 CRIME, JUSTICE AND SUBSTANCE ABUSE 3 Credit Hours
(Slashed with CRIM 46701) Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56705 COMMUNITY CORRECTIONS 3 Credit Hours
(Slashed with CRIM 46705) Study of community-based correctional supervision and treatment, examining probation, parole, and related residential programs. Topics covered include the history and organization of, and best practices in, community corrections.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56708 TREATMENT METHODS 3 Credit Hours
(Slashed with CRIM 46708) Addresses institutional- and community-based treatment of offenders. Coverage includes the theoretical foundations of treatment and common intervention strategies, including evidence-based practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56709 EMERGING TRENDS AND ISSUES IN CORRECTIONS 3 Credit Hours
Explores recent developments pertinent to the field of corrections, including sentencing trends, innovative practices, and legal developments. Analysis of emerging strategies for offender treatment, re-entry, and institutional and community safety.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56800 INTELLIGENCE AND NATIONAL SECURITY 3 Credit Hours
(Slashed with CRIM 46800) Addresses topics related to global security, including economic and industrial espionage, trade secret thefts, law and technology and cyber-crimes. Implications of industrial espionage and intellectual property theft for the global economy, national and international security, and the control and regulation of white collar crime. Foundational exploration of Intelligence and Counterintelligence (IC) as concepts, processes and careers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56801 HOMELAND SECURITY 3 Credit Hours
(Slashed with CRIM 46801) Explores the nexus between terrorism and homeland security as it relates to homeland security strategy, assessment, evaluation, preparation, responses, and recovery actions and mechanisms relating to terrorism and homeland security. There is a focus on the importance of coordination of various assessments, plans, strategies and implementation of plans of action involving local, county, state, federal and international responses pertaining to terrorism and homeland security.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56802 TERRORISM AND COUNTERTERRORISM 3 Credit Hours
(Slashed with CRIM 46802) Examines the origins and evolution of modern terrorism, challenges posed by terrorist groups to states and to the international system, and strategies employed to confront and combat terrorism. Assesses a wide variety of terrorist organizations, and explores the psychological, socioeconomic, political, and religious causes of terrorist violence past and present. Also analyzes the strengths and weaknesses of various counterterrorism efforts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56803 INFORMATION AND CYBER SECURITY 3 Credit Hours
(Slashed with CRIM 46803) Vulnerabilities of computer networks and techniques for protecting networks and data are discussed. Basic elements of symmetric and asymmetric cryptography, secure e-commerce, involving secure transmission, authentication, digital signatures, digital certificates and Public Key Infrastructure (PKI) are presented. Provides students with an introduction to the field of information security risk assessment. Incorporates cases in risk analysis derived from actual state and law enforcement agencies or private firms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 56904 ISSUES IN POLICE WORK 3 Credit Hours
(Slashed with CRIM 46904) Analysis of police practices and functions at the municipal, state and federal level. Examination of emerging trends and issues in policing. Review of changes in police department policies and research on problem-solving in policing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 57002 HUMAN SERVICE AGENCIES AND THE LAW 3 Credit Hours
(Slashed with CRIM 47002) An overview of the law as it pertains to human service agencies, as well as on the relationships between such agencies and the criminal and juvenile justice systems. Focused attention is given to agencies that closely connect with vulnerable populations (such as children and the poor) and those that work closely with policing and corrections (such as mental health agencies and halfway houses).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 57003 RESTORATIVE JUSTICE AND VICTIM ASSISTANCE 3 Credit Hours
(Slashed with CRIM 47003) An inquiry into the theories and research in restorative justice, as well as an assessment of victim assistance protocols and programs. Examines restorative justice and victim assistance initiatives that provide an alternative framework for dealing with crime that places victim needs in a primary position, while addressing legal concerns and interagency differences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 57004 LEGAL PERSPECTIVES AND RIGHTS IN VICTIMIZATION 3 Credit Hours
(Slashed with CRIM 47004) An analysis of the legal rights of victims of crime at state and federal levels as well as a review of how these laws relate to the treatment of victims within the criminal and juvenile justice systems, with particular focus on the courts and correctional institutions. Relevant legislative and Constitutional changes and challenges are also addressed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 57095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours
(Repeatable for credit) Intensive analysis of issues significant and current in the field which are not covered in regular courses.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CRIM 66199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CRIM 66299 THESIS II 2 Credit Hours
Thesis students must continue to register for each semester until all degree requirements are met.
Prerequisite: CRIM 66199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CRIM 66761 LAW, JUSTICE AND SOCIETY 3 Credit Hours
Review of the origins, structure and functioning of law in relation to social context and process. Critical assessment of the use of law and legal institutions to address societal problems. Examination of the role that social inequality plays in crime and justice, nationally and internationally.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66763 THEORIES OF CRIME AND DELINQUENCY 3 Credit Hours
Study of the nature and causes of criminal and delinquent behavior, with an emphasis on major contemporary criminological theories. Includes critical analysis of relevant research and policy implications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66766 INSTITUTIONAL CORRECTIONS 3 Credit Hours
Explores the historical development and theoretical foundations of the correctional institution, including jails and prisons, the structure of institutions and operational challenges. Incorporates overview of contemporary issues and the correctional institution as a social system.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66767 JUSTICE ADMINISTRATION 3 Credit Hours
Introduces students to theories of organization and administration and their application to the administration of justice institutions. The course is divided into two sections: (1) theories of administration and organization and (2) application of theories to management of police functions. Includes use of theories to diagnose and reform justice institutions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66768 RESEARCH METHODS IN CRIMINOLOGY AND CRIMINAL JUSTICE 3 Credit Hours
Examines the methodology of research designs and techniques used in criminology and criminal justice. Provides students with an overview of the logic of research in order to critically evaluate research in the field. Focuses on the specific skills needed to conduct basic and evaluation research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66770 JUSTICE INSTITUTIONS 3 Credit Hours
Introduces students to the analysis of U.S. criminal justice institutions. Examines methods of institutional analysis, theories of administration, and the application of these theories to the understanding of police, courts and corrections.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66772 VICTIMOLOGY 3 Credit Hours
Exploration of victimology, the scientific study of the physical, emotional, and financial harm people suffer because of criminal activities. Examination of the impact of crime on victims, measuring crime through victimization, patterns of victim-offender relationships, and the role of the victim within the criminal and juvenile justice systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66773 CONTEMPORARY POLICING 3 Credit Hours
The fundamental question of this course is how to create the most effective police organization. This course examines the various theories and research on police service. Examines the nature of coercion in human interaction and the legitimate use of force by police. Study of the various philosophies and research on the Standard Model of policing, Community-Oriented Policing, and Problem-Oriented Policing. Reviews theories of police administration and the research corroborating or refuting the validity of those theories.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CRIM 66795 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Offered irregularly, this course provides opportunity to study special issues developments and programs in justice studies. Topics vary.
Prerequisite: Graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CRIM 66796 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Intensive study of a subject which the student cannot normally pursue in a regularly scheduled course. Individual investigation topic must be approved by instructor and graduate coordinator.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

CRIM 66899 PROSEMINAR CAPSTONE: ISSUES IN CONTEMPORARY JUSTICE 3 Credit Hours
Capstone experience. Students synthesize program knowledge about current issues and challenges faced by the U.S. justice system through the completion of an approved, written project that is analytical and research based.
Prerequisite: CRIM 66763 and CRIM 66768; and 15 additional credit hours of Criminology and Justice Studies (CRIM) graduate courses; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

Sociology (SOC)

SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS) 3 Credit Hours
Scientific approach to understanding social interaction, institutions and organization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

SOC 22570 UNDERSTANDING DIFFERENCES AND INEQUALITY 3 Credit Hours
An introduction to the cultural and structural factors creating and sustaining educational, economic and political inequality by race, ethnicity, gender, class and sexual orientation with an emphasis on issues of poverty and immigration.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

SOC 22778 SOCIAL PROBLEMS (DIVG) (KSS) 3 Credit Hours
Contemporary American and global social problems and issues are analyzed from sociological perspectives. Several cases are used to illustrate the emergence, development and decline of problems in social context.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

SOC 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES 3 Credit Hours
(Equivalent to HDF 24011) Exploration of the sociological nature of families across the lifespan, focusing on structure, diversity and life course processes such as dating, mate selection, cohabitation, marriage, parenthood, divorce, remarriage, singlehood, widowhood, parent-child interactions, sexual orientation, inequality and difference.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Social and Behavioral Sciences

SOC 31092 PRACTICUM IN SOCIOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Individual research experience in Sociology.
Prerequisite: SOC 32210; and junior standing.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SOC 32005 CAREER PATHWAYS IN SOCIOLOGY AND CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours
(Cross-listed with CRIM 32005) This course equips students with an understanding of the career pathways available after completing a major or minor in sociology or criminology and justice studies. Provides students with a broad overview of career paths in sociology and criminology and justice studies while also helping students identify opportunities for internships and research while at Kent State.
Prerequisite: CRIM 12000 or SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 32096 INDIVIDUAL INVESTIGATION IN SOCIOLOGY 1-3 Credit Hours
(Repeatable for credit)Readings and/or research supervised by member of sociology faculty.
Prerequisite: SOC 12050; and junior standing; and special approval of instructor.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SOC 32210 RESEARCHING SOCIETY (ELR) (WIC) 3 Credit Hours
Survey of methods and techniques of research; research design and data gathering instruments; qualitative and quantitative analysis.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SOC 32220 DATA ANALYSIS 3 Credit Hours
The use of quantitative methods in the analysis of data from social research. Emphasis on descriptive statistics.
Prerequisite: SOC 12050.
Corequisite: SOC 32221.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 32221 DATA ANALYSIS LABORATORY 1 Credit Hour
Analysis of sociological data utilizing statistical and electronic data processing tools.
Corequisite: SOC 32220.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

SOC 32400 INDIVIDUAL AND SOCIETY 3 Credit Hours
Foundations of social psychology; process of socialization; development of social and personal identities; small group and collective behavior; theories of deviance.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 32510 JOBS, WORK AND INEQUALITY 3 Credit Hours
This course examines trends in the sociological relationships between jobs/occupations, work, the global economy and inequality. Specifically, the course focuses on relationships between work and power, job (in)security, resources, mobility and quality of life. Additionally, it examines how work is affected by social structure and social change; how individuals and groups end up in certain jobs/occupations; and future trends (e.g., gig work, labor unions, low wage work, demands for flexibility, remote work).
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 32560 SOCIOLOGY OF FAMILIES (DIVD) 3 Credit Hours
Social history of the American family. Examination of how race, ethnicity, sexual orientation, class, gender and age contribute to variation in the experience and structure of family life in the U.S.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 32565 SOCIOLOGY OF SEXUALITIES (DIVD) 3 Credit Hours
Examination of the social production, meaning, and consequences of identities, practices, and inequalities related to sexualities, gender identity and gender expression.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 32569 MINORITIES IN THE UNITED STATES (DIVD) 3 Credit Hours
Considers the nature and significance of minority groups and majority minority relations in the United States. Reviews experiences of racial and ethnic minorities, religious minorities, women, sexual minorities, the elderly and differently abled Americans.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, TAG Social and Behavioral Sciences

SOC 32570 INEQUALITY IN SOCIETIES (DIVD) 3 Credit Hours
Sociological analysis of stratification and inequality in societies, and the social structures that produce and maintain them. Particular emphasis on the intersections of race, class and gender in American society.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 32673 CITIES AND URBAN SOCIAL LIFE (DIVG) 3 Credit Hours
This course covers the history and development of urban areas over time (urbanization), paying attention to sociological theories of power and stratification. In addition, the class examines how sociological theories of culture and social interaction help to explain why people behave the way they do in different urban environments (urbanism). Finally, the course examines how different social, racial and cultural groups live their lives in the city, including urban poverty, immigration into and out of urban areas, race relations, the city as a center of the arts and various communities within the city (urban enclaves). Although the course emphasizes urban processes and lifestyles in the United States, we also spend some time on cities in Europe and countries like Mexico and discuss how they compare.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

SOC 32762 DEVIANT BEHAVIOR 3 Credit Hours
(Cross-listed with CRIM 32762) Overview of classical and contemporary theories and perspectives on the nature, causes and societal management of deviant behavior. Application of theories and perspectives to modern and historical social problems, methods of punishment and policy trends in social control.
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42010 DEATH AND DYING 3 Credit Hours
(Slashed with SOC 52010) Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death, death as taboo, medicalization and rationalization of death and dying and disenfranchised grief.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42092 INTERNSHIP IN SOCIOLOGY (ELR) 1-9 Credit Hours
(Repeatable for credit) Real world experience and the application of sociological knowledge in work or organizational settings. Assist professionals at sites such as, but not limited to, social services, hospitals, industry and government.
Prerequisite: Minimum 2.000 overall GPA; and Sociology major or minor; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SOC 42093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours
(Repeatable for credit) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 42095 SPECIAL TOPICS IN SOCIOLOGY 3 Credit Hours
(Repeatable for credit) Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42126 SOCIOLOGICAL THEORIES 3 Credit Hours
(Slashed with SOC 52126) An examination of classical, modern and postmodern approaches to social theory.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42315 SOCIOLOGY OF GENDER (DIVD) 3 Credit Hours
(Slashed with SOC 52315) An examination of the institutions, institutional linkages and social processes that contribute to the construction and maintenance of gender and gender inequality.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 42359 SOCIAL MOVEMENTS 3 Credit Hours
(Slashed with SOC 52359) Investigation of various movements for social change. Examines the origins, developmental characteristics and the purposes of classic and contemporary movements.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42400 SELF AND IDENTITY 3 Credit Hours
Examines theories and research on the origin and behavioral consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42421 CHILDHOOD IN SOCIETY 3 Credit Hours
(Slashed with SOC 52421) How socio-historical circumstances shape the perception and experience of childhood as a distinct life stage. The process of childhood socialization in Western societies particularly the United States. An exploration of the distinct role of socializing agents-parents and siblings, school, peers and media.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42478 ADOLESCENCE IN SOCIETY 3 Credit Hours
(Slashed with SOC 52478) Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class and race differences in adolescence the significance of youth movements, with an emphasis on music as a dominant expression of youth culture.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42558 WEALTH, POVERTY AND POWER 3 Credit Hours
(Slashed with SOC 52558) Sociological examination of economic stratification; focuses on the translation of class into power via politics, education and collective struggle.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42560 SOCIOLOGY OF FOOD 3 Credit Hours
(Slashed with SOC 52560) Food is essential, but like every other aspect of our lives, the meaning of food and the experience of its preparation and consumption are socially determined. Course explores the social dimensions of food consumption and production. Students consider the following questions and answer them by developing an understanding of sociological concepts and theories: What do our meals reveal about us – about our history, culture, our gender and race and ethnicity, socio-economic status, religious beliefs and our family life? How does food consumption differ in different societies? How do the media and corporations influence our food choices? What does food mean symbolize and in what ways are these meanings manipulated and why? How is food production carried out in different contexts and what can we learn about the social organization of work from studying food production? How does what we eat contribute to local and global environmental problems?
Prerequisite: SOC 12050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42561 SOCIOLOGY OF RELIGION 3 Credit Hours
(Slashed with SOC 52561) Social context of religious ideologies and structures with special reference to religion in America.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42562 SOCIOLOGY OF MENTAL ILLNESS 3 Credit Hours
A sociology of mental health and illness; focuses on how social factors influence and are influenced by mental health status; topics include definition and measurement, social distribution, social control of mental illness, societal reaction and media coverage.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42563 SOCIOLOGY OF HEALTH AND HEALTH CARE 3 Credit Hours
(Slashed with SOC 52563) Sociological analysis of health and illness behavior and utilization of health care professions, as well as the organizational, community and societal systems that deal with health and illness.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42565 ENVIRONMENTAL SOCIOLOGY 3 Credit Hours
(Slashed with SOC 52565) Designed to be an elective in the Social Justice and Social Change concentration, Environmental Sociology provides students with an overview of how environmental problems and patterns interact with social systems. The course grounds students in an interdisciplinary range of theories through which environmental problems may be made more visible, and solutions more readily imagined. Topics include the intellectual and activist origins of the Environmental Justice Movement; sustainability and economic development; climate change and population/immigration dynamics; the history of environmental regulatory frameworks and institutions at the local, regional, and global level; and inequalities in the experience and consequence of environmental problems. Students will be encouraged to pair the course with an internship or other volunteer-opportunity with an area environmental, media, or policy-making organization to encourage a Public Sociology orientation for student projects.
Prerequisite: SOC 12050 and junior standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SOC 42568 RACE AND ETHNIC STUDIES (DIVD) 3 Credit Hours
(Slashed with SOC 52568) Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 42577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours
(Cross-listed with CRIM 42577)(Slashed with CRIM 52577 and SOC 52577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, intimate partner abuse, elderly abuse, rape, sexual abuse of children.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 42879 AGING IN SOCIETY (DIVD) 3 Credit Hours
(Slashed with SOC 52879) Analysis of demographic, sociological and socio-psychological dimensions of aging.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SOC 43200 SOCIAL STRUCTURE AND INDIVIDUAL LIVES 3 Credit Hours
Examines conceptualizations for and evidence concerning the effects of social structure on various dimensions of individual lives.
Prerequisite: SOC 12050; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52010 DEATH AND DYING 3 Credit Hours
(Slashed with SOC 42010) Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death, death as taboo, medicalization and rationalization of death and dying, and disenfranchised grief.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52126 SOCIOLOGICAL THEORIES 3 Credit Hours
(Slashed with SOC 42126) An examination of classical, modern and post-modern approaches to social theory.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52315 SOCIOLOGY OF GENDER 3 Credit Hours
(Slashed with SOC 42315) An examination of the institutions, institutional linkages and social processes that contribute to the construction and maintenance of gender and gender inequality.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52359 SOCIAL MOVEMENTS 3 Credit Hours
(Slashed with SOC 42359) Investigation of various movements for social change. Examines the origins, developmental characteristics and the purposes of classic and contemporary movements.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52421 CHILDHOOD IN SOCIETY 3 Credit Hours
(Slashed with SOC 42421) How socio-historical circumstances shape the perception and experience of childhood as a distinct life stage. The process of childhood socialization in Western societies particularly the United States. An exploration of the distinct role of socializing agents-parents and siblings, school, peers and media.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52478 ADOLESCENCE IN SOCIETY 3 Credit Hours
(Slashed with SOC 42478) Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class and race differences in adolescence the significance of youth movements, with an emphasis on music as a dominant expression of youth culture.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52558 WEALTH, POVERTY AND POWER 3 Credit Hours
(Slashed with SOC 42558) Sociological examination of economic stratification in the United States; focuses on the translation of class into power via politics, education and collective struggle.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52560 SOCIOLOGY OF FOOD 3 Credit Hours
(Slashed with SOC 42560) Food is essential, but like every other aspect of our lives, the meaning of food and the experience of its preparation and consumption are socially determined. Course explores the social dimensions of food consumption and production. Students consider the following questions and answer them by developing an understanding of sociological concepts and theories: What do our meals reveal about us – about our history, culture, our gender and race and ethnicity, socio-economic status, religious beliefs and our family life? How does food consumption differ in different societies? How do the media and corporations influence our food choices? What does food mean symbolize and in what ways are these meanings manipulated and why? How is food production carried out in different contexts and what can we learn about the social organization of work from studying food production? How does what we eat contribute to local and global environmental problems?
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52561 SOCIOLOGY OF RELIGION 3 Credit Hours
(Slashed with SOC 42561) Social context of religions and their ideologies and structures with special reference to religion in America.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52563 SOCIOLOGY OF HEALTH AND HEALTH CARE 3 Credit Hours
(Slashed with SOC 42563) Sociological analysis of health and illness behavior and utilization of health care professions, as well as the organizational, community and societal systems that deal with health and illness.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52565 ENVIRONMENTAL SOCIOLOGY 3 Credit Hours
(Slashed with SOC 42565) Environmental Sociology provides students with an overview of how environmental problems and patterns interact with social systems. The course grounds students in an interdisciplinary range of theories through which environmental problems may be made more visible, and solutions more readily imagined. Topics include the intellectual and activist origins of the Environmental Justice Movement; sustainability and economic development; climate change and population/immigration dynamics; the history of environmental regulatory frameworks and institutions at the local, regional, and global level; and inequalities in the experience and consequence of environmental problems. Students will be encouraged to pair the course with an internship or other volunteer-opportunity with an area environmental, media, or policy-making organization to encourage a Public Sociology orientation for student projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SOC 52568 RACE AND ETHNIC STUDIES 3 Credit Hours
(Slashed with SOC 42568) Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours
(Cross-listed with CRIM 52577)(Slashed with CRIM 42577 and SOC 42577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, intimate partner abuse, elderly abuse, rape, sexual abuse of children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 52879 AGING IN SOCIETY 3 Credit Hours
(Slashed with SOC 42879) Analysis of demographic, sociological and sociopsychological dimensions of aging.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 61003 CRIMINOLOGICAL THEORY 3 Credit Hours
(Slashed with SOC 71003) Examines the major theories in criminology that have been used to explain criminal behavior. This course includes analysis of empirical tests, applications of the theories, and social policy implications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 61004 SOCIOLOGY OF CORRECTIONS 3 Credit Hours
(Slashed with SOC 71004) Analyzes the correctional institution as a social system: formal structure and informal dynamics. It covers problems and programs found in community corrections as well as the institutional setting. It examines approaches to correctional supervision and treatment through probation, parole, and community residential treatment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 61005 JUVENILE DELINQUENCY 3 Credit Hours
(Slashed with SOC 71005) Provides an analysis of the issues and current research related to juvenile delinquency and the juvenile justice process.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62002 PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY 3 Credit Hours
(Slashed with SOC 72002) Introduction to professional and ethical issues in the field of sociology including the logic of inquiry, developing effective approaches to independent learning and research, the human subjects review process and plagiarism. Akron 3850:628.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with SOC 72093) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 62100 EARLY SOCIOLOGICAL THEORY 3 Credit Hours
(Slashed with SOC 72100) An examination of the contributions by pre-1930 social thinkers to contemporary sociological theory. Akron 3850:722.
Prerequisite: SOC 52126; and sociology major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SOC 62105 CONTEMPORARY SOCIOLOGICAL THOUGHT 3 Credit Hours
(Slashed with SOC 62105) Covers major contemporary theories and theorists. Emphasis on functionalism, conflict, exchange, interactionalism and systems theory. Neofunctionalism, neo-Marxism, structuration theory and other recent trends are treated. Akron 3850:723.
Prerequisite: SOC 62100; and sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing in sociology; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SOC 62211 QUANTITATIVE METHODS IN SOCIOLOGY 4 Credit Hours
Introduction to the use of quantitative research methods for analyzing sociological issues. Includes instruction on each step in the process of empirically verifying a theoretical question, from conceptualization to analysis. Akron 3850:603.
Prerequisite: Graduate standing in sociology.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 62217 MULTIVARIATE TECHNIQUES IN SOCIOLOGY 4 Credit Hours
(Slashed with SOC 72217) Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non-experimental causal models and path analysis. Akron 3850:706.
Prerequisite: SOC 32220; and sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 62218 ADVANCED DATA ANALYSIS 4 Credit Hours
(Slashed with SOC 72218) Critical examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multi-variate inferential statistics. Akron 3850:709.
Prerequisite: SOC 62217; and sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 62219 QUALITATIVE METHODS IN SOCIOLOGY 4 Credit Hours
(Slashed with SOC 72219) Study of qualitative methods including interviewing, observation, use of personal documents, archival data and special problems of recording and analyzing qualitative data. Akron 3850:714.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 62221 ADVANCED QUALITATIVE METHODS IN SOCIOLOGY 3 Credit Hours
(Slashed with SOC 72221) Provides students with the opportunity to conceive, design and carry out their own qualitative research projects. Students also survey readings that are exemplars of high quality and rigorous qualitative research. Topics such as writing, analysis and ethics are covered as students develop and move forward on their own original research. Students must be actively engaged in a qualitative research project to enroll in the course.
Prerequisite: SOC 62219; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SOC 62199; and graduate standing in sociology; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SOC 62323 SOCIOLOGY OF HEALTH AND ILLNESS 3 Credit Hours
(Slashed with SOC 72323) Introduction to medical sociology. Topics include health care professions, patient-provider interaction, caregivers, the illness experience, race, ethnicity, gender, socio-economic status, and health and global health.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62326 SOCIOLOGY OF MENTAL HEALTH AND MENTAL ILLNESS 3 Credit Hours
(Slashed with SOC 72326) Sociological examination of the social processes that affect mental health, frame cultural ideas of normality and illness, and define clinical pathology. Akron 3850: 728.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62328 STRATIFICATION AND HEALTH 3 Credit Hours
(Slashed with SOC 72328) Race, social class and gender differences in physical and mental health status, help-seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62332 SOCIAL CONTROL OF MENTAL ILLNESS 3 Credit Hours
(Slashed with SOC 72332) Introduction to the sociological perspective regarding social control and mental illness. Topics include the history of mental illness and the asylum, the stratification of mental illness diagnosis and treatment by race, ethnicity, gender, and socio-economic status, and stigma and psychiatric labeling.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62430 SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with SOC 72430) Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Akron 3850: 631.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62433 SOCIAL STRUCTURE AND PERSONALITY 3 Credit Hours
(Slashed with SOC 72433) Examination of contemporary theory and research on linkages between personality and society. Emphasis is on the dynamics of those linkages and their effects on both individuals and social structures. Akron 3850:634.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62437 STRUCTURAL SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with SOC 72437) In-depth introduction to structural social psychology, a set of theoretical and methodological approaches and tools that focuses on the development and testing of multi-level, micro-macro accounts of human social interactions, often through the use of formal theorizing and mathematical modeling. Course provides an overview of the theoretical and research empirical methods that are most associated with structural social psychology; cover the main substantive topics in the area; and then conclude with a brief overview of current issues, debates and recent interdisciplinary advances.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62439 SELF AND IDENTITY 3 Credit Hours
(Slashed with SOC 72439) Examines theories and research on the origins of and on behavioral and social consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health and well-being.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62546 SOCIAL INEQUALITY 3 Credit Hours
(Slashed with SOC 62546) An overview of social inequalities, including definitions, causes, identities, structures and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Akron 3850:646.
Prerequisite: Sociology major; and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62566 SOCIOLOGY OF GENDER 3 Credit Hours
(Slashed with SOC 72566) Examination of theories and research on gender origins, characteristics and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Akron 3850:639.
Prerequisite: Graduate standing; and sociology major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62760 DEVIANCE 3 Credit Hours
(Slashed with SOC 72760) Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self-labeling, case studies, social consequences and problems. Akron 3850: 663.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62870 SOCIOLOGY OF RACE AND ETHNICITY 3 Credit Hours
(Slashed with SOC 72870) An in-depth study of the theories, models, research approaches and substantive areas that constitute the sociology of race and ethnicity. Akron 3850:651.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62872 SOCIAL PSYCHOLOGY AND INEQUALITY 3 Credit Hours
(Slashed with SOC 72872) Introduces students to sociological social psychological work that examines the reproduction of inequality. Specifically, the course focuses on "generic social processes" in how individuals, through interaction, are complicit or resistant in the reproduction of inequality through processes such as identity work, collective identity work, emotion work, othering and boundary maintenance. Mechanisms for change are also considered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62877 SOCIOLOGY OF AGING AND THE LIFE COURSE 3 Credit Hours
(Slashed with SOC 72877) Study of the sociology of aging and the life course, covering the major stages of young adulthood, mid-life, and later life. Topics include demography of aging, transition to adulthood, educational attainment, romantic relationships and cohabitation, marriage, parenting, work and retirement, theories of aging, aging and social policy, neighborhoods and aging, later life living arrangements, and death and dying.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62894 COLLEGE TEACHING OF SOCIOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with SOC 72894) Preparation for college teaching. Students may apply a maximum 3 credit hours applicable toward the master's degree with departmental approval. Akron 3850:700.
Prerequisite: Graduate standing; and sociology major.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SOC 62895 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)(Slashed with SOC 72895) Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 62896 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with SOC 72896) Intensive pursuit of a subject matter beyond normal course coverage with the possibility of associated research. Students may apply a maximum 6 credit hours combined in individual investigation (SOC 62896, SOC 72896) and research (SOC 62898, SOC 72898) toward the master's degree.
Prerequisite: Sociology major; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 62898 RESEARCH 1-3 Credit Hours
(Repeatable for credit)(Slashed with SOC 72898) Pursuit of research interests that can include the student's project and/or a faculty member's project. Student may apply a maximum of 6 credits combined of research (SOC 62898, SOC 72898) and individual investigation (SOC 62896, SOC 72896) toward the master's degree.
Prerequisite: Sociology major; and graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 71003 CRIMINOLOGICAL THEORY 3 Credit Hours
(Slashed with SOC 61003) Examines the major theories in criminology that have been used to explain criminal behavior. This course includes analysis of empirical tests, applications of the theories, and social policy implications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 71004 SOCIOLOGY OF CORRECTIONS 3 Credit Hours
(Slashed with SOC 61004) Analyzes the correctional institution as a social system: formal structure and informal dynamics. It covers problems and programs found in community corrections as well as the institutional setting. It examines approaches to correctional supervision and treatment through probation, parole, and community residential treatment.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 71005 JUVENILE DELINQUENCY 3 Credit Hours
(Slashed with SOC 61005) Provides an analysis of the issues and current research related to juvenile delinquency and the juvenile justice process.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72002 PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY 3 Credit Hours
(Slashed with SOC 62002) Introduction to professional and ethical issues in the field of sociology including the logic of inquiry, developing effective approaches to independent learning and research, the human subjects review process and plagiarism. Akron 3850:628.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours
(Repeatable for credit)(Slashed with SOC 62093) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 72100 EARLY SOCIOLOGICAL THEORY 3 Credit Hours
(Slashed with SOC 62100) An examination of the contributions by pre-1930 social thinkers to contemporary sociological theory. Akron 3850:722.
Prerequisite: SOC 52126; and sociology major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SOC 72105 CONTEMPORARY SOCIOLOGICAL THOUGHT 3 Credit Hours
(Slashed with SOC 62105) Covers major contemporary theories and theorists. Emphasis on functionalism, conflict, exchange, interactionalism and systems theory. Neofunctionalism, neo-Marxism, structuration theory and other recent trends are treated. Akron 3850:723.
Prerequisite: SOC 72100; and sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72211 QUANTITATIVE METHODS IN SOCIOLOGY 4 Credit Hours
Introduction to the use of quantitative research methods for analyzing sociological issues. Includes instruction on each step in the process of empirically verifying a theoretical question, from conceptualization to analysis. Akron 3850:603.
Prerequisite: Doctoral standing in sociology.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 72217 MULTIVARIATE TECHNIQUES IN SOCIOLOGY 4 Credit Hours
(Slashed with SOC 62217) Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non-experimental causal models and path analysis. Akron 3850:706.
Prerequisite: SOC 32220; and sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 72218 ADVANCED DATA ANALYSIS 4 Credit Hours
(Slashed with SOC 62218) Crucial examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multi-variate inferential statistics. Akron 3850:709.
Prerequisite: SOC 72217; and sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 72219 QUALITATIVE METHODS IN SOCIOLOGY 4 Credit Hours
(Slashed with SOC 62219) Study of qualitative methods including interviewing, observation, use of personal documents, archival data, and special problems of recording and analyzing qualitative data. Akron 3850:714.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SOC 72221 ADVANCED QUALITATIVE METHODS IN SOCIOLOGY 3 Credit Hours
(Slashed with SOC 62221) Provides students with the opportunity to conceive, design and carry out their own qualitative research projects. Students also survey readings that are exemplars of high quality and rigorous qualitative research. Topics such as writing, analysis and ethics are covered as students develop and move forward on their own original research. Students must be actively engaged in a qualitative research project to enroll in the course.
Prerequisite: SOC 72219; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72323 SOCIOLOGY OF HEALTH AND ILLNESS 3 Credit Hours
(Slashed with SOC 62323) Introduction to medical sociology. Topics include health care professions, patient-provider interaction, caregivers, the illness experience, race, ethnicity, gender, socio-economic status and health and global health.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72326 SOCIOLOGY OF MENTAL HEALTH AND MENTAL ILLNESS 3 Credit Hours
(Slashed with SOC 62326) Sociological examination of the social processes that affect mental health, frame cultural ideas of normality and illness, and define clinical pathology. Akron 3850:728.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72328 STRATIFICATION AND HEALTH 3 Credit Hours
(Slashed iwth SOC 62328) Race, social, class and gender differences in physical and mental health status, help-seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726.
Prerequisite: Sociology major; and doctoral major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72332 SOCIAL CONTROL OF MENTAL ILLNESS 3 Credit Hours
(Slashed with SOC 62332) Introduction to the sociological perspective regarding social control and mental illness. Topics include the history of mental illness and the asylum, the stratification of mental illness diagnosis and treatment by race, ethnicity, gender, and socio-economic status, and stigma and psychiatric labeling.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72430 SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with SOC 62430) Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Akron 3850:631.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72433 SOCIAL STRUCTURE AND PERSONALITY 3 Credit Hours
(Slashed with SOC 62433) Examination of contemporary theory and research on linkages between personality and society. Emphasis is on the dynamics of those linkages and their effects on both individuals and social structures. Akron 3850:634.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72437 STRUCTURAL SOCIAL PSYCHOLOGY 3 Credit Hours
(Slashed with SOC 62437) In-depth introduction to structural social psychology, a set of theoretical and methodological approaches and tools that focuses on the development and testing of multi-level, micro-macro accounts of human social interactions, often through the use of formal theorizing and mathematical modeling. Course provides an overview of the theoretical and research empirical methods that are most associated with structural social psychology; cover the main substantive topics in the area; and then conclude with a brief overview of current issues, debates and recent interdisciplinary advances.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72439 SELF AND IDENTITY 3 Credit Hours
(Slashed with SOC 62439) Examines theories and research on the origins of and on behavioral and social consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health and well-being.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72546 SOCIAL INEQUALITY 3 Credit Hours
(Slashed with SOC 62546) An overview of social inequalities, including definitions, causes, identities, structures and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Akron 3850:646.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72566 SOCIOLOGY OF GENDER 3 Credit Hours
(Slashed with SOC 62566) Examination of theories and research on gender origins, characteristics and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Akron 3850:639.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72760 DEVIANCE 3 Credit Hours
(Slashed with SOC 62760) Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self labeling, case studies, social consequences and problems. Akron 3850:663.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72870 SOCIOLOGY OF RACE AND ETHNICITY 3 Credit Hours
(Slashed with SOC 62870) An in-depth study of the theories, models, research approaches and substantive areas that constitute the sociology of race and ethnicity. Akron 3850:651.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72872 SOCIAL PSYCHOLOGY AND INEQUALITY 3 Credit Hours
(Slashed with SOC 62872) Introduces students to sociological social psychology work that examines the reproduction of inequality. Specifically, the course focuses on "generic social processes" in how individuals, through interaction, are complicit or resistant in the reproduction of inequality through processes such as identity work, collective identity work, emotion work, othering and boundary maintenance. Mechanisms for change are also considered.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72877 SOCIOLOGY OF AGING AND THE LIFE COURSE 3 Credit Hours
(Slashed with SOC 62877) Study of the sociology of aging and the life course, covering the major stages of young adulthood, mid-life, and later life. Topics include demography of aging, transition to adulthood, educational attainment, romantic relationships and cohabitation, marriage, parenting, work and retirement, theories of aging, aging and social policy, neighborhoods and aging, later life living arrangements, and death and dying. Akron 3850:678.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72894 COLLEGE TEACHING OF SOCIOLOGY 3 Credit Hours
(Repeatable for credit)(Slashed with SOC 62894) Preparation for college teaching. Course may not be applied toward the doctoral degree. Akron 3850:700.
Prerequisite: Sociology major; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SOC 72895 SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit)(Slashed with SOC 62895) Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled.
Prerequisite: Sociology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SOC 72896 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with SOC 62896) Intensive pursuit of a subject matter beyond normal course coverage with the possibility of associated research. Students may apply a maximum 6 credit hours combined in individual investigation (SOC 72896) and research (SOC 72898) toward the doctoral degree.
Prerequisite: Sociology major; and doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 72898 RESEARCH 1-3 Credit Hours
(Repeatable for credit)(Slashed with SOC 62898) Pursuit of research interests that can include the student's project and/or a faculty member's project. Student may apply a maximum of 6 credits combined of research (SOC 72898) and individual investigation (SOC 72896) toward the doctoral degree.
Prerequisite: Sociology major; and doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SOC 82199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation is begun and continuing until 30 hours are completed. Akron 3850: 899.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SOC 82299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Criminology and Criminal Justice - M.A.

College of Arts and Sciences
Department of Sociology and Criminology
www.kent.edu/sociology

About This Program

The Master of Arts in Criminology and Criminal Justice program provides a deep understanding of the social and psychological factors that contribute to crime and criminal behavior. With courses taught by experienced faculty and a focus on research, this program equips you with the skills needed to succeed in a wide range of criminal justice careers. Read more...

Contact Information

- **Will Kalkhoff** | wkalkhof@kent.edu | 330-672-3712
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully Online

Examples of Possible Careers and Salaries*

Criminal justice and law enforcement teachers, postsecondary

- 6.7% faster than the average
- 16,800 number of jobs
- $63,560 potential earnings

First-line supervisors of correctional officers

- -7.8% decline
- 48,700 number of jobs
- $60,910 potential earnings

First-line supervisors of police and detectives

- 5.2% faster than the average
- 126,100 number of jobs
- $92,970 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Three letters of recommendation (preferably academic)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CRIM 56800	INTELLIGENCE AND NATIONAL SECURITY	3
CRIM 66761	LAW, JUSTICE AND SOCIETY	3
CRIM 66763	THEORIES OF CRIME AND DELINQUENCY	3
CRIM 66768	RESEARCH METHODS IN CRIMINOLOGY AND CRIMINAL JUSTICE	3
CRIM 66770	JUSTICE INSTITUTIONS	3
CRIM 66772	VICTIMOLOGY	3
Culminating Requirement		
CRIM 66899	PROSEMINAR CAPSTONE: ISSUES IN CONTEMPORARY JUSTICE	3
Concentrations		
Choose from the following:		9
Global Security		
Policing		
Victimology		
Minimum Total Credit Hours:		**30**

Global Security Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CRIM 56801	HOMELAND SECURITY	3
CRIM 56802	TERRORISM AND COUNTERTERRORISM	3
CRIM 56803	INFORMATION AND CYBER SECURITY	3
Minimum Total Credit Hours:		**9**

Policing Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CRIM 56904	ISSUES IN POLICE WORK	3
CRIM 66767	JUSTICE ADMINISTRATION	3
CRIM 66773	CONTEMPORARY POLICING	3
Minimum Total Credit Hours:		**9**

Victimology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CRIM 57002	HUMAN SERVICE AGENCIES AND THE LAW	3
CRIM 57003	RESTORATIVE JUSTICE AND VICTIM ASSISTANCE	3
CRIM 57004	LEGAL PERSPECTIVES AND RIGHTS IN VICTIMIZATION	3
Minimum Total Credit Hours:		**9**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a practical understanding of criminological theory by using it to better understand crime and criminal behavior, pose and attempt to answer research questions and see its connection to crime policy.
2. Demonstrate mastery of the significant empirical findings in the major areas of criminology and criminal justice.
3. Demonstrate an appreciation for the use of the scientific method in the study of crime, a practical understanding of research methods used in the field and a practical understanding of statistics in social science research.
4. Develop basic skills in planning and conducting research projects, including evaluation research in particular.
5. Describe the role of race/ethnicity, gender, sexual orientation and social class as they relate to crime and victimization.
6. Effectively communicate criminological knowledge and write a clear and concise analysis of issues, policies and research in the field.

Full Description

The Master of Arts degree in Criminology and Criminal Justice is designed to challenge experienced and aspiring professionals who want to expand their scope of knowledge and move into career and leadership positions. The program prepares graduates as next-generation leaders in this complex, global, and interconnected field. The flexible online program is structured to fit the lives of full-time working professionals.

The Criminology and Criminal Justice major comprises the following concentrations:

- The **Global Security** concentration focuses on issues related to global security, U.S. national security policy and strategy, as well as transnational issues and the concerns of other countries or regions. It provides students with a strong foundation to confront the ever-changing, fast-paced, and challenging international security environment. With an emphasis on traditional and emerging transnational security threats, students are prepared for analytical, operational and leadership careers in global security in the public and private sectors. The goal is to produce a new generation of analysts, policymakers and scholars knowledgeable about the wide range of international and national security problems and foreign policy issues of the 21st century.
- The **Policing** concentration examines the historical ideas of police service and the lessons that can be learned from those ideas. Students learn about the research that has challenged traditional ideas and the implications of that research for revision. The program provides students the tools to analyze the implications of contemporary research to guide new innovations in policies, management, strategies and tactics of police service delivery.
- The **Victimology** concentration provides specialized knowledge about the scientific study of crime victims, their treatment within the criminal and juvenile justice systems, the legal rights of victims and victim assistance and restorative justice programs. This concentration will prepare students to develop and lead initiatives that help prevent victimization, to engage in victimological research

and evaluation, and to respond to victims in culturally appropriate ways.

Criminology and Justice Studies - B.A.

College of Arts and Sciences
Department of Sociology and Criminology
www.kent.edu/sociology

About This Program

The Criminology and Justice Studies undergraduate major combines coursework in law, psychology, sociology and other fields to provide a comprehensive understanding of crime and justice. With experienced faculty and opportunities for research and practical experience, this program prepares you for a successful career in a wide range of criminal justice roles. Read more...

Contact Information

- **Tiffany Taylor** | ttaylo36@kent.edu | 330-672-9474
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - Mostly online
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Examples of Possible Careers and Salaries*

First-line supervisors of correctional officers

- -7.8% decline
- 48,700 number of jobs
- $60,910 potential earnings

First-line supervisors of police and detectives

- 5.2% faster than the average
- 126,100 number of jobs
- $92,970 potential earnings

Public safety telecommunicators

- 6.2% faster than the average
- 98,300 number of jobs
- $43,290 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	3
CRIM 36702	CRIMINOLOGY	3
CRIM 37311	MINORITIES IN CRIME AND JUSTICE (DIVD)	3
or CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
SOC 32210	RESEARCHING SOCIETY (ELR) (WIC) [1]	3
SOC 32220	DATA ANALYSIS [2]	3
SOC 32221	DATA ANALYSIS LABORATORY [2]	1
Criminology and Justice Studies (CRIM) Electives [3]		9
Criminology and Justice Studies (CRIM) Upper-Division Electives (30000 or 40000 level)		9
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		39
Minimum Total Credit Hours:		**120**

1. A minimum C grade must be earned to fulfill the writing-intensive requirement.
2. Students declared in both the Psychology major and Criminology and Justice Studies major may substitute PSYC 21621 in place of SOC 32220 and SOC 32221.
3. POTA 11001 may count as a lower-division Criminology and Justice Studies (CRIM) elective.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
	UC 10001	FLASHES 101	1
	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	3
	Criminology and Justice Studies (CRIM) Elective		3
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	Criminology and Justice Studies (CRIM) Elective		3
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	CRIM 36702	CRIMINOLOGY	3
	CRIM 37311 or CRIM 37411	MINORITIES IN CRIME AND JUSTICE (DIVD) or WOMEN IN CRIME AND JUSTICE (DIVD)	3
!	SOC 32210	RESEARCHING SOCIETY (ELR) (WIC)	3

	General Electives		6
		Credit Hours	**15**
	Semester Six		
!	SOC 32220	DATA ANALYSIS	3
!	SOC 32221	DATA ANALYSIS LABORATORY	1
	Criminology and Justice Studies (CRIM) Elective		3
	Criminology and Justice Studies (CRIM) Upper-Division Elective (30000 or 40000 level)		3
	General Elective		3
		Credit Hours	**13**
	Semester Seven		
	Criminology and Justice Studies (CRIM) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		12
		Credit Hours	**15**
	Semester Eight		
	Criminology and Justice Studies (CRIM) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		14
		Credit Hours	**17**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Communicate orally and in writing.
2. Develop skills through experience.
3. Have substantive knowledge in specific areas of the discipline, namely law, law enforcement, corrections, courts and diversity.
4. Demonstrate an understanding of ethics.
5. Describe theoretical issues related to the causes of crime and development of justice practices.
6. Find and explain research in the field.
7. Develop critical thinking skills.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Criminology and Justice Studies takes an interdisciplinary approach to the study of crime, law and justice. The curriculum provides a firm understanding of the basic institutions of the criminal justice system. Students are also exposed to criminological theory and diversity courses, which help them understand the complex relationship between the individual, society and the criminal justice system. The program stresses effective writing and analytical skills. Students are afforded the opportunity to earn credit through internship placements.

Consultations with faculty and advisors enable students to make informed choices about which combination of courses will maximize their preparation for future careers and graduate education. Such specializations include policing; corrections; victimology; law and society; criminology and deviance; and justice and human relations.

Criminology and Justice Studies students may apply early to the M.A. degree in Criminology and Criminal Justice and double count 9 credit

hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Criminology and Justice Studies - Minor

College of Arts and Sciences
Department of Sociology and Criminology
www.kent.edu/sociology

About This Program

The Criminology and Justice Studies minor aligns well for students declared in the psychology, sociology, political science and peace and conflict studies majors, as well as for those students interested in forensics. The program provides students with a broad understanding of the functions, roles and critical issues within the components of criminal, juvenile and civil justice.

Contact Information

- **Tiffany Taylor** | ttaylo36@kent.edu | 330-672-9474
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
CRIM 36702	CRIMINOLOGY	3
Criminology and Justice Studies (CRIM) Electives [1]		12
Minimum Total Credit Hours:		**18**

[1] Students may apply a maximum 3 credit hours of CRIM 46792 toward minor requirements. CRIM 45093 and CRIM 45096 may not apply as minor electives.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a broad understanding of the functions, roles and critical issues within all the components of criminal, juvenile and civil justice.
2. Demonstrate the necessary knowledge, insight and sensitivity to occupy positions in public and private criminal justice agencies and encourage further professional development and graduate education.

Society, Health and Medicine - Minor

College of Arts and Sciences
Department of Sociology and Criminology
www.kent.edu/sociology

About This Program

The Society, Health and Medicine minor exposes students to the sociocultural, political and organizational dimensions of health and medicine while also promoting an understanding of the social determinants of health.

Students combine core courses from medical sociology with a series of electives of their choosing. Electives cut across many disciplines and content areas, allowing students to design a minor that aligns with their academic and career goals. The minor is well suited to students with an academic interest in health, medicine or health disparities, as well as those pursuing careers in the health professions.

Contact Information

- **Tiffany Taylor** | ttaylo36@kent.edu | 330-672-9474
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Society, Health and Medicine minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
SOC 42010	DEATH AND DYING	3
or SOC 42562	SOCIOLOGY OF MENTAL ILLNESS	
or SOC 42879	AGING IN SOCIETY (DIVD)	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	3
Minor Elective, choose from the following:		3
SOC 32565	SOCIOLOGY OF SEXUALITIES (DIVD)	
SOC 32569	MINORITIES IN THE UNITED STATES (DIVD)	
SOC 42010	DEATH AND DYING	
SOC 42421	CHILDHOOD IN SOCIETY	
SOC 42478	ADOLESCENCE IN SOCIETY	
SOC 42560	SOCIOLOGY OF FOOD	
SOC 42562	SOCIOLOGY OF MENTAL ILLNESS	
SOC 42879	AGING IN SOCIETY (DIVD)	
Interdisciplinary Electives, choose from the following: [1]		6
AFS 33171	AFRICAN-AMERICAN COMMUNITIES (DIVD)	
ANTH 48250	MEDICAL ANTHROPOLOGY (DIVG)	
BSCI 40020	BIOLOGY OF AGING	
BSCI 40157	NEUROBIOLOGY OF DRUG ADDICTION	
BSCI 40463	MEDICAL BIOTECHNOLOGY	
CES 44084	BEHAVIORAL SCIENCE IN HEALTH PROFESSIONS	
COMM 36500	HEALTH COMMUNICATION	
COMM 46507	COMMUNICATION FOR HEALTH AND WELL-BEING	
CRIM 36800	LGBTQ POPULATIONS IN THE JUSTICE SYSTEM (DIVD)	
CRIM 37311	MINORITIES IN CRIME AND JUSTICE (DIVD)	
CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)	
CRIM 46701	CRIME, JUSTICE AND SUBSTANCE ABUSE	
CRIM 46708	TREATMENT METHODS	
CULT 26001	INTRODUCTION TO DISABILITY STUDIES	
ECON 42086	ECONOMICS OF HEALTH CARE	
EXSC 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	
or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	
EXSC 40612	EXERCISE LEADERSHIP FOR THE OLDER ADULT	
GEOG 42052	HEALTH GEOGRAPHY	
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
GERO 40656	PSYCHOLOGY OF AGING	
HDF 44039	BEREAVEMENT AND LOSS	
HED 11570	PERSONAL HEALTH	
HED 11590	COMMUNITY HEALTH EDUCATION	
HED 14020	MEDICAL TERMINOLOGY	
HED 21030	INTRODUCTION TO HEALTH EDUCATION	
HED 21050	HEALTH EDUCATION THEORIES	
HED 30000	TEACHING HEALTH TO YOUNG LEARNERS	
HED 32530	DRUG USE AND MISUSE	
HED 32544	HUMAN SEXUALITY	
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	
HIST 31075	HISTORY OF WOMEN IN THE UNITED STATES	
or WMST 30100	HISTORY OF WOMEN IN THE UNITED STATES	
HIST 31550	MEDICINE IN THE MODERN WORLD SINCE 1500	
LGBT 20020	INTRODUCTION TO LESBIAN, GAY, BISEXUAL, TRANSGENDER AND QUEER STUDIES	
LGBT 40201	TRANSGENDER STUDIES	
NURS 10060	INTRODUCTION TO PROFESSIONAL NURSING PRACTICE	
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	
NURS 32060	TRANSCULTURAL NURSING ADVANCING CULTURAL HUMILITY	
NURS 35040	COMPLEMENTARY AND INTEGRATIVE HEALTH	
NURS 35070	NURSING ETHICS IN CLINICAL PRACTICE	
NURS 35080	CONTEMPORARY ISSUES IN NURSING PRACTICE AND HEALTH CARE	
NURS 40089	INTERNATIONAL HEALTH CARE POLICIES (DIVG) (ELR) (WIC)	
NURS 45010	HEALTHCARE POLICY AND DELIVERY SYSTEMS	
NURS 45080	INTERDISCIPLINARY APPROACHES TO PALLIATIVE AND END OF LIFE CARE	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	
NUTR 35319	NUTRITION, HEALTH AND SOCIETY	
PESP 15010	INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT	
PH 10001	INTRODUCTION TO PUBLIC HEALTH	
PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	
PH 20001	ESSENTIALS OF EPIDEMIOLOGY	
PH 20015	ZOMBIE OUTBREAK	

PH 22001	PLAGUES AND PANDEMICS: HOW INFECTION SHAPED CULTURE AND HISTORY
PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY
PH 30007	PREVENTION AND CONTROL OF DISEASES
PH 30012	COMMUNICABLE DISEASES
PH 30015	UNITED STATES HEALTH CARE SYSTEM
PH 30033	PUBLIC HEALTH POLICY AND DECISION MAKING
PH 32005	EMERGING ISSUES IN COMMUNITY HEALTH
PH 35005	ADVOCACY AND ACTIVISM IN PUBLIC HEALTH
PH 43014	PUBLIC HEALTH AND MASS INCARCERATION
PH 43089	PLAGUES THAT SHAPED THE WORLD (DIVG) (ELR)
PH 44000	HEALTH DISPARITIES (DIVD) (WIC)
PH 44003	ENVIRONMENTAL HEALTH ISSUES IN LOW- AND MIDDLE-INCOME COUNTRIES
PH 44020	PUBLIC HEALTH ETHICS IN PRACTICE, POLICY AND RESEARCH
PHIL 30015	MEDICINE AND MORALITY
PHIL 40005	HEALTH CARE ETHICS
POL 40450	HEALTH CARE AND SOCIAL POLICY
PSYC 30656	PSYCHOLOGY OF AGING
PSYC 41581	HEALTH PSYCHOLOGY
PSYC 41584	THE PSYCHOLOGY OF EXERCISE
RPTM 16000	FOUNDATIONS OF RECREATION AND LEISURE
Minimum Total Credit Hours:	**18**

[1] Some courses may have prerequisites for registration.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand how health and wellness are shaped by factors such as race, gender and socioeconomic status.
2. Understand how medical care is organized in the United States and other countries.
3. Understand who receives health care and who does not.
4. Understand how medical providers are socialized into their roles.
5. Understand how patients navigate illness and treatment.

Sociology - B.A.

College of Arts and Sciences
Department of Sociology and Criminology

www.kent.edu/sociology

About This Program

The Sociology major provides you with a deep understanding of the social factors that shape our world. With a focus on critical thinking and problem solving, you will gain the skills needed to analyze complex social issues and develop effective solutions. Enroll now and become a change agent in society. Read more...

Contact Information

- **Tiffany Taylor** | ttaylo36@kent.edu | 330-672-9474
- Speak with an Advisor
  - Ashtabula Campus
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - Mostly online
  - In person
- **Location:**
  - Ashtabula Campus
  - Kent Campus
  - Stark Campus

Examples of Possible Careers and Salaries*

Social science research assistants

- 5.8% faster than the average
- 40,100 number of jobs
- $49,210 potential earnings

Sociologists

- 3.6% about as fast as the average
- 3,200 number of jobs
- $86,110 potential earnings

Sociology teachers, postsecondary

- 3.8% about as fast as the average
- 17,000 number of jobs
- $75,610 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
SOC 32210	RESEARCHING SOCIETY (ELR) (WIC) [1]	3
SOC 32220	DATA ANALYSIS [2]	3
SOC 32221	DATA ANALYSIS LABORATORY [2]	1
SOC 42126	SOCIOLOGICAL THEORIES	3
Sociology (SOC) Electives [3]		6
Sociology (SOC) Upper-Division Electives (30000 or 40000 level) [3]		15
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		42
Minimum Total Credit Hours:		**120**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

2 Students who have declared majors in both Sociology and Psychology may substitute PSYC 21621 for SOC 32220 and SOC 32221.

3 Students may earn a maximum of 12 credit hours of SOC 42092; however, only 6 credit hours will count toward major requirements.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- To fulfill the diversity requirement, students must take one global diversity course that is not a sociology (SOC) course.

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
	Sociology (SOC) Elective		3
	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	Sociology (SOC) Elective		3
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	Sociology (SOC) Upper-Division Elective (30000 or 40000 level)		3
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
!	SOC 32210	RESEARCHING SOCIETY (ELR) (WIC)	3
	Sociology (SOC) Upper-Division Electives (30000 or 40000 level)		6
	General Electives		6
		Credit Hours	**15**
	Semester Six		
!	SOC 32220	DATA ANALYSIS	3
!	SOC 32221	DATA ANALYSIS LABORATORY	1
	Sociology (SOC) Upper-Division Electives (30000 or 40000 level)		6
	General Electives		6
		Credit Hours	**16**
	Semester Seven		
!	SOC 42126	SOCIOLOGICAL THEORIES	3
	General Electives		12
		Credit Hours	**15**
	Semester Eight		
	General Electives		14
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe how sociology is similar to and different from other social sciences.
2. Show how one's personal life is shaped by the time and place in which one lives.
3. Demonstrate how institutions of family, education, religion, medicine and the economy are interrelated.
4. Understand the interrelationships between social structures and individuals in society.
5. Distinguish between individualistic, cultural and structural explanations of social events.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain

majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Sociology provides broad training in the theories and methods that sociologists use to understand contemporary social issues and problems. Students are encouraged to think critically as they examine issues ranging from small group behavior to global social movements. The core curriculum focuses on social inequalities, social psychology and health and illness. In addition, the program offers courses on a variety of topics that include urban living, deviant behavior, religion and family.

Sociology students are increasingly interested in courses that prepare them for meaningful careers that change the world (Seemiller and Grace 2016). One only needs to look at Black Lives Matter or the Sunrise Movement to see evidence of this generational disposition. Sociology, as a discipline, provides students with rigorous coursework on social inequality and social change and helps students find careers in government, teaching, community organizing, non-governmental organizations and social work.

Students may work with faculty and advisors to pursue their own individualized specialization in such areas as medical sociology; social inequalities; sociological social psychology; social change and social justice; family and life course sociology; and social problems, deviance and crime.

Sociology students may apply early to the M.A. degree in Sociology and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Sociology - M.A.

College of Arts and Sciences
Department of Sociology and Criminology
www.kent.edu/sociology

About This Program

The Master of Arts degree in Sociology is designed to prepare students for doctoral study in sociology and for careers in a variety of professions and industries, including, but not limited to, government, research companies and non-profit organizations.

Contact Information

- **Susan Roxburgh** | sroxburg@kent.edu | 330-672-3125
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Social science research assistants

- 5.8% faster than the average
- 40,100 number of jobs
- $49,210 potential earnings

Sociologists

- 3.6% about as fast as the average
- 3,200 number of jobs
- $86,110 potential earnings

Sociology teachers, postsecondary

- 3.8% about as fast as the average
- 17,000 number of jobs
- $75,610 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university[1]
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcripts
- GRE scores (taken within the last five years) (*starting with the fall 2026 admission term, the GRE is no longer required)*
- Goal statement (1-2 pages), describing current academic interests, research interests, long-range career goals, and how admission will facilitate the achievement of these goals
- Three letters of recommendation from current/former professors who can adequately evaluate the applicant's past work and potential

- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] Applications for admission are accepted from those who will have a completed bachelor's degree upon starting the program.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: December 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
SOC 62002	PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY	3
SOC 62100	EARLY SOCIOLOGICAL THEORY	3
SOC 62211	QUANTITATIVE METHODS IN SOCIOLOGY	4
SOC 62217	MULTIVARIATE TECHNIQUES IN SOCIOLOGY	4
Advisor-Approved Electives [1]		10
Culminating Requirement		
SOC 62199	THESIS I	6
Minimum Total Credit Hours:		**30**

[1] No more than 6 credit hours of SOC 62896 and/or SOC 62898 may be applied toward the degree as elective credits. No more than 3 credit hours of 50000-level coursework may be applied toward the degree as elective credit.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge of professional and ethical issues and duties in the discipline of sociology.
2. Demonstrate a practical understanding of early/classical sociological theory by using it to better understand social phenomena and human behavior; and develop new theoretical arguments and pose and attempt to answer research questions.
3. Demonstrate a practical understanding of research methods in sociology.
4. Demonstrate a practical understanding of multivariate statistics in application to social research.
5. Demonstrate the ability to carry out original research through the successful completion of a thesis project.

Sociology - Minor

College of Arts and Sciences
Department of Sociology and Criminology
www.kent.edu/sociology

About This Program

The Sociology minor provides students with a broad understanding of the theoretical, methodological and substantive issues relevant to the field, as well as the tools necessary to apply this knowledge to other areas of study. Students explore the intersections between culture, social structure and individual behavior by examining issues related to social inequality, health and healthcare, deviance, families and family violence, urban communities, social psychology and more.

The skills developed in the Sociology minor allow students to connect their own life experiences to the experiences of other people, communities and cultures.

Contact Information

- **Tiffany Taylor** | ttaylo36@kent.edu | 330-672-9474
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the

A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
SOC 22570	UNDERSTANDING DIFFERENCES AND INEQUALITY	3
or SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	
or SOC 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES	
Sociology (SOC) Upper-Division Electives (30000 or 40000 level)		12
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 12 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe how sociology is similar to and different from other social sciences.
2. Show how one's personal life is shaped by the time and place in which one lives.
3. Demonstrate how institutions of family, education, religion, medicine and the economy are interrelated.
4. Understand the interrelationships between social structures and individuals in society.
5. Distinguish between individualistic, cultural and structural explanations of social events.

Sociology - Ph.D.

College of Arts and Sciences
Department of Sociology and Criminology
www.kent.edu/sociology

About This Program

The Ph.D. degree in Sociology provides students with advanced training for research and teaching careers in higher education and for research-based careers in both the public and private sectors. The program offers specializations in criminology and deviance, the sociology of health and mental health, social inequalities (race, class, gender) and social psychology.

Contact Information

- **Susan Roxburgh** | sroxburg@kent.edu | 330-672-3125
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Social science research assistants

- 5.8% faster than the average
- 40,100 number of jobs
- $49,210 potential earnings

Sociologists

- 3.6% about as fast as the average
- 3,200 number of jobs
- $86,110 potential earnings

Sociology teachers, postsecondary

- 3.8% about as fast as the average
- 17,000 number of jobs
- $75,610 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university[1]
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcripts(s)
- GRE scores (taken within the last five years) (*starting with the fall 2026 admission term, the GRE is no longer required)*
- Goal statement (1-2 pages), describing current academic interests, research interests, long-range career goals and how admission will facilitate the achievement of these goals
- Three letters of recommendation from current/former professors who can adequately evaluate the applicant's past work and potential
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score

- Minimum 65 PTE score
- Minimum 120 DET score

[1] Applications for admission are accepted from those who will have a completed a master's degree upon starting the program. It is limited to students whose records clearly indicate both scholarly and research potential to do doctoral-level work.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: December 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
SOC 72002	PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY [1]	3
SOC 72105	CONTEMPORARY SOCIOLOGICAL THOUGHT	3
SOC 72218	ADVANCED DATA ANALYSIS	4
SOC 72219	QUALITATIVE METHODS IN SOCIOLOGY	4
SOC 72894	COLLEGE TEACHING OF SOCIOLOGY	3
Advisor-Approved Electives [2]		16
Culminating Requirement		
SOC 82199	DISSERTATION I [3]	30
Minimum Total Credit Hours:		**63**

[1] All students who entered the program with an master's degree earned at another institution must take SOC 72002. This course will not be waived. **Students who are waived the course may graduate with 60 total credit hours.**

[2] Students who have already completed a master's degree in sociology or a related field are required to take a minimum of 16 elective credit hours, 9 of which must be in a specialization area. No more than 6 credit hours of SOC 72896 and/or SOC 72898 may be applied toward the degree as elective credit. No more than 6 credit hours of doctoral-level coursework outside the department may be applied toward the degree as elective credit. These limits include courses taken while earning a master's degree in sociology.

[3] Each doctoral candidate, upon admission to candidacy, must register for SOC 82199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for SOC 82199, and thereafter SOC 82299, each semester, until all requirements for the degree have been met. After completing the dissertation, students must successfully defend it in an oral examination. The exam will include an evaluation of theory, methodology, analysis and other topics relevant to the student's specialty area.

Candidacy Requirement

To earn the Ph.D. degree, students must pass the doctoral candidacy examination. The examination will include an evaluation of theory, methodology, analysis and other topics relevant to the student's specialty area.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an advanced understanding of sociological theory by using it to better understand social phenomena and human behavior, develop new theoretical arguments and pose and attempt to answer research questions.
2. Demonstrate a an advanced understanding of research methods in sociology, including both quantitative methods (e.g., survey, experimental) and qualitative methods (e.g., participant observation, content analysis).
3. Demonstrate an advanced understanding of statistics in application to social research, including advanced techniques (e.g., structural equation modeling, hierarchical linear modeling).
4. Demonstrate the ability to synthesize complex scientific literatures and execute sophisticated original research through the successful completion of a dissertation project.

Economics - B.A.

College of Arts and Sciences
www.kent.edu/cas

About This Program

The Bachelor of Arts in Economics program provides you with a solid foundation in economic theory and policy, equipping you with the analytical skills needed to understand and address complex economic issues. With a focus on critical thinking and problem solving, you will be prepared for a variety of careers in the public and private sectors. Read more...

Contact Information

- **Tom Sahajdack, Ph.D.** | tsahajda@kent.edu | 330-672-1085
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- $98,230 potential earnings

Economists

- 14.1% much faster than the average
- 20,500 number of jobs
- $108,350 potential earnings

Social science research assistants

- 5.8% faster than the average
- 40,100 number of jobs
- $49,210 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BA 24056	BUSINESS ANALYTICS I [1]	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS (min C- grade)	3
ECON 32041	INTERMEDIATE MACROECONOMIC THEORY AND POLICY (min C- grade)	3
ECON 32050	APPLIED ECONOMETRICS I (ELR) (min C- grade)	3
ECON 42191	SENIOR SEMINAR IN ECONOMICS (WIC) (min C grade) [2]	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
Economics (ECON) Upper-Division Electives (30000 or 40000 level) [3]		12
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines) (must be from a discipline other than ECON)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		46
Minimum Total Credit Hours:		**120**

1. Students who have taken an equivalent course in introductory statistics, such as MATH 10041, or have an equivalent AP statistics exam score, may substitute for BA 24056.
2. A minimum C grade must be earned to fulfill the writing-intensive requirement.
3. Economics electives must be determined with students' faculty advisor. ECON 32082 does not count toward the major.

Progression Requirements

- Minimum C- grade in ECON 32040, ECON 32041 and ECON 32050 prior to taking ECON 42191
- Minimum C grade in ECON 42191

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students planning to pursue a combined degree program with the Master of Arts in Economics degree must earn a minimum 3.200 overall GPA.

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	MATH 11012 or MATH 12002	INTUITIVE CALCULUS (KMCR) or ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	3-5
	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	BA 24056	BUSINESS ANALYTICS I	3
	ECON 32040 or ECON 32041	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS or INTERMEDIATE MACROECONOMIC THEORY AND POLICY	3
	Economics (ECON) Upper-Division Elective (30000 or 40000 level)		3
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	ECON 32040 or ECON 32041 or ECON 32050	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS or INTERMEDIATE MACROECONOMIC THEORY AND POLICY or APPLIED ECONOMETRICS I (ELR)	3
	General Electives		12
		Credit Hours	**15**
	Semester Six		
!	ECON 32040 or ECON 32041 or ECON 32050	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS or INTERMEDIATE MACROECONOMIC THEORY AND POLICY or APPLIED ECONOMETRICS I (ELR)	3
	Economics (ECON) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		9
		Credit Hours	**15**
	Semester Seven		
	Economics (ECON) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		12
		Credit Hours	**15**
	Semester Eight		
!	ECON 42191	SENIOR SEMINAR IN ECONOMICS (WIC)	3
	Economics (ECON) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		9
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Conceptualize and analyze problems using economic concepts and reasoning.
2. Critically analyze alternative economic policy proposals.
3. Utilize analytic and quantitative techniques that are used extensively in economics to formulate and test hypothesis.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Economics equips students with a variety of skills sought by employers, including conceptualizing and solving problems and locating, organizing and analyzing relevant data.

In their junior year, students learn microeconomic and macroeconomic theory and take an econometrics class to learn data analysis skills. Students then take a series of electives that deal with vital current topics relevant to many careers in which these theories and skills are applied, such as the U.S. financial and banking system, economic relations between the United States and foreign countries; government spending and taxation policies; and the U.S. health system and policy options.

In their senior year, students take a capstone course that utilizes and applies the theory, skills and institutional knowledge learned in the program.

Kent State University offers both this B.A. degree, as well as a B.B.A. degree in Economics.

Economics students may apply early to the following master's degree programs and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

- Master of Arts in Economics degree
- Master of Business Administration degree

Materials Science - M.S.

College of Arts and Sciences
www.kent.edu/materials-science

About This Program

The M.S. Materials Science program offers a comprehensive curriculum and cutting-edge research opportunities in materials science. With experienced faculty and access to state-of-the-art facilities, you will be prepared for a successful career in this field. Read more...

Contact Information

- **Antal Jakli** | MSGPdirector@kent.edu | 330-672-3899
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Computer and information research scientists

- 15.4% much faster than the average
- 32,700 number of jobs
- $126,830 potential earnings

Physical scientists, all other

- -3.0% decline
- 22,800 number of jobs
- $107,210 potential earnings

Physicists

- 7.3% faster than the average
- 18,200 number of jobs
- $129,850 potential earnings

Materials scientists

- 3.4% about as fast as the average
- 7,000 number of jobs
- $99,460 potential earnings

Biochemists and biophysicists

- 4.0% about as fast as the average
- 34,600 number of jobs
- $94,270 potential earnings

Biological scientists, all other

- 2.2% slower than the average
- 44,700 number of jobs
- $85,290 potential earnings

Chemists

- 4.7% about as fast as the average
- 86,700 number of jobs
- $79,300 potential earnings

Chemical engineers

- 4.4% about as fast as the average
- 32,600 number of jobs
- $108,540 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Résumé or curriculum vitae
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

Submission of GRE scores (general and subject test in physics or chemistry) is not required, but strongly recommended. Admission will be granted by examination of the student's background on an individual basis. Students from a variety of undergraduate majors—such as physics, chemistry, engineering and materials science—are invited to apply.

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: January 15
    Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
MTSC 62242	CHARACTERIZATION OF SOFT MATTER	3
MTSC 63000	PHYSICS OF SOFT MATTER	3
MTSC 63015	CHEMISTRY OF SOFT MATTER	3
MTSC 63020	APPLICATIONS OF SOFT MATTER	3
Approved Electives, choose from the following:		12
BSCI 50158	MOLECULAR BIOLOGY	
BSCI 50220	BIOINFORMATICS	
BSCI 51120	BIOLOGICAL LIGHT MICROSCOPY	
CHEM 50352	INORGANIC MATERIALS CHEMISTRY	
CHEM 50451	ORGANIC MATERIALS CHEMISTRY	
CHEM 50559	NANOMATERIALS	
CHEM 50571	SURFACE CHEMISTRY	
CHEM 60254	BIOMEMBRANES	
CHEM 62691	SEMINAR: INDUSTRIAL CHEMISTRY	
MTSC 60498	RESEARCH	
MTSC 62241	STATISTICAL MECHANICS OF SOFT MATTER	

MTSC 62249	LABVIEW FOR DATA ACQUISITION AND INSTRUMENT CONTROL	
MTSC 62335	ADVANCED LIQUID CRYSTALLINE AND POLYMERIC MATERIALS	
MTSC 62450	LIQUID CRYSTAL OPTICS I: THEORY	
MTSC 62452	LIQUID CRYSTAL OPTICS II: OPTICAL SYSTEMS	
MTSC 62460	LIQUID CRYSTAL MATERIALS SCIENCE	
MTSC 62462	LIQUID CRYSTAL SCIENCE: PHYSICAL PROPERTIES	
MTSC 62640	LIQUID CRYSTAL, POLYMER AND COLLOID COMPOSITES	
MTSC 62643	ELECTRO-OPTICS OF LIQUID CRYSTALS: MODELING AND DEVICE DESIGN	
MTSC 62647	STRUCTURED FLUIDS	
MTSC 62650	COMPUTATIONAL MATERIALS SCIENCE	
MTSC 62651	NANOBIOTECHNOLOGY	
MTSC 63010	LYOTROPIC LIQUID CRYSTALS	
MTSC 63025	ACTIVE MATTER	
MTSC 63100	EMERGING DISPLAY TECHNOLOGIES	
MTSC 64491	SEMINAR: LIQUID CRYSTALS	
MTSC 64495	SPECIAL TOPICS IN CHEMICAL PHYSICS	
MTSC 65006	LIQUID CRYSTAL DEVICE PROTOTYPING	
MTSC 65008	LIQUID CRYSTAL DEVICE CONSTRUCTION	
MTSC 65032	SCIENTIFIC COMMUNICATION	
PHY 66403	ADVANCED CONDENSED MATTER PHYSICS	
PHY 68401	LIQUID CRYSTAL PHYSICS	
Additional courses with advisor approval		
Culminating Requirement		
MTSC 60199	THESIS I [1]	6
Minimum Total Credit Hours:		**30**

[1] Candidates selecting to complete the thesis will present and interpret results of original research that must be defended before a committee of the materials science graduate faculty. Upon approval of the thesis topic, the student is required to register continuously for MTSC 60199 each semester for a total of 6 credit hours. A student who has completed the required 6 credit hours of MTSC 60199 but has not finished the thesis is expected, thereafter, to register continuously for MTSC 60299 each semester until all degree requirements are met. No more than 6 credit hours of MTSC 60199 may be counted toward completion of degree requirements. Credit hours earned in MTSC 60299 do not, under any circumstances, count toward the degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Develop an advanced understanding of the fundamental science of soft materials and ability to apply acquired knowledge of physical and chemical properties of advanced soft materials and devices such as liquid crystals, polymers, colloids and active matter.
2. Gain experience in presenting scientific data in research publications, articles, posters and oral presentations.
3. Apply acquired knowledge to the development of new soft materials, new theories and effects and advanced materials such as liquid crystal-based devices.

Full Description

The Master of Science degree in Materials Science provides students with extensive scientific training, cutting-edge research opportunities and engineering skills necessary for a variety of careers in academy and industry. Program faculty and students conduct research through Kent State's participating departments and the Advanced Materials and Liquid Crystal Institute. Such research includes liquid crystal synthesis and molecular design; properties of liquid crystals and related advanced materials; lyotropic liquid crystals and bio-related materials; opto-electronics; and nanoscience and nanotechnologies. These important research foci are inherently interdisciplinary.

Materials Science - Ph.D.

College of Arts and Sciences
www.kent.edu/materials-science

About This Program

The Materials Science Ph.D. program offers advanced coursework and research opportunities in materials science, preparing you for a career in academia or industry. With experienced faculty and access to state-of-the-art facilities, you will be equipped with the skills needed to make an impact in the field. Read more...

Contact Information

- **Antal Jakli** | MSGPdirector@kent.edu | 330-672-3899
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Computer and information research scientists

- 15.4% much faster than the average
- 32,700 number of jobs
- $126,830 potential earnings

Physical scientists, all other

- -3.0% decline
- 22,800 number of jobs
- $107,210 potential earnings

Physicists

- 7.3% faster than the average
- 18,200 number of jobs
- $129,850 potential earnings

Biochemists and biophysicists

- 4.0% about as fast as the average
- 34,600 number of jobs
- $94,270 potential earnings

Biological scientists, all other

- 2.2% slower than the average
- 44,700 number of jobs
- $85,290 potential earnings

Chemists

- 4.7% about as fast as the average
- 86,700 number of jobs
- $79,300 potential earnings

Chemical engineers

- 4.4% about as fast as the average
- 32,600 number of jobs
- $108,540 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Résumé or curriculum vitae
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

GRE scores (general and subject test in physics or chemistry) are not required, but strongly recommended. Admission will be granted by examination of the student's background on an individual basis. Students from a variety of undergraduate majors—such as physics, chemistry, engineering and materials science—are invited to apply.

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: January 15
    Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
MTSC 72242	CHARACTERIZATION OF SOFT MATTER	3
MTSC 73000	PHYSICS OF SOFT MATTER	3
MTSC 73015	CHEMISTRY OF SOFT MATTER	3
MTSC 73020	APPLICATIONS OF SOFT MATTER	3
Approved Electives, choose from the following:		18-48
BSCI 70158	MOLECULAR BIOLOGY	
BSCI 70220	BIOINFORMATICS	
BSCI 71120	BIOLOGICAL LIGHT MICROSCOPY	
CHEM 70254	BIOMEMBRANES	
CHEM 70352	INORGANIC MATERIALS CHEMISTRY	
CHEM 70451	ORGANIC MATERIALS CHEMISTRY	
CHEM 70559	NANOMATERIALS	
CHEM 70571	SURFACE CHEMISTRY	
MTSC 72241	STATISTICAL MECHANICS OF SOFT MATTER	
MTSC 72249	LABVIEW FOR DATA ACQUISITION AND INSTRUMENT CONTROL	
MTSC 72335	ADVANCED LIQUID CRYSTALLINE AND POLYMERIC MATERIALS	
MTSC 72450	LIQUID CRYSTAL OPTICS I: THEORY	
MTSC 72452	LIQUID CRYSTAL OPTICS II: OPTICAL SYSTEMS	
MTSC 72460	LIQUID CRYSTAL MATERIALS SCIENCE	
MTSC 72462	LIQUID CRYSTAL SCIENCE: PHYSICAL PROPERTIES	
MTSC 72640	LIQUID CRYSTAL, POLYMER AND COLLOID COMPOSITES	
MTSC 72643	ELECTRO-OPTICS OF LIQUID CRYSTALS: MODELING AND DEVICE DESIGN	
MTSC 72647	STRUCTURED FLUIDS	
MTSC 72650	COMPUTATIONAL MATERIALS SCIENCE	
MTSC 72651	NANOBIOTECHNOLOGY	
MTSC 73010	LYOTROPIC LIQUID CRYSTALS	
MTSC 73025	ACTIVE MATTER	
MTSC 73100	EMERGING DISPLAY TECHNOLOGIES	
MTSC 74491	SEMINAR: LIQUID CRYSTALS	
MTSC 74495	SPECIAL TOPICS IN CHEMICAL PHYSICS	
MTSC 75006	LIQUID CRYSTAL DEVICE PROTOTYPING	
MTSC 75008	LIQUID CRYSTAL DEVICE CONSTRUCTION	

MTSC 75032	SCIENTIFIC COMMUNICATION	
MTSC 80498	RESEARCH	
PHY 76403	ADVANCED CONDENSED MATTER PHYSICS	
PHY 78401	LIQUID CRYSTAL PHYSICS	
Additional courses with advisor approval		
Culminating Requirement		
MTSC 80199	DISSERTATION I [1]	30
Minimum Total Credit Hours for Post-Baccalaureate Students		**90**
Minimum Total Credit Hours for Post-Master's Students		**60**

[1] Each doctoral candidate, upon admission to candidacy, must register for MTSC 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter MTSC 80299, each semester, until all requirements for the degree have been met. A prospectus of the dissertation research project is required for all Ph.D. candidates. The prospectus is prepared jointly with the student's dissertation advisor. The prospectus must be approved by the members of the student's dissertation committee. A dissertation presenting and interpreting results of original research is required for the Ph.D. degree. Following acceptance of the dissertation by the dissertation committee, the final degree requirement is the satisfactory completion of the final oral exam (defense of dissertation) in front of a committee of graduate materials science faculty and representatives from other departments in the College of Arts and Sciences.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Candidacy Requirement

In addition to satisfying the course work, students must pass the materials science candidacy examination. The examination is divided into two parts, a written exam and an oral exam.

The written exam is scheduled first, followed by the oral exam. The exams will cover the core courses of the materials science program taken during the first year. Students who do not pass the candidacy exam the first time may take it a second time. The first attempt at candidacy usually will take place in August, during the week before the start of the fall semester of the student's second year of study. The second attempt usually will take place in January, during the week before the start of the spring semester of the student's second year of study. A request for exception will be considered for medical reasons or for other unpredictable circumstances. Requests must be submitted in writing with supporting documentation prior to the test date and must be approved by the candidacy exam committee and by the director of the materials science program.

Students who fail the second attempt cannot continue towards the doctoral degree, but may complete the requirements for the Master of Science degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Develop an advanced understanding of the fundamental science of liquid crystals and related advanced materials and ability to apply acquired knowledge of physical and chemical properties of soft materials and devices such as liquid crystals, polymers, colloids and active matter.
2. Gain experience in presenting scientific data in research publications, articles, posters and oral presentations.
3. Apply acquired knowledge to the discovery of new advanced materials and development of advanced materials-based devices and applications.

Full Description

The Ph.D. degree in Materials Science provides students with extensive scientific training, cutting-edge research opportunities and engineering skills necessary for a variety of careers in academy and industry. Program faculty and students conduct research through Kent State's participating departments and the Advanced Materials and Liquid Crystal Institute. Such research includes liquid crystal synthesis and molecular design; properties of liquid crystals and related advanced materials; lyotropic liquid crystals and bio-related materials, opto-electronics; and nanoscience and nanotechnologies. These important research foci are inherently interdisciplinary.

Neuroscience - Minor

College of Arts and Sciences
www.kent.edu/cas

About This Program

The Neuroscience minor provides a basic neuroscience background to complement other areas of study. The minor is especially suited for students wishing to pursue careers in fields where an understanding of brain function is advantageous.

Contact Information

- **Wilson Chung, Ph.D.** | **neuroundergrad@kent.edu** | 330-672-3641
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4-6
or CHEM 11060	GENERAL CHEMISTRY I BOOST (KBS)	

CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
NEUR 30100	NEUROSCIENCE I	3
NEUR 30200	NEUROSCIENCE II	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Neuroscience Elective, choose from the following: [1]		3
BSCI 40147	DEVELOPMENTAL NEUROBIOLOGY	
BSCI 40151	MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES	
BSCI 40152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 40157	NEUROBIOLOGY OF DRUG ADDICTION	
BSCI 40431	NEUROENDOCRINOLOGY	
BSCI 40432	ENDOCRINOLOGY	
BSCI 40450	BIOLOGICAL CLOCKS	
BSCI 40515	ANIMAL BEHAVIOR	
BSCI 40519	HORMONES AND BEHAVIOR	
PSYC 40111	PSYCHOPATHOLOGY	
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY	
PSYC 40446	COGNITIVE NEUROSCIENCE	
PSYC 41043	BASIC LEARNING PROCESSES	
PSYC 41364	DRUGS AND BEHAVIOR	
PSYC 43001	CLINICAL NEUROANATOMY	
PSYC 47387	NEUROPSYCHOPHARMACOLOGY	
Minimum Total Credit Hours:		**25**

[1] Students should consult with a neuroscience advisor to determine the most appropriate elective course given their disciplinary interests and career aspirations.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Acquire and explain the fundamental principles of neuroscience.
2. Acquire knowledge about proper experimental design, data analysis and communication of research results within the neuroscience discipline.
3. Gain greater knowledge and appreciation of the role neuroscience plays in societal issues, such as those related to neurological disorders, mental health, medicine and human and animal behavior.

Pre-Health - Undergraduate Certificate

College of Arts and Sciences
https://www.kent.edu/cas

About This Program

The Pre-Health undergraduate certificate prepares students who previously graduated from college with a non-health-related degree for careers in health care. The program structure is flexible in order to provide courses necessary for admission to a variety of professional schools including medical, dental, pharmacy, physician assistant and veterinary.

Contact Information

- **Erin Lawson** | elawson1@kent.edu | 330-672-2062
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to this certificate is selective. Applicants must meet the following criteria:

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Demonstrated proficiency through the equivalent of college algebra or higher

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30481	ORGANIC CHEMISTRY I	3
Certificate Electives, choose from the following:		30-40
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
BSCI 21020	ANATOMY AND PHYSIOLOGY II	
BSCI 30130	HUMAN PHYSIOLOGY	

BSCI 30140	CELL BIOLOGY	
BSCI 30156	ELEMENTS OF GENETICS	
BSCI 30171	GENERAL MICROBIOLOGY	
BSCI 30517	HUMAN ANATOMY	
BSCI 40430	ANIMAL PHYSIOLOGY	
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	
or CHEM 40245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	
CHEM 30482	ORGANIC CHEMISTRY II	
CHEM 40261	BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION	
CHEM 40262	BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
HED 14020	MEDICAL TERMINOLOGY	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 30011	BASIC PROBABILITY AND STATISTICS	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	
PSYC 40111	PSYCHOPATHOLOGY	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	
Minimum Total Credit Hours:		**48**

Progression Requirements

- Minimum 3.200 certificate GPA

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.200	2.000

- Professional programs are highly competitive and some may require or recommend a higher GPA

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
Certificate Electives		3-6
	Credit Hours	**12**
Semester Two		
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
Certificate Electives		7-10
	Credit Hours	**12**
Semester Three		
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30481	ORGANIC CHEMISTRY I	3
Certificate Electives		8-10
	Credit Hours	**12**
Semester Four		
Certificate Electives		12-14
	Credit Hours	**12**
	Minimum Total Credit Hours:	**48**

Program Learning Outcomes

Graduates of this program will be able to:

1. Examine science and math subjects pertinent to medical school and other health career program requirements.
2. Prepare for admission to medical school and other health career programs.

School of Biomedical Sciences

College of Arts and Sciences
School of Biomedical Sciences
Cunningham Hall
Kent Campus
330-672-2263
www.kent.edu/biomedical

Graduate Programs

- Biomedical Sciences - Cellular and Molecular Biology - M.S.
- Biomedical Sciences - Cellular and Molecular Biology - Ph.D.
- Biomedical Sciences - Human Evolutionary Biology - Ph.D.
- Biomedical Sciences - Neurosciences - M.S.
- Biomedical Sciences - Neurosciences - Ph.D.
- Biomedical Sciences - Pharmacology - M.S.
- Biomedical Sciences - Pharmacology - Ph.D.
- Biomedical Sciences - Physiology Interdisciplinary - M.S.
- Biomedical Sciences - Physiology Interdisciplinary - Ph.D.

Biomedical Sciences (BMS)

BMS 40196 INDIVIDUAL INVESTIGATION IN BIOMEDICAL SCIENCES (ELR) 1-3 Credit Hours
(Repeatable for credit) Research study under the direction of a BMS faculty mentor. Students majoring in biochemistry, biology, biotechnology, chemistry, neuroscience and physics are eligible to enroll in this course, but must have 18 credit hours in their major completed.
Prerequisite: Minimum 2.750 overall GPA; and Biochemistry major or Biology major or Biotechnology major or Chemistry major or Neuroscience major or Physics major; and departmental and faculty mentor approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BMS 50701 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with BMS 70701)(Cross-listed with PSYC 43001, PSYC 53001 and PSYC 73001) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 50702 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with BMS 70702)(Cross-listed with PSYC 43002, PSYC 53002 and PSYC 73002) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Graduate standing and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 50703 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with BMS 70703)(Cross-listed with PSYC 43003, PSYC 53003 and PSYC 73003) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 60110 CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS 2 Credit Hours
(Cross-listed with BSCI 60110)(Slashed with BMS 80110 and BSCI 80110) This course helps prepare graduate students for advanced careers in science. Students learn about a variety of possible careers, prepare application materials and develop their professional oral and writing skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 60120 LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES 2 Credit Hours
(Repeatable once for credit) Minimum of two laboratory rotations per semester by arrangement with individual faculty members.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with BMS 70196) Directed investigation under supervision of faculty member in biomedical sciences and with prior approval.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BMS 60198 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward degree requirements if department approves.
Prerequisite: Graduate standing; and special approval of adviser.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval of adviser.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 60200 FOUNDATIONS OF NEUROSCIENCE 3 Credit Hours
(Slashed with BMS 80200) (Cross-listed with BSCI 60200 and BSCI 80200) This is a graduate-level introductory neuroscience course that will survey aspects of molecular and cellular neuroscience, the biophysics of the nervous system, basic neuroanatomy, and the homeostatic regulation of the periphery. After completion of this course students should have an understanding of how cells of the nervous system work, how these cells interact with homeostatic systems important to the regulation of peripheral physiology and behavior, and the basic neuroanatomy of these regulatory systems, including major neurotransmitter and neuroendocrine systems. Upon completion of this course, students should be prepared for advanced neuroscience coursework.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 60251 THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING 2 Credit Hours
(Slashed with BMS 70251) Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed.
Prerequisite: BSCI 50158; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 60291 SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 70291) Credits may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60295 SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY 1-5 Credit Hours
(Slashed with BMS 70295)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: 6 hours of BMS 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 60440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours
(Slashed with BMS 70440) The relevant and current topics associated with cellular signaling are covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.
Prerequisite: BSCI 40143 or BSCI 50143 or BSCI 70143; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 60441 MEDICAL PHYSIOLOGY 5 Credit Hours
(Slashed with BMS 70441) Investigation of how the integration of biophysics, biochemistry and structure induces organ function in the cardiovascular, renal, respiratory, endocrine and gastrointestinal systems. Limited discussion of how pathologies alter normal organ function.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

BMS 60462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours
(Slashed with BMS 70462) (Cross-listed with BSCI 60462 and BSCI 80462). Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.
Prerequisite: BMS 60729 or BMS 70729; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 60465 MEDICAL NEUROSCIENCE 6 Credit Hours
(Slashed with BMS 70465) Detailed examination of human neuroanatomy and nervous system function.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 lecture, 3 lab
Grade Mode: Standard Letter

BMS 60491 SEMINAR IN MEDICAL PHYSIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 70491) Credits may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60495 SPECIAL TOPICS IN PHYSIOLOGY 1-5 Credit Hours
(Slashed with BMS 70495)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 60501 INTRODUCTION TO PHARMACOLOGY 1 Credit Hour
(Slashed with BMS 70501) Satisfactory/Unsatisfactory (S/U) graded. Basic aspects of pharmacology. Intended to provide a general understanding of fundamental concepts in pharmacology and opportunities for students to read and present peer-reviewed manuscripts covering introductory pharmacological concepts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60502 MOLECULAR PHARMACOLOGY 4 Credit Hours
(Slashed with BMS 70502) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of select drug topics. Focus is placed on the molecular and cellular targets of drug action.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 60503 PHARMACOLOGY JOURNAL REVIEW 1 Credit Hour
(Repeatable maximum four times) (Slashed with BMS 70503) Satisfactory/Unsatisfactory (S/U) graded. Review and discussion of advanced pharmacology journal articles. Students will present and critique articles from peer-viewed publications and actively participate in discussions. Background in physiology and biochemistry required.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60504 CHEMOTHERAPHY AND TOXICOLOGY 2 Credit Hours
(Slashed with BMS 70504) Specialized topics in chemotherapy of microbial and neoplastic diseases as well as principles of toxicology.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 60505 DRUG DISCOVERY AND CLINICAL PHARMACOLOGY 2 Credit Hours
(Slashed with BMS 70505) Basic concepts underlying drug discovery and clinical pharmacology including principles of pharmacokinetics, metabolism, pharmacogenomics and drug design.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 60506 HERBALS AND SUPPLEMENTS 2 Credit Hours
(Slashed with BMS 70506) Provides an understanding of the basic scientific, therapeutic and pharmacological principles underlying the use of medicinal plants, herbal medications, natural products, vitamins, minerals and supplements.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 60591 SEMINAR IN PHARMACOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 70591) Credits may be applied toward degree if department approves. Repeated registration permitted.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60595 SPECIAL TOPICS IN PHARMACOLOGY 1-5 Credit Hours
(Slashed with BMS 70595)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 60596 INDIVIDUAL INVESTIGATION IN PHARMACOLOGY 1-3 Credit Hours
(Slashed with BMS 70596) (Repeatable for credit) Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

BMS 60729 CELLULAR AND MOLECULAR NEUROSCIENCE 4 Credit Hours
(Slashed with BMS 70729) The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental neurobiology.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 60751 CURRENT RESEARCH IN AUDITORY NEUROBIOLOGY 1 Credit Hour
(Slashed with BMS 70751) (Repeatable for a maximum of four credit hours) Presentation-based by faculty in the Auditory Neuroscience Group. Topics will vary each semester. Each class presentation will highlight recent advances in auditory neurobiology, cover relevant background, and involve discussion of methodology, experimental design, and interpretive issues related to the research. Students will prepare a presentation on a topic chosen in conjunction with one of the faculty members. Assessment is based on presentation quality and active participation throughout the semester.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 60791 SEMINAR IN NEUROBIOLOGY 1 Credit Hour
(Slashed with BMS 70791) (Repeatable for credit) Credits may be applied toward degree if department approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 60795 SPECIAL TOPICS IN NEUROBIOLOGY 1-5 Credit Hours
(Slashed with BMS 70795)(Repeatable for credit) Study of problems of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 61000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour
(Slashed with BMS 71000) (Cross-listed with PHIL 61000) Introduction to professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BMS 61001 INTRODUCTION TO BIOMEDICAL SCIENCES 1 Credit Hour
(Slashed with BMS 71001) Seminar for all students in Biomedical Sciences. Repeat registration permitted.
Prerequisite: Graduate Standing in the School of Biomedical Sciences; Biological Anthropology, Biomedical mathematics, Cellular and Molecular Biology, Neurosciences, Pharmacology, Physiology Interdisciplinary.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 70120 LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES 2 Credit Hours
(Slashed with BMS 60120) (Repeatable once for credit) Minimum of two laboratory rotations per semester by arrangement with individual faculty members. May be repeated once.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Slashed with BMS 60196) (Repeatable for credit) Directed investigation under supervision of faculty member in biomedical sciences and with prior approval.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BMS 70251 THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING 2 Credit Hours
(Slashed with BMS 60251) Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed.
Prerequisite: BSCI 50158; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 70291 SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 60291) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70295 SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY 1-5 Credit Hours
(Slashed with BMS 60295)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 70440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours
(Slashed with BMS 60440) The relevant and current topics associated with cellular signaling are covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.
Prerequisite: BSCI 40143 or BSCI 50143 or BSCI 70143; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 70441 MEDICAL PHYSIOLOGY 5 Credit Hours
(Slashed with BMS 60441) Investigation of how the integration of biophysics, biochemistry and structure induces organ function in the cardiovascular, renal, respiratory, endocrine and gastrointestinal systems. Limited discussion of how pathologies alter normal organ function.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

BMS 70462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours
(Slashed with BMS 60462) (Cross-listed with BSCI 60462 and BSCI 80462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.
Prerequisite: BMS 60729 or BMS 70729; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 70465 MEDICAL NEUROSCIENCE 6 Credit Hours
(Slashed with BMS 60465) Detailed examination of human neuroanatomy and nervous system function.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 lecture, 3 lab
Grade Mode: Standard Letter

BMS 70491 SEMINAR IN MEDICAL PHYSIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 60491) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70495 SPECIAL TOPICS IN PHYSIOLOGY 1-5 Credit Hours
(Slashed with BMS 60495)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 70501 INTRODUCTION TO PHARMACOLOGY 1 Credit Hour
(Slashed with BMS 60501) Satisfactory/Unsatisfactory (S/U) graded. Basic aspects of pharmacology. Intended to provide a general understanding of fundamental concepts in pharmacology and opportunities for students to read and present peer-reviewed manuscripts covering introductory pharmacological concepts.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 70502 MOLECULAR PHARMACOLOGY 4 Credit Hours
(Slashed with BMS 60502) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of select drug topics. Focus is placed on the molecular and cellular targets of drug action.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 70503 PHARMACOLOGY JOURNAL REVIEW 1 Credit Hour
(Repeatable maximum four times) (Slashed with BMS 60503) Review and discussion of advanced pharmacology journal articles. Students will present and critique articles from peer-viewed publications and actively participate in discussions. Background in physiology and biochemistry required. Satisfactory/Unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70504 CHEMOTHERAPY AND TOXICOLOGY 2 Credit Hours
(Slashed with BMS 60504) Specialized topics in chemotherapy of microbial and neoplastic diseases as well as principles of toxicology.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 70505 DRUG DISCOVERY AND CLINICAL PHARMACOLOGY 2 Credit Hours
(Slashed with BMS 60505) Basic concepts underlying drug discovery and clinical pharmacology including principles of pharmacokinetics, metabolism, pharmacogenomics and drug design.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 70506 HERBALS AND SUPPLEMENTS 2 Credit Hours
(Slashed with BMS 60506) Provides an understanding of the basic scientific, therapeutic and pharmacological principles underlying the use of medicinal plants, herbal medications, natural products, vitamins, minerals and supplements.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

BMS 70591 SEMINAR IN PHARMACOLOGY 1 Credit Hour
(Slashed with BMS 60591) (Repeatable for credit) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70595 SPECIAL TOPICS IN PHARMACOLOGY 1-5 Credit Hours
(Slashed with BMS 60595)(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 70596 INDIVIDUAL INVESTIGATION IN PHARMACOLOGY 1-3 Credit Hours
(Slashed with BMS 60596) (Repeatable for credit) Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BMS 70701 CLINICAL NEUROANATOMY 3 Credit Hours
(Slashed with BMS 50701)(Cross-listed with PSYC 43001, PSYC 53001 and PSYC 73001). Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 70702 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours
(Slashed with BMS 50702)(Cross-listed with PSYC 43002, PSYC 53002 and PSYC 73002) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.
Prerequisite: Doctoral standing and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 70703 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours
(Slashed with BMS 50703)(Cross-listed with PSYC 43003, PSYC 53003 and PSYC 73003) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 70729 CELLULAR AND MOLECULAR NEUROSCIENCE 4 Credit Hours
(Slashed with BMS 60729) The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental neurobiology.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

BMS 70751 CURRENT RESEARCH IN AUDITORY NEUROBIOLOGY 1 Credit Hour
(Slashed with BMS 60751) (Repeatable for a maximum of four credit hours) Presentation-based by faculty in the Auditory Neuroscience Group. Topics will vary each semester. Each class presentation will highlight recent advances in auditory neurobiology, cover relevant background, and involve discussion of methodology, experimental design, and interpretive issues related to the research. Students will prepare a presentation on a topic chosen in conjunction with one of the faculty members. Assessment is based on presentation quality and active participation throughout the semester.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 70791 SEMINAR IN NEUROBIOLOGY 1 Credit Hour
(Repeatable for credit) (Slashed with BMS 60791) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 70795 SPECIAL TOPICS IN NEUROBIOLOGY 1-5 Credit Hours
(Slashed with BMS 60795)(Repeatable for credit) Study of problems of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 71000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour
(Slashed with BMS 61000) (Cross-listed with PHIL 61000) Introduction to professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BMS 71001 INTRODUCTION TO BIOMEDICAL SCIENCES 1 Credit Hour
(Slashed with BMS 61001) Introductory seminar for new students in Biomedical Sciences graduate programs. This seminar will expose students to the different faculty research programs available in the program.
Prerequisite: Doctoral standing in Biomedical Sciences.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 78630 PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY 3 Credit Hours
(Slashed with ANTH 68630) Graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates and early man.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 78637 BIOANTHROPOLOGICAL DATA ANALYSIS I 5 Credit Hours
(Cross-listed with ANTH 68637) Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

BMS 78638 BIOANTHROPOLOGICAL DATA ANALYSIS II 3 Credit Hours
(Cross-listed with ANTH 68638) This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple sample problems and regression methods. It also includes computer applications.
Prerequisite: BMS 78637; and Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 78691 SEMINAR IN BIOLOGICAL ANTHROPOLOGY 1 Credit Hour
(Repeatable for credit) Credits may be applied toward degree if department approves.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

BMS 78692 FIELD WORK IN PALEOANTHROPOLOGY 1-5 Credit Hours
(Repeatable for credit) Excavation and/or field survey of miocene and/or plio-pleistocene hominid localities.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Field Experience
Contact Hours: 1-5 other
Grade Mode: Standard Letter

BMS 78695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 1-5 Credit Hours
(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and recent developments in the field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-S/U

BMS 80110 CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS 2 Credit Hours
(Cross-listed with BSCI 80110)(Slashed with BMS 60110 and BSCI 60110) This course helps prepare graduate students for advanced careers in science. Students learn about a variety of possible careers, prepare application materials and develop their professional oral and writing skills.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

BMS 80198 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students who have not yet passed candidacy examination.
Prerequisite: Doctoral standing; and special approval of adviser.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Students must successfully complete the doctoral exam before taking this course.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BMS 80200 FOUNDATIONS OF NEUROSCIENCE 3 Credit Hours
(Slashed with BMS 60200) (Cross-listed with BSCI 60200 and BSCI 80200) This is a graduate-level introductory neuroscience course that will survey aspects of molecular and cellular neuroscience, the biophysics of the nervous system, basic neuroanatomy, and the homeostatic regulation of the periphery. After completion of this course students should have an understanding of how cells of the nervous system work, how these cells interact with homeostatic systems important to the regulation of peripheral physiology and behavior, and the basic neuroanatomy of these regulatory systems, including major neurotransmitter and neuroendocrine systems. Upon completion of this course, students should be prepared for advanced neuroscience coursework.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: 30 hours of BMS 80199; and Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Biomedical Sciences - Cellular and Molecular Biology - M.S.

College of Arts and Sciences
School of Biomedical Sciences
www.kent.edu/biomedical

About This Program

The Biomedical Sciences - Cellular and Molecular Biology M.S. program is designed for students who are passionate about biomedical research and want to develop advanced skills in cellular and molecular biology. With a focus on hands-on research, you will gain practical experience in laboratory techniques and data analysis, preparing you for a career in research, academia or industry. Read more...

Contact Information

- **John Johnson** | BMS@kent.edu | 330-672-3849
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Academic preparation adequate to perform graduate work in the desired field (recommended courses in chemistry, cell biology, genetics and biochemistry)
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement (applicants should describe their research experience and goals in pursuing an advanced degree)
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: November 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ANTH 68637	BIOANTHROPOLOGICAL DATA ANALYSIS I	4-5
or BSCI 60104	BIOLOGICAL STATISTICS	

BMS 60110	CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS	2
BMS 60120	LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES	2
BMS 61000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 61001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
BSCI 50143	EUKARYOTIC CELL BIOLOGY	3
BSCI 60144	SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY	1
Graduate Electives Approved by Thesis Committee		11-12
Culminating Requirement		
BMS 60199	THESIS I	6
Minimum Total Credit Hours:		**32**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Minimum 15 credit hours of overall hours must be letter graded (required and elective courses).
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment in fields that reflect their area of training.

Full Description

The Master of Science degree in Biomedical Sciences–Cellular and Molecular Biology prepares creative research scientists for careers in teaching, research and biotechnology. Graduates possess an in-depth comprehension of experimental design at the cellular and molecular levels of biological organization, as well as competency in current techniques in the discipline. Major research emphases include signal transduction, biochemistry and pathobiology, gene regulation, cell systems biology, cell and tissue ultrastructure, membrane structure and function, molecular aspects of neurobiology and endocrinology, genetics and metabolism of microorganisms, virology and immunology and enzymology with an emphasis on protein dynamics and folding, as well as cytochrome P-450s.

The M.S. degree in Biomedical Sciences–Cellular and Molecular Biology is offered in consortium with the Cleveland Clinic and Northeast Ohio Medical University (NEOMED). Program faculty are drawn from several departments at Kent State and the other two institutions. Additional participant faculty are located at area clinical facilities and hospitals. This multi-departmental and inter-institutional structure gives master's student access to the talents of a broadly diverse research faculty, as well as significant research facilities and resources.

Biomedical Sciences - Cellular and Molecular Biology - Ph.D.

College of Arts and Sciences
School of Biomedical Sciences
www.kent.edu/biomedical

About This Program

The Biomedical Sciences - Cellular and Molecular Biology Ph.D. program provides advanced training in biomedical research, with a focus on cellular and molecular biology. With access to state-of-the-art facilities and experienced faculty, you will gain the knowledge and expertise needed to tackle complex biomedical questions and make a meaningful impact in the field. Read more...

Contact Information

- **John Johnson** | BMS@kent.edu | 330-672-3849
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Academic preparation adequate to complete graduate coursework in cell and molecular biology (recommended courses in chemistry, cell biology, genetics and biochemistry)
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement (applicants should describe their research experience and goals in pursuing an advanced degree)
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: November 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BMS 70120	LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES (taken twice)	4
BMS 71000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 71001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
BMS 78637	BIOANTHROPOLOGICAL DATA ANALYSIS I	4-5
or BSCI 70104	BIOLOGICAL STATISTICS	
BMS 80110	CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS	2
BSCI 70143	EUKARYOTIC CELL BIOLOGY	3
BSCI 70144	SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY	1
Graduate Electives Approved by Guidance Committee		13-44
Culminating Requirement		
BMS 80199	DISSERTATION I [1]	30
Minimum Total Credit Hours for Post-Baccalaureate Students:		**90**
Minimum Total Credit Hours for Post-Master's Students:		**60**

[1] Upon completion of course requirements and candidacy exam, doctoral students must register for BMS 80199 for two semesters for a total of 30 credit hours. Thereafter, it is expected that a doctoral candidate will continuously register for BMS 80299 each semester until all requirements for the degree have been met. After completion of the candidacy examination, the dissertation committee will be established, consisting of the guidance committee and an outside member. Students will submit their prospectus for the dissertation to this committee. The format of the prospectus will parallel that utilized for NIH grant proposals (without biographical, budget and facilities information). The dissertation committee makes recommendations for reformulation until the proposal is acceptable or may reject it with specific reasons.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Post-baccalaureate students must complete a minimum of 60 credit hours prior to enrolling in BMS 80199. Minimum 15 of the 60 credit hours must be letter-graded courses.
- Post-master's students must complete a minimum of 30 credit hours prior to enrolling in BMS 80199.

Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment in fields that reflect their area of training.

Full Description

The Ph.D. degree in Biomedical Sciences–Cellular and Molecular Biology prepares creative research scientists for careers in teaching, research and biotechnology. Graduates possess an in-depth comprehension of experimental design at the cellular and molecular levels of biological organization, as well as competency in current techniques in the discipline. Major research emphases include signal transduction, biochemistry and pathobiology, gene regulation, cell systems biology, cell and tissue ultrastructure, membrane structure and function, molecular aspects of neurobiology and endocrinology, genetics and metabolism of microorganisms, virology and immunology and enzymology with an emphasis on protein dynamics and folding, as well as cytochrome P-450s.

The Ph.D. degree is offered in consortium with Cleveland Clinic and Northeast Ohio Medical University (NEOMED). Program faculty are drawn from several departments at Kent State and the other two institutions. Additional participant faculty are located at area clinical facilities and hospitals. This multi-departmental and inter-institutional structure gives doctoral candidates access to the talents of a broadly diverse research faculty as well as significant research facilities and resources.

Biomedical Sciences - Human Evolutionary Biology - Ph.D.

College of Arts and Sciences
School of Biomedical Sciences
www.kent.edu/biomedical

About This Program

The Biomedical Sciences - Human Evolutionary Biology Ph.D. program is designed for students who are interested in the study of human evolution, including genetics, anthropology and archaeology. With a focus on research and advanced coursework, you will gain the skills needed to tackle complex questions about human evolution and make a significant contribution to the field. Read more...

Contact Information

- **John Johnson** | BMS@kent.edu | 330-672-3849
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree in anthropology or biological sciences from an accredited college or university[1]
- Minimum 3.000 GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or curriculum vitae
- GRE scores
- Goal statement (applicants should describe their research experience and interests along with their goals and fit with the program)
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] A student with an outstanding academic record may receive a waiver of the master's degree requirement upon completion of 20 credit hours of graduate work and be admitted directly to the Ph.D. degree program.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: November 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BMS 70120	LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES (taken twice)	4
BMS 71000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 71001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
BMS 78630	PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY	3
BMS 78691	SEMINAR IN BIOLOGICAL ANTHROPOLOGY	1
BMS 80110	CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS	2
BSCI 70143	EUKARYOTIC CELL BIOLOGY	3
BSCI 70144	SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY	1
Approved Human Gross Anatomy Course [1]		5
Doctoral Elective Approved by Guidance Committee [2]		1-3
Data/Statistical Analysis Electives, choose from the folloing: [2]		6-8
BMS 78637 & BMS 78638	BIOANTHROPOLOGICAL DATA ANALYSIS I and BIOANTHROPOLOGICAL DATA ANALYSIS II	
PSYC 71651 & PSYC 71654	QUANTITATIVE STATISTICAL ANALYSIS I and QUANTITATIVE STATISTICAL ANALYSIS II	
Culminating Requirement		
BMS 80199	DISSERTATION I [3]	30
Minimum Total Credit Hours:		**60**

[1] The human gross anatomy requirement may be satisfied by courses taken at Northeast Ohio Medical University (NEOMED). Students should consult with their advisory committee.

[2] Students who select PSYC 71651 and PSYC 71654 as their data/statistical analysis elective must take additional electives to graduate with 60 credit hours.

[3] Upon completion of course requirements and candidacy exam, doctoral students must register for BMS 80199 for two semesters for a total of 30 credit hours. Thereafter, it is expected that a doctoral candidate will continuously register for BMS 80299 each semester until all requirements for the degree have been met. After completion of the candidacy examination, the dissertation committee will be established, consisting of the guidance committee and an outside member. Students will submit their prospectus for the dissertation to this committee. The format of the prospectus will parallel that utilized for NIH grant proposals (without biographical, budget and facilities information). The dissertation committee makes recommendations for reformulation until the proposal is acceptable or may reject it with specific reasons.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment after graduation in fields that reflect their area of training.

Full Description

The Ph.D. degree in Biomedical Sciences–Human Evolutionary Biology emphasizes a biological approach to research problems focusing on human and non-human anthropology. The program focuses on human anatomy and neuroanatomy, developmental biology, evolutionary genetics, mammalian physiology, paleontology and experimental archaeology. Many graduates use their training and teaching experience to enter anthropology or corporate teaching positions. Most graduates are also prepared to teach both human anatomy and other cognate fields (neuroanatomy, cell biology, physiology, genetics) in demand at most medical schools.

The Ph.D. degree is offered in consortium with Northeast Ohio Medical University (NEOMED). Faculty in the program are drawn from the departments of Anthropology and the Biological Sciences at Kent State and the Department of Anatomy and Neurobiology at NEOMED. This inter-departmental and inter-institutional structure provides significant resources to the doctoral candidates, including the Hammon-Todd human and primate skeletal collection, state-of-the-art laboratories for neuroanatomy, anatomy, genetics, paleontology, biomechanics and experimental archaeology. Additional resources are available to students

through the Cleveland Museum of National History, the Cleveland Metroparks zoo and other local, national and international collaborative relationships.

Candidates for the Ph.D. are expected to engage, to the extent possible, in other activities that benefit their professional development. The teaching of laboratory and lecture course, as a appropriate is considered valuable, and each student should have this experience during their graduate career. This includes those students on non-teaching scholarships or research appointments during their tenure. Students should also seek membership in professional organizations, attend meetings to present research results and maintain currency in the relevant literature.

Biomedical Sciences - Neurosciences - M.S.

College of Arts and Sciences
School of Biomedical Sciences
www.kent.edu/biomedical

About This Program

The Master of Science in Biomedical Sciences - Neurosciences offers a comprehensive curriculum that combines classroom instruction with research opportunities, preparing you for a rewarding career in neuroscience research or academia. With state-of-the-art facilities, experienced faculty and a commitment to excellence, Kent State's program is the perfect launchpad for your career in this exciting field. Read more...

Contact Information

- **John Johnson** | BMS@kent.edu | 330-672-3849
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Strong academic background sufficient to take graduate-level coursework in the curriculum (strong background in cell biology is recommended)
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement indicating the applicant's interests in neuroscience, research experience and fit with the program
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: November 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ANTH 68637	BIOANTHROPOLOGICAL DATA ANALYSIS I	4-5
or BSCI 60104	BIOLOGICAL STATISTICS	
BMS 60110	CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS	2
BMS 60120	LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES	2
BMS 61000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 61001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
Graduate Electives Approved by Thesis Committee		4-8
Neuroscience Electives, choose one track from the following:		8-11
Track One		
BMS 60462 & BMS 60729	NEUROBIOLOGY: SYSTEMS AND BEHAVIOR and CELLULAR AND MOLECULAR NEUROSCIENCE	
Track Two		
BMS 60200	FOUNDATIONS OF NEUROSCIENCE	
Choose two from the following:		
BMS 50703	NEURAL MECHANISMS OF LEARNING AND MEMORY	
BMS 60462	NEUROBIOLOGY: SYSTEMS AND BEHAVIOR	
BMS 60729	CELLULAR AND MOLECULAR NEUROSCIENCE	
BSCI 50147	DEVELOPMENTAL NEUROBIOLOGY	
BSCI 50152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 50157	NEUROBIOLOGY OF DRUG ADDICTION	
BSCI 50385	CURRENT TOPICS IN NEUROSCIENCE	
BSCI 50429	NEURAL CONTROL OF REPRODUCTIVE FUNCTION	
BSCI 50431	NEUROENDOCRINOLOGY	
BSCI 50519	HORMONES AND BEHAVIOR	
Culminating Requirement		

BMS 60199	THESIS I	6
Minimum Total Credit Hours:		**32**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Minimum 15 credit hours of overall credit hours must be letter graded (required and elective courses).
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment in fields that reflect their area of training.

Full Description

The Master of Science degree in Biomedical Sciences–Neurosciences is offered in consortium with the Cleveland Clinic and Northeast Ohio Medical University (NEOMED). The program allows students to complete research projects under the guidance of a neuroscience faculty member at Kent State University and faculty from the other two institutions.

Students complete a common set of core courses that cover fundamental principles in neuroscience and professional skills development. Students also complete elective courses tailored to their chosen subdiscipline. Areas of research focus on the neurosciences include behavioral neuroscience, sensory neuroscience, developmental neuroscience and neurodegenerative diseases.

Biomedical Sciences - Neurosciences - Ph.D.

College of Arts and Sciences
School of Biomedical Sciences
www.kent.edu/biomedical

About This Program

The Ph.D. in Biomedical Sciences - Neurosciences program is designed to help you develop the skills and knowledge needed to make groundbreaking discoveries in neuroscience research. With a focus on hands-on experience and collaboration, you will have opportunities to work with experienced researchers in state-of-the-art facilities, advancing your understanding of the human brain and preparing you for a fulfilling career in academia or industry. Read more...

Contact Information

- **John Johnson** | BMS@kent.edu | 330-672-3849
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Sufficient academic background to complete graduate coursework in neuroscience (strong background in cell biology is recommended)
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement indicating the applicant's interests in neuroscience, their research experience and career aspirations
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: November 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BMS 70120	LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES (taken twice)	4
BMS 71000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 71001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
BMS 78637	BIOANTHROPOLOGICAL DATA ANALYSIS I	4-5
or BSCI 70104	BIOLOGICAL STATISTICS	
BMS 80110	CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS	2
Graduate Electives Approved by Guidance Committee		6-40
Neuroscience Electives, choose one track from the following:		8-11

Track One		
BMS 70462	NEUROBIOLOGY: SYSTEMS AND BEHAVIOR	
BMS 70729	CELLULAR AND MOLECULAR NEUROSCIENCE	
Track Two		
BMS 80200	FOUNDATIONS OF NEUROSCIENCE	
Choose two from the following:		
BMS 70462	NEUROBIOLOGY: SYSTEMS AND BEHAVIOR	
BMS 70703	NEURAL MECHANISMS OF LEARNING AND MEMORY	
BMS 70729	CELLULAR AND MOLECULAR NEUROSCIENCE	
BSCI 70147	DEVELOPMENTAL NEUROBIOLOGY	
BSCI 70152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 70157	NEUROBIOLOGY OF DRUG ADDICTION	
BSCI 70385	CURRENT TOPICS IN NEUROSCIENCE	
BSCI 70429	NEURAL CONTROL OF REPRODUCTIVE FUNCTION	
BSCI 70431	NEUROENDOCRINOLOGY	
BSCI 70519	HORMONES AND BEHAVIOR	
Culminating Requirement		
BMS 80199	DISSERTATION I [1]	30
Minimum Total Credit Hours for Post-Baccalaureate Students:		**90**
Minimum Total Credit Hours for Post-Master's Students:		**60**

[1] Upon completion of course requirements and candidacy exam, doctoral students must register for BMS 80199 for two semesters for a total of 30 credit hours. Thereafter, it is expected that a doctoral candidate will continuously register for BMS 80299 each semester until all requirements for the degree have been met. After completion of the candidacy examination, the dissertation committee will be established, consisting of the guidance committee and an outside member. Students will submit their prospectus for the dissertation to this committee. The format of the prospectus will parallel that utilized for NIH grant proposals (without biographical, budget and facilities information). The dissertation committee makes recommendations for reformulation until the proposal is acceptable or may reject it with specific reasons.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Post-baccalaureate students must complete a minimum of 60 credit hours prior to enrolling in BMS 80199. Minimum 15 of the 60 credit hours must be letter-graded courses.
- Post-master's students must complete a minimum of 30 credit hours prior to enrolling in BMS 80199.

Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment in fields that reflect their area of training.

Full Description

The Ph.D. degree in Biomedical Sciences–Neurosciences is offered in consortium with the Cleveland Clinic and Northeast Ohio Medical University (NEOMED). The program allows students to complete research projects under the guidance of a neuroscience faculty member at Kent State and faculty at the other two institutions.

Students complete a common set of core courses that cover fundamental principles in neuroscience, from the cellular/molecular to the systems level. Students also complete elective courses tailored to their chosen subdiscipline. Areas of research focus on the neurosciences include behavioral neuroscience, sensory neuroscience, developmental neuroscience and neurodegenerative diseases.

Biomedical Sciences - Pharmacology - M.S.

College of Arts and Sciences
School of Biomedical Sciences
www.kent.edu/biomedical

About This Program

The Master of Science in Biomedical Sciences - Pharmacology program provides a comprehensive education in pharmacology and toxicology, preparing you for a wide range of careers in industry, government and academia. With access to cutting-edge research facilities, experienced faculty and real-world opportunities, you will gain the skills and knowledge needed to make an impact in this exciting field. Read more...

Contact Information

- **John Johnson** | BMS@kent.edu | 330-672-3849
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Academic preparation adequate to complete graduate coursework (recommended courses in general chemistry, biochemistry and physiology)
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement indicating the applicant's interests in pharmacology, their research experience, career aspirations and fit with the program
- Three letters of recommendation

- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: November 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ANTH 68637	BIOANTHROPOLOGICAL DATA ANALYSIS I	4-5
or BSCI 60104	BIOLOGICAL STATISTICS	
BMS 60110	CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS	2
BMS 60120	LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES	2
BMS 60440	CELLULAR AND MOLECULAR SIGNALING	3
BMS 60502	MOLECULAR PHARMACOLOGY	4
BMS 61000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 61001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
Graduate Electives Approved by Thesis Committee		8-9
Culminating Requirement		
BMS 60199	THESIS I	6
Minimum Total Credit Hours:		**32**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Minimum 15 credit hours of overall hours must be letter graded (required and elective courses).
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment in fields that reflect their area of training.

Full Description

The Master of Science degree in Biomedical Sciences–Pharmacology provides substantial opportunity to conduct research in molecular targeting, drug design and drug delivery in developing new approaches to treat disease. The multidisciplinary program enrolls a select group of graduate students interested in research-based careers in pharmacology, and provides a balance of classroom and laboratory work involving faculty at Kent State University and Northeast Ohio Medical University (NEOMED). Strong research foci exist in the areas of cardiovascular and metabolic diseases, neurodegenerative and blood brain barrier pharmacology. Interdisciplinary approaches to research and theoretical problems are strongly emphasized.

The M.S. degree in Biomedical Sciences–Pharmacology is offered in consortium with Cleveland Clinic and Northeast Ohio Medical University.

Biomedical Sciences - Pharmacology - Ph.D.

College of Arts and Sciences
School of Biomedical Sciences
www.kent.edu/biomedical

About This Program

The Ph.D. in Biomedical Sciences - Pharmacology program offers a comprehensive education in pharmacology, toxicology and related fields, preparing you to become a leader in industry, government or academia. With a focus on hands-on experience and collaboration, you will have the opportunity to work with experienced researchers in state-of-the-art facilities, advancing your understanding of drug development and preparing you for a fulfilling career in this exciting field. Read more...

Contact Information

- **John Johnson** | BMS@kent.edu | 330-672-3849
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university
- Minimum 2.750 undergraduate/graduate GPA on a 4.000-point scale
- Academic preparation adequate to complete graduate coursework (recommended courses in chemistry, biochemistry and physiology)
- Official transcript(s)
- Résumé or curriculum vitae

- Goal statement indicating the applicant's interests in pharmacology, research experience, career aspirations and fit with the program
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: November 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BMS 70120	LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES (taken twice)	4
BMS 70440	CELLULAR AND MOLECULAR SIGNALING	3
BMS 70502	MOLECULAR PHARMACOLOGY	4
BMS 71000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 71001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
BMS 78637	BIOANTHROPOLOGICAL DATA ANALYSIS I	4-5
or BSCI 70104	BIOLOGICAL STATISTICS	
BMS 80110	CAREER AND PROFESSIONAL SKILLS FOR LIFE SCIENTISTS	2
Graduate Electives Approved by Guidance Committee [1]		10-41
Culminating Requirement		
BMS 80199	DISSERTATION I [1]	30
Minimum Total Credit Hours for Post-Baccalaureate Students:		**90**
Minimum Total Credit Hours for Post-Master's Students:		**60**

[1] Upon completion of course requirements and candidacy exam, doctoral students must register for BMS 80199 for two semesters for a total of 30 credit hours. Thereafter, it is expected that a doctoral candidate will continuously register for BMS 80299 each semester until all requirements for the degree have been met. After completion of the candidacy examination, the dissertation committee will be established, consisting of the guidance committee and an outside member. Students will submit their prospectus for the dissertation to this committee. The format of the prospectus will parallel that utilized for NIH grant proposals (without biographical, budget and facilities information). The dissertation committee makes recommendations for reformulation until the proposal is acceptable or may reject it with specific reasons.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Post-baccalaureate students must complete a minimum of 60 credit hours prior to enrolling in BMS 80199. Minimum 15 of the 60 credit hours must be letter-graded courses.
- Post-master's students must complete a minimum of 30 credit hours prior to enrolling in BMS 80199.

Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment in fields that reflect their area of training.

Full Description

The Ph.D. degree in Biomedical Sciences–Pharmacology provides substantial opportunity for students to conduct research in molecular targeting, drug design and drug delivery in developing new approaches to treat disease. The multidisciplinary program enrolls a select group of graduate students interested in research-based careers in pharmacology and provides a balance of classroom and laboratory work involving faculty at Kent State University and Northeast Ohio Medical University (NEOMED). Strong research foci exist in the areas of cardiovascular and metabolic diseases, neurodegenerative and blood brain barrier pharmacology. Interdisciplinary approaches to research and theoretical problems are strongly emphasized.

The Ph.D. degree in Biomedical Sciences–Pharmacology is offered in consortium with Cleveland Clinic and Northeast Ohio Medical University.

Biomedical Sciences - Physiology Interdisciplinary - M.S.

College of Arts and Sciences
School of Biomedical Sciences
www.kent.edu/biomedical

About This Program

The Master of Science in Biomedical Sciences - Physiology Interdisciplinary program offers a comprehensive education in physiology, anatomy and related fields, preparing you for a wide range of careers in industry, government and academia. With access to cutting-edge research facilities, experienced faculty and real-world opportunities, you will gain the skills and knowledge needed to make an impact in this exciting field. Read more...

Contact Information

- **John Johnson** | BMS@kent.edu | 330-672-3849
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the M.S. in Biomedical Sciences-Physiology Interdisciplinary are not being accepted at this time.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.S. in Biomedical Sciences-Physiology Interdisciplinary are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Academic preparation adequate to perform graduate work in the desired field (recommended courses in chemistry, cell biology and physiology)
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement that includes a description of the applicant's research experience, research interests and career goals
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BMS 61000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 61001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
CHEM 50245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	4
Biostatistical Analysis Electives, choose from the following:		4-6
ANTH 68637	BIOANTHROPOLOGICAL DATA ANALYSIS I	
BSCI 60104	BIOLOGICAL STATISTICS	
EXPH 63050 & EXPH 63051	RESEARCH PROCESS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY and QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	
Neuroscience or Exercise Physiology Electives, choose from the following:		4-6
BMS 60729	CELLULAR AND MOLECULAR NEUROSCIENCE	
BSCI 50460 & BSCI 50462	ADVANCED HUMAN PHYSIOLOGY and ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES	
EXPH 65081 & EXPH 65082	ENERGY METABOLISM AND BODY COMPOSITION and CARDIO-RESPIRATORY FUNCTION	
Electives [1]		8-10
Culminating Requirement		
BMS 60199	THESIS I	6
Minimum Total Credit Hours:		**32**

[1] Elective courses and research must be approved by the student's thesis committee.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Minimum 17 credit hours of overall hours must be letter graded (required and elective courses).
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment after graduation in fields that reflect their area of training.

Full Description

The Master of Science degree in Biomedical Sciences–Physiology Interdisciplinary prepares graduates in areas that include cardiovascular, pulmonary, endocrine and neuroendocrine, reproductive or exercise physiology. In this context, emphasis is placed on an integrative approach for both research and graduate education. As with other program areas, the Biomedical Sciences–Physiology Interdisciplinary major takes advantage of the latest molecular and cellular techniques to address questions related to human diseases.

The M.S. degree is offered in consortium with Cleveland Clinic and Northeast Ohio Medical University (NEOMED). Faculty members are drawn from various departments at Kent State and the other two institutions. Although graduate work may be completed in any of the various research areas, faculty are listed in two general specializations: (1) environmental and comparative physiology and (2) cardiopulmonary and exercise physiology. Each specialization addresses different subject areas of physiology and each has an associated training faculty.

The degree program is research oriented and designed to provide students with a thorough grounding in physiological principles and techniques within several well-defined focus areas.

Biomedical Sciences - Physiology Interdisciplinary - Ph.D.

College of Arts and Sciences
School of Biomedical Sciences
www.kent.edu/biomedical

About This Program

The Ph.D. in Biomedical Sciences - Physiology Interdisciplinary program offers a comprehensive education in physiology, anatomy and related fields, preparing you to become a leader in industry, government or academia. With a focus on hands-on experience and collaboration, you will have the opportunity to work with experienced researchers in state-of-the-art facilities, advancing your understanding of human physiology and preparing you for a fulfilling career in this exciting field. Read more...

Contact Information

- **John Johnson** | BMS@kent.edu | 330-672-3849
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the Ph.D. in Biomedical Sciences-Physiology Interdisciplinary are not being accepted at this time.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Ph.D. in Biomedical Sciences-Physiology Interdisciplinary are not being accepted at this time.

- Bachelor's degree or higher from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement that includes a description of the applicant's research experience, research interests and career goals
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BMS 70120	LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES (taken twice)	4
BMS 71000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 71001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
CHEM 50245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	4
Biostatistical Analysis Elective, choose from the following:		3-6
BMS 78637	BIOANTHROPOLOGICAL DATA ANALYSIS I	
BSCI 70104	BIOLOGICAL STATISTICS	
EXPH 73050 & EXPH 73051	RESEARCH PROCESSES IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY and QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	
PSYC 71651	QUANTITATIVE STATISTICAL ANALYSIS I	
Neuroscience or Exercise Physiology Electives, choose from the following:		4-6
BMS 70729	CELLULAR AND MOLECULAR NEUROSCIENCE	
BSCI 70460 & BSCI 70462	ADVANCED HUMAN PHYSIOLOGY and ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES	
EXPH 75081 & EXPH 75082	ENERGY METABOLISM AND BODY COMPOSITION and CARDIO-RESPIRATORY FUNCTION	
Electives [1]		8-13
Culminating Requirement		
BMS 80199	DISSERTATION I [2]	30
Minimum Total Credit Hours for Post-Baccalaureate Students:		**90**
Minimum Total Credit Hours for Post-Master's Students:		**60**

[1] Elective courses and research must be approved by the student's guidance committee.

[2] Upon completion of course requirements and candidacy exam, doctoral students must register for BMS 80199 for two semesters for a total of 30 credit hours. Thereafter, it is expected that a doctoral candidate will continuously register for BMS 80299 each semester until all requirements for the degree have been met. As soon after completion of candidacy examination as possible, the dissertation committee will be established, consisting of the guidance committee and an outside discipline member – a graduate faculty member from another department at Kent State University or another program of the School of Biomedical Sciences. The student will submit to this committee their prospectus for the dissertation. The format of the prospectus will parallel that utilized for NIH grant proposals (without biographical, budget and facilities information). The dissertation committee may elect to examine the candidate on the proposal and may accept it as submitted or reject it with specific reasons and recommendations for reformulation.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Post-baccalaureate students must complete a minimum 60 credit hours, and post-master's students a minimum 30 credit hours, of coursework prior to dissertation.

Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment in fields that reflect their area of training.

Full Description

The Ph.D. degree in Biomedical Sciences–Physiology Interdisciplinary prepares graduates in areas that include cardiovascular, pulmonary, endocrine and neuroendocrine, reproductive or exercise physiology. In this context, emphasis is placed on an integrative approach for both research and graduate education. As with other program areas, the physiology program takes advantage of the latest molecular and cellular techniques to address questions related to human diseases.

The Ph.D. degree is offered in consortium with Cleveland Clinic and Northeast Ohio Medical University. Faculty members are drawn from various departments at Kent State and the other two institutions. Although graduate work may be completed in any of the various research areas, faculty are listed in two general specializations: (1) environmental and comparative physiology and (2) cardiopulmonary and exercise physiology. Each specialization addresses different subject areas of physiology and each has an associated training faculty.

The degree program is research oriented and designed to provide students with a thorough grounding in physiological principles and techniques within several well-defined focus areas.

School of Multidisciplinary Social Sciences and Humanities

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
113 Bowman
Kent Campus
https://www.kent.edu/multidisciplinary-studies

Undergraduate Programs

- Cybercriminology - B.S.
- Gender and Sexuality Studies - B.A.
- Integrative Studies - B.I.S.
- International Studies - B.A.
- Paralegal Studies - B.A.

Minors

- Ancient, Medieval and Renaissance Studies
- Jewish Studies
- Latin American Studies
- Lesbian, Gay, Bisexual, Transgender and Queer Studies
- Paralegal Studies
- Religion Studies
- Women's Studies
- World Literature and Cultures

Graduate Programs

- Liberal Studies - L.S.M.

Undergraduate Certificates

- Paralegal Studies

School of Multidisciplinary Social Sciences and Humanities Faculty

- Barnes, Andrew S. (2001), Associate Professor, Ph.D., Princeton University, 1999
- Bartell, Denise S. (2022), Professor
- Holt, Suzanne L. (1984), Professor, Ph.D., Kent State University, 1994
- Kim, Jung-Yeup (2008), Associate Professor, Ph.D., University of Hawaii-Manoa, 2008
- Mazzei, Julie M. (2004), Associate Professor, Ph.D., American University, 2006
- Odell-Scott, David (1990), Professor, Ph.D., Vanderbilt University, 1989
- Paar Conroy, Amanda M. (2013), Associate Professor, J.D., Cleveland State University, 2005
- Peterson, Mary S. (2016), Associate Professor, J.D., Bowling Green State University, 1987
- Stacher, Joshua A. (2008), Professor
- Vachon, Lauren (2012), Associate Professor, M.F.A., Kent State University, 2013

Arts and Sciences (AS)

AS 10010 SCIENCE EXPERIENCE 1 Credit Hour
(Repeatable for credit) Students gain experience in research methods via participation in mentored hands-on science research projects. Each student works on an individual basis in consultation with their assigned research mentor. Laboratory safety training is provided and required for the projects. Students must have completed or be co-enrolled in at least one college level (or advanced placement) class in a relevant STEM discipline.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter-IP

AS 20010 SUCCESS IN A FLASH 1 Credit Hour
This course provides useful and timely academic resources to help students achieve academic success. Time prioritization, academic motivation, goal setting, mindset and various learning techniques are covered.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

AS 20095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) This course, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AS 30092 INTERNSHIP (ELR) 1-12 Credit Hours
(Repeatable for credit) Students participate in internships under the direction of a faculty member.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-36 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

AS 30095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) This course, administered by the dean, is intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AS 30189 STUDY ABROAD: SPECIAL TOPICS (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) A Kent State faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

AS 30196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) A student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Kent State faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

AS 30290 STUDY AWAY: SPECIAL TOPICS (ELR) 1-3 Credit Hours
(Repeatable for credit) A Kent State faculty-led out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States.
Prerequisite: Special approval.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AS 30798 GENDER AND SEXUALITY RESEARCH FORUM (ELR) 3 Credit Hours
Allows students to do research in areas of gender and sexuality that connects to their own interests, which will be presented in public settings such as panels and presentations.
Prerequisite: None.
Schedule Type: Lecture, Research
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AS 41099 CAPSTONE IN GENDER AND SEXUALITY STUDIES (ELR) 3 Credit Hours
Students will be expected to design and implement an individualized exploration that demonstrates the interactions of theory and application, ideas and practice, and is reflective of the tenets of the interdisciplinary field of gender and sexuality.
Prerequisite: None.
Schedule Type: Lecture, Research
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AS 50095 SPECIAL TOPICS 1-4 Credit Hours
(Slashed with AS 70095) (Repeatable for credit) Topic to be announced in the schedule of classes.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AS 50096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

AS 60092 INTERNSHIP 1-6 Credit Hours
(Repeatable for credit) Students participate in internships under the direction of a faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

AS 70095 SPECIAL TOPICS 1-4 Credit Hours
(Slashed with AS 50095) (Repeatable for credit) Topic to be announced in the schedule of classes.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AS 70096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

Gender and Sexuality Studies (GSS)

GSS 10100 INTRODUCTION TO GENDER AND SEXUALITY STUDIES 3 Credit Hours
This course explores gender and sexuality studies from a multidisciplinary perspective. This course examines the cultural, social and biological constructs of sex and gender and interrogates the structures — governmental, familial, religious and social — that have informed historical and current thinking about sex and gender. This course includes global histories and definitions of gender and sexuality across time and place, and asks students to ponder: why is gender a primary organizing societal principle, and how do race, class, sexuality and disability status intersect with it?
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GSS 30500 METHODOLOGIES AND PRAXIS IN GENDER AND SEXUALITY STUDIES 3 Credit Hours
This course provides an arena for individual and group inquiry as well as conversations on methodologies and practices in gender studies pedagogy and research with emphases on multi-, inter- and transdisciplinary approaches. The topics reflect the crucial linkage between knowledge as we do knowledge, ethics as we embrace ethics, practices and traditions as they play and accrue within the real academic endeavors of the fields which converge and diverge in gender studies and its closely kindred variants. This course offers different methodological entrance points of use and value. At once, we study their deployment in actual practice. Moving beyond research practice, the course considers, too, the multifaceted praxes of scholars, teachers and cohorts of all kinds involved in the actional vision, mission, strategies, tactical planning and programmings, record-keeping, self-appraisals and archives at the heart of gender and sexuality studies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GSS 40450 GENDER AND SEXUALITY ROUNDTABLE 3 Credit Hours
This course takes an interdisciplinary approach in examining how gender and sexuality have been constructed through social, cultural, discursive and economic processes in hierarchizing social relations in society. The course is organized in a roundtable format that draws on the expertise of scholars and practitioners in the field who introduce students to contemporary issues and debates around gender and sexuality, both locally and globally, in a participatory forum. Students also gain insight on critical anti-racist, feminist and queer epistemologies and pedagogies in order to generate new knowledge and act in addressing gender and sexual inequality in their communities and wider society.
Prerequisite: GSS 10100.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GSS 40591 SEMINAR IN GENDER AND SEXUALITY STUDIES 3 Credit Hours
(Repeatable for credit) This course is required for all students in the Gender and Sexuality Studies major. The focus varies with instructor, providing students with advanced learning in gender and sexuality studies.
Prerequisite: GSS 10100.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Integrative Studies (IGST)

IGST 40099 SENIOR PROJECT (ELR) (WIC) 1-3 Credit Hours
(Repeatable twice for credit) Senior Project is a thesis or independent study done under the supervision of a faculty advisor. Students need written approval of faculty advisor, faculty member's unit, or director of the Center for Comparative and Integrative Programs in order to enroll in this course.
Prerequisite: Senior standing in a multidisciplinary program in the center for comparative and integrative programs; and special approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement, Writing Intensive Course

IGST 40192 INTERNSHIP IN INTEGRATIVE STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) Internship.
Prerequisite: Special approval from the director of the center for comparative and integrative programs.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

International Studies (INTS)

INTS 10504 THE NEW PANGAEA: YOUR ROLE IN OUR GLOBAL COMMUNITY (DIVG) 3 Credit Hours
Introduces students to the myriad of ways in which they are individually and collectively connected to the global community. Looking specifically at ways in which people are interconnected as consumers, patients, donors and participants in discourse, the course introduces students to the concepts, institutions and dynamics of globalization. Through assignments that focus on important global issues and engage students directly with the global community, students (a) learn how to engage the global community as informed consumers of information, (b) understand the basic structure of the global political arena, (c) learn how to engage actively and consciously within that arena and (d) understand the ways in which their daily behavior impacts global trends.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

INTS 30001 "TRUE FACTS": MAKING SENSE OF YOUR WORLD 3 Credit Hours
How can you find a reliable answer to a question you are curious about? “Research methods” sometimes seems like an intimidating subject, but it is really just a chance to think about how to find good answers to important questions. Scholars use a wide variety of methods, and this course provides an introduction to many of them, preparing students to be informed, critical consumers of information; to succeed in future research projects; and to take additional methods courses with confidence if they choose.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 30101 WORLDS OF WEALTH AND POWER 3 Credit Hours
Students investigate a wide variety of real-world market activity, including the economics of war, the underground economies of the rich and poor and the role of illicit trade in the making of the United States. What is the everyday experience of economic life like in these and other conditions? What can that tell us about how markets work on the local, national and global levels?
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 30301 HUMAN SECURITY 3 Credit Hours
For a century or more, leaders around the globe have defined “national security” narrowly, focusing nearly entirely on perceived threats of physical violence against the systems they led. A less state-centric and more person-centric conceptualization of security recognizes that the threats to human security include not only violence against a state or economic system. Food insecurity, for instance, whether caused by famine, poverty, maldistribution of resources or structural disparities in access (for instance, so called “food deserts”) undermines the security not only of individuals, but communities and, thereby, leadership. Climate change has caused land erosion and, thereby, resource evolution and depletion in various parts of the globe, leaving whole communities (and thereby states) economically and physically vulnerable. This course explores multiple dimensions of human (in)security, examines related policies and stretches analytic muscles in considering potential solutions to causes of insecurity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 30501 ORDER AND RESISTANCE 3 Credit Hours
When the hierarchies of economic systems or state institutions are unresponsive to the needs of society, movements develop to resist the prevailing ruling order. Sometimes social movements seek to empower and include new members of society. Other times they mobilize on constructed grievances that seek to maintain untenable social exclusions. Whether demanding more equality or something else, these ordinary people in social movements enter a conversation with the people who govern them and have the full weight of the state apparatus behind them. This course reflects on this process of social struggle in order to understand the political, economic and social costs of supporting the continued exclusion of certain groups. It aims to understand political change and violence as a struggle played out between state authorities and social movements. After examining case studies of such state-society struggles from around the world, students are guided to consider what role they can each play to constructively contribute to the global society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 30570 PALESTINE AND ISRAEL (DIVG) 3 Credit Hours
(Cross-listed with POL 30570) Course introduces students to academic approaches and theories that attempt to understand the situation in historic Palestine. The course is divided into four sections: (1) theories of settler colonialism and basic differences between Judaism, Zionism and Israeli society, as well as diversity within Palestinian society; (2) comparative studies of the establishment of the modern state of Israel, which Palestinians view in their collective experience as “the Catastrophe” or al-Nakba; (3) the occupation of East Jerusalem, the West Bank and Gaza, and how that system has changed over time; (4) pathways forward for Palestinians and Israelis.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

INTS 40089 INTERNATIONAL EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) Faculty-led study abroad programs.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

INTS 40092 INTERNSHIP (ELR) 1-6 Credit Hours
(Repeatable for credit) In consultation with a faculty member, the student arranges a substantive internship in a relevant area. The student also typically provides a journal of the experience, as well as a written analysis comparing the practice of the internship to an example of relevant scholarship in the area.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

INTS 40095 SPECIAL TOPICS IN INTERNATIONAL STUDIES 3 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in international studies not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INTS 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual investigation with a faculty member. Student typically develops a topic and reading list in consultation with the faculty member, discusses the material with the faculty member throughout the semester and produces a paper at the end of the course.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

INTS 40560 HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG) 3 Credit Hours
(Cross-listed with POL 40560) Examines the relationship between human rights and problems of the Third World in the civic, political, social and cultural arenas. Particular attention is placed on the struggle of women.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

INTS 40799 CAPSTONE IN INTERNATIONAL STUDIES (ELR) (WIC) 3 Credit Hours
In this course, students integrate and build on what they have learned throughout the major. The standard assignment is a research paper that (1) connects the electives the student has taken with the core courses in the major and (2) describes a future trajectory of learning and working (answering such questions as: What are you planning to do after graduation? What is the next step in your career? Where and how are you going to make a difference? How do you build on what you have done here in order to get there?). In consultation with the instructor, students may develop a different assignment, such as a paper on a different topic, a graduate school application essay and writing sample, a career application portfolio or part of an honors thesis.
Prerequisite: None.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

Jewish Studies (JWST)

JWST 11001 INTRODUCTION TO JEWISH STUDIES 3 Credit Hours
Introductory exploration and examination of the diversity of Jewish life, culture, religion and society from antiquity to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 20011 INTRODUCTION TO THE HEBREW BIBLE OR OLD TESTAMENT 3 Credit Hours
Introduces students to the modern study of the Hebrew Bible (Old Testament) and the history and religion of ancient Israel. Designed to help students to understand the development of the Hebrew Bible in its ancient context. The course approaches the Hebrew Bible from historical, comparative, literary, anthropological and archeological perspectives in an effort to illuminate the world of its authors. No prior knowledge of the Bible, Judaism or Christianity is required.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 30092 INTERNSHIP IN JEWISH STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) Internship in Jewish studies.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

JWST 30100 JEWISH WOMEN IN THE MODERN WORLD 3 Credit Hours
Course explores the lives and experiences of Jewish women from diverse communities and traditions, in relation to a wide array of divergent cultural contexts within the modern world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 30200 JEWS, BASEBALL AND AMERICAN SPORTS 3 Credit Hours
Chronicles the experience of Jewish players and performers in American sports. Course explores the issues of religious and ethnic prejudice that Jewish athletes endured, challenged and overcame.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 30300 CHILDREN OF THE HOLOCAUST: PERPETRATORS AND VICTIMS 3 Credit Hours
Examination of the children directly affected by the Holocaust (whether as victims, perpetrators, heroes, rescuers or survivors) and the impact these children had on the Holocaust and on history.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 30301 HOLLYWOOD AND THE HOLOCAUST 3 Credit Hours
This course will examine the history of how Hollywood, starting in the 1930s, dealt with the rise of Nazism and its impact on the Jews of Germany and of Europe. In addition, we will be dealing with the large numbers of Holocaust-related films that reached the movie houses starting in the late 1940s to the present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

JWST 40089 STUDY ABROAD (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) A Kent State study abroad experience led by Jewish Studies faculty that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

JWST 40090 STUDY AWAY (ELR) 1-4 Credit Hours
(Repeatable for credit) A Kent State out-of-classroom experience led by Jewish Studies faculty that integrates traditional classroom learning with experiential activities and site visits within the United States.
Prerequisite: None.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

JWST 40095 SPECIAL TOPICS IN JEWISH STUDIES 3 Credit Hours
(Repeatable for credit) Topics vary per course offering as published in the Schedule of Classes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

JWST 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Student-initiated experience in an area of interest not covered by a regular course offering and with the guidance of a Kent State faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

LGBTQ Studies (LGBT)

LGBT 20020 INTRODUCTION TO LESBIAN, GAY, BISEXUAL, TRANSGENDER AND QUEER STUDIES 3 Credit Hours
Introduction to the field of LGBTQ Studies as well as an introduction to critical issues in LGBTQ lives.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LGBT 30095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours
(Repeatable for credit) Study of special topics related to LGBTQ studies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LGBT 30120 LGBTQ RIGHTS AND CONTEMPORARY ISSUES 3 Credit Hours
This course will explore the current political, legal, and social climate in the United States for LGBTQ individuals. The main objective of this course will be to provide students with the skills and tools to engage intelligently in discourse about LGBTQ issues, rights, history, activism, and lives.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

LGBT 30135 LGBTQ REPRESENTATIONS IN POPULAR CULTURE 3 Credit Hours
This course will explore the representations or portrayals of LGBTQ people in popular culture. Popular culture includes pulp fiction, television, news media, social media, films, and other media.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

LGBT 30196 INDIVIDUAL INVESTIGATION IN LGBTQ STUDIES 1-3 Credit Hours
(Repeatable for credit) Individual investigation in areas of interest not covered in courses.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

LGBT 31138 LGBTQ RESEARCH METHODS (ELR) 3 Credit Hours
Explores different qualitative and quantitative methodologies through applied research on LGBTQ-related topics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

LGBT 40095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours
(Repeatable for credit) This course will provide new and emerging topics for students to study.
Prerequisite: LGBT 20020 or LGBT 31138.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LGBT 40192 PRACTICUM IN LGBTQ STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) Guided study of various aspects of the LGBTQ experience through involvement in the community, government agencies, non-profits, educational institutions, and other areas.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 8-18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

LGBT 40201 TRANSGENDER STUDIES 3 Credit Hours
Explores transgender studies, which addresses theories, practices, laws and other cultural expressions of sexed embodiments, gender identity and gender expression.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LGBT 40202 QUEER THEORY 3 Credit Hours
Explores theories related to sexual orientation, gender expression and gender identity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Liberal Studies (LSTU)

LSTU 60092 INTERNSHIP 1-6 Credit Hours
(Repeatable for credit) Students participate in internships under the direction of a faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LSTU 61091 LIBERAL STUDIES RESEARCH PAPER 1-3 Credit Hours
(Repeatable for credit) Students learn how to write a graduate-level research paper.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

LSTU 61098 LIBERAL STUDIES ESSAY 3 Credit Hours
(Repeatable for credit) The preparation of a lengthy, research-based essay related to the student's program of study for the Master of Liberal Studies degree.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Multidisciplinary Social Sciences and Humanities (MSSH)

MSSH 20071 INTRODUCTION TO GENDER AND SEXUALITY STUDIES 3 Credit Hours
Provides an introduction to the interdisciplinary study of gender and sexuality, with particular focus on the tenants of the field (e.g., intersectionality, anti-oppression, social justice).
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MSSH 30171 THEORIES OF GENDER AND SEXUALITY 3 Credit Hours
Provides students the opportunity to explore in finer detail the theories and approaches used in the study of gender and sexuality (including feminisms, queer theory, critical theories, intersectionality, anti-oppression, social justice), and to address the influence of such theoretical approaches in further research on the subjects of gender and sexuality and by informing social change and deliberations by individuals and movements concerning gender and sexuality.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MSSH 40089 STUDY ABROAD (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) A Kent State faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

MSSH 40090 STUDY AWAY (ELR) 1-4 Credit Hours
(Repeatable for credit) Faculty-led and other study away opportunities in the School of Multidisciplinary Social Sciences and Humanities.
Prerequisite: None.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MSSH 40092 INTERNSHIP (ELR) 1-6 Credit Hours
(Repeatable for credit) In consultation with a faculty member, the student arranges a substantive internship in a relevant area. The student also typically provides a journal of the experience, as well as a written analysis comparing the practice of the internship to an example of relevant scholarship in the area.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MSSH 40095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Topics vary depending on instructor and current interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

Paralegal Studies (PLST)

PLST 18000 INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS 3 Credit Hours
An overview of the legal system and the role of a paralegal professional. Includes legal terminology, types of laws, research, litigation, interviewing and office management.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 28001 LEGAL RESEARCH AND WRITING 3 Credit Hours
In-depth analysis of the legal research process, development of legal writing skills, opportunities to utilize research and writing skills are integrated into the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 28003 FAMILY LAW AND PROCEDURE 3 Credit Hours
Designed to acquaint the student with family law substance and practice. Covers definitions, terminology, topical areas and the philosophy underlying family law practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 28004 CIVIL PROCEDURE 3 Credit Hours
Provides an introduction to the rules of civil procedure, statutes of limitation and discovery. Included in this course is a discussion of the role of the paralegal in preparation for litigation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 28007 ESTATE AND PROBATE ADMINISTRATION 3 Credit Hours
A study of legal principles applicable to wills, organization and jurisdiction of probate court, estate administration in probate and tax considerations in estate administration.
Prerequisite: PLST 18000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 30000 ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT 3 Credit Hours
The Federal and State environmental regulations including the National Environmental Policy Act, the Clean Air Act, the Clean Water Act, Solid and Hazardous Waste regulations (RCRA) and the Superfund Legislation require the utilization of trained environmental professionals to conduct Environmental Site Assessments (ESAs). The focus of this course is to introduce students to the methods and approaches for conducting environmental research and study of industrial sites with respect to environmental policies and regulations. The enforcement of regulations utilize environmental professionals who serve in governmental agencies, work in private environmental companies that provide assessments and consultations for industries, and who are employed by industries that seek qualified employees to conduct assessments, and provide professional guidance for industrial regulatory compliance.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 35001 ENVIRONMENTAL LAW FOR PARALEGALS 3 Credit Hours
Acquaints the student with the various federal and state statutes, administrative rules and case law that govern environmental regulation. International environmental law is also studied.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 35003 HEALTH LAW 3 Credit Hours
Makes the student familiar with legal topics in the field of health care including federal and state statutes governing the health care industry in the United States. Specific topics include insurance, privacy, malpractice, fraud, Medicare, Medicaid, health records, labor law-related issues and clinical research.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 35005 LABOR AND EMPLOYMENT LAW FOR PARALEGALS 3 Credit Hours
Provides a foundation in the areas of labor law, employment law, and employment discrimination law. Requires in-depth study of constitutional, statutory, administrative, and case law at both the federal and state level.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 35007 ENERGY AND NATURAL RESOURCES LAW 3 Credit Hours
Acquaints the student with the various sources of law that govern energy production and the harvesting of natural resources in the United States. Statutory, administrative, and case law at the federal and state levels are explored.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 36001 LAW OFFICE TECHNOLOGY 3 Credit Hours
This course introduces students to computer hardware and software that apply to the legal environment. Students learn Microsoft Office components including Teams, Word, Excel, OneNote, PowerPoint and Outlook, and the Windows operating system as they are used in the day-to-day life of paralegals. Students also explore legal specific software including TrialDirector, Clio, NetDocuments, Workshare, iManage and Concordance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 36792 INTERNSHIP IN PARALEGAL (ELR) 3-12 Credit Hours
(Repeatable for credit) Work experience under the direction of supervising faculty members in the following entities: private law firms, legal service/legal aid offices, law departments or corporations and government agencies.
Prerequisite: PLST 18000 and PLST 28001 and PLST 28004.
Schedule Type: Practical Experience
Contact Hours: 21-84 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PLST 38003 ADMINISTRATIVE LAW AND PROCESS 3 Credit Hours
The substantive and procedural aspects of administrative law are covered in this course. Specific topics include the regulation of public utilities, transportation agencies, employment, food and drugs and the environment.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 38005 TORT LAW 3 Credit Hours
Focus is on tort and personal injury law. Specific topics include intentional torts, negligent torts, strict liability, vicarious liability, product liability and business torts. Defenses to tort and product liability are also discussed.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 38006 APPLIED LEGAL RESEARCH AND LITIGATION (WIC) 3 Credit Hours
Provides for intense case analysis and preparation of argumentative memorandum, including writing of factual memoranda, file summaries and advocacy letters.
Prerequisite: PLST 28001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PLST 40095 SPECIAL TOPICS IN PARALEGAL STUDIES 1-3 Credit Hours
(Repeatable for credit) Topics vary depending on instructor and current legal issues in the area of paralegal studies and the law.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PLST 42701 EVIDENCE AND E-DISCOVERY 3 Credit Hours
Addresses the various issues concerning the use of evidence in the pre-trial, trial, and post-trial phases of litigation. The course will address the traditional rules and issues associated with litigation practice as well as the new issues concerning electronic discovery of evidence and the use of that evidence.
Prerequisite: PLST 28001 and PLST 28004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 42705 BANKRUPTCY LAW I: BASIC FUNDAMENTALS 3 Credit Hours
Provides an outlay of the fundamentals of bankruptcy law including the basic rules of the Chapter 7, Chapter 11, and Chapter 13 forms of bankruptcy. This course will also cover other topics such as the bankruptcy petition, the role of the bankruptcy trustee, and discharge from bankruptcy.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 42706 BANKRUPTCY LAW II: CREDITOR-DEBTOR RELATIONS 3 Credit Hours
Addresses issues not addressed in PLST 42705 including Chapter 9, Chapter 12, and Chapter 15 bankruptcy as well as the problems associated with gaining and collecting on a judgment. International bankruptcy issues will also be addressed.
Prerequisite: PLST 42705.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 42708 REAL ESTATE LAW 3 Credit Hours
Provides a general outlay of real estate law in the United States. Students will learn the substantive and procedural aspects of gaining and protecting property rights. Real estate contracts, financing, zoning, and landlord-tenant issues will also be covered.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48002 CONTRACT LAW 3 Credit Hours
Intended to provide the student with an in-depth analysis of basic contract law as such related to contact information, performance and remedies. Also intended to familiarize the student with the sources of law that define contracts with an emphasis on reading and understanding case law. The student also develops a vocabulary of legal terms so that the student may assist the legal practitioner in the representation of clients in business transactions and in disputes.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48300 LAW OF CORPORATIONS AND OTHER ASSOCIATIONS 3 Credit Hours
Covers the formation, operation and dissolution of various kinds of business organizations. Subjects covered include sole proprietorships, corporations, partnerships, the law of agency and employment agreements.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48401 PATENT LAW 3 Credit Hours
Provides the student with an in-depth analysis of the law pertaining to patents, stressing the ability of the owner to protect their rights through filing, registration and use. International issues concerning registration, use, and trade agreements are also covered.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48403 PATENT PROSECUTION 3 Credit Hours
Students learn to craft patent claims in various types of patent applications that would be submitted to the U.S. Patent and Trademark Office. Students also learn the mechanics of various types of patent applications including traditional applications, provisional applications, divisional applications and continuing applications. Students also gain an understanding of the various post-grant proceedings.
Prerequisite: PLST 48401; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48404 COPYRIGHT LAW I 3 Credit Hours
(Slashed with PLST 58404) Intended to provide the student with an in-depth analysis of the foundations of the law pertaining to copyrights. Stresses the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law, trademark law and the law of trade secrets.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48407 TRADEMARK LAW 3 Credit Hours
(Slashed with PLST 58407) Intended to provide the student with an in-depth analysis of the law pertaining to trademarks and trade secrets. Stresses the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law and copyright law.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 48408 TRADEMARK PROSECUTION 3 Credit Hours
Covers the substantive and procedural aspects of trademark prosecution at the state, federal, and international levels. Special attention will be paid to the topics of drafting the trademark application and conducting searches of existing trademarks in the United States and abroad.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 58404 COPYRIGHT LAW I 3 Credit Hours
(Slashed with PLST 48404) Intended to provide the student with an in-depth analysis of the foundations of the law pertaining to copyrights. Stress the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law, trademark law and the law of trade secrets.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PLST 58407 TRADEMARK LAW 3 Credit Hours
(Slashed with PLST 48407) Intended to provide the student with an in-depth analysis of the law pertaining to trademarks and trade secrets. The course will stress the ability of the owner to protect such rights through use and registration. The course will also discuss the links to patent law and copyright law.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Religion (REL)

REL 11020 INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM) 3 Credit Hours
A study of the religious impulse as it manifests itself in the plurality of beliefs, practices and institutions of the world religions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement, Kent Core Humanities, Transfer Module Humanities

REL 12020 INTRODUCTION TO NEW TESTAMENT LITERATURE 3 Credit Hours
Course introduces students to the literature of the New Testament and to the early Christian communities in which the works were formulated. Of focused interest is the critical study of the content of the texts, with close consideration of the historical and literary influences on the composition and reception of the gospel traditions as regards their presentations of the life, ministry and person of Jesus, and the letters of Paul. The post-Pauline pastoral epistles, and various later works included in the collection are briefly examined.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 21021 MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM) 3 Credit Hours
An in-depth exploration of Judaism, Christianity and Islam, considering the circumstances of each tradition's beginnings, the influence of the identified founder, and the cultural diversities evident in the history of each of the distinctive religious traditions, as well as the inter-connectedness and influence of each of three religions upon the others. Course concludes with a consideration of the contemporary situations faced by the traditions, including their engagements with modernity and one another as global historic traditions in a changing world.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement, Kent Core Humanities, Transfer Module Humanities

REL 31065 COMPARATIVE RELIGIOUS EXPERIENCE 3 Credit Hours
Examination of the phenomena of religious experience, its structure, ramifications and expression in myth and ritual.
Prerequisite: REL 11020 or REL 21021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 31075 RELIGION AND WOMEN 3 Credit Hours
Course serves to provide students with an opportunity to examine the status of women as concerns authoritative texts, politics, doctrines and institutions through the critical study of the history, texts and artifacts of selected traditional religions with the use of multidisciplinary and cross-cultural approaches concerning the experience, contributions, topics and status of women – both historically and in contemporary contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 40095 SPECIAL TOPICS IN RELIGION STUDIES 3 Credit Hours
(Repeatable for credit) Special topics seminar in religion studies.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

REL 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual investigation in religion studies.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

REL 41010 RELIGION, VIOLENCE AND TERROR 3 Credit Hours
(Slashed with REL 51010) Course explores a variety of religions focusing on the themes of violence and terror. The examination employs different academic approaches to selected historic examples and their underlying causes.
Prerequisite: Junior or Senior Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 41091 SEMINAR IN ADVANCED COMPARATIVE RELIGION 3 Credit Hours
(Repeatable for credit) (Slashed with REL 51091) Variable content course that is an advanced examination of pivotal issues, schools and theorists in the study of religion and the future of comparative studies.
Prerequisite: Junior or senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

REL 42091 RELIGION IN THE MODERN WORLD 3 Credit Hours
(Slashed with REL 52091) (Repeatable for credit) An inquiry into the influences of modernity in the conception, valuation and-or interpretation of religious convictions, beliefs, symbolizations, institutions and artifacts (including texts). The study of Religion in the Modern World is a complex undertaking offering multiple foci with multiple attending disciplines and approaches to the inquiry. Given the plurality of foci and approaches, instructors may choose to address any number of the common topics associated with the evolution of religions in the modern world. Examples include: religion and science -- from cosmology (Gallio, Newton, to black holes) to the origins and evolution of the human species (Darwin), or religion and society, or religion and the modern state, or religion and industrial society, or religion in a modern world of pluralism and multicultural societies as well as the religious reactions against science, modern multicultural societies, the modern state and the changing legal status of women, minorities, and children, and the rise of fundamentalism.
Prerequisite: Junior or Senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

REL 51010 RELIGION, VIOLENCE AND TERROR 3 Credit Hours
(Slashed with REL 41010) Course explores a variety of religions focusing on the themes of violence and terror. The examination employs different academic approaches to selected historic examples and their underlying causes.
Prerequisite: Graduate studies.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

REL 51091 SEMINAR IN ADVANCED COMPARATIVE RELIGION 3 Credit Hours
(Repeatable for credit) (Slashed with REL 41091) Variable content course that is an advanced examination of pivotal issues, schools and theorists in the study of religion and the future of comparative studies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

REL 52091 RELIGION IN THE MODERN WORLD 3 Credit Hours
(Slashed with REL 42091) (Repeatable for credit) An inquiry into the influences of modernity in the conception, valuation and-or interpretation of religious convictions, beliefs, symbolizations, institutions and artifacts (including texts). The study of Religion in the Modern World is a complex undertaking offering multiple foci with multiple attending disciplines and approaches to the inquiry. Given the plurality of foci and approaches, instructors may choose to address any number of the common topics associated with the evolution of religions in the modern world. Examples include: religion and science -- from cosmology (Gallio, Newton, to black holes) to the origins and evolution of the human species (Darwin), or religion and society, or religion and the modern state, or religion and industrial society, or religion in a modern world of pluralism and multicultural societies as well as the religious reactions against science, modern multicultural societies, the modern state and the changing legal status of women, minorities, and children, and the rise of fundamentalism.
Prerequisite: Graduate studies.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Women's Studies (WMST)

WMST 20101 INTRODUCTION TO WOMEN'S STUDIES: TRADITIONS, TRAJECTORIES, TROUBLES 3 Credit Hours
The course introduces students to Women's Studies - what it studies, how it came into being, what happened next. In focus are its traditions, its consequential contexts of struggle and protest, its pioneers, the multiple fields from which they came to this fresh-born academic hub. The course examines worldwide spread of WMST programs, their variant, evolving interests and work, the hounding, keenly felt disruptions and conflicts. We sample key scholarship with staying power; we peruse pieces across an interdisciplinary range; we visit early ideas now fallen out of favor, relegated to archives and/or bins. We also, importantly, consider how rifts and various troubles led to crucial metamorphoses as well as new fields.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30001 ARENAS FOR FEMINIST THOUGHT: TOUCHY SUBJECTS, UNSETTLED MATTERS AND FEMINIST RESPONSE-ABILITY 3 Credit Hours
A multi-layered inquiry into the substantial discursive project initially undertaken by feminists to break the hold of dominant theory and begin to articulate theory from new standpoints expressed in new language. This course opens an arena within which to study real engagements of thinkers, theorists, their thoughts, theories, arguments, critical appraisals, etc. as they have emerged, developed and contended. The course coheres in a sense of feminist thinkers as profoundly responsive to their contexts, situated in times, places and atmospheres powerfully infused with settled and unsettled meanings.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30002 FEMINIST RESEARCH METHODS 3 Credit Hours
Explores different qualitative and quantitative methodologies through applied research on WMST-related topics as well as on topics informed by feminist standpoints and thought/theory. Provides sturdy foundation for undergraduate students whose aims include undergraduate research, graduate school, and/or actual fieldwork.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30091 KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD) 3 Credit Hours
(Repeatable for credit) A critical investigation of the position and category of women from a cross-cultural, historical and interdisciplinary perspective, with special emphasis on major themes and issues in women's studies. Issues including race, ethnicity and sexuality may also be addressed.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

WMST 30095 SPECIAL TOPICS IN WOMEN'S STUDIES 1-4 Credit Hours
(Repeatable for credit) Study of selected topics in women's studies organized around historical and theoretical issues and movements. This includes contemporary feminist theory, suffragist movement and third wave feminism.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

WMST 30100 HISTORY OF WOMEN IN THE UNITED STATES 3 Credit Hours
(Cross-listed with HIST 31075) An exploration of the political, economic, social, intellectual and cultural forces that have shaped women's lives, women's thought, perceptions of womanhood and feminism, from 1607 to the present in what is now the United States.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30196 WOMEN STUDIES INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) The design and completion of a scholarly research project related to women's studies, and the presentation of findings at the end of the term. Arrangements must be made in the semester prior to registration.
Prerequisite: Special approval by instructor.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

WMST 30201 WITCHES: THE MONSTROUS FEMININE 3 Credit Hours
This course counterbalances student inquiry with lectures and materials at once grounded in women's and gender/sexuality studies and reliant on a range of interdisciplinary sources. The course centers two key touchstones: witch and monstrous feminine. Course trajectories traverse history, culture, religion, politics and academic and popular renderings to locate keys: hunts, trials, dynamics of allegation, guilt and innocence. The course aims to 'correct' traditions of objectification and typecasting by interrogating real subjectivities and the dimensionality of feminine, monstrous and witch.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30202 FEMINIST HUMOR: DISARMING LAUGHTER, DISRUPTIVE DISCOURSE 3 Credit Hours
This course utilizes four key terms to set its directions of inquiry: humor, laughter, discourse and feminist. The most fundamental pursuits are inductive in nature, grounding studies in actual discursive practice, the realities of women's politically-charged and personally-resonant humor, laughter and feminisms as they converge in contexts both private and public, mediated and live/face-to-face. Scholarship on feminist humor provides our final framing.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30301 REPRESENTATIONS OF WOMEN AND FEMINISM IN POPULAR CULTURE 3 Credit Hours
The basic challenge of this course is that it requires the study of two things simultaneously: 'women' and 'women as represented' in popular culture. From the classic object of woman sexed and gendered, feminist study has evolved to also consider woman the subject, the autonomous person with agency within her environment. The course covers much ground: dominant narratives; the often-overlapping contexts of media, politics, morality and religion; the signs inherent in language and imagery; and the power asymmetry and embattled definitions of “woman.” Throughout the course, we employ varied approaches that resist any one right answer, easy dogmatic conclusion or evaluation of the narratives.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 30302 GLOBAL FEMINISMS: A WORLD AND CENTURY OF WOMEN'S ACTIVISM 3 Credit Hours
This course explores real and diverse circumstances where feminisms have emerged. Over the semester, we examine feminist movements and their respective contexts; feminists' distinct directions of thought and action; individuals, groups and organizations that have participated in defining feminism; and finally, the connectivity that makes transnational feminist work possible. The course is grounded in sites of 'agonizing and organizing,' as well as in those feminist narratives that search for cohesion even where there is tension. Finally, throughout the course, we embrace and explore complexities of unresolved issues: none more basic than the still controversial claim that women's rights are human rights.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 32323 RAPE CULTURE: RETHINKING DANGER, POWER, SEX AND FEMINIST FRAMINGS 3 Credit Hours
Nothing is simple, incontrovertible or 'cool' in 'rape culture.' The subject, act and discourse surrounding rape is embedded in culture and confounded by culture: by opinions, standpoints, simplistic arguments and personal and political interests. Feminist framings of 'rape culture' invite different inquiry: into mythology, ideology, theory and alternative interpretations of bodies in a given context. Famed feminist Andrea Dworkin interrogates rape culture's center: powers practically guaranteed, moreover "exercised… [and] protected… by religion … by universities … [even] by [poets and artists], the unacknowledged legislators of the world." This course utilizes multiple approaches to study and interrogate 'rape culture,' each of which illuminates this inherently dark subject in new light.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

WMST 40992 PRACTICUM IN WOMEN'S STUDIES (ELR) 3 Credit Hours
(Repeatable for credit) An assignment at a private, public or nonprofit organization that centers on women's issues such as education health and policy making. Arrangements must be made in the semester prior to registration.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

WMST 41199 CAPSTONE IN WOMEN'S STUDIES (ELR) 3 Credit Hours
The capstone project is a guided undertaking that serves as culmination of students' experiences. The emphasis is 'putting it all together,' integrating the Women's Studies minor into 'the bigger picture': major(s), other concentrations, research, envisioned graduate study and/or vocation. WMST Capstone can be taken junior or senior year, contrived/structured by students in consultation with faculty advisor(s), ideally advisors from major and minor. Net outcome may be paper--senior thesis for students who desire such--presentation, curated portfolio of prior academic work.
Prerequisite: Junior Standing.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

WMST 44321 PIVOTAL PRAXIS: EXPERIMENTS IN ACTIONABLE FEMINISM 3 Credit Hours
This course engages students at the pumping heart of the whole feminist story: its actual work. For feminists on the ground, pivotal praxis is feminism: getting the vote, demanding equality, wrangling through contentious issues, women's marches and campaigns. In a word: practice. Experiments in practical, actional feminism. Our study probes ideas that hit streets as well as ideas born of "done things." Under scrutiny are scenes: socio-political, cultural spaces wherein women enact change, determine outcomes recognized as feminist. These include but are not limited to the realpolitik of suffrage vs. anti-suffrage, consciousness-raising, the famed national women's convention in Houston, internet activism, transversal coalition-building across boundaries/borders. The course provides opportunity for students' own experiments and exercises in feminist praxis.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Ancient, Medieval and Renaissance Studies - Minor

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
www.kent.edu/multidisciplinary-studies

About This Program

The Ancient, Medieval and Renaissance Studies minor offers a culturally comparative program in which the distance of time lends profound diversity from present experience. The minor allows students to explore the origins and development of contemporary culture as defined across continents, religions and civilizations, through a range of disciplines (anthropology, architecture, art, fashion, history, language, literature, music, philosophy, religion and theatre). The program's flexibility encourages students to pursue specific interests, for example, early religion, high medieval culture, classical influences upon the Renaissance or Byzantine culture.

Contact Information

- **Ann Martinez** | amart108@kent.edu | 330-244-3577
- **Lindsay Starkey** | lstarke3@kent.edu | 330-499-9600
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Minor Lower-Division Electives (must be from two disciplines), choose from the following:		6
ANTH 18210	INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS)	
ANTH 18420	INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	
ENG 21054	INTRODUCTION TO SHAKESPEARE (KHUM)	
ENG 22071	STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM)	
ENG 25001	LITERATURE IN ENGLISH I	
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM)	
REL 12020	INTRODUCTION TO NEW TESTAMENT LITERATURE	
REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM)	
Minor Upper-Division Electives (must be from at least two disciplines), choose from the following:		12
ANTH 48010	NORTH AMERICA'S ICE AGE HUNTERS	
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
ANTH 48450	ANCIENT CIVILIZATIONS	
ARCH 45210	RENAISSANCE ARCHITECTURE	
ARCH 45211	BAROQUE ARCHITECTURE	
ARTH 42036	MEDIEVAL ART	
ARTH 42041	ITALIAN RENAISSANCE ART	
ARTH 42043	THE HIGH RENAISSANCE AND MANNERISM IN ITALY	
ARTH 42044	VENETIAN RENAISSANCE ART	
ARTH 42045	ITALIAN ART FROM GIOTTO TO BERNINI	
ARTH 42046	BAROQUE ART OF THE 17TH CENTURY	
ARTH 42095	SPECIAL TOPICS: ART HISTORY [1]	
CLAS 41005	HISTORY OF ANCIENT GREECE	
or HIST 41003	HISTORY OF ANCIENT GREECE	
CLAS 41006	ROMAN HISTORY	
or HIST 41006	ROMAN HISTORY	
CLAS 41097	COLLOQUIUM IN CLASSICS	
CLAS 41301	CLASSICAL MYTHOLOGY	
CLAS 41304	LITERATURE OF THE ROMAN WORLD (ELR) (WIC)	
CLAS 41401	GREEK ARCHAEOLOGY AND ART	
CLAS 41402	ROMAN ARCHAEOLOGY AND ART	
CLAS 41404	ANCIENT CHRISTIANITIES	
CLAS 41503	LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC)	
ENG 31002	HISTORY OF THE ENGLISH LANGUAGE	
ENG 34001	MEDIEVAL LITERATURE	
ENG 34002	BRITISH LITERATURE, 1500-1660	
ENG 34055	SHAKESPEARE	
ENG 34065	CHAUCER	
ENG 34090	SHAKESPEARE IN PERFORMANCE (ELR)	
ENG 34095	SPECIAL TOPICS:MAJOR AUTHOR STUDIES [1]	
ENG 35201	THE BIBLE AS LITERATURE	
ENG 37001	CLASSICAL RHETORIC	
ENG 39995	SPECIAL TOPICS CULTURAL STUDIES [1]	
GRE 34372	ADVANCED READINGS IN GREEK	
HIST 31031	REFORMATIONS IN EARLY MODERN CHRISTIANITY	
HIST 31032	THE GLOBAL CRISIS OF THE SEVENTEENTH CENTURY	
HIST 31033	WITCHES AND EUROPEAN HISTORY, 1500-1800	
HIST 31056	EUROPE IN THE RENAISSANCE	
HIST 31141	EARLY MODERN LATIN AMERICA (C. 1450-1820) (DIVG)	
HIST 31543	THE SCIENTIFIC REVOLUTION	
ITAL 35331	EARLY ITALIAN LITERATURE	
LAT 36172	ADVANCED READINGS IN LATIN	
LAT 41214	LATIN EPIGRAPHY	
LAT 41304	ROMAN HISTORIANS	
LAT 41305	ROMAN COMEDY AND SATIRE	
LAT 41306	LATIN EPIC	
LAT 41307	LYRIC AND ELEGIAC POETRY	
LAT 41308	ORATORY AND LETTERS	
MUS 32211	WESTERN MUSIC HISTORY I	
PHIL 31002	MEDIEVAL PHILOSOPHY	
PHIL 31011	ANCIENT PHILOSOPHY	
REL 31065	COMPARATIVE RELIGIOUS EXPERIENCE	

SPAN 38330	EARLY SPANISH LITERATURE (ELR) (WIC)	
Minimum Total Credit Hours:		**18**

[1] Requires permission of program coordinator.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Appropriate specialized offerings may be substituted above as available with approval of the minor coordinator(s).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the experiences of peoples living during the ancient, medieval and Renaissance periods from interdisciplinary perspectives.
2. Compare the experiences of people living in these historical periods.
3. Consider the similarities and differences between these past cultures and contemporary ones.
4. Read, analyze, articulate and write about the human experiences in these past cultures through the lens of different disciplines.

Cybercriminology - B.S.

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
www.kent.edu/multidisciplinary-studies

About This Program

Dive into the thrilling world of cybercriminology and become a mastermind in the fight against digital threats! In Kent State's bachelor's degree, you'll unlock the secrets of cybercrime investigation, digital forensics and cyber law enforcement. Harness the power of technology to outsmart hackers, track down cyber criminals and safeguard the digital realm. With hands-on training, expert faculty and real-world simulations, you'll emerge ready to defend against the ever-evolving landscape of cyber threats. Read more...

Contact Information

- **Shelley Marshall** | skmarsha@kent.edu | 440-964-4348
- **Hedi Nasheri** | hnasheri@kent.edu | 330-672-0317
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center

Examples of Possible Careers and Salaries*

Computer and information systems managers

- 10.4% much faster than the average
- 461,000 number of jobs
- $151,150 potential earnings

Computer network support specialists

- 6.4% faster than the average
- 195,100 number of jobs
- $65,450 potential earnings

Database administrators and architects

- 9.7% much faster than the average
- 132,500 number of jobs
- $98,860 potential earnings

Detectives and criminal investigators

- 1.1% slower than the average
- 113,500 number of jobs
- $86,940 potential earnings

Information security analysts

- 31.2% much faster than the average
- 131,000 number of jobs
- $103,590 potential earnings

Network and computer systems administrators

- 4.3% about as fast as the average
- 373,900 number of jobs
- $84,810 potential earnings

Additional Careers

- Computer forensic analysts
- Cybercrime investigators
- Digital forensic investigators
- District attorney's office investigators
- Forensic analysts
- Incident managers
- Law enforcement agency (local, state, federal)
- Malware analysts
- Penetration testers
- Security architects
- State department

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
CRIM 13000	CRIME AND TECHNOLOGY	3
CRIM 33200	CRIMINAL LAW	3
CRIM 34200	CRIMINAL PROCEDURES AND EVIDENCE	3
CRIM 36702	CRIMINOLOGY	3
CRIM 46800	INTELLIGENCE AND NATIONAL SECURITY	3
CRIM 46801	HOMELAND SECURITY	3
CRIM 46802	TERRORISM AND COUNTERTERRORISM	3
CRIM 46803	INFORMATION AND CYBER SECURITY	3
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	3
IT 13000	APPLIED SECURITY ESSENTIALS	3
IT 15000	FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY	3
IT 21002	NETWORK SETUP AND CONFIGURATION	3
IT 21006	DATABASE PROGRAMMING	3
IT 21100	LOCAL AREA NETWORK TROUBLESHOOTING	3
IT 21110	NETWORK ROUTING AND SWITCHING	3
IT 30000	PYTHON PROGRAMMING IN INFORMATION TECHNOLOGY	3
IT 36320	COMPUTER FORENSICS	3
IT 36321	NETWORK FORENSICS	3
IT 36322	SOCIAL MEDIA AND MOBILE DEVICE FORENSICS	3
or IT 46320	CLOUD FORENSICS	
IT 36330	NETWORK SECURITY FUNDAMENTALS	3
IT 36331	ADVANCED ROUTING AND SWITCHING	3
IT 36355	COMMAND LINE UTILITIES	3
IT 46331	NETWORK SECURITY AND FIREWALLS	3
SOC 32210	RESEARCHING SOCIETY (ELR) (WIC) [1]	3
TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC) [1]	3
Additional Requirements (courses do not count in major GPA)		
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning [2]		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6

General Elective (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	2
Minimum Total Credit Hours:	**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Students are strongly advised to take MATH 10041 or MATH 10051 to fulfill the Kent Core Mathematics and Critical Reasoning requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
CRIM 13000	CRIME AND TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	3
IT 13000	APPLIED SECURITY ESSENTIALS	3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
CRIM 33200	CRIMINAL LAW	3
IT 21002	NETWORK SETUP AND CONFIGURATION	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
CRIM 34200	CRIMINAL PROCEDURES AND EVIDENCE	3
CRIM 36702	CRIMINOLOGY	3
IT 15000	FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY	3
IT 21110	NETWORK ROUTING AND SWITCHING	3
IT 36320	COMPUTER FORENSICS	3
	Credit Hours	**15**
Semester Five		
CRIM 46800	INTELLIGENCE AND NATIONAL SECURITY	3
IT 21006	DATABASE PROGRAMMING	3
IT 21100	LOCAL AREA NETWORK TROUBLESHOOTING	3
IT 30000	PYTHON PROGRAMMING IN INFORMATION TECHNOLOGY	3
SOC 32210	RESEARCHING SOCIETY (ELR) (WIC)	3
	Credit Hours	**15**
Semester Six		
CRIM 46801	HOMELAND SECURITY	3
IT 36321	NETWORK FORENSICS	3
IT 36330	NETWORK SECURITY FUNDAMENTALS	3
IT 36331	ADVANCED ROUTING AND SWITCHING	3
IT 36355	COMMAND LINE UTILITIES	3
	Credit Hours	**15**
Semester Seven		
CRIM 46802	TERRORISM AND COUNTERTERRORISM	3
IT 36322 or IT 46320	SOCIAL MEDIA AND MOBILE DEVICE FORENSICS or CLOUD FORENSICS	3
IT 46331	NETWORK SECURITY AND FIREWALLS	3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Eight		
CRIM 46803	INFORMATION AND CYBER SECURITY	3
TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC)	3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		2
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3

Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the scope of cyber threats and crimes.
2. Apply criminological theories to the commission of computer-related crimes.
3. Apply a solid foundational grounding with digital technologies to digital investigations to combat cybercrime or threats.
4. Compare and contrast digital and traditional evidence as it relates to investigation, processing and use in prosecution.
5. Define and apply policies that include privacy, regulatory, legal and ethical considerations as they relate to responding to and/or investigating cyber threats.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Science degree in Cybercriminology incorporates the understanding of computer systems and networks with criminal behavior and processes in identifying, preventing and investigating cyber-related threats and crimes. Students are involved with project-based research and other experiential learning opportunities focused on technology and the legal, ethical and criminology aspects of modern crime, making them well prepared for work in a myriad of professional positions ranging from security/intelligence analysts and investigators to network and security administrators.

Gender and Sexuality Studies - B.A.

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
www.kent.edu/multidisciplinary-studies

About This Program

Our Gender and Sexuality Studies program offers a multidisciplinary approach to understanding the complexities of gender and sexuality in contemporary society. With passionate faculty, engaging coursework and a welcoming community, you will have the opportunity to explore your interests, develop critical thinking skills and make a positive impact in the world. Read more...

Contact Information

- **Andrew Barnes** | abarnes3@kent.edu | 330-672-8947
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

General and operations managers

- 5.8% faster than the average
- 2,486,400 number of jobs
- $103,650 potential earnings

Human resources specialists

- 7.0% faster than the average
- 666,500 number of jobs
- $63,490 potential earnings

Lawyers

- 4.0% about as fast as the average
- 813,900 number of jobs
- $126,930 potential earnings

Legal support workers, all other

- -1.2% decline
- 50,400 number of jobs
- $59,540 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Office and administrative support workers, all other

- 4.0% about as fast as the average
- 220,800 number of jobs
- $35,890 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
GSS 10100	INTRODUCTION TO GENDER AND SEXUALITY STUDIES	3
GSS 30500	METHODOLOGIES AND PRAXIS IN GENDER AND SEXUALITY STUDIES	3
GSS 40450	GENDER AND SEXUALITY ROUNDTABLE	3
GSS 40591	SEMINAR IN GENDER AND SEXUALITY STUDIES	3
Discourse, Identity and Human Dynamics Elective, choose from the following:		3
ENG 31012	GENDER AND LANGUAGE	
ENG 33013	AFRICANA WOMEN'S LITERATURE (DIVG)	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
HIST 31075	HISTORY OF WOMEN IN THE UNITED STATES	
LGBT 40201	TRANSGENDER STUDIES	
PACS 31002	GENDER, POWER AND CONFLICT	
POL 40470	WOMEN, POLITICS AND POLICY (DIVD)	
WMST 30202	FEMINIST HUMOR: DISARMING LAUGHTER, DISRUPTIVE DISCOURSE	
Thematic Elective, choose from the following:		3
AFS 33110	BLACK WOMEN, CULTURE AND SOCIETY: HISTORICAL PERSPECTIVES (DIVD)	
AFS 33120	THE BLACK MAN: HISTORICAL PERSPECTIVES	
AFS 33130	GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA	
HIST 31077	HISTORY OF SEXUALITY IN THE UNITED STATES	
LGBT 30120	LGBTQ RIGHTS AND CONTEMPORARY ISSUES	
WMST 30201	WITCHES: THE MONSTROUS FEMININE	
WMST 30302	GLOBAL FEMINISMS: A WORLD AND CENTURY OF WOMEN'S ACTIVISM	
WMST 32323	RAPE CULTURE: RETHINKING DANGER, POWER, SEX AND FEMINIST FRAMINGS	
Theory and Thought Elective, choose from the following:		3
AFS 43100	RACE, CLASS AND FEMINIST THOUGHT	
LGBT 40202	QUEER THEORY	
PHIL 31040	FEMINIST PHILOSOPHY (DIVD)	
WMST 30001	ARENAS FOR FEMINIST THOUGHT: TOUCHY SUBJECTS, UNSETTLED MATTERS AND FEMINIST RESPONSE-ABILITY	
Major Electives, choose from the following:		9
AFS 33120	THE BLACK MAN: HISTORICAL PERSPECTIVES	
AFS 33130	GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA	
AFS 43100	RACE, CLASS AND FEMINIST THOUGHT	
BSCI 10001	HUMAN BIOLOGY (KBS)	
COMM 35912	GENDER AND COMMUNICATION (DIVD)	
CRIM 36800	LGBTQ POPULATIONS IN THE JUSTICE SYSTEM (DIVD)	
CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)	
ENG 31012	GENDER AND LANGUAGE	
ENG 33013	AFRICANA WOMEN'S LITERATURE (DIVG)	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
HED 32544	HUMAN SEXUALITY	
HED 44025	WOMEN'S HEALTH ISSUES	
HED 44544	SEXUALITY EDUCATION PROGRAMS	
HED 46057	ADVANCED HUMAN SEXUALITY	
HIST 31033	WITCHES AND EUROPEAN HISTORY, 1500-1800	
HIST 31075	HISTORY OF WOMEN IN THE UNITED STATES	
HIST 31077	HISTORY OF SEXUALITY IN THE UNITED STATES	
JWST 30100	JEWISH WOMEN IN THE MODERN WORLD	
LGBT 30120	LGBTQ RIGHTS AND CONTEMPORARY ISSUES	
LGBT 40201	TRANSGENDER STUDIES	
LGBT 40202	QUEER THEORY	
PACS 31002	GENDER, POWER AND CONFLICT	
PHIL 31040	FEMINIST PHILOSOPHY (DIVD)	
POL 40470	WOMEN, POLITICS AND POLICY (DIVD)	
SOC 32565	SOCIOLOGY OF SEXUALITIES (DIVD)	
SOC 42315	SOCIOLOGY OF GENDER (DIVD)	
THEA 41115	LGBTQ THEATRE (DIVD)	
WMST 30001	ARENAS FOR FEMINIST THOUGHT: TOUCHY SUBJECTS, UNSETTLED MATTERS AND FEMINIST RESPONSE-ABILITY	
WMST 30091	KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD)	

WMST 30201	WITCHES: THE MONSTROUS FEMININE	
WMST 30202	FEMINIST HUMOR: DISARMING LAUGHTER, DISRUPTIVE DISCOURSE	
WMST 30302	GLOBAL FEMINISMS: A WORLD AND CENTURY OF WOMEN'S ACTIVISM	
WMST 32323	RAPE CULTURE: RETHINKING DANGER, POWER, SEX AND FEMINIST FRAMINGS	
WMST 44321	PIVOTAL PRAXIS: EXPERIMENTS IN ACTIONABLE FEMINISM	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		43
Minimum Total Credit Hours:		**120**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
GSS 10100	INTRODUCTION TO GENDER AND SEXUALITY STUDIES	3
UC 10001	FLASHES 101	1
Foreign Language Requirement		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
Theory and Thought Elective		3
Foreign Language Requirement		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
Thematic Elective		3
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Four		
GSS 30500	METHODOLOGIES AND PRAXIS IN GENDER AND SEXUALITY STUDIES	3
Discourse, Identity and Human Dynamics Elective		3
Foreign Language and/or General Elective		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Five		
GSS 40450	GENDER AND SEXUALITY ROUNDTABLE	3
Major Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Six		
Major Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Seven		
Major Elective		3
General Electives		12
	Credit Hours	**15**
Semester Eight		
GSS 40591	SEMINAR IN GENDER AND SEXUALITY STUDIES	3

General Electives	12
Credit Hours	**15**
Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify key terms, theories and conceptual frameworks in the analysis of gender and sexuality.
2. Examine the multiple and complex ways gender and sexuality are constructed through, and across, different identities, discourses and systems of power.
3. Think critically about contemporary debates and issues related to gender and sexuality and devise policy interventions to address them.
4. Apply multiple thematic areas in analyzing questions, dynamics and issues surrounding gender and sexuality and contribute with agency in social discourse.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Gender and Sexuality Studies takes a multidisciplinary and intersectional approach to examining ideas and processes that shape people's understanding about gender, sexualities and bodies throughout space and time. Scholarly investigation and production in this discipline emerged from sociological inquiry on human sexuality as well as feminist, LGBTQ and anti-racist histories and activism to combat social inequality. This program skillfully provides both the theoretical and praxis of the field while integrating these different and contributing perspectives regarding gender and sexuality.

Integrative Studies - B.I.S.

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
www.kent.edu/multidisciplinary-studies

About This Program

Customize your education with the Integrative Studies program. Our Bachelor of Integrative Studies degree allows you to design a curriculum tailored to your unique interests and career goals. With a flexible program structure that allows you to combine courses from various disciplines, you will gain a broad range of knowledge and skills that are highly valued in today's job market. Read more...

Contact Information

- **David Odell-Scott** | dodellsc@kent.edu | 330-672-0271
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus

- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Students who have completed 30 credit hours (excluding credit earned while in high school, e.g. College Credit Plus) may declare the Bachelor of Integrative Studies degree. Students should schedule an appointment with a B.I.S. advisor to evaluate completed coursework, discuss future academic and career goals and determine which concentration will be reflected on the degree audit.

This degree program may not be earned as a double major or dual degree with another major and cannot be earned as an additional degree after another degree at the same or higher level has been earned previously.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
IGST 40099	SENIOR PROJECT (ELR) (WIC) [1]	1-3
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [2]		0-52
Concentrations		
Choose from the following:		30-82
Integrative Studies-General [3]		
Integrative Studies-Two Minors [4]		
Minimum Total Credit Hours:		**120**

1. A minimum C grade must be earned to fulfill the writing-intensive requirement.
2. Students are encouraged to complete internships or utilize individual investigations for more nuanced work; the total hours that can be completed in internship (xxx92) and/or individual investigation (xxx96) courses can not total more than 15 hours.
3. The Integrative Studies-General concentration allows students to choose a minimum of 30 credit hours from a minimum of two interrelated programs that support their career aspirations.
4. The Integrative Studies-Two Minors concentration allows students to complete two university-recognized minors and/or certificates. Students select courses from a minimum of two academic departments and develop a rationale for the ways in which these courses support their career goals.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	2.000

- The B.I.S. degree requires a minimum total of 120 earned credit hours, of which 39 credit hours must be at the upper-division (30000-40000) level.
- Students in both the Integrative Studies-General concentration and the Integrative Studies-Two Minors concentration are required to complete IGST 40099, as well as all university requirements and college requirements.

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours

Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.

Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Integrate theoretical and empirical material from across traditional disciplines.
2. Design, research and execute a scholarly project of high quality.
3. Articulate connections between their chosen coursework at Kent State and their plans to make a contribution to their community after graduation.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Integrative Studies degree provides a path to degree completion utilizing an integrative approach while maintaining a focus on career and professional goals. Students consult with an advisor to research and develop a plan of study.

The Integrative Studies major comprises the following concentrations:

- The **Integrative Studies-General** concentration allows students to choose a minimum of 30 credit hours from a minimum of two interrelated programs that support their career aspirations.
- The **Integrative Studies-Two Minors** concentration allows students to complete two university-recognized minors and/or certificates. Students select courses from a minimum of two academic departments and develop a rationale for the ways in which these courses support their career goals.

Students may apply early to the M.S. degree in Emerging Media and Technology and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

International Studies - B.A.

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities

www.kent.edu/multidisciplinary-studies

About This Program

The Bachelor of Arts in International Studies program is your ticket to a global career. With a focus on language, culture and politics, this program prepares you for a wide range of roles in fields such as diplomacy, international business and non-profit organizations. Read more...

Contact Information

- **Julie Mazzei** | jmazzei@kent.edu | 330-672-8934
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- Government, including diplomacy, national intelligence and security agencies, as well as positions in Department of State, Department of Commerce, Department of Defense and Department of Homeland Security
- Law
- Business, including finance, communication and multi-national corporations
- International organizations, such as the United Nations and its affiliated agencies
- Non-governmental organizations in such areas as human rights, economic development and immigration

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency

test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
INTS 10504	THE NEW PANGAEA: YOUR ROLE IN OUR GLOBAL COMMUNITY (DIVG)	3
INTS 30001	"TRUE FACTS": MAKING SENSE OF YOUR WORLD	3
INTS 30101	WORLDS OF WEALTH AND POWER	3
INTS 30301	HUMAN SECURITY	3
INTS 30501	ORDER AND RESISTANCE	3
INTS 40799	CAPSTONE IN INTERNATIONAL STUDIES (ELR) (WIC) [1]	3
Major Electives, choose from the following: [2]		18
AFS 23002	BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM)	
AFS 23310	NATIVE AMERICAN STUDIES	
AFS 32050	AFRICAN LITERATURES (DIVG)	
AFS 37020	THE MODEL AFRICAN UNION (ELR)	
CCI 20001	INTRODUCTION TO MEDIA ADVOCACY	
COMM 42000	MEDIA, WAR AND PROPAGANDA	
COMM 45678	SOCIAL MEDIA AND GLOBALIZATION	
COMM 45756	INTERNATIONAL COMMUNICATION	
COMM 45760	MEDIA AND NATIONALISM	
CRIM 37511	IMMIGRATION: LAW, CRIME AND JUSTICE (DIVD)	
CRIM 46800	INTELLIGENCE AND NATIONAL SECURITY	
CRIM 46802	TERRORISM AND COUNTERTERRORISM	
ECON 32084	ECONOMICS OF THE ENVIRONMENT	
ECON 42075	INTERNATIONAL ECONOMIC RELATIONS	
ENG 33015	AFRICAN LITERATURES (DIVG)	
ENG 34011	WORLD LITERATURE IN ENGLISH (DIVG)	
ENG 35105	LITERATURE, CULTURE AND ENVIRONMENT	
ENGR 27210	INTRODUCTION TO SUSTAINABILITY	
ENGR 47211	SUSTAINABLE ENERGY II	
ENVS 22070	NATURE AND SOCIETY (KSS)	
FDM 35012	SUSTAINABILITY IN FASHION	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 34070	ECONOMIC GEOGRAPHY	
GEOG 41077	WATER AND SOCIETY	
GEOG 41800	GLOBAL ENVIRONMENTAL ISSUES	
GEOG 42070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES	
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT	
GEOG 46060	FOOD SECURITY AND SUSTAINABILITY	
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	
HIST 31035	THE GLOBAL COLD WAR	
HIST 31082	HISTORY OF THE CIVIL RIGHTS AND BLACK POWER MOVEMENTS IN THE UNITED STATES	
HIST 31104	MIGRATIONS TO AMERICA, 1607 TO PRESENT (DIVD)	
HIST 31114	TRADITION AND REVOLUTION IN SOUTHEAST ASIA (DIVG)	
HIST 31131	HISTORY OF COLONIAL AFRICA, 1880-1994	
HIST 31132	HISTORY OF POST-COLONIAL AFRICA	
HIST 41060	COMPARATIVE FASCISM	
INTS 30570	PALESTINE AND ISRAEL (DIVG)	
INTS 40089	INTERNATIONAL EXPERIENCE (DIVG) (ELR) [3]	
INTS 40092	INTERNSHIP (ELR)	
INTS 40095	SPECIAL TOPICS IN INTERNATIONAL STUDIES	
INTS 40096	INDIVIDUAL INVESTIGATION	
INTS 40560	HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG)	
PACS 32030	INTERNATIONAL CONFLICT RESOLUTION (DIVG)	
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC) [1]	
POL 30810	POLITICS OF THE GLOBAL ECONOMY	
POL 30840	NONGOVERNMENTAL ORGANIZATIONS	
POL 39592	GENEVA INTERNSHIP (ELR)	
POL 40540	POLITICS OF DEVELOPMENT (DIVG)	
POL 40620	POLITICS OF SOCIAL MOVEMENTS (DIVD)	
REL 31075	RELIGION AND WOMEN	
REL 41010	RELIGION, VIOLENCE AND TERROR	
RPTM 45047	GLOBAL ISSUES OF TOURISM TRADE	
SOC 32565	SOCIOLOGY OF SEXUALITIES (DIVD)	
SOC 32569	MINORITIES IN THE UNITED STATES (DIVD)	
SOC 42359	SOCIAL MOVEMENTS	
SOC 42558	WEALTH, POVERTY AND POWER	
SOC 42560	SOCIOLOGY OF FOOD	
Any American Sign Language (ASL) Upper-Division course (30000 or 40000 level)		
Any Arabic (ARAB) Upper-Division course (30000 or 40000 level)		
Any Chinese (CHIN) Upper-Division course (30000 or 40000 level)		
Any French (FR) Upper-Division course (30000 or 40000 level)		
Any German (GER) Upper-Division course (30000 or 40000 level)		
Any Greek (GRE) Upper-Division course (30000 or 40000 level)		
Any Hebrew (HEBR) Upper-Division course (30000 or 40000 level)		
Any Italian (ITAL) Upper-Division course (30000 or 40000 level)		
Any Japanese (JAPN) Upper-Division course (30000 or 40000 level)		
Any Latin (LAT) Upper-Division course (30000 or 40000 level)		
Any Russian (RUSS) Upper-Division course (30000 or 40000 level)		
Any Spanish (SPAN) Upper-Division course (30000 or 40000 level)		
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1

Foreign Language (see Foreign Language College Requirement below)	10-16
Kent Core Composition	6
Kent Core Mathematics and Critical Reasoning	3
Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (must be from two disciplines)	6
Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Additional	6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	37
Minimum Total Credit Hours:	**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Students will meet with the International Studies advisor during the close of the third or beginning of the fourth semester to plan their path through electives in a way that offers coherence given their interests and goals.

[3] Students may substitute a different study abroad experience with permission from the program coordinator.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
INTS 10504	THE NEW PANGAEA: YOUR ROLE IN OUR GLOBAL COMMUNITY (DIVG)	3
UC 10001	FLASHES 101	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
INTS 30001	"TRUE FACTS": MAKING SENSE OF YOUR WORLD	3
INTS 30101	WORLDS OF WEALTH AND POWER	3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
INTS 30301	HUMAN SECURITY	3
INTS 30501	ORDER AND RESISTANCE	3
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
Major Electives		6
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
Major Electives		6
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Six		
Note: Students are encouraged to undertake a study abroad experience during junior or senior year.		
Major Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Seven		
Major Elective		3
General Electives		12
	Credit Hours	**15**
Semester Eight		
Note: Students are encouraged to undertake a study abroad experience during junior or senior year.		

INTS 40799	CAPSTONE IN INTERNATIONAL STUDIES (ELR) (WIC)	3
General Electives		12
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe their own agency as global actors.
2. Explain how a multidisciplinary understanding of international problems can reshape long-standing approaches to those issues.
3. Identify and utilize appropriate research tools for analyzing an international problem.
4. Articulate in writing ways in which the cumulation of coursework and problem analysis skills speak to specific career aspirations.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in International Studies empowers students to make a difference on a global scale. Whether students are interested in human rights, economic development, international law, peacebuilding, climate change or some other global question, they are encouraged to understand international problems from a range of perspectives and see more clearly how they can make an impact on them.

The International Studies major is multidisciplinary, which enables students to explore issues from a combination of perspectives, including Africana studies, communication, economics, geography, history, peace and conflict studies, political science and sociology.

Study abroad is available and encouraged. The program has permanent arrangements for study in Geneva, Switzerland and Florence, Italy, with more customized opportunities possible.

Due to their broad exposure to global issues, program graduates go on to rewarding careers in almost every imaginable sector, including international organizations, non-profit agencies, law, advocacy, journalism, business and government.

Jewish Studies - Minor

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
www.kent.edu/multidisciplinary-studies

About This Program

The Jewish Studies minor enables students enrolled in any major to learn about different aspects of Jewish heritage and culture. Each year, scholarships may be awarded to students pursuing the Jewish Studies minor.

Contact Information

- **Chaya Kessler** | ckessle7@kent.edu | 330-672-8926
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
JWST 11001	INTRODUCTION TO JEWISH STUDIES	3
Holocaust Elective, choose from the following:		3
HIST 30070	THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 31024	WORLD WAR II	
JWST 30300	CHILDREN OF THE HOLOCAUST: PERPETRATORS AND VICTIMS	
JWST 30301	HOLLYWOOD AND THE HOLOCAUST	
Religion Elective, choose from the following:		3
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
ENG 35201	THE BIBLE AS LITERATURE	
JWST 20011	INTRODUCTION TO THE HEBREW BIBLE OR OLD TESTAMENT	
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM)	
REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM)	
REL 31065	COMPARATIVE RELIGIOUS EXPERIENCE	
REL 41091	SEMINAR IN ADVANCED COMPARATIVE RELIGION	
REL 42091	RELIGION IN THE MODERN WORLD	
SOC 42561	SOCIOLOGY OF RELIGION	
Minor Electives, choose from the following:		9-11
GER 41216	CONTEMPORARY GERMAN CULTURE (ELR) (WIC)	
HEBR 12101	ELEMENTARY HEBREW I	
HEBR 12102	ELEMENTARY HEBREW II	
HIST 30049	MODERN EUROPEAN HISTORY, 1914-1945	
HIST 30060	HISTORY OF GERMANY, 1871-PRESENT	
HIST 31104	MIGRATIONS TO AMERICA, 1607 TO PRESENT (DIVD)	
HIST 31126	HISTORY OF THE MIDDLE EAST	
JWST 30092	INTERNSHIP IN JEWISH STUDIES (ELR)	
JWST 30100	JEWISH WOMEN IN THE MODERN WORLD	
JWST 30200	JEWS, BASEBALL AND AMERICAN SPORTS	
JWST 40089	STUDY ABROAD (DIVG) (ELR)	
JWST 40090	STUDY AWAY (ELR)	
JWST 40095	SPECIAL TOPICS IN JEWISH STUDIES	
JWST 40096	INDIVIDUAL INVESTIGATION	
MCLS 14421	INTRODUCTION TO YIDDISH LANGUAGE AND CULTURE	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify historical events and consequences of the Holocaust.
2. Demonstrate familiarity with the historiography or sociology of a major global religion.
3. Recognize the history and lived experience of Jewish communities.

Latin American Studies - Minor

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
www.kent.edu/multidisciplinary-studies

About This Program

The Latin American Studies minor is interdisciplinary and allows students to explore the region from a variety of disciplinary perspectives. It complements a number of programs, including history, geography, Spanish, political science and international relations.

Contact Information

- **Julie Mazzei** | jmazzei@kent.edu | 330-672-8934
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the

A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Minor Electives, choose from the following (three or more subject areas):		18
AFS 24407	INTRODUCTION TO CARIBBEAN STUDIES (DIVG)	
CRIM 37311	MINORITIES IN CRIME AND JUSTICE (DIVD)	
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY MODERN LATIN AMERICA (C. 1450-1820) (DIVG)	
MCLS 28404	THE LATIN AMERICAN EXPERIENCE (DIVG)	
POL 30550	LATIN AMERICAN POLITICS (DIVG)	
SOC 32569	MINORITIES IN THE UNITED STATES (DIVD)	
SPAN 38334	EARLY SPANISH-AMERICAN LITERATURE (ELR) (WIC) [1]	
SPAN 38335	RECENT SPANISH-AMERICAN LITERATURE (ELR) (WIC) [1]	
SPAN 38424	CULTURE AND CIVILIZATION OF LATIN AMERICA [1]	
SPAN 48216	CONTEMPORARY HISPANIC CULTURE [1]	
SPAN 48376	CONTEMPORARY SPANISH-AMERICAN SHORT STORY [1]	
SPAN 48378	U.S. LATINA/O WRITERS [1]	
Minimum Total Credit Hours:		**18**

[1] Courses are taught in Spanish. Students must meet the prerequisites prior to enrolling.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Lesbian, Gay, Bisexual, Transgender and Queer Studies - Minor

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
www.kent.edu/multidisciplinary-studies

About This Program

The Lesbian, Gay, Bisexual, Transgender and Queer Studies minor allows students to explore sexuality and sexual minorities from a variety of perspectives.

Contact Information

- **Lauren Vachon** | lvachon@kent.edu | 330-672-0324
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
LGBT 20020	INTRODUCTION TO LESBIAN, GAY, BISEXUAL, TRANSGENDER AND QUEER STUDIES	3
LGBT 31138	LGBTQ RESEARCH METHODS (ELR)	3
LGBT 40202	QUEER THEORY	3
Minor Electives, choose from the following:		9
AS 30798	GENDER AND SEXUALITY RESEARCH FORUM (ELR)	
AS 41099	CAPSTONE IN GENDER AND SEXUALITY STUDIES (ELR)	
CRIM 36800	LGBTQ POPULATIONS IN THE JUSTICE SYSTEM (DIVD)	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)	
HED 32544	HUMAN SEXUALITY	
or HED 47070	AIDS: ISSUES, EDUCATION AND PREVENTION	
LGBT 30095	SPECIAL TOPICS IN LGBTQ STUDIES	
LGBT 30120	LGBTQ RIGHTS AND CONTEMPORARY ISSUES	
LGBT 30135	LGBTQ REPRESENTATIONS IN POPULAR CULTURE	
LGBT 30196	INDIVIDUAL INVESTIGATION IN LGBTQ STUDIES [1]	
LGBT 40095	SPECIAL TOPICS IN LGBTQ STUDIES	
LGBT 40192	PRACTICUM IN LGBTQ STUDIES (ELR) [2]	

LGBT 40201	TRANSGENDER STUDIES
MSSH 20071	INTRODUCTION TO GENDER AND SEXUALITY STUDIES
MSSH 30171	THEORIES OF GENDER AND SEXUALITY
PSYC 40625	DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD)
or SOC 42315	SOCIOLOGY OF GENDER (DIVD)
SOC 32565	SOCIOLOGY OF SEXUALITIES (DIVD)
THEA 41115	LGBTQ THEATRE (DIVD)
Minimum Total Credit Hours:	**18**

[1] Maximum 3 credit hours of LGBT 30196 may apply toward minor electives.

[2] Maximum 3 credit hours of LGBT 40192 may apply toward minor electives.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Explore modern and historical constructs of gender and sexuality through cultural, biological, legal and social lenses.
2. Demonstrate knowledge of LGBTQ activism across time and place.
3. Analyze the political, social, cultural and economic systems of power and privilege that affect LGBTQ people.
4. Apply queer theory, transgender theory and intersectional theory to a variety of LGBTQ-related laws, policies, current events and issues.
5. Explore the lived experiences of LGBTQ people and the inequalities they face in criminal justice systems, healthcare systems and educational systems.
6. Assess various methodologies used in LGBTQ research and apply queer theoretical concepts to humanities-based research.

Liberal Studies - L.S.M.

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
www.kent.edu/multidisciplinary-studies

About This Program

The Master of Liberal Studies degree provides students with a unique opportunity to study at the graduate level in fields that are of interest and use to them. Under the guidance of the program's director, students select courses from across disciplines in the university to form their own individualized and integrated program of study.

Contact Information

- **Sarah M. Harvey, Ph.D.** | sharvey2@kent.edu | 330-672-1804
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- Interdisciplinary careers in social studies, humanities, sciences, arts, health, education, business, technology, etc.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 102 TOEFL iBT score
  - Minimum 7.5 IELTS score
  - Minimum 73 PTE score
  - Minimum 130 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
LSTU 60092	INTERNSHIP	3
or LSTU 61098	LIBERAL STUDIES ESSAY	
Electives [1]		27
Minimum Total Credit Hours:		**30**

[1] Of the 27 credit hours of electives, students must select 12-15 credit hours of courses from a single department/school or program and 12-15 credit hours of courses from at least one other departments/schools or program. In addition to standard classroom courses, a maximum 3 credit hours of internship or practicum and 3 credit hours of research may be selected. Courses may be taken in any college in the university.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Some graduate courses may require prerequisites.
- Students will complete a program of study document in which they develop a theme (title) and choose coursework in the major and minor areas. In developing a program of study, students must adhere to several fundamental principles that the program of study must (1) emphasize interdisciplinary perspectives to learning and (2) be integrated.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Bring together the different fields in which they have been working.
2. See the advantages of doing so.
3. Continue to pursue the knowledge they entered the program to acquire.

Paralegal Studies - B.A.

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
www.kent.edu/multidisciplinary-studies

About This Program

The Bachelor of Arts in Paralegal Studies program combines legal theory and practical skills to prepare you for a career in the legal field. Read more...

Contact Information

- **Amanda Paar-Conroy** | apaar@kent.edu | 330-672-4148
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Paralegals and legal assistants

- 10.5% much faster than the average
- 337,800 number of jobs
- $52,920 potential earnings

Title examiners, abstractors, and searchers

- -2.6% decline
- 63,600 number of jobs
- $48,820 potential earnings

Legal support workers, all other

- -1.2% decline
- 50,400 number of jobs
- $59,540 potential earnings

Accreditation

The B.A. degree in Paralegal Studies is approved by the American Bar Association (ABA).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college

or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
PLST 18000	INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS	3
PLST 28001	LEGAL RESEARCH AND WRITING	3
PLST 28004	CIVIL PROCEDURE	3
PLST 36792	INTERNSHIP IN PARALEGAL (ELR) [1]	6
PLST 38006	APPLIED LEGAL RESEARCH AND LITIGATION (WIC) [2]	3
Legal Specialty Electives, choose from the following:		24
PLST 28003	FAMILY LAW AND PROCEDURE	
PLST 28007	ESTATE AND PROBATE ADMINISTRATION	
PLST 35001	ENVIRONMENTAL LAW FOR PARALEGALS	
PLST 35003	HEALTH LAW	
PLST 35005	LABOR AND EMPLOYMENT LAW FOR PARALEGALS	
PLST 35007	ENERGY AND NATURAL RESOURCES LAW	
PLST 36001	LAW OFFICE TECHNOLOGY	
PLST 38003	ADMINISTRATIVE LAW AND PROCESS	
PLST 38005	TORT LAW	
PLST 40095	SPECIAL TOPICS IN PARALEGAL STUDIES	
PLST 42701	EVIDENCE AND E-DISCOVERY	
PLST 42705	BANKRUPTCY LAW I: BASIC FUNDAMENTALS	
PLST 42706	BANKRUPTCY LAW II: CREDITOR-DEBTOR RELATIONS	
PLST 42708	REAL ESTATE LAW	
PLST 48002	CONTRACT LAW	
PLST 48300	LAW OF CORPORATIONS AND OTHER ASSOCIATIONS	
PLST 48401	PATENT LAW	
PLST 48403	PATENT PROSECUTION	
PLST 48404	COPYRIGHT LAW I	
PLST 48407	TRADEMARK LAW	
PLST 48408	TRADEMARK PROSECUTION	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		31
Minimum Total Credit Hours:		**120**

[1] Although the required minimum for PLST 36792 is 6 credit hours, it is recommended that students enroll in more than one internship.

[2] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
PLST 18000	INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS	3
UC 10001	FLASHES 101	1

	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
	PLST 28004	CIVIL PROCEDURE	3
	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	PLST 28001	LEGAL RESEARCH AND WRITING	3
	Legal Specialty Electives		6
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	PLST 38006	APPLIED LEGAL RESEARCH AND LITIGATION (WIC)	3
	Legal Specialty Electives		6
	Foreign Language and/or General Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	Legal Specialty Electives		6
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	Legal Specialty Electives		6
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Seven		
!	PLST 36792	INTERNSHIP IN PARALEGAL (ELR)	3
	General Electives		12
		Credit Hours	**15**
	Semester Eight		
!	PLST 36792	INTERNSHIP IN PARALEGAL (ELR)	3
	General Electives		12
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze a legal problem as well as identify and evaluate alternative solutions.
2. Formulate logical solutions to problems and construct logical arguments in support of specific positions as well as evaluate solutions and arguments.
3. Determine which areas of law are relevant to a particular situation.
4. Apply principles of professional ethics to specific factual situations.
5. Identify interrelationships among cases, statutes, regulations and other legal authorities.
6. Apply recognized legal authority to a specific factual situation.
7. Analyze factual situations to determine when it is appropriate to apply exceptions to general legal rules.
8. Apply exceptions to general legal rules.
9. Distinguish evidentiary facts from other material and/or controlling facts.
10. Identify factual omissions and inconsistencies.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that

study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Paralegal Studies combines a liberal arts background with law-related specialty courses to provide students with communication, critical reasoning and analytical skills; knowledge of the legal system; and practical hands-on experience.

The program prepares students for the Certified Paralegal exam from the National Association of Legal Assistants. Paralegals may not provide legal services directly to the public except as permitted by law.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Paralegal Studies - Minor

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
www.kent.edu/multidisciplinary-studies

About This Program

The Paralegal Studies minor provides you with the foundational knowledge and practical skills needed to support legal professionals in a variety of settings. With experienced faculty, hands-on learning opportunities and a flexible curriculum, you will gain valuable insights into the legal system and develop the critical thinking and communication skills that are essential for success in the field. Read more...

Contact Information

- **Amanda Paar-Conroy** | apaar@kent.edu | 330-672-4148
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Accreditation

The Paralegal Studies minor is approved by the American Bar Association (ABA).

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
PLST 18000	INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS	3
PLST 28001	LEGAL RESEARCH AND WRITING	3
PLST 28004	CIVIL PROCEDURE	3
PLST 36792	INTERNSHIP IN PARALEGAL (ELR)	3
Minor Elective, choose from the following:		3
PLST 28003	FAMILY LAW AND PROCEDURE	
PLST 28007	ESTATE AND PROBATE ADMINISTRATION	
PLST 35001	ENVIRONMENTAL LAW FOR PARALEGALS	
PLST 35003	HEALTH LAW	
PLST 35005	LABOR AND EMPLOYMENT LAW FOR PARALEGALS	
PLST 35007	ENERGY AND NATURAL RESOURCES LAW	
PLST 36001	LAW OFFICE TECHNOLOGY	
PLST 38003	ADMINISTRATIVE LAW AND PROCESS	
PLST 38005	TORT LAW	
PLST 38006	APPLIED LEGAL RESEARCH AND LITIGATION (WIC)	
PLST 40095	SPECIAL TOPICS IN PARALEGAL STUDIES	
PLST 42701	EVIDENCE AND E-DISCOVERY	
PLST 42705	BANKRUPTCY LAW I: BASIC FUNDAMENTALS	
PLST 42706	BANKRUPTCY LAW II: CREDITOR-DEBTOR RELATIONS	
PLST 42708	REAL ESTATE LAW	
PLST 48002	CONTRACT LAW	
PLST 48300	LAW OF CORPORATIONS AND OTHER ASSOCIATIONS	
PLST 48401	PATENT LAW	
PLST 48403	PATENT PROSECUTION	
PLST 48404	COPYRIGHT LAW I	
PLST 48407	TRADEMARK LAW	
PLST 48408	TRADEMARK PROSECUTION	
Upper-Division Minor Electives, choose from the following:		6
PLST 35001	ENVIRONMENTAL LAW FOR PARALEGALS	
PLST 35003	HEALTH LAW	
PLST 35005	LABOR AND EMPLOYMENT LAW FOR PARALEGALS	
PLST 35007	ENERGY AND NATURAL RESOURCES LAW	

PLST 36001	LAW OFFICE TECHNOLOGY
PLST 38003	ADMINISTRATIVE LAW AND PROCESS
PLST 38005	TORT LAW
PLST 38006	APPLIED LEGAL RESEARCH AND LITIGATION (WIC)
PLST 40095	SPECIAL TOPICS IN PARALEGAL STUDIES
PLST 42701	EVIDENCE AND E-DISCOVERY
PLST 42705	BANKRUPTCY LAW I: BASIC FUNDAMENTALS
PLST 42706	BANKRUPTCY LAW II: CREDITOR-DEBTOR RELATIONS
PLST 42708	REAL ESTATE LAW
PLST 48002	CONTRACT LAW
PLST 48300	LAW OF CORPORATIONS AND OTHER ASSOCIATIONS
PLST 48401	PATENT LAW
PLST 48403	PATENT PROSECUTION
PLST 48404	COPYRIGHT LAW I
PLST 48407	TRADEMARK LAW
PLST 48408	TRADEMARK PROSECUTION
Minimum Total Credit Hours:	**21**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze a legal problem as well as identify and evaluate alternative solutions.
2. Formulate logical solutions to problems and construct logical arguments in support of specific positions as well as evaluate solutions and arguments.
3. Determine which areas of law are relevant to a particular situation.
4. Apply principles of professional ethics to specific factual situations.
5. Identify interrelationships among cases, statutes, regulations and other legal authorities.
6. Apply recognized legal authority to a specific factual situation.
7. Analyze factual situations to determine when it is appropriate to apply exceptions to general legal rules.
8. Apply exceptions to general legal rules.
9. Distinguish evidentiary facts from other material and/or controlling facts.
10. Identify factual omissions and inconsistencies.

Full Description

The Paralegal Studies minor provides the foundation for students to pursue the paralegal field. A paralegal is employed by a law office, corporate legal department or public entity to perform substantive legal work under the supervision of a lawyer. Paralegals conduct legal research, maintain and organize files and draft legal documents. Paralegals also work with clients and witnesses in preparing cases for trial.

The program prepares students for the Certified Paralegal exam from the National Association of Legal Assistants. A paralegal is not a lawyer and may not give legal advice, accept cases, argue in court or set fees.

Paralegal Studies - Undergraduate Certificate

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
www.kent.edu/multidisciplinary-studies

About This Program

The Paralegal Studies undergraduate certificate is applicable to those students who wish to continue their education and enhance and update their skills to pursue a career in the legal field.

The program prepares students for the Certified Paralegal exam from the National Association of Legal Assistants. Paralegals may not provide legal services directly to the public except as permitted by law.

Contact Information

- **Amanda Paar-Conroy** | apaar@kent.edu | 330-672-4148
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Legal support workers, all other

- -1.2% decline
- 50,400 number of jobs
- $59,540 potential earnings

Paralegals and legal assistants

- 10.5% much faster than the average
- 337,800 number of jobs
- $52,920 potential earnings

Title examiners, abstractors, and searchers

- -2.6% decline
- 63,600 number of jobs
- $48,820 potential earnings

Accreditation

The Paralegal Studies certificate is approved by the American Bar Association (ABA).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this certificate is selective. Applicants must meet the following criteria:

- Bachelor's degree from an accredited college or university
- Minimum 2.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
PLST 18000	INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS	3
PLST 28001	LEGAL RESEARCH AND WRITING	3
PLST 28004	CIVIL PROCEDURE	3
PLST 36792	INTERNSHIP IN PARALEGAL (ELR)	3
Certificate Electives, choose from the following:		9
PLST 28003	FAMILY LAW AND PROCEDURE	
PLST 28007	ESTATE AND PROBATE ADMINISTRATION	
PLST 35001	ENVIRONMENTAL LAW FOR PARALEGALS	
PLST 35003	HEALTH LAW	
PLST 35005	LABOR AND EMPLOYMENT LAW FOR PARALEGALS	
PLST 35007	ENERGY AND NATURAL RESOURCES LAW	
PLST 36001	LAW OFFICE TECHNOLOGY	
PLST 38003	ADMINISTRATIVE LAW AND PROCESS	
PLST 38005	TORT LAW	
PLST 38006	APPLIED LEGAL RESEARCH AND LITIGATION (WIC)	
PLST 40095	SPECIAL TOPICS IN PARALEGAL STUDIES	
PLST 42701	EVIDENCE AND E-DISCOVERY	
PLST 42705	BANKRUPTCY LAW I: BASIC FUNDAMENTALS	
PLST 42706	BANKRUPTCY LAW II: CREDITOR-DEBTOR RELATIONS	
PLST 42708	REAL ESTATE LAW	
PLST 48002	CONTRACT LAW	
PLST 48300	LAW OF CORPORATIONS AND OTHER ASSOCIATIONS	
PLST 48401	PATENT LAW	
PLST 48403	PATENT PROSECUTION	
PLST 48404	COPYRIGHT LAW I	
PLST 48407	TRADEMARK LAW	
PLST 48408	TRADEMARK PROSECUTION	
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Religion Studies - Minor

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
www.kent.edu/multidisciplinary-studies

About This Program

The Religion Studies minor provides students the opportunity to study religion by means of a diversity of academic disciplinary approaches in relation to religious thought and practice evident in the diversity of religions and religious phenomena throughout the world. The curriculum prepares students for critical inquiry in religion with advanced coursework drawn from a variety of disciplines in the humanities, social sciences and the arts.

Contact Information

- **David Odell-Scott** | dodellsc@kent.edu | 330-672-0271
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		**3**
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM)	
or REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM)	
Upper-Division Religion Electives, choose from the following:		**3**
REL 31075	RELIGION AND WOMEN	
REL 41010	RELIGION, VIOLENCE AND TERROR	
REL 31065	COMPARATIVE RELIGIOUS EXPERIENCE	
REL 41091	SEMINAR IN ADVANCED COMPARATIVE RELIGION	
REL 42091	RELIGION IN THE MODERN WORLD	
Electives, choose from the following:		9
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
SOC 42561	SOCIOLOGY OF RELIGION	
AFS 43200	MALCOLM AND MARTIN	
ANTH 48150	RELIGION: A SEARCH FOR A MEANING [1]	
ARTH 42036	MEDIEVAL ART	
CLAS 41301	CLASSICAL MYTHOLOGY	
CLAS 41404	ANCIENT CHRISTIANITIES	
ENG 35201	THE BIBLE AS LITERATURE	
HIST 30070	THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 30030	IDEAS IN ACTION: U.S. INTELLECTUAL HISTORY (DIVD)	
HIST 31031	REFORMATIONS IN EARLY MODERN CHRISTIANITY	
PHIL 31002	MEDIEVAL PHILOSOPHY	
PHIL 41010	PROBLEMS IN THE PHILOSOPHY OF RELIGION	
POL 30560	MIDDLE EAST POLITICS (DIVG)	
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM) [1]	
REL 12020	INTRODUCTION TO NEW TESTAMENT LITERATURE	
REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM) [1]	
REL 31065	COMPARATIVE RELIGIOUS EXPERIENCE [1]	
REL 31075	RELIGION AND WOMEN	
REL 41010	RELIGION, VIOLENCE AND TERROR	
REL 41091	SEMINAR IN ADVANCED COMPARATIVE RELIGION [1]	
REL 42091	RELIGION IN THE MODERN WORLD [1]	
SOC 42561	SOCIOLOGY OF RELIGION [1]	
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	
REL 40095	SPECIAL TOPICS IN RELIGION STUDIES	
REL 40096	INDIVIDUAL INVESTIGATION	
REL 51010	RELIGION, VIOLENCE AND TERROR	
REL 51091	SEMINAR IN ADVANCED COMPARATIVE RELIGION	
REL 52091	RELIGION IN THE MODERN WORLD	
REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM)	
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM)	
Minimum Total Credit Hours:		**15**

[1] Courses can only be applied toward minor requirements once. ANTH 48150, PACS 32030, PACS 32040, PACS 41010, REL 11020, REL 21021, REL 31065, REL 41091, REL 42091 and SOC 42561 may not be selected as minor electives if chosen to fulfill a requirement listed above.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Women's Studies - Minor

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
www.kent.edu/multidisciplinary-studies

About This Program

The Women's Studies minor affords vital inquiry into subjects inevitably more complex than they appear. The program reflects rich mergers of multidisciplinary traditions that arose and keep arising in the wake of women's centuries-long struggles. At the heart of women's studies are women's demands for recognition—as capable scholars hungry to know—about themselves, their untold histories, their currently silenced voices, often invisible lives. Read more...

Contact Information

- **Suzanne Holt** | slholt@kent.edu | 330-672-8042
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Examples of Possible Careers

- Support services for kids and families navigating gender and sexuality
- Support services for survivors of violence

- Women's health and well-being
- Work in any of the following fields: advocacy, art, business and industry, communications, counseling, education and training, film, law, medicine, poetry work, politics, public relations, reporting, social policy, theater, writing

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Elemental to Women's Studies -- the essence of who we are, what we do, and why		6
WMST 20101	INTRODUCTION TO WOMEN'S STUDIES: TRADITIONS, TRAJECTORIES, TROUBLES	
WMST 30001	ARENAS FOR FEMINIST THOUGHT: TOUCHY SUBJECTS, UNSETTLED MATTERS AND FEMINIST RESPONSE-ABILITY	
WMST 30002	FEMINIST RESEARCH METHODS (or)	
WMST 30091	KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD)	
WMST 44321	PIVOTAL PRAXIS: EXPERIMENTS IN ACTIONABLE FEMINISM	
Facets of Study-Divergent Directions-convergent passions		6
WMST 30095	SPECIAL TOPICS IN WOMEN'S STUDIES	
WMST 30100	HISTORY OF WOMEN IN THE UNITED STATES	
WMST 30196	WOMEN STUDIES INDIVIDUAL INVESTIGATION	
WMST 30201	WITCHES: THE MONSTROUS FEMININE	
WMST 30202	FEMINIST HUMOR: DISARMING LAUGHTER, DISRUPTIVE DISCOURSE	
WMST 30301	REPRESENTATIONS OF WOMEN AND FEMINISM IN POPULAR CULTURE	
WMST 30302	GLOBAL FEMINISMS: A WORLD AND CENTURY OF WOMEN'S ACTIVISM	
WMST 32323	RAPE CULTURE: RETHINKING DANGER, POWER, SEX AND FEMINIST FRAMINGS	
WMST 40992	PRACTICUM IN WOMEN'S STUDIES (ELR)	
WMST 40097	Course WMST 40097 Not Found	
Mixed Company -- Cohorts and Kindred Spirits		3
AFS 33110	BLACK WOMEN, CULTURE AND SOCIETY: HISTORICAL PERSPECTIVES (DIVD)	
COMM 35912	GENDER AND COMMUNICATION (DIVD)	
CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)	
ENG 33013	AFRICANA WOMEN'S LITERATURE (DIVG)	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
GSS 40591	SEMINAR IN GENDER AND SEXUALITY STUDIES	
HIST 31033	WITCHES AND EUROPEAN HISTORY, 1500-1800	
PHIL 31040	FEMINIST PHILOSOPHY (DIVD)	
POL 40470	WOMEN, POLITICS AND POLICY (DIVD)	
PSYC 40625	DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD)	
SOC 42315	SOCIOLOGY OF GENDER (DIVD)	
WMST 30091	KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD)	
WMST 30095	SPECIAL TOPICS IN WOMEN'S STUDIES	
WMST 30100	HISTORY OF WOMEN IN THE UNITED STATES	
WMST 30301	REPRESENTATIONS OF WOMEN AND FEMINISM IN POPULAR CULTURE	
WMST 30302	GLOBAL FEMINISMS: A WORLD AND CENTURY OF WOMEN'S ACTIVISM	
WMST 40097	Course WMST 40097 Not Found	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Acquire and employ new lenses of study into subjects and experiences and very names of "woman" or "women" in contexts wherein such a designation matters.
2. Employ new approaches to knowledge, new strategies of engagement with "others" as well as peers, new methods of research, new approaches to critical analysis and appraisal and new forms of praxis.
3. Converse — and become conversant — with multiple feminisms; divergent purposes; and the positions and directions of variant studies, histories and commentaries through aptly selected/combined lenses and filters born of women's studies traditions.
4. Interrogate and be able to continually interrogate the expansive lexicon of sexed- and gendered-terms to which "woman" as a question and "man" as a given gave rise.
5. Deepen, expand and invigorate the "thought and theory" that inform the several key fields that continue to inform, challenge and shape the unstaid, unstill universe of women's studies (e.g., sex, gender, feminism, intersectionality, identity politics, sisterhood, womanism).
6. Understand and build skills to engage in both feminist *perspective-taking* and actual *praxis*: the techniques and tools of navigating difference, seeking transversals, meeting demands of fieldwork and attaining goals.

Full Description

The Women's Studies minor offers both diversity and depth of coursework, ranging from feminist humor to feminism as serious theory and world-making practice. Students can immerse themselves in experiential learning via internships and applied work.

Through inventive classes, facilitated engagement in discussion and carefully crafted opportunities for guided independent work, the minor embraces a logic of study initiated from many start-points; grounded in

cores of feminist thought, substance and practice; enriched by multiple disciplines and capped by challenge.

The minor's curriculum aims to satisfy students' desire for both a solid foundation in women's studies and a taste of the diverse, complex and often contentious field. The minor's aim is to deliver coursework that speaks to students' very specific scholarly interests as well as to their passions and persuasions, both personal and political.

World Literature and Cultures - Minor

College of Arts and Sciences
School of Multidisciplinary Social Sciences and Humanities
www.kent.edu/multidisciplinary-studies

About This Program

The World Literature and Cultures minor is dedicated to the interdisciplinary study of historical and contemporary literature, which is representative of a diversity of the world's cultures. Students explore world literature and cultures with the aid of a variety of disciplinary methods of analysis and interpretation in the study of cultural texts and artifacts, as well as the interactions of the political, economic, cultural and social complexities with literature. The study of world literature and cultures is devoted to promoting a central trend among major research universities in the United States to engage in the critical integration of knowledge that cuts across the different disciplines, with sustained focus on the global study of cultures and literature, past and present.

Contact Information

- **Julie Mazzei** | jmazzei@kent.edu | 330-672-8934
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Minor Electives, choose from the following:		6
AFS 20300	BLACK IMAGES	
AFS 22200	INTRODUCTION TO THE AFRICAN ARTS	
AFS 23310	NATIVE AMERICAN STUDIES	
AFS 24407	INTRODUCTION TO CARIBBEAN STUDIES (DIVG)	
ANTH 18210	INTRODUCTION TO CULTURAL ANTHROPOLOGY (DIVG) (KSS)	
ARTH 12001	ART AS A WORLD PHENOMENON (KFA)	
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	
DAN 27076	DANCE AS AN ART FORM (DIVG) (KFA)	
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	
JWST 11001	INTRODUCTION TO JEWISH STUDIES	
MCLS 21417	MULTICULTURALISM IN TODAY'S GERMANY (DIVG)	
MCLS 28404	THE LATIN AMERICAN EXPERIENCE (DIVG)	
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
MUS 22111	UNDERSTANDING WESTERN MUSIC (KFA)	
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM)	
REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM)	
Minor Upper-Division Electives, choose from the following:		12
AFS 32050	AFRICAN LITERATURES (DIVG)	
AFS 34000	INTRODUCTION TO AFRICAN WORLD VIEW (DIVG)	
AFS 37020	THE MODEL AFRICAN UNION (ELR)	
AFS 37100	AFRICANA WOMEN'S LITERATURE (DIVG)	
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
ANTH 48245	PSYCHOLOGICAL ANTHROPOLOGY (DIVG)	
ARAB 21401	ARAB CULTURES	
ARTH 42041	ITALIAN RENAISSANCE ART	
CLAS 41301	CLASSICAL MYTHOLOGY	
CLAS 41304	LITERATURE OF THE ROMAN WORLD (ELR) (WIC)	
CLAS 41305	CLASSICAL LITERARY STUDIES	
CLAS 41404	ANCIENT CHRISTIANITIES	
CLAS 41503	LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
COMM 42000	MEDIA, WAR AND PROPAGANDA	
COMM 45766	COMMUNICATION IN A GLOBAL SOCIETY	
DAN 47063	DANCE HISTORY I	
ENG 34011	WORLD LITERATURE IN ENGLISH (DIVG)	
ENG 34041	FAIRY TALES	
GEOG 32080	POLITICS AND PLACE (DIVG)	
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE	
HIST 31053	MODERN EUROPE, 1815 TO PRESENT	
HIST 31112	CHINESE CIVILIZATION	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31140	MODERN LATIN AMERICA (DIVG)	

HIST 31141	EARLY MODERN LATIN AMERICA (C. 1450-1820) (DIVG)
JAPN 45421	JAPANESE CULTURE
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES
MUS 42111	AFRICAN MUSIC AND CULTURES
MUS 42141	FOLK MUSIC OF EUROPE AND NORTH AMERICA
MUS 42151	ASIAN MUSICS
MUS 42181	POPULAR WORLD MUSIC (DIVG)
PACS 31003	NONVIOLENCE: THEORY AND PRACTICE
PACS 32030	INTERNATIONAL CONFLICT RESOLUTION (DIVG)
PACS 32040	CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG)
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC)
PHIL 31002	MEDIEVAL PHILOSOPHY
PHIL 31011	ANCIENT PHILOSOPHY
PHIL 31013	LATE MODERN PHILOSOPHY
PHIL 31060	PHILOSOPHY OF ART AND BEAUTY (ELR)
PSYC 31532	SOCIAL PSYCHOLOGY
PSYC 40461	PSYCHOLOGY OF LANGUAGE
REL 31065	COMPARATIVE RELIGIOUS EXPERIENCE
RUSS 32501	RUSSIAN LITERATURE IN ENGLISH
SOC 42561	SOCIOLOGY OF RELIGION
WMST 30001	ARENAS FOR FEMINIST THOUGHT: TOUCHY SUBJECTS, UNSETTLED MATTERS AND FEMINIST RESPONSE-ABILITY
Minimum Total Credit Hours:	**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students may not select more than two courses from one subject area.
- Students must complete any prerequisites required for courses in the elective lists.

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

School of Peace and Conflict Studies

College of Arts and Sciences
School of Peace and Conflict Studies
113 McGilvrey
Kent Campus
330-672-3143
spcs@kent.edu
www.kent.edu/spcs

Undergraduate Programs

- Peace and Conflict Studies - B.A.

Minors

- Environment, Peace and Justice
- Negotiation, Mediation and Conflict Management

Graduate Programs

- Peace and Conflict Studies - M.A.

School of Peace and Conflict Studies Faculty

- Arai, Tatsushi (2019), Associate Professor, Ph.D., George Mason University, 2005
- Bleak, Jacquelyn K. (2014), Associate Lecturer, M.S., George Mason University, 2012
- Cooper, Neil (2019), Professor
- Cunningham, Karen D. (1990), Professor, J.D., Washington and Lee University, 1986
- Hancock, Landon E. (2006), Professor, Ph.D., George Mason University, 2003
- Hsiao, Elaine C. (2021), Assistant Professor
- Koopman, Sara (2017), Associate Professor, Ph.D., University of British Columbia, 2012
- Merryman, Molly B. (1996), Associate Professor, Ph.D., Bowling Green State University, 2007
- Nickels, Ashley E. (2016), Associate Professor, Ph.D., Rutgers University, 2016
- Solomon, Johanna A. (2017), Assistant Professor, Ph.D., University of California, Irvine, 2015

Peace and Conflict Studies (PACS)

PACS 11001 INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS) 3 Credit Hours
Introduces key elements of conflict management theory and peacebuilding practice such as conflict styles, active listening, assertion, collaborative problem solving, principled negotiation, mediation and nonviolent conflict intervention. These are essential "life skills" useful in personal, social and professional contexts. Includes conflict communication skills development and practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences

PACS 30000 MAY 4 1970 AND ITS AFTERMATH 3 Credit Hours
(Cross-listed with POL 30000) Study of the events of the 1960s in the US leading up to May 4, 1970 when the Ohio National Guard killed and wounded KSU students protesting the US war in Vietnam and Cambodia. Topics are considered within their cultural, historical, social and political contexts. Also examines the aftermath of May 4th, including the controversy over constructing the Gym Annex on the May 4th site, the legal trials, the role of commemorations and memorials and the politics of remembering May 4, 1970.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 31002 GENDER, POWER AND CONFLICT 3 Credit Hours
Examines gender roles and power imbalances in interpersonal relationships, group settings, and on the structural level and the various manifestations of violence that may result, considering some of the ways in which these imbalances are developed, maintained and constructively addressed and potentially redressed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 31003 NONVIOLENCE: THEORY AND PRACTICE 3 Credit Hours
Social conflicts can be intensified and waged in a constructive manner through nonviolent action. Examines how nonviolent action methods bring about social and political change. Explores the theory and philosophy underlying strategies of nonviolent action. Utilizes a wide variety of historical and contemporary case examples of nonviolent struggles from across the globe.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 31010 CONFLICT THEORY 3 Credit Hours
Explores the theoretical foundations of conflict and conflict management to provide a greater understanding of the nature, sources and dynamics of various types of conflict, the special challenges faced in addressing those conflicts, and the theory underlying various approaches to conflict management and resolution.
Prerequisite: PACS 11001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 32020 STRATEGIC PLANNING 3 Credit Hours
Provides training in the principles and tactics of strategic planning for individuals, organizations, agencies and institutions. Students learn to apply the principles of conflict management to strategic planning, including assessing the current environment, developing goals and objectives and establishing a timeline for acting on a strategic plan.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 32030 INTERNATIONAL CONFLICT RESOLUTION (DIVG) 3 Credit Hours
Examines causes, expressions and consequences of international conflicts, exploring mechanisms of their prevention, management and resolution. Includes the appearance and development of these conflicts and early warning, negotiation, and peacekeeping and peacebuilding. Covers international and civil wars and topics such as international terrorism.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

PACS 32040 CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG) 3 Credit Hours
Examines cultural components of conflicts in diverse, multi-cultural settings with special emphases on the nature and sources of cross-cultural conflicts, conflict escalation and de-escalation, and the roles of power disparities. Students examine their own cultural assumptions in order to better understand the multiple effects that cultural dynamics have in conflicts. Case analyses will include conflict resolution techniques respectful of the cultural values of the parties in conflict.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

PACS 33030 CONFLICT IN THE WORKPLACE 3 Credit Hours
Explores the causes, impact and dynamics of conflict in the workplace. Issues explored include personality conflict, incivility, ethics, teams, management style, diversity, legal issues, alternative dispute resolution, union environments and workplace violence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 34010 CAREER PATHWAYS IN PEACE AND CONFLICT STUDIES 3 Credit Hours
So what does one do with a major or minor in peace and conflict studies? How does one find a job or internship in the field? This course encourages students to explore and critically examine how the skills and knowledge learned in Peace and Conflict Studies courses can be utilized and applied in real-world settings. Students will interact with alumni and professionals working in a variety of careers that utilize conflict management and related skills. They will learn how to do professional networking, create a career plan, develop job search strategies, and learn how to market their skills and knowledge. Students will complete the course with a career plan, a detailed identification and exploration of options, or another career-related project.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 35050 ENVIRONMENTAL CONFLICT RESOLUTION 3 Credit Hours
(Cross-listed with POL 30350) Examines environmental conflicts, such as land use disputes and resource conflicts, and conflict resolution theory and processes applicable to environmental disputes, especially biodiversity conservation and natural resource conflicts. Students learn about environmental conflict analysis, multistakeholder environmental dispute resolution, dialogue processes, conflict-sensitivity, and environmental cooperation among others. Case studies of environmental conflicts and participatory simulations are used.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 35092 INTERNSHIP IN PEACE AND CONFLICT STUDIES (ELR) 1-9 Credit Hours
(Repeatable for credit) Students work as interns with an organization, group or business, utilizing and enhancing their skills in conflict management and applied peace studies. Three hours of internship are required for the Peace and Conflict Studies major, and an elective for the Negotiation, Mediation and Conflict Management minor.
Prerequisite: Two Peace and Conflict Studies (PACS) upper-division (30000- or 40000-level) courses; and junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PACS 35095 SPECIAL TOPICS IN PEACE AND CONFLICT STUDIES 3 Credit Hours
(Repeatable for credit) Designed to provide an in-depth examination of topics and issues of interest to faculty and students. Specific topics are announced in the Schedule of Classes and on the School of Peace and Conflict Studies web site.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 36096 INDIVIDUAL INVESTIGATION IN PEACE AND CONFLICT STUDIES 3 Credit Hours
(Repeatable for credit) Individualized program of study and literature review in area of particular interest to the student.
Prerequisite: Two upper-division PACS courses; and junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

PACS 40089 INTERNATIONAL EXPERIENCE: PEACE AND CONFLICT STUDIES (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) (Slashed with PACS 50089) A Kent State faculty-led study abroad experience in peace and conflict studies that provides students with learning through experiential activities and site visits outside the United States.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

PACS 40090 STUDY AWAY: PEACE AND CONFLICT STUDIES (ELR) 1-4 Credit Hours
(Repeatable for credit) (Slashed with PACS 50090) A Kent State faculty-led study away experience in peace and conflict studies that provides students with learning experiences within the United States outside of Kent State University.
Prerequisite: None.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PACS 41010 RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC) 3 Credit Hours
"Transitional justice" refers to civil and political processes used to move from violence and tyranny to peace and democracy. War crimes tribunals, truth and reconciliation commissions, apologies, forgiveness, reparations and memorials are examined.
Prerequisite: One Peace and Conflict Studies (PACS) upper-division (30000 or 40000 level) course; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Writing Intensive Course

PACS 44040 NEGOTIATION 3 Credit Hours
(Slashed with PACS 54040) Effective negotiation skills are essential for success in both our professional and personal lives. This course explores in an engaging and interactive way negotiation theories, strategies and techniques. Students will enhance their negotiation skills by learning to plan for an effective negotiation, to elicit information effectively, to build relationships, to improve their communication and persuasive abilities and to deal with a variety of situations and circumstances. There will be several opportunities to practice negotiation skills in class, to experiment with different approaches, and to develop the skills and confidence to be able to negotiate effectively and constructively.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 45050 COMMUNITY ORGANIZING: PEOPLE, POWER AND PEACEFUL CHANGE 3 Credit Hours
Mobilizing communities for positive and peaceful social change requires thoughtful leaders equipped with the skills to organize people and power. Organizing can make a difference in addressing major public challenges that demand full engagement of community, especially those whose voices are not heard unless they organize. Leadership is accepting responsibility to enable others to achieve shared purpose in the face of uncertainty. Organizing is a way to lead by identifying, recruiting and developing more leaders; building community around that leadership; and building power from the resources of that community.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 45060 ENVIRONMENTAL JUSTICE 3 Credit Hours
(Slashed with PACS 55060) This course traces the linking of environment and social justice movements, initially in the U.S. and then internationally, to cover a range of issues that now fall under the banner of environmental justice. It includes theories of justice and environmental protection; issues and critiques of social injustices in environmental movements, including NIMBY ("not in my backyard"), climate justice and mainstream conservation; and case studies demonstrating the need and means to promote just conservation and sustainable development in a politically and economically divided world. Students learn collaborative, non-violent, decolonial approaches to environmental justice action, dialogues and policymaking.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 45093 VARIABLE TOPIC WORKSHOP IN PEACE AND CONFLICT STUDIES 1-6 Credit Hours
(Repeatable for credit) Variable topic offered as need arises. Specific topics will be announced in the Schedule of Classes and on the School of Peace and Conflict Studies website.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

PACS 48080 MEDIATION: THEORY AND TRAINING 3 Credit Hours
(Slashed with PACS 58080) Provides training in mediation skills, principles and methods in an interactive way. Students examine the historical development of mediation and the uses of mediation in various contexts including family, business, labor-management, civil, community, and workplace disputes.
Prerequisite: PACS 11001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 49091 VARIABLE CONTENT SEMINAR IN PEACE AND CONFLICT STUDIES 1-3 Credit Hours
(Slashed with PACS 59091) (Repeatable for maximum of 3 credit hours) Seminar devoted to detailed study of various topics in the field of peace and conflict studies. Specific topics are announced in schedule of classes and on the School of Peace and Conflict Studies website.
Prerequisite: Junior standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PACS 50089 INTERNATIONAL EXPERIENCE: PEACE AND CONFLICT STUDIES 1-4 Credit Hours
(Repeatable for credit) (Slashed with PACS 40089) A Kent State faculty-led study abroad experience in peace and conflict studies that provides students with learning through experiential activities and site visits outside the United States.
Prerequisite: Graduate standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter

PACS 50090 STUDY AWAY: PEACE AND CONFLICT STUDIES 1-4 Credit Hours
(Repeatable for credit) (Slashed with PACS 40090) A Kent State faculty-led study away experience in peace and conflict studies that provides students with learning experiences within the United States outside of Kent State University.
Prerequisite: Graduate standing.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter

PACS 54040 NEGOTIATION 3 Credit Hours
(Slashed with PACS 44040) Effective negotiation skills are essential for success in both our professional and personal lives. This course explores in an engaging and interactive way negotiation theories, strategies and techniques. Students will enhance their negotiation skills by learning to plan for an effective negotiation, to elicit information effectively, to build relationships, to improve their communication and persuasive abilities and to deal with a variety of situations and circumstances. There will be several opportunities to practice negotiation skills in class, to experiment with different approaches, and to develop the skills and confidence to be able to negotiate effectively and constructively.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 55060 ENVIRONMENTAL JUSTICE 3 Credit Hours
(Slashed with PACS 45060) This course traces the linking of environment and social justice movements, initially in the U.S. and then internationally, to cover a range of issues that now fall under the banner of environmental justice. It includes theories of justice and environmental protection; issues and critiques of social injustices in environmental movements, including NIMBY ("not in my backyard"), climate justice and mainstream conservation; and case studies demonstrating the need and means to promote just conservation and sustainable development in a politically and economically divided world. Students learn collaborative, non-violent, decolonial approaches to environmental justice action, dialogues and policymaking.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 58080 MEDIATION: THEORY AND TRAINING 3 Credit Hours
(Slashed with PACS 48080) Provides training in mediation skills, principles and methods through cooperative, participatory, interactive, skills-building pedagogies. Students examine the historical development of mediation and the uses of mediation in various contexts including family, business, labor-management, civil, community, and workplace disputes.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 59091 VARIABLE CONTENT SEMINAR IN PEACE AND CONFLICT STUDIES 1-3 Credit Hours
(Slashed with PACS 49091) (Repeatable for maximum of 3 credit hours) Seminar devoted to detailed study of various topics in the field of peace and conflict studies. Specific topics are announced in schedule of classes and on the School of Peace and Conflict Studies website.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PACS 60000 FOUNDATIONS OF CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours
(Cross-listed with POL 60901)(Slashed with POL 70901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60001 ADVANCED NEGOTIATION 3 Credit Hours
Conflict and negotiation are normal and unavoidable parts of life. This course goes beyond basic negation concepts like principled negotiation, focusing on topics including the psychology of negotiation, power, international relations, technology and other advanced topics. We cover issues of information asymmetry; power; ethics; and multi-party, iterative and collaborative negotiations. We use research in negotiation and research on prior case studies to illustrate topics. This course is highly interactive, focusing on experiential learning and education. Evaluation of performance includes experiential exams, reflection papers and written understanding and analysis of real-world negotiations. Simulations and games are used in class frequently to illustrate concepts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60002 ADVANCED MEDIATION 3 Credit Hours
This course provides students with a conceptual understanding of mediation as well as practical mediation skills. It enables them to work as intermediaries who can assist conflict parties to reflect on the sources and dynamics of their conflict; develop mutually acceptable solutions and foster constructive, sustainable relationships. The course starts with essential concepts and skills for mediating small-scale interpersonal conflicts. It then addresses more complex inter-group, multiparty conflicts as well as deep-rooted structural conflicts. Through class discussions on readings and simulation exercises, students tackle questions such as how to work on conflicts in which there are many competing issues, goals and priorities involved; how to mediate enduring, intractable conflicts over identity, value and social structure; and how to respond to serious ethical dilemmas and power asymmetry. To meet these challenges, students not only critique the popularized framework of interest-based principled negotiation/mediation, but also develop holistic, creative third-party contributions to systemic social change.
Prerequisite: PACS 60000; and PACS 60001; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60003 COMMUNITY-BASED CONFLICT TRANSFORMATION 3 Credit Hours
This course is designed to expand your knowledge of and practice competency in group and community level dynamics and peacebuilding techniques, giving you the skills and knowledge to turn divisive situations into strengthened and connected communities. The course begins by introducing theories of group processes, engagement and peace building. It then focuses on using case studies and experiential learning to master the skills and understand the applications of group and community peace building techniques. Case studies range across the areas of education, democracy, leadership, restorative justice, community conflict resolution and institutional change. Examples of topics include: theories of group process, engagement, participation, efficacy, dynamics and contact; community conflict resolution process such as inter-group dialogue and race dialogue; institutional change and strategic planning including evaluation and intervention for institutions, facilitation, stakeholder identification, planning, best practices and consensus decision making, ground rules, fishbowls and debriefs; and democracy and restorative justice practices including deliberative democracy, circle process and alternatives to violence project (AVP). The final course project involves students in applying these skills in partnership with a local community organization, group or neighborhood to address a community need or conflict. This class is taught in a flipped format.
Prerequisite: Graduate standing.
Corequisite: PACS 60000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60004 ORGANIZATIONAL CONFLICT AND COOPERATION 3 Credit Hours
This course examines organizational conflict, cooperation and partnership. Whether volunteering with a community-based organization, managing a team in a highly bureaucratized institution, joining a student group or organizing a coalition, navigating organizational dynamics (culture) and building and managing collaborations and partnerships are challenging tasks that require understanding differences, coping with power relations and transforming conflicts. In this class, we explore types of organizational interactions, nature and source of organizational conflict, organizational culture and collaboration, power dynamics, decision making and problem solving in organizations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60005 PEACE, CONFLICT AND DEVELOPMENT: LOCAL-GLOBAL DYNAMICS 3 Credit Hours
This course explores the relationships between peace, conflict and development. It covers key concepts, theories and approaches to understanding and addressing the nexus between peace, conflict and development. Students critically review relevant theoretical and policy literature and apply them to real-world case studies as part of participatory skill-building exercises. The course starts with an overview of essential development theories, models and actors in development practice. It examines relevant scholarly and policy debates on conflict-development links; the political economy of conflict and (uneven) development; relevant security issues (e.g., small arms proliferation, disarmament, demobilization and reintegration (DDR), security sector reform (SSR)); the relationships between natural resources, livelihoods and conflict; the roles of gender and youth in conflict and development; measures of effective development in conflict-affected societies; and development alternatives, as well as emerging critical debates on alternatives to development.
Prerequisite: Graduate standing.
Corequisite: PACS 60000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60006 POST-CONFLICT PEACEBUILDING 3 Credit Hours
Throughout the course of the past decade, peacebuilding has become the concept du jour of not only the field of conflict resolution and peace studies, but of the larger fields of international relations, development studies, transitional justice and a host of other subfields and portions of area studies. This is partly due to the fact that peacebuilding has become somewhat of a monster, enveloping and consuming different approaches to conflict resolution, international relations and development studies to the point that almost any activity addressing those involved or suffering from conflicts can be included under its umbrella. However, given that the concept was originally coined to help address the tasks necessary to implement peace, this class largely, though not wholly, focuses on post-conflict peacebuilding and how different actors at different levels have roles to play in achieving sustainable peace in communities and regions and within states. We examine the concepts that make up peacebuilding, the manners in which peacebuilding efforts have been implemented by actors at multiple levels and the problems associated with dominant approaches to the topic.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60007 PRAXIS IN CONFLICT-SENSITIVE DEVELOPMENT 3 Credit Hours
This course enables students to build the practical skills necessary to advance socially responsible and sustainable development across conflict-affected societies and regions. A key concept explored throughout the course is conflict sensitivity - a sustained, iterative process of analyzing social conflict as a context of development work; understanding the interactions between the context and the development intervention; and making use of the understanding to maximize positive program impacts and minimize negative impacts. Students apply a range of theories to skill-building exercises in order to learn how to practice conflict-sensitive development. Through these experiential exercises, students think through the entirety of the development program cycle - from needs assessment to proposal development, fundraising, program implementation, capacity building, report writing, monitoring and evaluation and project phase-out. In each of these steps, students examine how to practice cultural sensitivity, stakeholder inclusion, local ownership and sustainability in a context-specific, adaptive manner. Case studies highlight essential themes selected from the Sustainable Development Goals (SDGs), a United Nations-sponsored list of 17 development goals such as poverty alleviation, food security, health, education, gender equity and climate change action. The course also opens dialogue on how to go beyond the conventional framework of conflict-sensitivity to realize conflict-transformative development.
Prerequisite: PACS 60000; and graduate standing.
Pre/corequisite: PACS 60005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60009 LEADERSHIP FOR PEACEFUL CHANGE 3 Credit Hours
This course introduces a series of group discussions and experiential learning exercises designed to enable students to critically reflect on the lessons from their preceding coursework, gain additional practitioner skills and prepare for a career in the field. The experiential learning exercises include a multi-stakeholder simulation in which student teams make use of their skills to examine and address the complexity of real-world challenges. The themes explored throughout the seminar are: (1) collaborative, inclusive and ethical leadership capable of empowering people and groups to realize peaceful social change, (2) crisis management of unexpected events and security challenges, (3) integrative thinking to draw upon diverse theories, methods and skills, (4) the ability to develop theory-informed practices and advance theories derived from practical experiences to demonstrate adaptive leadership, and (5) illustrative examples of, perspectives on and planning for career development, life-work balance and self-care, all of which are essential for building successful careers in the field.
Prerequisite: PACS 60000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60020 IDENTITY DRIVEN CONFLICTS 3 Credit Hours
(Cross-listed with POL 60903)(Slashed with POL 70903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.
Prerequisite: Graduate standing.
Pre/corequisite: PACS 60000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60021 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours
(Cross-listed with POL 60902)(Slashed with POL 70902) Examines power disparities and gender as sources of conflict in multiple arenas —including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphases is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60022 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours
(Cross-listed with POL 60904)(Slashed with POL 70904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60023 PEACE PSYCHOLOGY 3 Credit Hours
This course provides students with an introduction to the concepts of peace psychology and how these concepts relate to wider themes in the peace and conflict studies field, including positive and negative peace, conflict resolution and reconciliation. During the course, students investigate the micro-level psychological foundations for peace and conflict (e.g., power and emotions) and group and national level dynamics. In each class, a variety of psychological approaches, from neuroscience to political psychology, are discussed. This course is highly interactive, focusing on experiential learning and education. This means students should be prepared to participate in discussions, simulations and presentations. Collaborative work and case studies help students develop their ability to apply and assess peace psychology theories. Students also have opportunities to personalize the course content and assignments to support their learning and research interests.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60024 VISUAL METHODS FOR PEACE AND CHANGE 3 Credit Hours
Visual methods are critically important in making and understanding democratic peaceful change. This course explores three intersecting bodies of knowledge: methods and practices in visual studies, global approaches to film as a means of social change, and theories and approaches to peace and conflict studies. A focus is on interdisciplinary scholarly methods for understanding visual materials.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60040 FACILITATION AND TRAINING: DESIGN AND PRACTICE 3 Credit Hours
This course is designed to teach fundamental practices of peace building in group settings. This includes learning how to facilitate meetings; set agendas; de-escalate and facilitate group level conversations; run trainings in conflict management and build other practical, hands-on skills. All skills in this course are transferrable across a variety of careers and situations. This course incorporates experiential learning both inside and outside the classroom, with students taking the lead in facilitating class discussions and joining in community projects.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60041 PEACE EDUCATION 3 Credit Hours
This class explores the interdisciplinary concepts, theories and practices that provide a global overview of peace education. The course offers an overview of the history, scholarship and practices of peace education, addressing a variety of international structures, organizations and individuals engaged in its practice. A range of concerns are investigated, including war; genocide; climate change; economic disparities and the marginalization of minorities based upon race, ethnicity, gender, sexual orientation, gender identity, religious affiliation, culture and other categories of difference. Theories of positive peace, conflict resolution, restorative justice, liberation pedagogy and experiential education are also introduced.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

PACS 60042 PUBLIC SECTOR CONFLICT TRANSFORMATION 3 Credit Hours
This course examines the many ways that conflict and decision-making are made in the public sector. Some methods of public interaction and decision-making are familiar and well-studied. Others are less so, despite their increasing use in a variety of policy domains and other circumstances. Such is the case with conflict resolution, which is now broadly used across the United States and internationally on multiple levels and by multiple groups with differing aims. This course explores the varied applications in public policy of conflict resolution principles, including negotiated rule making, public sector dispute resolution, mediation, collaborative problem solving, democratic governance, community-based planning and consensus building.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60070 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours
(Cross-listed with POL 60507)(Slashed with POL 70507) Throughout the past 30 years, many states and societies have negotiated complicated transitions from authoritarianism, widespread human rights violations and intractable civil conflict toward various degrees of justice, truth-telling, reconciliation and democracy. Some have done it well and some have not; policy certainly matters in this politically potent arena. For example, political memory and accountability may be swept under the public rug—doing so may, or may not, trip up an experiment in democracy. Alternatively, truth-telling and justice may, or may not, be a springboard for reconciliation, healing and citizen empowerment. In this course, we focus on the policies and mechanisms used to constructively confront impunity and come to terms with past horrors. We analyze various international institutions like war crimes tribunals and truth commissions and various local mechanisms like Rwanda's Gacaca courts. We also study the differing roles of reparations paid to victims for past injustices, amnesties granted to former government officials, immunity being traded for truth-telling about the past and the impacts of commemoration and memorialization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60071 SOCIETY TECHNOLOGY AND SECURITY 3 Credit Hours
This course engages with current debates on the relationship between society, technology, peace and security, focusing particularly on military and dual-use technologies. The course begins by analyzing the literature on how technology shapes societies and how societies shape technology. This includes consideration of the way societies influence the emergence and application of particular technologies and the way understandings of military technological categories (e.g., pariah weapons, precision weapons) have been socially constructed. The module then examines how states and societies have responded to the policy and governance challenges presented by the development and trade in established weapons categories. This includes analysis of the history of disarmament initiatives, movements and agreements as well as the new field of 'humanitarian disarmament'. It also includes examination of recent initiatives aimed at limiting weapons proliferation and armed violence in conflict-ridden societies. The remainder of the course is devoted to exploring the legal, normative and policy debates over the use of modern and emerging technologies. This includes examination of the governance implications of new developments in fields such as biotechnology, nanotechnology, cyber-warfare and drones.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60072 ENVIRONMENTAL CHANGE AND CONFLICT 3 Credit Hours
This course examines the varied theoretical and policy challenges involved in addressing the intersection between changes in the environment; the governance and sustainability of natural resources and ecosystems; and the prevention, management and resolution of conflict. It traces the history and development of environmental security and environmental peacebuilding, building a solid foundation in key theories, terminology and concepts, such as the relationship between natural resources and conflict (including scarcity vs. abundance, access and governance); the redefinition of security and securitization of the environment; slow- vs. sudden-onset climate change and displacement; and environmental cooperation in peacekeeping, peacemaking, peacebuilding and contemporary conflict resolution. Students have a working knowledge of important international laws and policies governing the protection of the environment in relation to armed conflict and engage in critical discussions at the intersection of conflict issues and trends in environmental change, such as green militarization and small arms proliferation, environmental crimes and surveillance, fortress conservation and conservation conflicts, the role of gender and youth, human rights and environmental defenders, climate justice and conflict-sensitive climate adaptation. Students apply the knowledge and skills developed in the course to the development of environmental security assessments, peace and conflict impact assessments and foresight analyses.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PACS 60099 INTERVENTION DESIGN AND IMPLEMENTATION IN PEACE AND CONFLICT STUDIES 6 Credit Hours
This course provides students with an experiential opportunity to integrate theoretical and classroom work with conflict analysis and intervention work in a variety of real-world projects. Each session provides students the opportunity to work on a project where they will engage in intervention design, planning and research and practice implementation activities under faculty guidance.
Prerequisite: PACS 60000 and POL 60010; and graduate standing.
Corequisite: PACS 60009.
Schedule Type: Project or Capstone
Contact Hours: 6 other
Grade Mode: Standard Letter

PACS 60192 INTERNSHIP IN PEACE AND CONFLICT STUDIES 3-6 Credit Hours
(Repeatable for credit) Students work as interns with an organization, group or business, utilizing and enhancing their skills in applied peace studies. The student also typically provides a journal of the experience, as well as a written analysis comparing the practice of the internship to an example of recent scholarship in the field.
Prerequisite: PACS 60000 and PACS 60001; and graduate standing; and special approval.
Corequisite: PACS 60009.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Standard Letter-IP

PACS 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 credit hours, 2 to 6 in a single semester, distributed over several semesters if desired.
Prerequisite: Graduate standing.
Pre/corequisite: PACS 60001 and POL 60010.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PACS 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis II students must continue registration each semester until all degree requirements are met.
Prerequisite: PACS 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Environment, Peace and Justice - Minor

College of Arts and Sciences
School of Peace and Conflict Studies
www.kent.edu/spcs

About This Program

The Environment, Peace and Justice minor provides a unique perspective on critical issues facing our world today and equips you with the knowledge and skills needed to promote environmental sustainability and social justice. Enroll now and make a difference in your community and the world. Read more...

Contact Information

- **Karen Cunningham** | kcunning@kent.edu | 330-672-8943
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ENVS 22070	NATURE AND SOCIETY (KSS)	3
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	3
PACS 35050	ENVIRONMENTAL CONFLICT RESOLUTION	3
PACS 45060	ENVIRONMENTAL JUSTICE	3
Minor Electives, choose from the following:		9
AFS 47122	SEMINAR IN ACTIVISM AND SOCIAL CHANGE	
ANTH 48220	CULTURAL ECOLOGY AND SUSTAINABILITY	
ENVS 46092	INTERNSHIP IN ENVIRONMENTAL STUDIES (ELR) [1]	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 41077	WATER AND SOCIETY	
GEOG 41800	GLOBAL ENVIRONMENTAL ISSUES	
GEOG 46060	FOOD SECURITY AND SUSTAINABILITY	
MGMT 44009	THE BUSINESS CASE FOR SUSTAINABILITY	
PACS 31003	NONVIOLENCE: THEORY AND PRACTICE	
PACS 35092	INTERNSHIP IN PEACE AND CONFLICT STUDIES (ELR) [1]	
PACS 40089	INTERNATIONAL EXPERIENCE: PEACE AND CONFLICT STUDIES (DIVG) (ELR) [1]	
PACS 40090	STUDY AWAY: PEACE AND CONFLICT STUDIES (ELR) [1]	
PHIL 30025	ENVIRONMENTAL PHILOSOPHY (ELR)	
PHIL 31035	PHILOSOPHY AND JUSTICE (DIVD)	
POL 40440	U.S. ENVIRONMENTAL POLITICS AND POLICIES	
POL 40560	HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG)	
POL 40620	POLITICS OF SOCIAL MOVEMENTS (DIVD)	
SOC 42565	ENVIRONMENTAL SOCIOLOGY	
Minimum Total Credit Hours:		**21**

[1] Maximum 3 credit hours of one of the following experiential courses may be applied toward minor electives: ENVS 46092, PACS 35092, PACS 40089, PACS 40090, if related to environment, peace and justice and approved by coordinator.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Engage with interdisciplinary and critical theory, concepts and case studies to understand a variety of issues and underlying challenges to protecting the environment, peace and justice.
2. Demonstrate knowledge through the ability to connect, analyze and communicate a wide range of social justice issues and challenges with the environment and peace.
3. Identify or propose peaceful or nonviolent approaches that comprehensively address environmental problems and social and ecological injustices.

Full Description

The Environment, Peace and Justice minor meets a number of different goals, responding to students' interests and the growing need to prepare them with the conceptual and theoretical foundations and applied skills to address challenges to both peace and the environment in tandem.

Challenges to both peace and the environment are often deeply interrelated, with one impacting the other and feeding back. For example, where environmental degradation unevenly impacts already-marginalized communities and becomes a source of conflict, or when the breakdown of peace due to historical or protracted injustice impacts the environment and our ability to protect it in nonviolent ways. Globally, justice is a well-recognized pillar of both sustainable development and sustainable peace, emphasizing that these challenges need to be met in integrated ways.

The program emphasizes an interdisciplinary approach by drawing on relevant courses offered through different departments to offer a minor that can complement a range of majors.

Peace and Conflict Studies - B.A.

College of Arts and Sciences
School of Peace and Conflict Studies
www.kent.edu/spcs

About This Program

Make a difference in the world with Kent State's Bachelor of Arts in Peace and Conflict Studies. Our program explores issues of peace and conflict from interdisciplinary perspectives, empowering you to become a positive force for change in your community and beyond. Enroll now and become a peacebuilder. Read more...

Contact Information

- **R. Neil Cooper** | cooper@kent.edu | 330-672-8940
- **Karen Cunningham** | kcunning@kent.edu | 330-672-8943
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Arbitrators, mediators, and conciliators

- 7.7% faster than the average
- 7,300 number of jobs
- $66,130 potential earnings

Community and social service specialists, all other

- 11.7% much faster than the average
- 105,200 number of jobs
- $46,770 potential earnings

Lawyers

- 4.0% about as fast as the average
- 813,900 number of jobs
- $126,930 potential earnings

Human resources managers

- 6.3% faster than the average
- 165,200 number of jobs
- $121,220 potential earnings

Human resources specialists

- 7.0% faster than the average
- 666,500 number of jobs
- $63,490 potential earnings

Postsecondary teachers, all other

- 2.0% slower than the average
- 245,900 number of jobs
- $71,950 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Social scientists and related workers, all other

- 0.8% little or no change
- 38,800 number of jobs
- $87,260 potential earnings

Social workers, all other

- 5.1% faster than the average
- 62,500 number of jobs
- $64,210 potential earnings

Additional Careers

- Professionals in business or finance (purchasing/sales/management/insurance/banking/financial advising)
- Community organizers, activists, and social justice advocates
- Corporate social responsibility and donor relations specialists
- Diplomats and peacemakers
- Humanitarian aid and development workers
- Law enforcement officers
- Transitional justice practitioners
- Government officials and public servants
- Ministers and clergy

Careers Requiring Additional Education

- Lawyers
- Social workers, all other
- Postsecondary teachers, all other
- Social scientists and related workers, all other

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	3
PACS 31002	GENDER, POWER AND CONFLICT	3
PACS 31003	NONVIOLENCE: THEORY AND PRACTICE	3
PACS 31010	CONFLICT THEORY	3
PACS 32030	INTERNATIONAL CONFLICT RESOLUTION (DIVG)	3
PACS 35092	INTERNSHIP IN PEACE AND CONFLICT STUDIES (ELR) [1,2]	3
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC) [3]	3
PACS 48080	MEDIATION: THEORY AND TRAINING	3
Major Electives, choose from the following: [2]		9
PACS 30000	MAY 4 1970 AND ITS AFTERMATH	
PACS 32020	STRATEGIC PLANNING	
PACS 32040	CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG)	
PACS 33030	CONFLICT IN THE WORKPLACE	
PACS 34010	CAREER PATHWAYS IN PEACE AND CONFLICT STUDIES	
PACS 35050	ENVIRONMENTAL CONFLICT RESOLUTION	
PACS 35095	SPECIAL TOPICS IN PEACE AND CONFLICT STUDIES	
PACS 40089	INTERNATIONAL EXPERIENCE: PEACE AND CONFLICT STUDIES (DIVG) (ELR)	
PACS 40090	STUDY AWAY: PEACE AND CONFLICT STUDIES (ELR)	
PACS 44040	NEGOTIATION	
PACS 45050	COMMUNITY ORGANIZING: PEOPLE, POWER AND PEACEFUL CHANGE	
PACS 49091	VARIABLE CONTENT SEMINAR IN PEACE AND CONFLICT STUDIES	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)		10-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		43
Minimum Total Credit Hours:		**120**

1 Maximum 3 credit hours of PACS 35092 may count toward the major. Students may enroll in 1-9 additional credit hours, which can count toward upper-division credit hours.

2 Students who have completed the Columbus Program in State Issues or Washington Program in National Issues (total 15 credit hours for POL 41990 or POL 42990, respectively) may substitute 3 credit hours for PACS 35092 and 6 credit hours for major electives. The remaining 6 credit hours may be used to fulfill the upper-division requirement and/or as course substitutions for required courses. Course substitutions

will be considered on a case-by-case basis in consultation with a program faculty advisor.

[3] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete the following:

1. Elementary I and II of any language (or equivalent) **and**
2. One of the following options:
   a. Intermediate I and II of the same language
   b. Elementary I and II of a second language
   c. Any combination of two courses from the following list:
      i. Intermediate I of the same language
      ii. One to two college-level course(s) completed outside the United States
      iii. Courses: ARAB 21401, ASL 19401, CHIN 25421, MCLS 10001, MCLS 20001, MCLS 20091, MCLS 21417, MCLS 21420, MCLS 22217, MCLS 28403, MCLS 28404

All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer courses. This may be accomplished in one of three ways:

1. Passing a course beyond Elementary I through Intermediate II level
2. Receiving credit through one of the alternative credit programs offered by Kent State University
3. Demonstrating language proficiency comparable to Elementary II of a foreign language

Certain programs may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need a particular language proficiency.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10001	FLASHES 101	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**13**
Semester Three		
Foreign Language and/or General Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	3
Foreign Language and/or General Elective		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Five		
PACS 31002	GENDER, POWER AND CONFLICT	3
PACS 31010	CONFLICT THEORY	3
PACS 32030	INTERNATIONAL CONFLICT RESOLUTION (DIVG)	3
General Electives		6
	Credit Hours	**15**
Semester Six		
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC)	3
PACS 48080	MEDIATION: THEORY AND TRAINING	3
Major Elective		3
General Electives		6
	Credit Hours	**15**
Third Summer Term		
PACS 35092	INTERNSHIP IN PEACE AND CONFLICT STUDIES (ELR)	3
	Credit Hours	**3**
Semester Seven		
PACS 31003	NONVIOLENCE: THEORY AND PRACTICE	3
Major Elective		3
General Electives		9
	Credit Hours	**15**
Semester Eight		
Major Elective		3
General Electives		12
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses

Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the research and analytical skills that will be useful while working in the field of peace studies and conflict management.
2. Analyze the dynamics of social conflicts and apply the principles of nonviolent theory and practice in order to wage conflict constructively to bring about social or political change.
3. Utilize conflict management and peace-building skills and knowledge to effectively develop, teach and/or implement approaches to preventing, managing and resolving conflicts.
4. Demonstrate an ability to identify and analyze the cultural dimensions of conflicts and conflict management.
5. Describe and interpret the roles that gendered power dynamics play in conflicts and conflict management.
6. Demonstrate a broad grounding in the field of peace and conflict studies by being able to explain the historical evolution of the field, by identifying and analyzing a full range of conflict dynamics and by designing constructive and appropriate intervention tactics and strategies.
7. Demonstrate an ability to explain the main theories on causes, expression and consequences of international conflicts, and comparatively evaluate different mechanisms of prevention, management and resolution of international conflicts.

Program Policies

Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

Full Description

The Bachelor of Arts degree in Peace and Conflict Studies prepares students for careers or graduate study in the field of conflict management, peace studies and dispute resolution. This major gives students a solid background in managing conflicts in constructive, not destructive, ways. Students learn skills that are not only useful in a variety of workplace settings, but in everyday life and relationships as well.

Program areas of focus include mediation, negotiation, environmental conflict resolution, international conflict resolution, workplace conflict management, nonviolent action and community organizing. As this is an applied program, students learn skills and build professional networks through the internship, which can be completed in a wide variety of contexts.

Students may apply early to the M.A. degree in Peace and Conflict Studies and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Peace and Conflict Studies - M.A.

College of Arts and Sciences
Department of Peace and Conflict Studies
www.kent.edu/spcs

About This Program

The Peace and Conflict Studies M.A. program covers topics such as conflict resolution, social justice, human rights and nonviolent communication. With experienced faculty and practical experiences, you will gain the knowledge and skills to become a leader in promoting peaceful conflict resolution in local and global communities. Read more...

Contact Information

- **Landon Hancock** | lhancoc2@kent.edu | 330-672-0904
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Arbitrators, mediators, and conciliators

- 7.7% faster than the average
- 7,300 number of jobs
- $66,130 potential earnings

Human resources managers

- 6.3% faster than the average
- 165,200 number of jobs
- $121,220 potential earnings

Human resources specialists

- 7.0% faster than the average
- 666,500 number of jobs
- $63,490 potential earnings

Additional Careers

- Intergovernmental or international governmental officer
- International humanitarian and relief specialist
- International project management and development specialist

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree in peace studies or related discipline from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale[1]
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement highlighting relevant professional experience and academic background
- Writing sample
- Two letters of recommendation from professional or academic evaluators
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Admission to the program is competitive and selective. Applicants will be reviewed holistically, by the school's graduate coordinator, who may conduct interviews with select candidates to ensure qualifications and fit with the program. The coordinator will render admission decisions after consultations with the faculty and school director.

[1] Applicants who do not meet the GPA criteria but have extensive experience in the peace-building field are encouraged to apply. They may be conditionally admitted if all other admission requirements are met. After earning a 3.000 GPA in their first semester, they will be considered fully admitted.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: April 1 (international student) and May 1 (domestic student)

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
PACS 60000	FOUNDATIONS OF CONFLICT ANALYSIS AND MANAGEMENT	3
PACS 60001	ADVANCED NEGOTIATION	3
PACS 60009	LEADERSHIP FOR PEACEFUL CHANGE	3
POL 60010	QUALITATIVE RESEARCH METHODS [1]	3
Major Elective, choose from the following:		3-6
PACS 50089	INTERNATIONAL EXPERIENCE: PEACE AND CONFLICT STUDIES	
PACS 50090	STUDY AWAY: PEACE AND CONFLICT STUDIES	
PACS 59091	VARIABLE CONTENT SEMINAR IN PEACE AND CONFLICT STUDIES	
PACS 60020	IDENTITY DRIVEN CONFLICTS	
PACS 60021	POWER, CONFLICT AND THE POLITICS OF GENDER	
PACS 60022	SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS	
PACS 60023	PEACE PSYCHOLOGY	
PACS 60024	VISUAL METHODS FOR PEACE AND CHANGE	
Culminating Requirement		
Choose from the following:		3-6
PACS 60099	INTERVENTION DESIGN AND IMPLEMENTATION IN PEACE AND CONFLICT STUDIES	
PACS 60192	INTERNSHIP IN PEACE AND CONFLICT STUDIES	
PACS 60199	THESIS I	
Concentrations		
Choose from the following:		15

Applied Conflict Transformation	
Peace, Conflict and Development	
Minimum Total Credit Hours:	**36**

[1] If POL 60010 is not available, students may substitute COMM 65040, GEOG 60900, RMS 65516, SBS 63010 or SOC 62219 with faculty approval.

Applied Conflict Transformation Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
PACS 60002	ADVANCED MEDIATION [1]	3
PACS 60003	COMMUNITY-BASED CONFLICT TRANSFORMATION	3
PACS 60004	ORGANIZATIONAL CONFLICT AND COOPERATION	3
Concentration Electives, choose from the following:		6
AFS 53100	RACE, CLASS AND FEMINIST THOUGHT	
AFS 57100	RACE, GENDER AND SOCIAL JUSTICE	
AFS 57122	SEMINAR IN ACTIVISM AND SOCIAL CHANGE	
CRIM 57003	RESTORATIVE JUSTICE AND VICTIM ASSISTANCE	
PACS 60040	FACILITATION AND TRAINING: DESIGN AND PRACTICE	
PACS 60041	PEACE EDUCATION	
PACS 60042	PUBLIC SECTOR CONFLICT TRANSFORMATION	
POL 60106	URBAN POLICY AND POLITICS	
Minimum Total Credit Hours:		**15**

[1] Students who matriculate into the program without requisite mediation experience will take PACS 58080.

Peace, Conflict and Development Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
PACS 60005	PEACE, CONFLICT AND DEVELOPMENT: LOCAL-GLOBAL DYNAMICS	3
PACS 60006	POST-CONFLICT PEACEBUILDING	3
PACS 60007	PRAXIS IN CONFLICT-SENSITIVE DEVELOPMENT	3
Concentration Electives, choose from the following:		6
GEOG 51077	WATER AND SOCIETY	
GEOG 54010	GEOGRAPHIES OF GLOBAL DEVELOPMENT	
PACS 60070	CONFLICT TRANSFORMATION AND RECONCILIATION	
PACS 60071	SOCIETY TECHNOLOGY AND SECURITY	
PACS 60072	ENVIRONMENTAL CHANGE AND CONFLICT	
POL 60502	GLOBAL GOVERNANCE	
POL 60510	POLITICS OF DEVELOPMENT	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze and apply key theories, concepts and policies relevant to the field of peace and conflict studies, in general and in their specific concentrations.
2. Synthesize the interplay of conflict sources at different levels of analyses (from interpersonal to structural) with the dynamics relevant to all conflict situations.
3. Analyze and apply appropriate intervention practices for successful conflict resolution or transformation at relevant levels of conflict.
4. Describe and evaluate the key role that leadership plays in conflict intervention and crisis management.
5. Integrate and apply learning from across the program to real-world situations.
6. Apply knowledge about the field to develop personally tailored career plans.

Dual Degree with Master of Business Administration

Students have the opportunity to complete a dual degree program with the M.A. degree in Peace and Conflict Studies and the Master of Business Administration degree. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The M.B.A./M.A. dual degree converges the field of conflict management and the field of business. Students learn how business works alongside understanding the dynamics of conflict and how to successfully transform it to succeed in business and to transform organizational cultures.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2

HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	0-1
MKTG 65051	MARKETING MANAGEMENT	2
PACS 60000	FOUNDATIONS OF CONFLICT ANALYSIS AND MANAGEMENT	3
PACS 60001	ADVANCED NEGOTIATION	3
PACS 60002	ADVANCED MEDIATION	3
PACS 60003	COMMUNITY-BASED CONFLICT TRANSFORMATION	3
PACS 60004	ORGANIZATIONAL CONFLICT AND COOPERATION	3
PACS 60009	LEADERSHIP FOR PEACEFUL CHANGE	3
POL 60010	QUALITATIVE RESEARCH METHODS	3
Ambassador Crawford College of Business and Entrepreneurship Graduate-level Electives		3
Peace and Conflict Studies Electives, choose from the following:		3-6
PACS 50089	INTERNATIONAL EXPERIENCE: PEACE AND CONFLICT STUDIES	
PACS 50090	STUDY AWAY: PEACE AND CONFLICT STUDIES	
PACS 59091	VARIABLE CONTENT SEMINAR IN PEACE AND CONFLICT STUDIES	
PACS 60020	IDENTITY DRIVEN CONFLICTS	
PACS 60021	POWER, CONFLICT AND THE POLITICS OF GENDER	
PACS 60022	SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS	
PACS 60023	PEACE PSYCHOLOGY	
PACS 60024	VISUAL METHODS FOR PEACE AND CHANGE	
Culminating Requirement		
PACS 60099	INTERVENTION DESIGN AND IMPLEMENTATION IN PEACE AND CONFLICT STUDIES	3-6
or PACS 60192	INTERNSHIP IN PEACE AND CONFLICT STUDIES	
or PACS 60199	THESIS I	
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**60-61**

[1] MGMT 68051 may be waived for students with at least two years of full-time work experience.

Full Description

The Master of Arts degree in Peace and Conflict Studies is designed for students interested in gaining the knowledge and practical skills necessary to become a professional peace practitioner, one who is equipped to promote peaceful change and social justice whether in the local community, across the country or at the international level.

Students have the opportunity to learn at the School of Peace and Conflict Studies, Kent State's 'living memorial' to the four students killed on May 4, 1970, and one of the oldest and most well-known institutions for the study of peace and conflict. Students work with faculty who are leading experts in their field and with students from all over the world — all of whom are dedicated to building peaceful local communities, societies and states in a time of increasing incivility, rancor and conflict.

In the program, students examine the causes and consequences of violence; develop methods for preventing, resolving and transforming conflicts; and critically analyze the values and institutions of peace. Students study relevant academic and policy literature and develop an advanced understanding of the field. Above all, however, they embark on a multidisciplinary program with a strong focus on experiential learning, the development of advanced skills relevant to the field (e.g., mediation, conflict analysis, project management), training in leadership and career planning for future employment, whether as a peace practitioner or researcher.

Through the school's partnership with the Center for Conflict Management at the University of Rwanda, students have the opportunity to undertake a study abroad course in Africa to examine both how the country has responded to the challenges of post-genocide reconstruction, and how it is addressing contemporary environmental challenges.

The Peace and Conflict Studies comprises two concentrations:

- The **Applied Conflict Transformation** concentration focuses on the domestic dynamics of peace, including human relations, organizational conflict and conflict resolution, group and community conflict transformation. Students specialize in a wide range of electives (e.g., peace psychology, public sector conflict transformation, peace education). This concentration provides students with knowledge and applied skills necessary to pursue a career in fields such as mediation, arbitration and dispute resolution; in the service and social and community service sector; or in roles in businesses, non-profits and government entities that requires skills of mediation and conflict resolution (e.g., human resources).
- The **Peace, Conflict and Development** concentration explores the intersection between peace, conflict and development in fragile or insecure states and societies around the world. Students examine policy and practice in the fields of international conflict prevention, international peacekeeping, post-conflict peace-building, sustainable development and good governance. Students specialize in a wide range of electives, including on issues such as environmental change and conflict, reconciliation after conflict and the global governance of military technologies. This concentration is designed to appeal to those students wishing to obtain work in fields and organizations dealing with the local and international dimensions of peace, conflict and development in the global south, including governments, international organizations, international development and humanitarian-relief non-governmental organizations (NGO).

College of Communication and Information

College of Communication and Information
318 University Library
Kent Campus
330-672-2950
cci@kent.edu
www.kent.edu/cci

Departments and Schools

- School of Communication Studies
- School of Emerging Media and Technology
- School of Information

- School of Media and Journalism
- School of Visual Communication Design

Undergraduate Programs

- Advertising - B.S.
- Applied Media - B.A.
- Communication Studies - B.A.
- Digital Media Production - B.S.
- Emerging Media and Technology - B.S.
- Journalism - B.S.
- Photography - B.F.A.
- Public Relations - B.S.
- User Experience Design - B.S.
- Visual Communication Design - B.A.
- Visual Communication Design - B.F.A.

Minors

- Advertising
- Applied Data and Information
- Broadcast Engineering Technology
- Communication Studies
- Design
- Digital Media Production
- Fashion Media
- Journalism
- Media Advocacy
- Photography
- Photojournalism
- Public Relations
- User Experience Design
- Web Design and Development

Graduate Programs

- Communication and Information - Ph.D.
- Communication Studies - M.A.
- Emerging Media and Technology - M.S.
- Health Informatics - M.S.
- Knowledge Management - M.S.
- Library and Information Science - M.L.I.S.
- Journalism Education - M.A.
- School Library Media K-12 - M.L.I.S.
- School Library Media Licensure (Non-Degree)
- User Experience - M.S.
- Visual Communication Design - M.A.
- Visual Communication Design - M.F.A.

Graduate Certificates

- Communication and Advocacy
- Health Informatics
- Journalism Education
- Knowledge Management
- Medical Librarianship

Transfer Students to the School of Media and Journalism

Students transferring credit from another institution may apply a maximum of 12 credit hours of transfer coursework toward their major requirements per the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC) accreditation guidelines.

College of Communication and Information Faculty

School of Communication Studies Faculty

- Beam, Michael A. (2014), Associate Professor, Ph.D., The Ohio State University, 2012
- Bentley, Laurie S. (1994), Senior Lecturer, M.A., Kent State University, 1996
- Bihn-Coss, Ginger F. (2014), Associate Professor, Ph.D., Bowling Green State University, 2003
- Cai, Bei (2002), Associate Professor, Ph.D., Bowling Green State University, 2002
- Compton, Cristin (2017), Associate Professor, Ph.D., University of Missouri-Columbia, 2016
- Dillon, Patrick J. (2016), Associate Professor, Ph.D., University of South Florida, 2013
- Egbert-Scheibelhoffer, Nichole L. (2000), Professor, Ph.D., University of Georgia, 2000
- Goodall, Catherine E. (2009), Associate Professor, Ph.D., Ohio State University, 2009
- Haridakis, Paul M. (1996), Professor, Ph.D., Kent State University, 2000
- Hollenbaugh, Erin E. (2003), Professor, Ph.D., Kent State University, 2008
- Kaptan, Yesim (2016), Associate Professor, Ph.D., Indiana University, 2010
- Lin, Mei-Chen (2003), Professor, Ph.D., University of Kansas, 2003
- Maguire, Aaron E. (2015), Senior Lecturer, M.A., University of Delaware, 1999
- McCullough, Jennifer L. (2010), Associate Professor, Ph.D., Ohio State University, 2007
- Ponder, James D. (2007), Associate Professor, Ph.D., Kent State University, 2012
- Sharma, Rekha (2000), Associate Professor, Ph.D., Kent State University, 2017
- Silva, David E. (2019), Assistant Professor, Ph.D., Washington State University, 2019
- Smith, Stephanie D. (2012), Associate Lecturer, M.P.A., Harvard University, 1994
- Toumi, Ikram (2017), Associate Professor, Ph.D., University of Texas at Austin, 2016
- Waite, Lisa A. (1991), Senior Lecturer, M.A., University of Akron, 1985
- Workneh, Tewodros (2016), Associate Professor, Ph.D., University of Oregon, 2014

School of Emerging Media and Technology Faculty

- Baumgartner, Emily E. (2024), Assistant Professor, Ph.D., Kent State University, 2020

- Mis, Thomas A. (2024), Lecturer, M.S., Cleveland State University, 2012

School of Information Faculty

- Albright, Kendra S. (2016), Professor, Ph.D., University of Tennessee-Knoxville, 2002
- Boon, Belinda (2006), Professor, Ph.D., University of Texas, Austin, 2006
- Gracy, Karen F. (2007), Professor, Ph.D., University of California-Los Angeles, 2001
- Hajibayova, Lala (2014), Associate Professor, Ph.D., Indiana University, Bloomington, 2014
- Harper, Sarah M. (2001), Professor, Ph.D., Kent State University, 2003
- Martens, Marianne (2012), Professor, Ph.D., Rutgers University, 2012
- Matteson, Miriam L. (2012), Professor, Ph.D., University of Maryland, 2009
- Meehan, Rebecca A. (2012), Associate Professor, Ph.D., Case Western Reserve University, 1997
- Nichols, Mary Anne (1996), Senior Lecturer, M.L.S., Kent State University, 1993
- Salaba, Athena (1993), Professor, Ph.D., University of Wisconsin-Madison, 2005
- Smith, Catherine L. (2010), Associate Professor, Ph.D., Rutgers University, 2010
- Soyka, Heather (2017), Associate Professor, Ph.D., University of Pittsburgh, 2015
- Stahr, MaryAnn A. (1998), Assistant Professor, Ph.D., Kent State University, 2008
- Zeng, Marcia L. (1992), Professor, Ph.D., University of Pittsburgh, 1992
- Zhang, Yin (1999), Professor, Ph.D., University of Illinois-Chicago, 1999

School of Media and Journalism Faculty

- Armour, Luke L. (2012), Professor, M.A., University of Akron, 2006
- Bailey, Evan B. (2003), Professor, M.A., Kent State University, 2009
- Bobkowski, Piotr S. (2023), Professor, Ph.D., University of North Carolina-Chapel Hill, 2010
- Butler-Wall, Karisa (2019), Assistant Professor, Ph.D., University of Minnesota-Twin Cities, 2016
- Canfora, Roseann C. (2001), Assistant Professor, Ph.D., Kent State University, 2001
- Conley, Tara (2022), Assistant Professor
- Cooper, Kathryn (2022), Assistant Professor, Ph.D., The Ohio State University , 2018
- Ewing, Michele E. (2002), Professor, M.A., Kent State University, 1989
- Foster, David A. (2005), Associate Professor, M.A., Kent State University, 2014
- Hallgren, Scott W. (2016), Associate Professor, M.Mus., Seattle Film Institute, 2015
- Hoak, Gretchen J. (2015), Associate Professor, Ph.D., Kent State University, 2008
- Jackson, Michael A. (2022), Lecturer, M.S., University of Southern California, 1981
- Knoblock, Christopher (2019), Lecturer, B.A., William Paterson University, 1986
- Lambert, Cheryl Ann (2016), Associate Professor, Ph.D., University of Tennessee, 2008
- Marino, Jacqueline A. (1990), Professor, M.A., The Johns Hopkins University, 2002
- McKenney, Mitchell J. (2001), Associate Professor, M.B.A., Kent State University, 2008
- Metzgar, Emily T. (2020), Professor, Ph.D., Louisiana State University, 2008
- Moore, Stefanie A. (2001), Professor, M.S., Kent State University, 2007
- Nenque, Andrea R. (2023), Assistant Professor, Ph.D., University of North Carolina-Chapel Hill, 2023
- Reynolds, Amy L. (2015), Professor
- Rolnick-Fox, Rebecca M. (2017), Associate Professor, M.F.A., University of Southern California, 2000
- Stewart, Mizell (2023), Lecturer, M.S., Northern Kentucky University, 2015
- Tang, Tang (2018), Professor, Ph.D., Ohio University, 2008
- Wasbotten, Thor L. (2012), Professor, M.S., University of Oregon, 1995
- White, Dana (2018), Associate Professor, M.F.A., University of California, Riverside, 2015

School of Visual Communication Design Faculty

- Alenquer, Daniel P. (2019), Professor
- Barness, Jessica S. (2012), Professor, M.F.A., University of Minnesota-Twin Cities, 2012
- Coorey, Jillian S. (2010), Professor, M.F.A., University of Illinois at Chicago, 2010
- Kennedy, Jaime D. (2007), Professor, M.F.A., The Ohio State University, 2006
- Lewis, Chad A. (2017), Assistant Professor, M.F.A., Kent State University, 2016
- Middleton, David A. (1998), Professor, M.A., Kent State University, 1985
- Mooney, Aoife (2013), Associate Professor, M.F.A., Kent State University, 2023
- O'Grady Visocky , Kenneth J. (1997), Professor, M.F.A., Kent State University, 2000
- Rahmati, Hadi (2023), Assistant Professor, M.A., Tarbiat Modares University, 2011
- Rinnert, Gretchen C. (2008), Professor, M.F.A., North Carolina State University at Raleigh, 2008
- Roll, David (2015), Associate Professor, M.A., Kent State University, 2007
- Wilson, David J. (2003), Assistant Professor, M.F.A., Kent State University, 2022

College of Communication and Information

Communication and Information (CCI)

CCI 10095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION
1-3 Credit Hours

(Repeatable for credit) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CCI 12001 PHOTOGRAPHY 3 Credit Hours
This is an introductory course intended to provide a basic understanding of the photographic process as visual communication. The course will explore why humans are compelled to capture images and how our visual language has impacted society and culture. Students will learn camera controls, depth of field, composition, exposure, image correction, digital workflow and other topics through a range of photographic assignments. This course will also focus on the history, technology, ethics and art of photography.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 20001 INTRODUCTION TO MEDIA ADVOCACY 3 Credit Hours
This course examines how stories are used to create change, a process referred to as story-based strategy. Throughout the semester, students examine how organizers, advocates and social movements use stories and other activation tactics to gain media attention, pierce public apathy, reshape public opinion, and create or resist change. Using academic texts and case studies, students also critically consider how social movements use and interact with the media, the role of media in covering social movements, the benefits and risks of media coverage and the evolving line between journalism and advocacy. Students have the opportunity to analyze social change stories of their choosing, develop and present a substantive social change case study, engage in direct action for causes that matter to them and engage in collective action tactics related to a social change campaign.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 40089 BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR) 3 Credit Hours
The course will analyze the phenomenon of 'made in Italy' with a focus on fashion, food and design from a communication perspective. Students will have the chance to better understand the branding strategies effectively operating behind some of the most important Italian brands that make Italy and Italian productions fascinating and attracting for the foreign consumers and markets. The course will focus on PR, social media and advertising strategies that are central for contemporary brands and it will investigate the main strategic areas of 'made in Italy' and how they are communicated and promoted. Specific case studies will be presented and discussed in class.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 40095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CCI 50095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

CCI 40189 ITALIAN POP CULTURE (DIVG) (ELR) 3 Credit Hours
This course is aimed at investigating Italian contemporary pop culture and mediated narratives produced by the Italian media industry (with a focus on tv drama and movie narratives). While investigating media, format, genres and imageries of contemporary Italian pop culture, students will be able to immerse themselves deeper into aspects of the Italian cultural identity that inform and shape pop culture narratives such as mafia, the Catholic/religious imagery, food as well as ideals of beauty, etc. In so doing students will be able to better detect the main aspects of contemporary Italian culture as represented from the lenses of the media. The course will investigate new practices of production and consumption of media content and it will take into consideration key concepts and practices that are central to the cultural industries such as genres, format, celebrity and adaptation by presenting and discussing different media products. While focusing on the Italian case, comparisons will be made with the U.S.A. and other European countries. At the same times cultural products of foreign cultural industries will be analyzed for understanding how Italy is represented from abroad.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 40289 ITALIAN CINEMA (DIVG) (ELR) 3 Credit Hours
The course introduces the student to the world of Italian Cinema. In the first part the class will be analysing Neorealism, a cinematic phenomenon that deeply influenced the ideological and aesthetic rules of film art. In the second part we will concentrate on the films that mark the decline of Neorealism and the talent of 'new' auteurs such as Fellini . The last part of the course will be devoted to the cinema from 1970's to the present in order to pay attention to the latest developments of the Italian industry. The course is a general analysis of post-war cinema and a parallel social history of this period using films as 'decoded historical evidence'. Together with masterpieces such as Open city and The bicycle thief the screenings will include films of the Italian directors of the 'cinema d'autore' such as Life is Beautiful and the 2004 candidate for the Oscar for Best Foreign Film, I am not scared. The class will also analyse the different aspects of Film making both in Italian and the U.S. industry where I had the pleasure to work for many years in the Editing Department on Films such as The dead poet society and The Godfather part 3. The Films in DVD format are dubbed in English or sub-titled.
Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 40389 DOCUMENTARY FILMMAKING (DIVG) (ELR) 3 Credit Hours

Documentary Filmmaking is a course characterized by the co-existence of theory and practice and the balance between the two. The theoretical aspect of the course has the purpose of providing information about general basics of film language, film history and the history of documentary filmmaking. It will provide the students the tools for being able to talk about ideas in terms of film language, through the analysis of existing documentaries and exercises shot by the students themselves. Without a good theoretical base, it would be difficult to find the right kind of themes, voices, styles and development. The practical aspect of the course is focused on teaching the students the use of technical equipment including still-cameras, video-cameras, lights, audio tools and post-production software. The course will be focused mainly on European Documentaries as a way of teaching the thematic and political difference between the cultures of the two continents. The combination of the theoretical and practical aspects will generate a solid base for the micro-production of well planned documentaries, which the students will develop, shoot, edit and screen.

Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 40489 MULTIMEDIA EXPERIENTIAL LEARNING (DIVG) (ELR) 1 Credit Hour

The Multimedia Experiential Learning course is designed to allow students a deeper understanding of their study abroad experience in Italy and in Florence more in particular, by designing, developing and editing multimedia products about their academic and extra academic experiences. Each semester students are engaged in different activities and consequently have to produce different products: magazines, videos, articles, blog entries, communication campaigns etc. Students will practice an activity of processing information related to their everyday life experiences, visits of exhibitions and museums and meetings with professionals by regularly developing content/stories about these experiences as well as about events taking place in Florence and the other cities visited during their time abroad. The in-class meetings will help students to better focus on the different fieldtrips (Rome, Milan, American Cemetery in Florence and Chianti) that will take place during the semester by providing background information of the Italian context and by better understanding and making sense of the Italian culture. Additionally, students will also visit museums and exhibitions in the city of Florence. These visits will help students to make sense of the city and of the Italian culture.

Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 1 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 41389 FROM IDEAS TO STORIES: STORYTELLING IN TUSCANY (DIVG) (ELR) 3 Credit Hours

Students will explore and learn from experts about different aspects related to storytelling (ideation, production, editing, distribution) as well as aspects related to the Italian culture such as arts, history, food, fashion etc. With a focus on idea generation and development, students may explore different types of storytelling that apply to different media such as video, photography, design, journalism, advertising and communication campaigns. Students will analyze media content from both a theoretical and pragmatic perspective enriching their knowledge and competences as content creators and storytellers while experiencing and appreciating a foreign culture.

Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 45089 INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR) 1-3 Credit Hours

(Repeatable for credit) (Slashed with CCI 55089) This course explores variable topics in communication and information through study abroad experiences outside the United States. Students will travel and learn together through class activities, tours, discussions and other assignments in an international context.

Prerequisite: None.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 45091 SEMINAR IN MEDIA AND MOVEMENTS (ELR) 3 Credit Hours

(Slashed with CCI 55091) (Repeatable for credit) The College of Communication and Information's (CCI's) Media and Movements Seminar is a high-impact, immersive educational experience that involves problem-based learning about a significant and highly relevant social issue. The course enables CCI undergraduate and graduate students, as well as students from other Kent State departments and colleges, to apply their communication, research, multimedia storytelling, design, advocacy, data, information and knowledge management skills to help clients and communities affected by the social issue. The seminar relies heavily upon experiential learning and field research and requires students to work independently and as part of interdisciplinary teams to develop public awareness and advocacy campaigns.

Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CCI 46089 INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) (Slashed with CCI 56089) This course explores variable topics in communication and information through study abroad experiences outside the United States. Students will travel and learn together through class activities, tours, discussions, and other assignments in an international context. This course contains a studio experience.
Prerequisite: None.
Schedule Type: International Experience, Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

CCI 48001 COMMUNICATING RISK: GLOBAL EMERGENCIES 3 Credit Hours
(Slashed with CCI 58001) This course examines communication during times of global chaos, catastrophe and recovery, a field also known as high-risk communication (HRC). By studying pandemics, climate crises, terrorism and humanitarian disasters, we will explore the challenges of science and fact-based communication in real-world contexts. We will apply best practices in visual, digital and public communication and media relations to the real-time exchange of information that engages the public, motivates action and saves lives.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 50095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CCI 40095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

CCI 51389 FROM IDEAS TO STORIES: STORYTELLING IN TUSCANY 3 Credit Hours
(Slashed with CCI 41389) Students will explore and learn from experts about different aspects related to storytelling (ideation, production, editing, distribution) as well as aspects related to the Italian culture such as arts, history, food, fashion, etc. With a focus on idea generation and development, students may explore different types of storytelling that apply to different media such as video, photography, design, journalism, advertising and communication campaigns. Students will analyze media content from both a theoretical and pragmatic perspective enriching their knowledge and competences as content creators and storytellers while experiencing and appreciating a foreign culture.
Prerequisite: Graduate standing.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 55089 INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CCI 45089) This course explores variable topics in communication and information through study abroad experiences outside the United States. Students will travel and learn together through class activities, tours, discussions and other assignments in an international context.
Prerequisite: Graduate standing.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CCI 55091 SEMINAR IN MEDIA AND MOVEMENTS 3 Credit Hours
(Slashed with CCI 45091) The College of Communication and Information's (CCI's) Media and Movements Seminar is a high-impact, immersive educational experience that involves problem-based learning about a significant and highly relevant social issue. The course enables CCI undergraduate and graduate students, as well as students from other Kent State departments and colleges, to apply their communication, research, multimedia storytelling, design, advocacy, data, information and knowledge management skills to help clients and communities affected by the social issue. The seminar relies heavily upon experiential learning and field research and requires students to work independently and as part of interdisciplinary teams to develop public awareness and advocacy campaigns.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 56089 INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION 3 Credit Hours
(Repeatable for credit) (Slashed with CCI 46089) This course explores variable topics in communication and information through study abroad experiences outside the United States. Students will travel and learn together through class activities, tours, discussions, and other assignments in an international context. This course contains a studio experience.
Prerequisite: Graduate standing.
Schedule Type: International Experience, Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

CCI 58001 COMMUNICATING RISK: GLOBAL EMERGENCIES 3 Credit Hours
(Slashed with CCI 48001) This course examines communication during times of global chaos, catastrophe and recovery, a field also known as high-risk communication (HRC). By studying pandemics, climate crises, terrorism and humanitarian disasters, we will explore the challenges of science and fact-based communication in real-world contexts. We will apply best practices in visual, digital and public communication and media relations to the real-time exchange of information that engages the public, motivates action and saves lives.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 60000 FOUNDATIONS OF COMMUNICATION AND INFORMATION INQUIRY 3 Credit Hours
(Slashed with CCI 80000) Introduction to epistemological foundations of the Communication and Information (CCI) disciplines, theory construction and academic writing for the CCI PhD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 60001 FOUNDATIONS OF RESEARCH AND SCHOLARSHIP IN COMMUNICATION AND INFORMATION 3 Credit Hours
(Slashed with CCI 80001) Overview of the process of engaging with and presenting empirical research in communication and information, emphasizing the importance of clear conceptualization, meaningful engagement with literature, and effective presentation of findings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 60095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CCI 80095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

CCI 60097 COLLOQUIUM IN COMMUNICATION AND INFORMATION 1 Credit Hour
(Slashed with CCI 80097) The colloquium course provides College of Communication &Information (CCI) master's level students exposure to cutting edge research, professional socialization to the doctoral program, and a platform to present their own research and ideas.
Prerequisite: Graduate standing.
Schedule Type: Colloquium
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCI 61000 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION AND INFORMATION 3 Credit Hours
(Slashed with CCI 81000) This course Investigates quantitative social science methods applicable to the study of communication and information, including survey, content analysis, and experimental approaches. Emphasis is on original and secondary data collection, data analysis, data illustration, and interpreting and reporting research results for scholarly and lay audiences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 62000 QUALITATIVE RESEARCH METHODS IN COMMUNICATION AND INFORMATION 3 Credit Hours
(Slashed with CCI 82000) This course introduces qualitative methodologies and methods applicable to the study of communication and information. Emphasis is on development of ethically sound appropriate methodological choice and development of rigorous study design. Students will be introduced to data collection and learn to present to scholarly and lay audiences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 80000 FOUNDATIONS OF COMMUNICATION AND INFORMATION INQUIRY 3 Credit Hours
(Slashed with CCI 60000) Introduction to epistemological foundations of the Communication and Information (CCI) disciplines, theory construction and academic writing for the CCI PhD.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 80001 FOUNDATIONS OF RESEARCH AND SCHOLARSHIP IN COMMUNICATION AND INFORMATION 3 Credit Hours
(Slashed with CCI 60001) Overview of the process of engaging with and presenting empirical research in communication and information, emphasizing the importance of clear conceptualization, meaningful engagement with literature, and effective presentation of findings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 80094 COLLEGE TEACHING IN COMMUNICATION AND INFORMATION 3 Credit Hours
Training and investigation of best practices for collegiate instruction: course development, classroom performance, evaluation and reflection, introduction to instructional research.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CCI 80095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CCI 80095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

CCI 80096 INDIVIDUAL INVESTIGATION IN COMMUNICATION AND INFORMATION 1-3 Credit Hours
(Repeatable with the approval of the student's advisor for a maximum of 6 credit hours) Independent study of area or problem to be selected in consultation with doctoral faculty.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

CCI 80097 COLLOQUIUM IN COMMUNICATION AND INFORMATION 1 Credit Hour
(Slashed with CCI 60097) The colloquium course provides College of Communication &Information (CCI) master's level students exposure to cutting edge research, professional socialization to the doctoral program, and a platform to present their own research and ideas.
Prerequisite: Doctoral standing.
Schedule Type: Colloquium
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCI 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CCI 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: CCI 80199 or COMM 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CCI 81000 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION AND INFORMATION 3 Credit Hours
(Slashed with CCI 61000) This course Investigates quantitative social science methods applicable to the study of communication and information, including survey, content analysis, and experimental approaches. Emphasis is on original and secondary data collection, data analysis, data illustration, and interpreting and reporting research results for scholarly and lay audiences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 82000 QUALITATIVE RESEARCH METHODS IN COMMUNICATION AND INFORMATION 3 Credit Hours
(Slashed with CCI 62000) This course introduces qualitative methodologies and methods applicable to the study of communication and information. Emphasis is on development of ethically sound appropriate methodological choice and development of rigorous study design. Students will be introduced to data collection and learn to present to scholarly and lay audiences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCI 85098 RESEARCH IN COMMUNICATION AND INFORMATION 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if doctoral supervisory committee and CCI College Doctoral Program Policy Committee approve.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

School of Communication Studies

Communication Studies (COMM)

COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL) 3 Credit Hours
This course offers an overview of communication in interpersonal, group and public contexts. Students will develop a wide range of practical communication skills like listening, giving and receiving constructive feedback, presenting information, persuading audiences and more that will help them succeed in both personal and professional settings. These skills will help prepare students to engage confidently in interpersonal interactions, group discussions and public speaking.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Additional, TAG Communication, Transfer Module Composition

COMM 20000 FOUNDATIONS OF COMMUNICATION 3 Credit Hours
This course serves as an introduction to the major. Provides an introduction to communication studies faculty, research and the major concentrations of the school; highlights possible careers in communication studies; and introduces possible ways students can supplement curriculum efforts through involvement.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 20001 INTERPERSONAL COMMUNICATION 3 Credit Hours
Introduction to human interpersonal communication. Components and structures situations and contexts are described nonevaluative focus with emphasis on informal experience.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Communication

COMM 26000 CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM) 3 Credit Hours
A critical examination of selected public speeches representing diverse viewpoints on a variety of historic and contemporary issues, emphasizing methods of evaluating public oral communication and the role of speechmaking in free societies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Humanities, Transfer Module Humanities

COMM 30000 COMMUNICATION RESEARCH METHODS 3 Credit Hours
Communication research skills are marketable for career advancement. This course provides basic skills in communication research in order to evaluate and have conversations about research findings with others. The class gives students the tools to know what questions to ask when an individual, social media post, or organization uses research to back up thinking, make an argument, or come to a decision. Students will learn how to conduct interviews, focus groups, surveys and other research tools and interpret that information to be competitive in industries such as, media companies, nonprofit and public relations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 34000 DIFFICULT DECISIONS IN COMMUNICATION (WIC) 3 Credit Hours
Right and wrong. Good and bad. Moral and immoral. These phrases are commonly used to describe the decisions people must make daily. Communication professionals must wrestle with ethical issues like privacy, transparency, representation, advocacy, power, truthfulness. In this course, students will explore the complex circumstances surrounding the rights and responsibilities of the current communication landscape to prepare them for life after graduation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

COMM 35464 ARGUMENTATION AND PERSUASIVE COMMUNICATION 3 Credit Hours
Students will be introduced to principles and practices of effective argumentation and persuasive communication. Through exposure to rhetorical and social scientific theories, students will engage in research to develop argumentative cases and assess persuasive messaging strategies in mediated contexts. The course emphasizes processes of reasoning, the nature and use of evidence, recognition of common fallacies, media and information literacy, and generation and construction of valid and ethical arguments. Assignments will allow students to practice argumentation and persuasive communication as well as develop critical thinking skills needed to evaluate arguments and persuasive messages.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35600 COMMUNICATION IN SMALL GROUPS AND TEAMS 3 Credit Hours
Focuses on the application and practice of group communication skills and techniques applied to goal-oriented small group situations. Course explores communication theory and research about small groups and teams, relating in group and teams, managing conflict in groups and teams, leadership in groups and teams and problem-solving in groups and teams.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Communication

COMM 35852 INTERCULTURAL COMMUNICATION (DIVG) 3 Credit Hours
Theory and application of communication between people of different cultures and different national systems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

COMM 35860 INTERVIEWING 3 Credit Hours
Techniques, principles and practical skills for interviews most likely to occur in business environments; job searches and selection interviews, information-gathering interviews, performance appraisals, counseling interviews and persuasive interviews.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35863 BUSINESS AND PROFESSIONAL COMMUNICATION 3 Credit Hours
This course covers public and conference speaking, conducting meetings, electronic presentations, interviewing and interpersonal relations as applied to business and organizational settings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35864 ORGANIZATIONAL COMMUNICATION 3 Credit Hours
Application of communication theory to organizational settings. Exploration of communication structures processes and methods in organizations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35902 COMMUNICATION THEORY 3 Credit Hours
Study of the process of human communication. Emphasis on source, message, channel and receiver dimensions of communication. Examination of major theories of communication and social influence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35912 GENDER AND COMMUNICATION (DIVD) 3 Credit Hours
Explores how gender is socially constructed in everyday communicative interactions and institutional contexts, including close relationships, organizations, school settings and the media. In the process, this course uncovers how the social construction of gender perpetuates power imbalances in society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

COMM 36001 PUBLIC COMMUNICATION IN SOCIETY 3 Credit Hours
Examines communication in public settings. Content includes communication campaigns, corporate crisis communication, public opinion and communication issues in executive, legislative and judicial settings. Students explore the influence of mediated messages via application of mass communication theories and constructs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 36500 HEALTH COMMUNICATION 3 Credit Hours
Introduction to the roles of communication in health, health and risk behavior, health care, and health promotion, including interpersonal, organizational and media contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 37091 SEMINAR IN COMMUNICATION AND POPULAR CULTURE 3 Credit Hours
(Repeatable twice for credit) Popular culture is driven by communication. The messages contained in that communication can be both prescriptive and descriptive and can reveal much about people's culture, attitudes, fears, values and perceptions of reality. Course will focus on messages contained in various popular culture artifacts including, but not limited to film, television, internet, music and literature.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 40095 SPECIAL TOPICS IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit) (Slashed with COMM 50095 and COMM 70095) Special topic courses cover emerging issues or specialized content in Communication Studies that is not represented in the existing curriculum. Not offered every semester.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

COMM 41000 SPORTS COMMUNICATION 3 Credit Hours
An examination of the inter-relationship between sports and communication in today's society. Students discuss and examine sports through communication lenses (groups, interpersonal, media/mediated and organizational).
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 42000 MEDIA, WAR AND PROPAGANDA 3 Credit Hours
Examines the influence of TV, movies, and media images of war, the war effort and portrayals of enemies, protesters and anti-war groups on communication research, including mass communication and persuasion.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 43000 COMMUNICATION TECHNOLOGY AND HUMAN INTERACTION 3 Credit Hours
Course aims to help students develop a critical understanding of diverse newer media and how they are used and affect human interaction. In achieving this goal, students are expected to learn how newer media are different from and similar to face-to-face communication or traditional mass media, newer media's social and psychological effects on human interactions, and theoretical frameworks explaining these media.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45006 MEDIA USE AND EFFECTS 3 Credit Hours
The course examines the ways in which communication scholars have conceptualized and analyzed media processes, uses and effects. We explore such issues as media portrayals, news coverage, political campaigns, sex and violence in the media, media entertainment, children and television, and newer communication technologies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45007 FREEDOM OF SPEECH 3 Credit Hours
(Slashed with COMM 55007) What kind of speech is protected by the First Amendment? What can the government censor? How have issues like libel, slander, sedition, blasphemy, obscenity and words that provoke people to anger affect how we communicate in today's society? It seems simple at first, "Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the government for a redress of grievances." Yet, ever since its adoption, these 45 words have been a point of contention for citizens, the Supreme Court and the government. This course will help students grasp why the First Amendment is an important part of American life, what it protects and why it matters personally and professionally.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45091 SEMINAR IN COMMUNICATION STUDIES 3 Credit Hours
(Repeatable for credit) Examination of selected communication topics/areas and related research.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 45092 INTERNSHIP IN COMMUNICATION STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) A formal, cooperative field experience with a designated organization or agency as designed by the student and the internship coordinator.
Prerequisite: Minimum C grade in COMM 34000 or COMM 45902.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

COMM 45196 INDEPENDENT STUDY: COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) Readings and/or research on problems approved by undergraduate coordinator in consultation with student's adviser and faculty project director.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 45459 COMMUNICATION AND CONFLICT MANAGEMENT 3 Credit Hours
(Slashed with COMM 55459) Conflict is inevitable in relationships, but it doesn't have to destroy them. This course highlights how effective conflict management leads to happier and more fulfilling relationships. It also provides students with essential communication skills for resolving conflicts in personal and professional environments.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45660 POLITICAL COMMUNICATION 3 Credit Hours
Modern society requires us to communicate with others to craft laws and policies, address competing needs and select our representatives. This course will provide an overview of this political communication process. Course content includes the importance of communication in democracies, the role of media in politics, ways to analyze political messages and studies of contemporary campaigns.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45678 SOCIAL MEDIA AND GLOBALIZATION 3 Credit Hours
The course introduces students to social media and how they operate in a globalized context. Through the relevant literature, students will be able to use key theoretical tools to understand and critically analyze implications of globalization and social media on issues related to communication, social inequalities, citizenship, and youth cultures. The students will navigate the relationship between globalization and social media processes through practical examples including media texts, audiovisual material, social media content, etc. In class, the students will be expected to fully engage in discussions and group activities designed to emphasize their individual, professional, and academic growth.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45756 INTERNATIONAL COMMUNICATION 3 Credit Hours
International communication examines global communication approaches as they relate to issues of justice, equity and peaceful coexistence. The course critically examines the role of communication in shaping international politics, public diplomacy, social movements and across border cultural practices. Specifically, it engages with global communication and information inequalities and how this divide is intertwined with economic, environmental and material disparities that hinder the development aspirations of communities in non-Western contexts. Driven by the proposition that the sustainability of our planet and its inhabitants rests upon global collaboration—not competition—the course puts communication as a cornerstone of global understanding. By closely studying actors such as nation states, corporations, hackers, and activists, students will be equipped with theoretical and practical literacies of international communication that empower them to respond to our shared problems ranging from the climate crisis to pandemics, and, in doing so, advocate for a just, equitable and sustainable global society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45760 MEDIA AND NATIONALISM 3 Credit Hours
The goal of this course is to introduce and discuss the images, signs, symbols, commodities, cultural commercial products and personal and collective identities that emerge and circulate through mundane engagement with commodities and global media forms. Students will analyze connections and tensions between the forces of nationalism and the forces of globalization and explore some of the scholarly literature about the role of the media and consumer culture in those tensions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours
Offers a broad-based treatment of a variety of topics in our "globalizing" world from the standpoint of communication. Considers the importance of communication on multiple levels of the international landscape, ranging from the very ways globalization is defined and framed to new communication media and networks, to campaigns and debates about global issues, and including the transformation of organizational and institutional relationships as well as local-to-global interactions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45776 COMMUNICATION AND TERRORISM 3 Credit Hours
This course examines many facets of terrorism, including its historic roots and its social, political, ethnic, geographic, moral and spiritual causes. Students will be challenged to understand basic definitions of terrorism and think beyond conventional assumptions about terrorist organizations, especially assumptions derived from mass media, popular culture and Western biases. We will examine two central premises: first, that communication – spoken/written, traditional/nontraditional, public/private, visual/symbolic – is a both a tool and the goal of organized terrorism; and second, that terrorist organizations use brand-positioning strategies we often associate with commercial entities. Students will be required to think deeply, critically and objectively about the narratives, messages, images and symbolism used by past and present-day terrorist movements.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45807 HIGH IMPACT PROFESSIONAL SPEAKING 3 Credit Hours
Principles and practices of effective communication in a variety of professional contexts. Emphasis on professional presentation skills development.
Prerequisite: COMM 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45865 ORGANIZATIONAL COMMUNICATION TRAINING AND DEVELOPMENT (ELR) 3 Credit Hours
This course prepares students for careers as professional development specialists, communication consultants and corporate coaches. They acquire practical skills to design and deliver communication training programs using a needs centered approach. Theory and application underpin a comprehensive training approach, incorporating contemporary best practices and real-world applications for effective modern training.
Prerequisite: COMM 35864.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

COMM 45902 COMMUNICATION AND INFLUENCE (WIC) 3 Credit Hours
Explores theories and strategies of social influence in contemporary society. Students discuss and critique influential communication practices such as interpersonal persuasion, product and services advertisements, social movements and political messages.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

COMM 45903 COMMUNICATION CAMPAIGNS (ELR) 3 Credit Hours
The primary purpose of this course is to enable students to understand the fundamentals of how persuasive communication campaigns are developed, implemented and evaluated.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

COMM 45957 LANGUAGE IN THE 21ST CENTURY 3 Credit Hours
An overview of how languages affect the way we communicate with each other. In this course, students will learn about verbal and nonverbal communication, language evolution, cultural differences in language, language and social change, languages in traditional and social media and language in the workplace.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45959 NONVERBAL COMMUNICATION 3 Credit Hours
Students will explore how we create meaning through nonverbal behaviors including physical appearance, eye behavior, facial expressions, gesture, posture and voice. In addition, readings and class discussions investigate nonverbal communication in online platforms, impression management, flirting behaviors and how to detect deception. The importance of culture in interpreting nonverbal codes will be emphasized, along with understanding how nonverbal and verbal codes interact in different communication contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 46091 SENIOR SEMINAR (ELR) 3 Credit Hours
(Repeatable for credit) Senior Seminar is an advanced level course that features current topics in communication and is driven by problem-analysis and a search for solutions. In-depth exploration and analysis of a communication issue is an opportunity for students to synthesize coursework and communication experiences into transferable skills and applications. A summative experience, this course may result in a research project or paper, portfolio, multimedia presentation, community-based initiative, and or a public presentation. Topics vary based on faculty expertise and research interests. The Senior Seminar course is applied and experiential.
Prerequisite: Senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

COMM 46507 COMMUNICATION FOR HEALTH AND WELL-BEING 3 Credit Hours
From bullying to social support, whether face-to-face or on Instagram, interpersonal communication affects wellness. This course is designed to help students demonstrate the many ways that our interpersonal and mediated interactions with friends, family and acquaintances can affect our health and well-being. Students will also learn about communication tools that can help reduce health risks and bolster their health and the health of others.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 46601 COMMUNICATION IN RELATIONSHIPS 3 Credit Hours
Synthesizes theory and research about communication in the development, maintenance and dissolution of the relationships of romantic partners, personal friends, professional colleagues, spouses and family members. Sub-topics include personal identity, culture, social attraction, self-disclosure, relationship stages, affection, love, sex, social support, conflict, power dynamics, hurt, jealousy and infidelity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 46605 COMMUNICATION ACROSS THE LIFESPAN (DIVD) 3 Credit Hours
Explores common life stages (childhood, youth, midlife and old age) and the transitioning of communication within and between these different stages of development. Sub-topics include life span communication and: family, friendships, social and gender role development, multigenerational workplace and the use of varied communication technologies facilitating human interaction across the life span.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

COMM 46608 FAMILY COMMUNICATION 3 Credit Hours
Examines the interactions among individuals in families. Sub-topics of the course include family communication and storytelling, identity, rules, conflict, intimacy, stress, external influences on family communication, and family communication and the media.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 50095 SPECIAL TOPICS IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit) (Slashed with COMM 40095 and COMM 70095) Special topic courses cover emerging issues or specialized content in Communication Studies that is not represented in the existing curriculum. Not offered every semester.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

COMM 55007 FREEDOM OF SPEECH 3 Credit Hours
(Slashed with COMM 45007) What kind of speech is protected by the First Amendment? What can the government censor? How have issues like libel, slander, sedition, blasphemy, obscenity and words that provoke people to anger affect how we communicate in today's society? It seems simple at first, "Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the government for a redress of grievances." Yet, ever since its adoption, these 45 words have been a point of contention for citizens, the Supreme Court and the government. This course will help students grasp why the First Amendment is an important part of American life, what it protects and why it matters personally and professionally.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 55093 VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit)Variable topic workshop in communication studies.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

COMM 55459 COMMUNICATION AND CONFLICT MANAGEMENT 3 Credit Hours
(Slashed with COMM 45459) Conflict is inevitable in relationships, but it doesn't have to destroy them. This course highlights how effective conflict management leads to happier and more fulfilling relationships. It also provides students with essential communication skills for resolving conflicts in personal and professional environments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 55766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours
(Slashed with COMM 45766) Offers a broad-based treatment of a variety of topics in our "globalizing" world from the standpoint of communication. Considers the importance of communication on multiple levels of the international landscape, ranging from the very ways globalization is defined and framed to new communication media and networks, to campaigns and debates about global issues, and including the transformation of organizational and institutional relationships as well as local-to-global interactions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 60199 THESIS I 2-6 Credit Hours
Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester or distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: COMM 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 61198 MASTERS PROJECT IN COMMUNICATION STUDIES 3 Credit Hours
One of the non-thesis options for graduation. Students propose a theory-driven applied research project on a communicative phenomenon or issue. The final written paper is evaluated by the students' academic advisor and the Graduate Coordinator to deem satisfactory for graduation.
Prerequisite: COMM 65000 and COMM 65020 and COMM 65652.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 64092 MASTERS INTERNSHIP IN COMMUNICATION STUDIES 3 Credit Hours
(Repeatable for credit) One of the non-thesis options for graduation. Students choose and secure an internship position with a designated organization or agency that requires the student to utilize communication skills and knowledge. Students complete 135 hours of internship. The employer, the academic advisor, and the Graduate Coordinator evaluate the student's overall performance. The advisor and the Graduate Coordinator determine whether the student complete the requirements.
Prerequisite: COMM 65000 and COMM 65020 and COMM 65652; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 65000 FOUNDATIONS OF COMMUNICATION AND ADVOCACY 3 Credit Hours
(Slashed with COMM 85000) This course will introduce students to the foundation of scientific inquiry and its application to effective advocacy generally and communication studies specifically. Research in the field of communication has been central to the study and practice of advocacy. Students will learn about the history of the field and representative communication perspectives and paradigms that have been central to the study and practice of advocacy in different contexts. In this course, students will explore how communication has played a role in advocacy and social change. Students will understand the root and the development of the field and thinking related to advocacy and will evaluate, critique and synthesize communication literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65020 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours
(Slashed with COMM 75020) An examination of basic quantitative social scientific research methods and procedures for the study of communication.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65040 QUALITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours
Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data participant observation, and archival strategies of data collection and interpretive and interactionist approaches to data analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65070 SOCIAL INFLUENCE 3 Credit Hours
(Slashed with COMM 85070) This course explores theories, ethics, and strategies of social influence in contemporary society. Students discuss and critique influential communication practices such as advocacy, interpersonal persuasion, product and services advertisements, social movements and political messages.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 65093 VARIABLE TITLE WORKSHOP IN COMMUNICATION 1-6 Credit Hours
(Repeatable for credit)Variable topic workshop in communication studies.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

COMM 65096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with COMM 75096) Independent study of area or problem to be selected in consultation with graduate staff.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 65098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for master's level graduate students. Credits may be applied toward meeting degree requirements if school approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 65591 SEMINAR IN COMMUNICATION STUDIES 3 Credit Hours
(Repeatable for credit) (Slashed with COMM 75591) Seminar course in various research areas centered in communication studies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 65652 THEORIES OF COMMUNICATION 3 Credit Hours
(Slashed with COMM 75652) Introduction to approaches in the study of human communication. Focuses on differing views of interaction from theory building and research-generation perspective.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65660 POLITICAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 75660) (Crosslisted with JMC 65660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65661 COMMUNICATION IN AN INFORMATION SOCIETY 3 Credit Hours
(Slashed with COMM 75661) Examines how the development and use of newer communication technologies have influenced human communication. Considers the evolution, social and psychological impact, and culture of newer communication technologies such as the Internet, and how research adapts to these newer media.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65662 MEDIA EFFECTS 3 Credit Hours
(Slashed with COMM 85662) This course examines the uses and effects of mediated communication, media processes, how information flows through societies, and audience reactions to media messages. Attention is paid to diverse channels, audiences and representations in media across a range of contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65665 PERSONAL AND MEDIATED COMMUNICATION 3 Credit Hours
(Slashed with COMM 75665) Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co- viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65670 INTERPERSONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 75670) Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development, interaction, interpersonal traits, compliance, conversational analysis and research methods.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT 3 Credit Hours
(Slashed with COMM 85675) Communication, uncertainty, and the management of private information examines theory and research about disclosure and uncertainty issues in communication in a variety of contexts. Course content examines disclosure and uncertainty management applications in relational contexts, health contexts, organizational contexts, and contexts involving human interaction occurring through technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65677 RELATIONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 85677) Relational communication provides an exploration of theory and research about the interactions among individuals in personal relationships. Subtopics of the course include communication and the development, maintenance, and dissolution of personal relationships, relationships across the life span, individual differences in relationships and relational processes, qualities and outcomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65683 INTERGROUP COMMUNICATION 3 Credit Hours
(Slashed with COMM 85683) Overview of theory and research of communication between groups of individuals, including issues of discrimination, language, identity, social status, religion and demographics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65686 INTERCULTURAL AND INTERGROUP COMMUNICATION 3 Credit Hours
This course will introduce students to intercultural and intergroup communication and factors contributing to successful communication among different cultures and social groups. In this course, we will discuss issues pertaining to identities and their relationships with advocacy intervention strategies. After completing this course, students will be able to analyze interactions among various groups from cultural and socio-psychological perspectives. They will learn to describe and discuss current issues of intercultural and intergroup communication by taking a critical and analytical approach. Furthermore, they will propose advocacy interventions based on their assessment of communication needs to improve relationships between members of cultures and/or social groups.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65794 TEACHING OF COLLEGE COMMUNICATION 3 Credit Hours
(Repeatable for credit) (Slashed with COMM 75794) Training and experience in college teaching. Maximum of three hours applicable toward master's degree requirements.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65851 ORGANIZATIONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 85851) Structure, methodology and application of communication theory in industrial and organizational settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65891 SEMINAR IN ORGANIZATIONAL COMMUNICATION 3,4 Credit Hours
(Repeatable for credit) Theories and problems of human communication within, between and/or among formal organizations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3-4 other
Grade Mode: Standard Letter

COMM 66501 HEALTH COMMUNICATION 3 Credit Hours
(Slashed with COMM 86501) This course provides an overview of the ways health communication can empower individuals and communities to improve their health and well-being. Students will learn about theoretical and practical tools for communicating about and enhancing health in personal, community and healthcare contexts. In addition, the course explores how effective partnerships between researchers and community groups can be utilized in community-based participatory research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 70095 SPECIAL TOPICS IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit) (Slashed with COMM 40095 and COMM 50095) Special topic courses cover emerging issues or specialized content in Communication Studies that is not represented in the existing curriculum. Not offered every semester.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

COMM 75020 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours
(Slashed with COMM 65020) An examination of basic quantitative social scientific research methods and procedures for the study of communication.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75040 QUALITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours
(Slashed with COMM 65040) Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data, participant observation and archival strategies of data collection and interpretive and interactionist approaches to data analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75093 VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit) Variable title workshop in communications.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

COMM 75096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours
(Repeatable for credit) (Slashed with COMM 65096) Independent study of area or problem to be selected in consultation with graduate staff.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 75591 SEMINAR IN COMMUNICATION STUDIES 3 Credit Hours
(Repeatable for credit) (Slashed with COMM 65591) Seminar course in various research areas centered in communication studies.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 75652 THEORIES OF COMMUNICATION 3 Credit Hours
(Slashed with COMM 65652) Introduction to approaches in the study of human communication. Focuses on differing views of interaction from theory building and research generation perspective.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75660 POLITICAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 65660 and COMM 75660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75661 COMMUNICATION IN AN INFORMATION SOCIETY 3 Credit Hours
(Slashed with COMM 65661) Examines how the development and use of newer communication technologies have influenced how people communicate. Considers the evolution, social and psychological impact and culture of newer communication technologies (especially the Internet) and how research adapts to such technologies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75665 PERSONAL AND MEDIATED COMMUNICATION 3 Credit Hours
(Slashed with COMM 65665) Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co-viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75670 INTERPERSONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 65670) Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development, interaction, interpersonal traits, compliance, conversational analysis and research methods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75794 TEACHING OF COLLEGE COMMUNICATION 3 Credit Hours
(Repeatable for credit) (Slashed with COMM 65794) Training and experience in college teaching. Maximum of three hours applicable toward doctoral degree requirements.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75891 SEMINAR IN ORGANIZATIONAL COMMUNICATION 3,4 Credit Hours
(Repeatable for credit)Theories and problems of human communication within, between and/or among formal organizations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3-4 other
Grade Mode: Standard Letter

COMM 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: COMM 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 85000 FOUNDATIONS OF COMMUNICATION AND ADVOCACY 3 Credit Hours
(Slashed with COMM 65000) This course will introduce students to the foundation of scientific inquiry and its application to effective advocacy generally, and communication studies specifically. Research in the field of communication has been central to the study and practice of advocacy. Students will learn about the history of the field and representative communication perspectives and paradigms that have been central to the study and practice of advocacy in different contexts In this course, students will explore how communication has played a role in advocacy and social change. Students will understand the root and the development of the field and thinking related to advocacy, and will evaluate, critique and synthesize communication literature.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85070 SOCIAL INFLUENCE 3 Credit Hours
(Slashed with COMM 65070) This course explores theories, ethics, and strategies of social influence in contemporary society. Students discuss, and critique influential communication practices such as advocacy, interpersonal persuasion, product and services advertisements, social movements, and political messages.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 85098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if school approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 85662 MEDIA EFFECTS 3 Credit Hours
(Slashed with COMM 65662) This course examines the uses and effects of mediated communication, media processes, how information flows through societies, and audience reactions to media messages. Attention is paid to diverse channels, audiences, and representations in media across a range of contexts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT 3 Credit Hours
(Slashed with COMM 65675) Communication, uncertainty and the management of private information examines theory and research about disclosure and uncertainty issues in communication in a variety of contexts. Course content examines disclosure and uncertainty management applications in relational contexts, health contexts, organizational contexts, and contexts involving human interaction occurring through technology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85677 RELATIONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 65677) Relational communication provides an exploration of communication theory and research about the interactions among individuals in personal relationships. Subtopics of the course include communication and the development, maintenance, and dissolution of personal relationships, relationships across the life span, individual differences in relationships and relational processes, qualities and outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85683 INTERGROUP COMMUNICATION 3 Credit Hours
(Slashed with COMM 65683) Overview of theory and research of communication between groups of individuals, including issues of discrimination, language, identity, social status, religion and demographics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85851 ORGANIZATIONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 65851) Structure, methodology and application of communication theory in industrial and organizational settings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 86501 HEALTH COMMUNICATION 3 Credit Hours
(Slashed with COMM 66501) This course provides an overview of the ways health communication can empower individuals and communities to improve their health and well-being. Students will learn about theoretical and practical tools for communicating about and enhancing health in personal, community, and healthcare contexts. In addition, the course explores how effective partnerships between researchers and community groups can be utilized in community-based participatory research.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

School of Emerging Media and Technology

Emerging Media and Technology (EMAT)

EMAT 10010 TECHNOLOGY, EXPERIENCE DESIGN AND SOCIETY 3 Credit Hours
Through this course, students explore the emerging media, technology and user experience design industries and develop their own emerging media project plan. Additionally, students learn about the impact of emerging media, technology and design on culture and society. Topics include an introduction to ethical design, emerging media and globalization and technology's relationship and identity formation and maintenance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 10310 MY STORY ON THE WEB 3 Credit Hours
This course focuses on inspiring digital content creation and the tools that make it all happen. Students learn and use digital software tools from the Adobe Creative Cloud that allow them to establish a web presence based on personal and entrepreneurial interests by the end of the semester. Students post their projects on a website they design using an online content management system. Skills used in this class prepare students for the professional world, including website design, content management, storytelling, multimedia and such ethical considerations as intellectual property.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 21000 INTRODUCTION TO WEB DESIGN 3 Credit Hours
Students will learn basic web design, using HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). Students are introduced to planning, designing and executing effective web pages, including developing web pages using web standards compliant HTML and CSS; leveraging CSS to style, enhance, organize and prioritize content; working with a wide range of content types and multimedia; and, producing small, functioning, multi-page websites.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 23410 COGNITION IN TECHNOLOGY 3 Credit Hours
Introduction to the basics in human cognition as they affect technology and as technology affects human cognition. Addresses designing technologies to fit and enhance cognition, augmenting cognition with technology, and cognitive tools, as well as the impact of technology on various cognitive processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 25310 CREATIVE CODING 3 Credit Hours
A hands-on introduction to computational thinking and object-oriented programming through the framework of creative coding. Students learn how to use variables, loops, functions and objects to make original works of creative code for screen-based media that move, interact and unfold over time. Emphasis in the course is placed on play and experimentation as critical facets of creative problem solving.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 29995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

EMAT 32210 DATA IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
Students work through all levels of data analysis, including accessing data; combining and cleaning datasets; describing data through report-writing and visualization; inferential statistics; and, finally, making data-based decisions and conveying those decisions to a lay audience. This course uses Python to process data and introduce students to report writing, sharing and documentation. Course's focus is to convey the strengths and limitations of both "big" and "small" data with an overarching goal of instilling ethical data practices for research and application.
Prerequisite: CS 13001 or CS 13012 or EMAT 25310 or IT 11002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 33310 HUMAN-COMPUTER INTERACTION 3 Credit Hours
A course intended to provide a broad foundation of HCI principles and perspectives relevant across multiple emerging media technologies. Focuses on both understanding HCI through the presentation of major concepts, issues and principles in HCI across the full spectrum of user-centered design processes (conceptualizing, research, prototyping, evaluation, etc.) and designing experiences, with a focus on the user, needs and task analysis and evaluation.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 39995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

EMAT 40095 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours
(Slashed with EMAT 50095) (Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EMAT 40999 INTERDISCIPLINARY PROJECTS (ELR) 3 Credit Hours
(Repeatable for credit) In this hands-on course, students work in collaborative, interdisciplinary teams to complete a technology-based project that provides an innovative solution to a real-world problem. Whenever possible, connections will be made to project-based courses in emerging media and technology and beyond.
Prerequisite: Junior standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EMAT 41000 RESPONSIVE WEB DESIGN 3 Credit Hours
(Slashed with EMAT 51000) Students learn the fundamental principles for developing standards-based web sites from a mobile-first and content-first perspective. Explore each aspect of an agile-inspired process, during which students will learn each step of what it takes to build a website and ensure its functionality for its users in terms of both usability and performance.
Prerequisite: EMAT 21000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 41510 PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC) 3 Credit Hours
(Slashed with EMAT 51510) Introduces students to the basic elements of project management as it relates to software development and the corporate environment. Although not formally endorsed by The Project Management Institute, the course aligns with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.
Prerequisite: CIS 24065 or CS 10062 or CS 13001 or CS 13012 or EMAT 25310 or ENGR 26220 or VCD 21000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

EMAT 41610 DIGITAL SYSTEMS SECURITY 3 Credit Hours
(Slashed with EMAT 51610) Provides students with an understanding of the techniques, approaches, strategies, and computer security tactics that are used to ensure computer-related assets are protected from potential cyber compromise and are integrated with the business function. This course does not focus on the technical aspects of security (e.g., details of the operating system, data structures, or networks) but instead focuses more on computer security in a business context.
Prerequisite: EMAT 25310 or CS 13001 or CS 13012 or CIS 24065; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 42210 WEB APPLICATION DEVELOPMENT 3 Credit Hours
(Slashed with EMAT 52210) In this hands-on, project-based course, students are introduced to leading industry tools and frameworks being used to create commercial web applications today, including CSS frameworks, front-end frameworks and command line tools. Lectures, coding demonstrations and weekly assignments culminate in a collaborative final project in which students are asked to conceptualize, design and implement a web application in a collaborative, team setting.
Prerequisite: EMAT 25310 and EMAT 41000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 49991 SEMINAR IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
(Slashed with EMAT 59991) (Repeatable for credit) Society is driven, in part, by digital technology. The skills and techniques used in these fast-paced digital systems requires nimble and up-to-date skill sets. This course covers a rotating list of timely topics, including but not limited to mobile applications, content management systems, data visualizations and cutting-edge development frameworks. The student experience varies based on the topics from the rotation.
Prerequisite: CS 13001 or CS 13012 or EMAT 25310 or IT 11002.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 49992 INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY (ELR) 1-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) A credit-bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper, or experience report.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EMAT 49996 INDIVIDUAL INVESTIGATION IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

EMAT 50095 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGIES 1-3 Credit Hours
(Slashed with EMAT 40095) (Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EMAT 51000 RESPONSIVE WEB DESIGN 3 Credit Hours
(Slashed with EMAT 41000) Students learn the fundamental principles for developing standards-based web sites from a mobile-first and content-first perspective. Explore each aspect of an agile-inspired process, during which students will learn each step of what it takes to build a website and ensure its functionality for its users in terms of both usability and performance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 51510 PROJECT MANAGEMENT AND TEAM DYNAMICS 3 Credit Hours
(Slashed with EMAT 41510) Introduces students to the basic elements of project management as it relates to software development and the corporate environment. Although not formally endorsed by The Project Management Institute, the course aligns with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 51610 DIGITAL SYSTEMS SECURITY 3 Credit Hours
(Slashed with EMAT 41610) Provides students with an advanced understanding of the techniques, approaches, strategies, and computer security tactics that are used to ensure computer-related assets are protected from potential cyber compromise and are integrated with the business function. This course does not focus on the technical aspects of security (e.g., details of the operating system, data structures, or networks) but instead focuses more on computer security in a business context.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 52210 WEB APPLICATION DEVELOPMENT 3 Credit Hours
(Slashed with EMAT 42210) In this hands-on, project-based course, students are introduced to leading industry tools and frameworks being used to create commercial web applications today, including CSS frameworks, front-end frameworks and command line tools. Lectures, coding demonstrations and weekly assignments culminate in a collaborative final project in which students are asked to conceptualize, design and implement a web application in a collaborative, team setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 59991 SEMINAR IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
(Slashed with EMAT 49991) (Repeatable for credit) Society is driven, in part, by digital technology. The skills and techniques used in these fast-paced digital systems requires nimble and up-to-date skill sets. This course covers a rotating list of timely topics, including but not limited to mobile applications, content management systems, data visualizations and cutting-edge development frameworks. The student experience varies based on the topics from the rotation.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

EMAT 60010 FOUNDATIONS OF EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
Course provides an overview of foundational theories applied in the interdisciplinary emerging media and technology industries through case studies and interdisciplinary discussions. Covers issues related to technology and society; developing interdisciplinary thinking skills; examining the industry structure; and developing data-based writing, reporting and presentation skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 60310 CREATIVE CODING FUNDAMENTALS 3 Credit Hours
(Slashed with EMAT 80310) Course provides students hands-on experience, from applying foundational concepts in computational thinking and object-oriented programming to creating screen-based applications that move, interact and unfold over time. Specific topics covered include variables, loops, functions, classes and API's (Application Programming Interfaces). Particular emphasis is placed on play and experimentation as critical facets of creative problem solving and on computation as both an interdisciplinary and cross-disciplinary practice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 60999 PROJECTS IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
(Repeatable for credit) Provides an integrative experience, bringing together components of the required coursework in the major and concentration. Students perform individual work on a project, research paper, or practicum under the supervision of faculty from programs affiliated with the School of Emerging Media and Technology.
Prerequisite: Minimum overall GPA of 3.00; and graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

EMAT 61010 ENTERPRISE ARCHITECTURE 3 Credit Hours
Explores the alignment of IT and IS investment decisions with business goals. Enterprise architecture is increasingly used in industry as a result of the continued emergence of new technologies and ongoing pressures to reengineer business processes to achieve improved efficiency and greater customer focus. Enterprise architecture identifies the main components of an organization and the ways in which these components work together. The components include performance and strategy, people, business capabilities, applications, technology, knowledge and information, as well as financial and other resources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 61310 ENTERPRISE ARCHITECTURE: ENTERPRISE ARCHITECTURE CENTER OF EXCELLENCE METHODOLOGY 2 Credit Hours
Provides an introduction to the Enterprise Architecture Center of Excellence (EACOE) methodology for enterprise architecture and practical experience using that methodology. Students learn to model a business' current or desired future state using architectural models of goals, processes, materials, roles, locations and events. Implementation models are then developed to show relationships between architectural models, and the models are analyzed to identify move-ahead initiatives that include projects, gaps, overlaps and opportunities. These initiatives are prioritized to move the business to a desired future state. At the conclusion of the course, students have the option of submitting their course enterprise architecture artifacts to EACOE for certification. Pre/
Prerequisite: Graduate standing.
Corequisite: EMAT 61010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EMAT 61510 PROJECT MANAGEMENT LEADERSHIP 3 Credit Hours
This course introduces advanced project management and project management leadership as it relates to software development and the corporate environment. The course focuses on the project management principles of effective planning, communication and motivation throughout the project lifecycle, and one key project management deliverable such as the project management plan. Although not formally endorsed by The Project Management Institute (www.PMI.org), the course will align with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.
Prerequisite: EMAT 51510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 62010 BUSINESS ARCHITECTURE 3 Credit Hours
Exploration of the concept of business architecture as the critical component of enterprise architecture. Students learn how to develop an enterprise business architecture, to apply business architecture principles, methods and artifacts to support business IT alignment and to support change management needed to implement roadmaps and initiatives based on the business architecture. Students learn how different enterprise architecture frameworks approach the business layer.
Prerequisite: EMAT 61010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 62110 INTERACTIVE DATA 3 Credit Hours
(Slashed with EMAT 82110) Course applies students' prior experience in computational thinking and object-oriented programming to analytic, creative and interactive data experiences built in Python. Students address real-world data sets with computational, predictive and visual methods to draw insights and make decisions. Students move beyond deploying "solutions" to engaging and communicating data to constituents, user and decision makers alike. Concurrently, students discuss critical questions of modern data access, power, bias and privacy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 62210 WEB DEVELOPMENT 3 Credit Hours
Beginning with basic coverage of HTML, CSS, PHP, this course continues to explore those topics along with MySQL, jQuery, JavaScript and others. The course will also explore other topics relevant to web development in digital sciences, including security principles, hierarchy and visual design, responsive design, accessibility issues, interaction design, social media, and legal issues.
Prerequisite: CS 61002 or CS 61003 or ENGR 56330; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 64010 DATA ARCHITECTURE 3 Credit Hours
Exploration of data modeling at the conceptual and logical level of abstraction within the context of enterprise architecture. Students learn to identify business needs in terms of data to gain a holistic view of organizational data. Students use Master Data Management (MDM) and approaches to define various data sources.
Prerequisite: EMAT 61010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 64210 DATA SCIENCE 3 Credit Hours
Overview of the concept of data mining, machine learning, big data, and data analytics, including the business challenges of working with data to solve real-world business problems. Students become familiar with the Cross Industry Standard Process for Data Mining (CRISP-DM). Fundamental concepts include Business Problem Understanding, Data Understanding, Data Preparation, Modeling, Evaluation, and Deployment. Data analytics in industry verticals are discussed, including science, intelligence and law enforcement, health, retail and financial services.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 65010 APPLICATION AND TECHNOLOGY ARCHITECTURE 3 Credit Hours
Introduction to the concept of application and technology architectures in the context of enterprise architecture. Students learn how to define application and technology architecture principles and standards to support business performance, and to evaluate existing architectures in relation to performance goals. Students learn to work with application and technology artifacts and matrices, prepare a technology dictionary and develop an application architecture blueprint.
Prerequisite: EMAT 61010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 69199 THESIS I 2-6 Credit Hours
(Repeatable for a maximum of 6 credits hours) Thesis students must register for a total of 6 hours and may take 2 to 6 hours per semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EMAT 69299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: EMAT 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EMAT 69992 INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) A credit bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper or experience report.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EMAT 69995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in digital sciences not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

EMAT 69996 INDIVIDUAL INVESTIGATION IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments, and evaluation methods may vary.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

EMAT 80310 CREATIVE CODING FUNDAMENTALS 3 Credit Hours
(Slashed with EMAT 60310) Course provides students hands-on experience, from applying foundational concepts in computational thinking and object-oriented programming to creating screen-based applications that move, interact and unfold over time. Specific topics covered include variables, loops, functions, classes and API's (Application Programming Interfaces). Particular emphasis is placed on play and experimentation as critical facets of creative problem solving, and on computation as both an interdisciplinary and cross-disciplinary practice.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 82110 INTERACTIVE DATA 3 Credit Hours
(Slashed with EMAT 62110) Course applies students' prior experience in computational thinking and object-oriented programming to analytic, creative and interactive data experiences built in Python. Students address real-world data sets with computational, predictive and visual methods to draw insights and make decisions. Students move beyond deploying "solutions" to engaging and communicating data to constituents, user and decision makers alike. Concurrently, students discuss critical questions of modern data access, power, bias and privacy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

School of Media and Journalism

Media and Journalism (MDJ)

MDJ 10009 ELEMENTS OF FILM, TV AND ANIMATION 3 Credit Hours
An introduction to the theory and conceptual choices in story, picture and sound. This course prepares students for the creative and technical aspects of film, TV and animation work.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 13001 PRODUCTION SAFETY AND SET PROTOCOL 2 Credit Hours
This course will enhance the collaborative experience of multimedia creation by exposing students to the various skill sets and positions in the film and TV industries and familiarize them with industry standards and best practices, especially concerning safety processes.
Prerequisite: School of media and journalism major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MDJ 20001 MEDIA, POWER AND CULTURE (DIVD) (KSS) 3 Credit Hours
Fosters critical understanding of mass media in their historical, ideological, economic and cultural contexts. Examines what forces influence media and how media influence consumers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Communication, Transfer Module Social Sciences

MDJ 20004 ADVERTISING WRITING AND STORYTELLING 3 Credit Hours
Introduces students to writing for advertising. In particular, students will understand how to effectively and strategically communicate to a variety of audiences, including business partners and consumers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 20008 RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours
Understand the ways research is employed and applied in integrated communication, including both primary and secondary research. Students will understand how to use research and insights to develop strategy, or to craft research on business strategy. They also will become thoughtful researchers and consumers of research who are cognizant of the ethical and moral responsibilities associated with human subjects research. Students will be expected to understand and appreciate the diversity of audiences. Finally, students will develop critical thinking and writing skills in order to create and share a well-crafted presentation to clients that reflect a strong understanding of the connections among data, insight and strategy.
Prerequisite: MDJ 21001 or MDJ 28001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 20011 PRODUCTION FUNDAMENTALS 3 Credit Hours
Introductory course offering a conceptual and hands-on approach to understanding digital video and sound recording and editing.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 21001 PRINCIPLES OF ADVERTISING 3 Credit Hours
Advertising history, purposes, techniques, media and research; analysis of functions of advertising organizations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Communication

MDJ 21008 SOCIAL MEDIA STRATEGIES 3 Credit Hours
Designed to help students understand and use social media in critical and strategic ways. Helps students harness the power and potential of the social web, including strategies used to position and market organizations as well as individuals. Exposes students to the latest social-media applications and tools and to critical views of social media's impact on business, society and culture. Students emerge from the class with a strategic plan designed to enhance their lives and their careers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 21015 FOUNDATIONS OF STRATEGY AND COMMUNICATION 3 Credit Hours
This foundational course will establish a strong understanding of what strategy is and how to develop strategy that is grounded in brand values and consumer insights. This information is essential for the development of persuasive messaging and provides a foundation for remaining advertising classes and future careers.
Prerequisite: Minimum C- grade in MDJ 21001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 22004 VISUAL STORYTELLING 3 Credit Hours
Technical and digital skills needed to produce photos that communicate. Course will stress narrative work, detailed caption information and reporting. A GPA of 2.700 is required in the major.
Prerequisite: CCI 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 23004 STORY FOR PICTURE 3 Credit Hours
An introductory course on plot, character development and dramatic structure for narrative scriptwriting.
Prerequisite: Advertising or Digital Media Production or Emerging Media and Technology or Journalism or Public Relations or Visual Journalism or Visual Communication Design major or minor or Animation and Game Design or Fashion Media or Media Literacy minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 23130 DIRECTING FOR PICTURE 3 Credit Hours
A course designed to give students the creative and technical knowledge and skills needed to direct narrative and documentary productions.
Prerequisite: Minimum C- grade in MDJ 20011 and MDJ 23004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 26001 WRITING FOR MEDIA 3 Credit Hours
In this course, students will discover the power of media messages by learning the significant elements of writing for journalistic and public relations media. They will work toward developing a clear, concise writing style that is free from grammar, punctuation, and spelling errors. Students will learn how the purpose of writing informs its execution as well as how to hone their interviewing and research skills to support their key messages and themes. Students will be introduced to the use of social media for the support, dissemination and promotion of their work.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 26005 MULTIMEDIA JOURNALISM 3 Credit Hours
In this course students will learn to use multimedia for storytelling. Through use of different delivery platforms and adherence to deadlines, students will develop a multimedia mindset. Students will develop skills in formatting stories for web and mobile delivery, and will learn to use multimedia tools in breaking news situations. Students will create multimedia features and packages, and will experiment with standalone and complementary stories. Students will develop their skills in capturing and using video, audio and still photos, and will discuss ethical and legal issues surrounding online news reporting and presentation.
Prerequisite: Minimum C- grade in MDJ 26001; and a minimum C- grade in either EMAT 10310 or MDJ 20011.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 26007 REPORTING 3 Credit Hours
This course builds on the skills learned in MDJ 26001 and MDJ 26005 to introduce students to reporting with a text-based focus. Students will engage in the researching, interviewing and reporting skills necessary to cover a variety of news stories, while continuing to hone their journalistic writing skills. As part of the course, students will cover stories on campus and in the community with the opportunity for their work to be disseminated through our student media news outlets.
Prerequisite: A minimum C- grade in MDJ 26005 or MDJ 38002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 26008 BROADCAST REPORTING 3 Credit Hours
The course introduces the fundamentals of writing and reporting the news with a focus on video. Building on skills learned in MDJ 26001 and MDJ 26005, students will engage in the researching, interviewing and reporting skills necessary to cover a variety of news stories using video for TV or other visual platforms. They will also continue to hone their journalistic writing skills with a focus on broadcast style. As part of the course, students will shoot and edit video stories on campus and in the community with the opportunity for their work to be disseminated through our student media news outlets.
Prerequisite: MDJ 26005 or MDJ 38002 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 28001 PRINCIPLES OF PUBLIC RELATIONS 3 Credit Hours
Explores strategic role and function of public relations in business, nonprofit public institutions and society. Covers public relations practice from development to present. This course is the foundational course for students majoring or minoring in public relations and a stimulating elective for students in any major who seek a better understanding of strategic communication and persuasion, how people are informed, influenced and motivated to take action.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 30036 DIGITAL VIDEO EDITING 3 Credit Hours
Intermediate class in editing for single camera and multi-camera productions using Adobe Premiere software.
Prerequisite: Minimum C- grade in MDJ 20011.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 31002 ADVERTISING COPYWRITING (WIC) 3 Credit Hours
Examination and practice in various forms of advertising copywriting and their applications.
Prerequisite: Minimum C- grade in MDJ 31011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MDJ 31003 ADVERTISING MEDIA PLANNING 3 Credit Hours
Analysis, selection and scheduling of advertising media. Examination of advertising research, technique and application.
Prerequisite: MDJ 20004 and MDJ 20008 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 31004 DIGITAL ADVERTISING 3 Credit Hours
Explores digital targeting, advertising and mobilization in detail. Students will learn how to run winning digital advertising campaigns that educate and activate constituents. It is the study of overall strategic creation of digital advertising communication with a focus on copy writing and the implementation of basic production skills.
Prerequisite: MDJ 20004 and MDJ 20008 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 31007 DIGITAL ANALYTICS IN ADVERTISING AND PUBLIC RELATIONS 2 Credit Hours
Explores digital analytics and online measurement. Students will start with planning and setting measurable objectives, finding online audiences, and then design and implement measurement plans. Students will use social media analytics tools and Google analytics to capture data and then determine next steps. JMC 21004 is recommended to be taken prior to registration, but not required.
Prerequisite: Minimum C- grade in MDJ 20008.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MDJ 31011 ADVERTISING STRATEGY DEVELOPMENT 3 Credit Hours
Ad majors learn problem-solving techniques, which they will apply to business and creative proposals designed to promote products and or services. Development of good, clear writing skills is a key component of the course.
Prerequisite: Minimum C- grade in MDJ 20004 and MDJ 20008.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 32001 PHOTOJOURNALISM I 3 Credit Hours
Production of photographs for newspapers, magazines and online news media. A laboratory course emphasizing color and black and white photography. A GPA of 2.700 is required in the major.
Prerequisite: Minimum C- grade in CCI 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Communication

MDJ 32002 PHOTOJOURNALISM II 3 Credit Hours
(Repeatable for credit) Continuation of MDJ 32001. Advanced news and feature photography for newspapers, magazines and online including a collaborative project. A GPA of 2.700 is required in the major.
Prerequisite: A minimum C- grade in MDJ 32001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 33007 PRODUCING FOR PICTURE 3 Credit Hours
A deep and technical look at filmmaking from business, legal and logistical perspectives.
Prerequisite: Minimum C- grade in MDJ 20011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 33024 ON-CAMERA TECHNIQUES FOR MEDIA PROFESSIONALS 3 Credit Hours
Students will learn the fundamentals of appearing on camera for various live and recorded settings including television, digital-native presentations and social media. From professionalism to critical thinking on your feet, students will explore how to successfully navigate on-camera performance for different settings such as interviews, broadcast journalism, news conferences and web and social media videos. In a world where media content is becoming increasingly visual, this course is for any student whose career path might put them in front of a camera to convey information, ask questions, or answer them.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 33033 SOUND FOR PICTURE 3 Credit Hours
An intermediate class for audio and music in film and multimedia. Students learn the entire process of sound for picture workflow, department by department, from pre-production and budgeting through final mixdown.
Prerequisite: Minimum C- grade in MDJ 20011.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter
Attributes: TAG Communication

MDJ 33042 STUDIO TELEVISION 3 Credit Hours
Study of all positions of a live television program including technical directing, floor directing, graphics, digital playback and audio engineering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 33043 DIGITAL CINEMATOGRAPHY 3 Credit Hours
Course focuses on digital cinematography techniques for shooting documentary and narrative fiction.
Prerequisite: Minimum C- grade in MDJ 20011.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 33092 STUDENT MEDIA PRACTICUM IN DIGITAL MEDIA PRODUCTION (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) Performance of assigned activities in radio or television under student media supervision. A GPA of 2.700 is required in the major.
Prerequisite: Minimum 2.000 GPA; and sophomore standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

MDJ 34036 MULTIMEDIA ENGINEERING 3 Credit Hours
Introduction to basic digital media technology and systems, providing students with multimedia engineering knowledge and vocabulary. Overview of broadcast operations and legal viewpoint. Prep for Society of Broadcast Engineer (SBE) operators' certification exam.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 34140 PRODUCTION I 3 Credit Hours
A hands-on introduction to narrative and documentary storytelling. Students write, edit and direct projects emphasizing visual storytelling.
Prerequisite: Minimum C- grade in MDJ 23130.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 36005 EDITING 3 Credit Hours
Students will learn the craft of editing – chiefly improving the writing of other journalists on all platforms. Students will also learn story planning, content creation, writing headlines and organizing stories in digital formats. This course also includes an intensive review of style and grammar.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 36008 FREELANCE JOURNALISM 3 Credit Hours
In an ever-changing media landscape, students need to be able to market themselves and their work. This course provides students the tools, resources and strategies needed to pitch creative work to various media companies. Students will learn how to research markets, craft effective queries and manage the business considerations of being a freelance journalist.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 36010 INTERVIEWING AND DATA FOR JOURNALISTS 3 Credit Hours
This course offers students more practice in interviewing and finding news in numbers. Students will engage in news coverage that allows them to practice interviewing techniques including how to find sources, ask the right questions and use that information to create news content. We will also discuss diversity and its importance in the selection of story topics and sources. This course will also introduce students to finding stories through data and research. Students will learn how to find stories in numbers, how to judge and report on scientific research and how to use visuals to enhance reporting of data.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 36018 FEATURE WRITING 3 Credit Hours
This is a class about writing stories people want to read, not stories they have to read to keep up with the news. You will learn the journalistic and literary tools to write drop-everything, time-melting, hit-share reads. Each feature you produce, even the one written in the first person, must be thoroughly reported, stylishly written and students will be encouraged to submit their work for publication. A special emphasis will be placed on reporting the experiences of communities that have traditionally been ignored or misrepresented in media.
Prerequisite: Minimum C- grade in MDJ 26007 or MDJ 26008.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 36020 AUDIO STORYTELLING AND PODCASTING I 3 Credit Hours
The audio storytelling used in public radio-style stories and podcasts gives audiences an immersive and intimate experience that's available anytime, anywhere. This course will give students the expertise needed to develop and produce broadcast-quality audio content. Students will learn how to write for the ear, interview for audio, as well as edit and mix audio stories that meet professional standards for broadcast.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 38002 PUBLIC RELATIONS CASE STUDIES 3 Credit Hours
Explores the process and practice of public relations by requiring students to analyze real-world case studies and develop an actual public relations plan on behalf of a client organization. Students should expect to spend time outside the classroom working within teams in support of client objectives. A significant amount of writing in multiple formats is required.
Prerequisite: MDJ 28001 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40006 LAW OF MEDIA AND JOURNALISM 3 Credit Hours
(Slashed with MDJ 50006) Students will explore how the law affects media content and the work of its practitioners. Students will learn to identify potential legal issues and apply that knowledge to specific situations likely confronted by working media professionals across a variety of media industries. Students will also gain an appreciation of the history of the First Amendment and examine the role protections for free expression play in a diverse American society.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40010 ETHICS AND ISSUES IN MEDIA AND JOURNALISM (WIC) 3 Credit Hours
This course is about what the media ought to do and the underlying values that frame ethical decision-making. We will use ethics theories and critical thinking to discuss ethical decisions in media and in journalism, as well as explore how benefits and harms affect diversity, equity, inclusion, and belonging in the decisions we make as media practitioners. We'll use theory and moral reasoning to examine media decision-making beyond news judgment and common sense. The course does not attempt to give students rules for ethical behavior; it is an intellectual journey.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MDJ 40011 ETHICAL ISSUES IN INTEGRATED COMMUNICATION 1 Credit Hour
Focuses specifically on the ethical and moral issues affecting Advertising and Public Relations professionals. Focuses solely on Integrated Communications. Students will understand and appreciate the complex moral and ethical decisions that professionals make each day, often under intense deadline pressure. They also acquire their basic problem-solving skills to manage these issues in real time. A GPA of 2.700 is required in the major.
Prerequisite: Minimum C- grade in MDJ 31002 (and MDJ 31003) or MDJ 38002; and minimum 2.000 overall GPA; and advertising or public relations major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 40016 LAW OF ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours
(Slashed with MDJ 50016) Regulation of advertising and corporate speech; first amendement libel and privacy legal problems of new media. A GPA of 2.700 is required in the major.
Prerequisite: 18 hours of MDJ courses all with a minimum C- grade; and minimum C- grade in MDJ 31002 or 31003 or 38002; and minimum 2.000 overall GPA; and advertising or public relations majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40017 MEDIA ENTERPRISE 3 Credit Hours
(Slashed with MDJ 50017) This course will expose students to the business side of the media industry by exploring management issues unique to media organizations and the impact of those issues on the organization's structure, economics and employees. Students will also study the process of monetizing and distributing multimedia content to targeted audiences through various delivery streams. Students will apply entrepreneurial thinking as they explore the importance of promotion, branding and social media in today's media marketplace.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40020 AUDIO AND STILL PHOTO PRODUCTION 3 Credit Hours
(Slashed with MDJ 50020) Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio. A GPA of 2.700 is required in the major.
Prerequisite: MDJ 22001 or CCI 12001 with a minimum C- grade; and minimum 2.000 overall GPA; and school of media and journalism major; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40027 RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES (DIVD) 3 Credit Hours
(Slashed with MDJ 50027) To introduce students to the many facets of diversity in media through the eyes and perspectives of practitioners and audiences. This class takes a critical survey of messages directed at specific members of the mass audience and how these messages help shape the culture through historical, legal, economic, political, social and artistic influences. Media institutions are examined in terms of how and why diverse content is produced and distributed. Special attention is paid to increasing students' level of media literacy by examining these messages.
Prerequisite: MDJ 20001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

MDJ 40037 SCRIPTWRITING FOR VIDEO AND FILM 3 Credit Hours
(Slashed with MDJ 50037) The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs.
Prerequisite: Minimum C- grade in MDJ 23004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40092 INTERNSHIP (ELR) 1-3 Credit Hours
(Repeatable for credit) Experience in a professional setting under professional supervision in student's field of specialization.
Prerequisite: Minimum 23 credit hours of MDJ coursework; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MDJ 40095 SPECIAL TOPICS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Explores selected topics of special interest in media and journalism not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 40096 INDIVIDUAL PROJECTS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Individual research projects in media and journalism.
Prerequisite: Junior or senior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 40099 SENIOR HONORS PROJECT IN MEDIA AND JOURNALISM (ELR) 2-4 Credit Hours
Thesis or other independent study project in media and journalism.
Prerequisite: School of media and journalism majors only; and admitted to the honors college.
Schedule Type: Project or Capstone
Contact Hours: 2-4 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

MDJ 40201 PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS 1 Credit Hour
(Slashed with MDJ 50201) Provides a basic understanding of the public affairs role in public relations. Course specifically examines how external factors surrounding an organization can trigger disruption, opportunity, change, adaptation and evolution. Students explore techniques for anticipating, managing and adapting to or changing those forces. Primary attention is paid to environmental scanning, issue and stakeholder identification and management, lobbying, advocacy and ethical implications of public policy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 40202 PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION 1 Credit Hour
(Slashed with MDJ 50202) Provides a basic understanding of the best practices of crisis planning, preparation, communication and management. Course focuses on the critical capabilities, team work and decision-making skills required of public relations practitioners during periods of intense organizational turbulence, crisis and reputational threat across numerous stakeholder groups. Those groups include internal, external, public, private and legislative audiences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 40295 SELECTED TOPICS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) (Slashed with MDJ 50295) Selected topics of special interest not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: School of Media and Journalism major or minor.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 41002 ADVANCED ADVERTISING COPYWRITING 3 Credit Hours
Advanced copywriting projects in print advertising and corporate communications and execution of the entire print advertising campaigns. A GPA of 2.700 is required in the major.
Prerequisite: MDJ 31002 and 31003 with a minimum C- grade; and minimum 2.000 overall GPA; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 41099 ADVERTISING CAMPAIGNS (ELR) 3 Credit Hours
Capstone course requires student teams to combine research, planning and execution into a single advertising campaign developed for a real world organization. A GPA of 2.700 is required in the major.
Prerequisite: Minimum C- grade in MDJ 31002 and MDJ 31003.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 41111 FASHION PUBLISHING 3 Credit Hours
Introduction to 21st Century Fashion publishing. An overview of the evolution of fashion magazines in print and digital formats, magazine entrepreneurs, the editors role, branding, advertising, circulation, writing and production.
Prerequisite: Minimum C- grade in MDJ 20004 or MDJ 23004 or MDJ 26001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 41192 PRACTICUM IN ADVERTISING AND PUBLIC RELATIONS (ELR) 3 Credit Hours
Designed to provide opportunities for students to engage in applied public relations and advertising projects in collaboration with faculty. This can include such things as competitions and practical experiential learning exercises with on-campus organizations. A 2.700 GPA in the major is required.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 41199 CAPSTONE: CAMPAIGNS IN ADVERTISING AND PUBLIC RELATIONS (ELR) 3 Credit Hours
Capstone course requires student teams to combine research, planning and execution into a single advertising and public relations campaign developed for a real world organization.
Prerequisite: Minimum C- grade in MDJ 31002 (and MDJ 31003) or MDJ 48001 (and MDJ 48002).
Pre/corequisite: Minimum C- in MDJ 48003.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 41395 SELECTED TOPICS IN ADVERTISING AND PUBLIC RELATIONS 1-3 Credit Hours
(Repeatable for credit) Selected topics of interest in advertising and public relations not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Advertising major (or minor) or public relations major (or minor).
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 43034 ADVANCED CINEMATOGRAPHY 3 Credit Hours
This course is designed to build upon the basic methodologies learned in Digital Cinematography. The class will provide a unique opportunity to deepen and advance a student's experience and knowledge in the realm of cinematography, both technically and artistically, and to hone their craft and skills through producing content under the supervision of a professional cinematographer, as it relates to producing content for film, documentaries, online and television broadcast.
Prerequisite: MDJ 33043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 43035 ADVANCED MULTIMEDIA NEWS 3 Credit Hours
In this course, students will participate in telling stories from the surrounding communities in Northeast Ohio. Students will have the opportunity to produce a variety of multimedia content including, video, photo, data visualizations, text, social media stories, live and studio shows. This multimedia content will be distributed online, for television and on social media platforms. Students will increase their skills in one or more areas and will be challenged to expand their skills as well. Though not required, students are encouraged to take MDJ 46003, before taking this course.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C- grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 43395 SELECTED TOPICS IN DIGITAL MEDIA PRODUCTION 1-3 Credit Hours
(Repeatable for credit) Selected topics of interest in digital media production not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Digital Media Production major or minor.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 44036 ADVANCED VIDEO EDITING 3 Credit Hours
In this class, students analyze and assemble dramatic scenes under a variety of conditions and narrative strategies. Editing theories, techniques and procedures, issues of continuity, effects, movement and sound are examined as they relate to the fundamentals of cinematic montage and visual storytelling. This class presents a variety of topics and experiences that are designed to broaden the student's understanding of the art of cinematic storytelling and montage. By the end of the course, students will know how to use Adobe Premiere Pro (CC) to edit their own videos. They will know the software well enough to apply similar techniques and concepts to other Non-Linear Editing systems. The course will also teach students the important role editing plays in telling a story visually as well as broaden their ability to edit their own projects inside and outside of school.
Prerequisite: MDJ 30036.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 44050 POST-PRODUCTION SOUND 3 Credit Hours
(Slashed with MDJ 54050) Creating post-production sound for visual productions, including digital cinema, television and video games.
Prerequisite: Minimum C- grade in MDJ 33033; and minimum C- grade in MDJ 30036 or MDJ 33043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 44055 SUAS AERIAL CINEMATOGRAPHY 3 Credit Hours
(Slashed with MDJ 54055) Prepares interdisciplinary non-aeronautics majors to operate Small Unmanned Aircraft Systems (sUAS) safely and ethically in news gathering, research, cinematography and other digital production.
Prerequisite: Minimum C- grade in MDJ 30036.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 45000 TELEVISION SPORTS GRAPHICS PRODUCTION 3 Credit Hours
Techniques in creating and preparing TV and video graphics for live sports events. A GPA of 2.700 is required in the major.
Prerequisite: Minimum 2.000 overall GPA; and a school of media and journalism major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MDJ 45001 ADVANCED LIGHTING FOR DIGITAL FILM AND TELEVISION 3 Credit Hours
(Slashed with MDJ 55001) Introduction to theory and technique of lighting for video production. Course includes critical analysis of video lighting situations, the various tools available to light various production locations, including interviews and multi-camera narrative scenes. A 2.700 major GPA is required to enroll in the course.
Prerequisite: Minimum C- grade in MDJ 20011; and School of Media and Journalism major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 45005 HISTORICAL DOCUMENTARY PRODUCTION 3 Credit Hours
(Slashed with MDJ 55005) Chronicles the evolution of the historical television documentary and demonstrates the step-by-step production process required to create such a program. Students research and assemble a documentary with an overall appreciation of this genre's purpose in both the television industry and the popular culture. Minimum 2.700 major GPA is required to enroll in the course.
Prerequisite: Minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 46003 PRODUCING TELEVISION NEWS 3 Credit Hours
This course will introduce students to the theory and practice of producing television news and information programs. Students will learn the news philosophies behind pacing, flow, news values and story selection, as well as the finer points of writing for a visual medium like television.
Prerequisite: MDJ 26001 or MDJ 20011 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 46009 REPORTING PUBLIC POLICY 3 Credit Hours
(Slashed with MDJ 56009) Students in this course will learn how to report on all areas of public affairs and societal issues such as, education, government, crime, social justice, and equality. Students will gain an understanding of how government works, and how policy decisions disproportionately affect the population. This course builds on preceding coursework by introducing students to more advanced reporting techniques including explorations of data and visualization tools.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C-grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 46020 MAGAZINE DESIGN 3 Credit Hours
(Slashed with MDJ 56020) Marriage of words and visuals for designing magazine layouts and covers in desktop publishing.
Prerequisite: Minimum C- grade in MDJ 20004 or MDJ 23004 or MDJ 26001.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 46021 ADVANCED MAGAZINE WRITING 3 Credit Hours
(Slashed with MDJ 56021) Great writing comes to us in many ways, just as magazines do now. No longer confined to the printed page, magazine-style writing has found a home in digital environments where the word counts are unlimited and the shareability infinite. Magazines are created for targeted (not general) audiences who want their magazines to inform, amaze, delight, challenge, inspire, connect, surprise and entertain them. We will read instructive magazine-style journalism from the past and present and study its structures, methods and styles. You will produce writing destined for magazines and other outlets that publish original, deeply reported journalism. Though not required, it is recommended that students take MDJ 36018 prior to taking this course.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C- grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 46030 AUDIO STORYTELLING AND PODCASTING II 3 Credit Hours
In this course, students will take the technical and practical skills mastered in Audio Storytelling and Podcasting I to develop and execute a long-form, narrative podcast. Students will learn how to produce a multi-episodic podcast through one-on-one meetings and edits with the instructor and classmates. Students will also learn the ins and outs of the podcast industry, from consumer behavior and industry trends to publishing, promoting and distributing the podcast.
Prerequisite: Minimum C- grade in MDJ 36020.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 46057 MOTION GRAPHICS FOR VIDEO EDITING 3 Credit Hours
(Slashed with MDJ 56057) Covers the creation of motion graphics for video editing from the perspective of a professional editor. Students learn basic video effects such as digital matte creation and layered graphics for video productions. Students also gain a basic understanding of how to convert and compress video files for various deliverable formats. Adobe After Effects is the industry standard software application for creating motion graphics and is used extensively in the course.
Prerequisite: MDJ 20011 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 46395 SELECTED TOPICS IN JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Selected topics of interest in journalism not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Journalism major or minor.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 47003 TEACHING HIGH SCHOOL JOURNALISM 3 Credit Hours
(Slashed with MDJ 57003) Methods and materials for teaching journalism in high school.
Prerequisite: Junior or senior standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 48001 MEDIA RELATIONS AND PUBLICITY (WIC) 3 Credit Hours
(Slashed with MDJ 58001) Strategic planning and tactical preparation of materials for use by the news media and for use by an organization's publics via owned media. The course explores the media relations function, including media monitoring, factual organizational storytelling and informal spokesperson training, along with analyzing the uses and limitations of traditional, digital and social media in public relations practice.
Prerequisite: Minimum C- grade in MDJ 26007 or MDJ 26008; and minimum C- in MDJ 38002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MDJ 48002 PUBLIC RELATIONS TACTICS 3 Credit Hours
(Slashed with MDJ 58002) Planning and preparation of face-to-face public relations tactics, including special event planning, speeches and presentations with visual support and other applications of "writing for the ear." Students learn about enhancing their personal brands through face-to-face, written and digital techniques.
Prerequisite: Minimum C- grade in MDJ 26001.
Pre/corequisite: Minimum C- grade MDJ 38002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 48003 DIGITAL PUBLIC RELATIONS AND SOCIAL MEDIA 3 Credit Hours
(Slashed with MDJ 58003) Explores the basic concepts behind the theory, strategic planning, design and creation of effective websites, blogs, videos, podcasts, and social media. Students study and apply hands-on skills using a full range of digital techniques including search engine optimization, web accessibility, user experience and writing for online audiences.
Prerequisite: Minimum C- grade in MDJ 20008 and MDJ 31007 and MDJ 38002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 48006 PUBLIC RELATIONS PUBLICATIONS 3 Credit Hours
(Slashed with MDJ 58006) Planning, writing and design of organizational publications, including newsletters, brochures, fliers, promotional mailers and websites. Course also explores the print production process.
Prerequisite: Minimum C- grade in MDJ 26001; and Public Relations major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 48099 CAPSTONE: PUBLIC RELATIONS CAMPAIGNS (ELR) 3 Credit Hours
Capstone course requires student teams to combine research, planning and execution into a single public relations campaign developed for a real world organization.
Prerequisite: Minimum C- grade in MDJ 48001 and MDJ 48002.
Pre/corequisite: Minimum C- grade in MDJ 48003.
Schedule Type: Project or Capstone, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 49099 PRODUCTION II (ELR) 3 Credit Hours
In this course, each student will bring together the creative, technical, and project management skills they acquired in prior coursework to conceive, produce, and edit a senior capstone video or multimedia project. Students are encouraged to share their finished work with faculty, peers and external audiences such as film festivals.
Prerequisite: A minimum C- grade in MDJ 34140; and senior standing.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 50006 LAW OF MEDIA AND JOURNALISM 3 Credit Hours
(Slashed with MDJ 40006) Students will explore how the law affects media content and the work of its practitioners. Students will learn to identify potential legal issues and apply that knowledge to specific situations likely confronted by working media professionals across a variety of media industries. Students will also gain an appreciation of the history of the First Amendment and examine the role protections for free expression play in a diverse American society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50012 ONLINE JOURNALISM 3 Credit Hours
Study and evaluation of online news and news sites; reporting and writing for online news media; design, production and maintenance of an online news site; ethical, legal and economic issues related to online news.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50017 MEDIA ENTERPRISE 3 Credit Hours
(Slashed with MDJ 40017) This course will expose students to the business side of the media industry by exploring management issues unique to media organizations and the impact of those issues on the organization's structure, economics and employees. Students will also study the process of monetizing and distributing multimedia content to targeted audiences through various delivery streams. Students will apply entrepreneurial thinking as they explore the importance of promotion, branding and social media in today's media marketplace.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50020 AUDIO AND STILL PHOTO PRODUCTION 3 Credit Hours
(Slashed with MDJ 40020) Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio.
Prerequisite: Media and journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50027 RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES 3 Credit Hours
(Slashed with MDJ 40027) To introduce students to the many facets of diversity in media through the eyes and perspectives of practitioners and audiences. This class takes a critical survey of messages directed at specific members of the mass audience and how these messages help shape the culture through historical, legal, economic, political, social and artistic influences. Media institutions are examined in terms of how and why diverse content is produced and distributed. Special attention is paid to increasing students' level of media literacy by examining these messages.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50037 SCRIPTWRITING FOR VIDEO AND FILM 3 Credit Hours
(Slashed with MDJ 40037) The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50201 PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS 1 Credit Hour
(Slashed with MDJ 40201) Provides a basic understanding of the public affairs role in public relations. Course specifically examines how external factors surrounding an organization can trigger disruption, opportunity, change, adaptation and evolution. Students explore techniques for anticipating, managing and adapting to or changing those forces. Primary attention is paid to environmental scanning, issue and stakeholder identification and management, lobbying, advocacy and ethical implications of public policy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 50202 PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION 1 Credit Hour
(Slashed MDJ 40202) Provides a basic understanding of the best practices of crisis planning, preparation, communication and management. Course focuses on the critical capabilities, team work and decision-making skills required of public relations practitioners during periods of intense organizational turbulence, crisis and reputational threat across numerous stakeholder groups. Those groups includ internal, external, public, private and legislative audiences.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 50295 SELECTED TOPICS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) (Slashed with MDJ 40295) Selected topics of special interest not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Media and journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 54050 POST-PRODUCTION SOUND 3 Credit Hours
(Slashed with MDJ 44050) Creating post-production sound for visual productions, including digital cinema, television and video games.
Prerequisite: Media and Journalism major; and graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 54055 SUAS AERIAL CINEMATOGRAPHY 3 Credit Hours
(Slashed with MDJ 44055) Prepares interdisciplinary non-aeronautics majors to operate Small Unmanned Aircraft Systems (sUAS) safely and ethically in news gathering, research, cinematography and other digital production.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 55001 ADVANCED LIGHTING FOR DIGITAL FILM AND TELEVISION 3 Credit Hours
(Slashed with MDJ 45001) Introduction to theory and technique of lighting for video production. Includes critical analysis of video lighting situations, the various tools available to light various production locations, including interviews and multi-camera narrative scenes.
Prerequisite: Media and Journalism major; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 55005 HISTORICAL DOCUMENTARY PRODUCTION 3 Credit Hours
Chronicles the evolution of the historical television documentary and demonstrates the step-by-step production process required to create such a program. Students research and assemble a documentary with an overall appreciation of this genre's purpose in both the television industry and the popular culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 56009 REPORTING PUBLIC POLICY 3 Credit Hours
(Slashed with MDJ 46009) Students in this course will learn how to report on all areas of public affairs and societal issues such as, education, government, crime, social justice and equality. Students will gain an understanding of how government works and how policy decisions disproportionately affect the population. This course builds on preceding coursework by introducing students to more advanced reporting techniques including explorations of data and visualization tools.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 56020 MAGAZINE DESIGN 3 Credit Hours
(Slashed with MDJ 46020) Marriage of words and visuals for designing magazine layouts and covers in desktop publishing.
Prerequisite: MDJ 56016; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 56021 ADVANCED MAGAZINE WRITING 3 Credit Hours
(Slashed with MDJ 46021) Great writing comes to us in many ways, just as magazines do now. No longer confined to the printed page, magazine-style writing has found a home in digital environments where the word counts are unlimited and the shareability infinite. Magazines are created for targeted (not general) audiences who want their magazines to inform, amaze, delight, challenge, inspire, connect, surprise and entertain them. We will read instructive magazine-style journalism from the past and present and study its structures, methods and styles. You will produce writing destined for magazines and other outlets that publish original, deeply reported journalism.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 56057 MOTION GRAPHICS FOR VIDEO EDITING 3 Credit Hours
(Slashed with MDJ 46057) Covers the creation of motion graphics for video editing from the perspective of a professional editor. Students learn basic video effects such as digital matte creation and layered graphics for video productions. Students also gain a basic understanding of how to covert and compress video files for various deliverable formats. Adobe After Effects is the industry standard software application for creating motion graphics and is used extensively in the course.
Prerequisite: Media and Journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 57003 TEACHING HIGH SCHOOL JOURNALISM 3 Credit Hours
(Slashed with MDJ 47003) Methods and materials for teaching journalism in high school.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 58001 MEDIA RELATIONS AND PUBLICITY 3 Credit Hours
(Slashed with MDJ 48001) Strategic planning and tactical preparation of materials for use by the news media and for use by an organization's publics via owned media. The course explores the media relations function, including media monitoring, factual organizational storytelling and informal spokesperson training, along with analyzing the uses and limitations of traditional, digital and social media in public relations practice.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 58002 PUBLIC RELATIONS TACTICS 3 Credit Hours
(Slashed with MDJ 48002) Planning and preparation of face-to-face public relations tactics, including special event planning, speeches and presentations with visual support and other applications of "writing for the ear." Students learn about enhancing their personal brands through face-to-face, written and digital techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 58003 DIGITAL PUBLIC RELATIONS AND SOCIAL MEDIA 3 Credit Hours
(Slashed with MDJ 48003) Explores the basic concepts behind the theory, strategic planning, design and creation of effective websites, blogs, videos, podcasts, and social media. Students study and apply hands-on skills using a full range of digital techniques including search engine optimization, web accessibility, user experience and writing for online audiences.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 58006 PUBLIC RELATIONS PUBLICATIONS 3 Credit Hours
(Slashed with MDJ 48006) Planning, writing and design of organizational publications, including newsletters, brochures, fliers, promotional mailers and websites. Course also explores the print production process.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60003 TEACHING JOURNALISM ETHICS 3 Credit Hours
Study of ethical problems of mass media in society; analysis of media policies; performance evaluation.
Prerequisite: Media and Journalism major and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60009 SOCIAL ROLE OF THE MASS MEDIA 3 Credit Hours
Application of professional, theoretical, historical, economic and political perspectives to examine the role of mass media in society both in terms of structure and function.
Prerequisite: Media and Journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60011 THEORY AND SOCIETAL ROLE OF MEDIA AND JOURNALISM 3 Credit Hours
(Slashed with MDJ 80011) "Social role" of media is not about social media. It is about the role of media in contemporary society. The two concepts are not the same. Instead of Tweeting and Facebooking, this course covers the historical and political roles of the media: responsibility to society through roles the media exhibit. Terms like gatekeeping, literacy, leadership and enabling citizen involvement are rooted in social responsibility and will be the focus in this course about how to empower the youth of today – who are the leaders of tomorrow – with media tools and ideas that best fulfill the historical and future roles society most needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60012 MEDIA LAW AND ETHICS 3 Credit Hours
(Slashed with MDJ 80012) In this course, students will develop an understanding of the rule of law and the American judicial system; origins of the First Amendment; First Amendment theory; the special case of scholastic journalism; Categories of speech; Censorship; Libel; Privacy; Information gathering; Social norms and the law; Intellectual property; Regulation of advertising and broadcasting; Theories of ethical decision making; Ethical decision-making tools.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60021 LITERARY JOURNALISM 3 Credit Hours
Research, interviewing, writing and marketing major magazine articles for online and print publications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60096 INDIVIDUAL INVESTIGATION IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Individual investigation of selected area or problem approved by graduate faculty.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Maximum of 3 hours may be applied to degree if school approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

MDJ 60195 SPECIAL TOPICS SEMINAR IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Study of selected topics of special interest in media and journalism not covered in depth in existing courses; offered as resources permit.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 60196 READINGS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Students pursue course of readings approved by instructor to cover a subject specialty in media and journalism they cannot obtain from formal course offerings.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MDJ 60295 SPECIAL TOPICS IN COMPUTER LAB 1-3 Credit Hours
(Repeatable for credit) Selected topics of special interest not covered in depth in existing courses; offered as resources permit.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 1-3 lab
Grade Mode: Standard Letter

MDJ 60299 THESIS II 2 Credit Hours
Thesis student must continue registration each semester until all degree requirements are met.
Prerequisite: MDJ 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MDJ 60399 MASTER'S PROFESSIONAL PROJECT 3 Credit Hours
Completion and defense of a substantial professional project in one of the fields of media and journalism.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MDJ 60701 ADVISING STUDENT MEDIA 3 Credit Hours
In this course, students learn that an adviser should advise, not edit or create content, and in learning this, students will discern the difference between the roles of adviser and student editor. Students will create sample forms, such as advertising contracts and beat sheets; develop a staff manual; and construct an editorial policy that values students' right to make content decisions.#They will also cover the challenges of dealing with other stakeholders, especially school administrators.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 61001 PRINCIPLES AND PRACTICES OF DIGITAL MEDIA 3 Credit Hours
Explores the history and philosophies of online communities and what makes them work. Examines how professionals integrate digital thinking into an organization's communication. Covers best practices for producing social media content that will lead to effective engagement.
Prerequisite: Media and Journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 64036 DIGITAL VIDEO EDITING 3 Credit Hours
Focus is on editing workflow and techniques for both non-fiction and fiction video production.
Prerequisite: Media and Journalism major; and graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 66010 SPECIALIZED REPORTING 3 Credit Hours
Newsgathering techniques in specialty areas such as politics, labor, medicine, business and technology techniques of team reporting.
Prerequisite: MDJ 56009; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 66011 REPORTING, WRITING AND EDITING FOR MEDIA 3 Credit Hours
This course is the foundation of all content for student media and shifts the emphasis of writing from creating for a teacher to creating for an audience. Focus will be on news values and how#these values guide#much of what and how journalists produce;#news gathering using both live and print sources; coaching, editing and revising to meet the needs and wants of the audience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 66092 INTERNSHIP IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Experience in a department or company involving supervised professional responsibilities in media and journalism.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 67067 TEACHING MEDIA LITERACY 3 Credit Hours
This course explores the foundations of media literacy, pedagogical applications in the journalism classroom, and its place among concomitant literacies (specifically media and information literacy). By emphasizing the importance of quality information, exploring changes and challenges to the news industry, and advocating for a critical consumer approach to news media, this course prepares journalism educators to better meet the needs of students in a digital world. Students in the course will also develop curriculum and lesson materials in media literacy topics for their own current and future classroom use.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 67075 MEDIA CONTENT CREATION 3 Credit Hours
Introduction to recognizing and producing some of the basic linear and non-linear journalistic multimedia tools used for content creation, including audio, video and still images.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 67085 TEACHING PHOTOJOURNALISM 3 Credit Hours
Examines the components of photojournalism and prepares instructors to teach those components to their students. In addition to traditional assignments and projects, instructors and students maintain a weekly dialog. Students gain the following skills necessary to teach their classes: basic operation of a digital camera, essential components of good photography, how to capture images that tell a story, strategies for covering news, features and sporting events as well as portraits and group shots, strategies for organizing and archiving images and ethical practices for capturing images and using them in publication work.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 67087 ADVISING YEARBOOK 3 Credit Hours
Students gain contextual information regarding yearbook roles in history and memory along with practical skills for recruitment, staff organization, staffing and production; and incorporating the creation of the yearbook into a classroom setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 80011 THEORY AND SOCIETAL ROLE OF MEDIA AND JOURNALISM 3 Credit Hours
(Slashed with MDJ 60011) "Social role" of media is not about social media. It is about the role of media in contemporary society. The two concepts are not the same. Instead of Tweeting and Facebooking, this course covers the historical and political roles of the media: responsibility to society through roles the media exhibit. Terms like gatekeeping, literacy, leadership and enabling citizen involvement are rooted in social responsibility and will be the focus in this course about how to empower the youth of today – who are the leaders of tomorrow – with media tools and ideas that best fulfill the historical and future roles society most needs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 80012 MEDIA LAW AND ETHICS 3 Credit Hours
(Slashed with MDJ 60012) In this course, students will develop an understanding of the rule of law and the American judicial system; origins of the First Amendment; First Amendment theory; the special case of scholastic journalism; categories of speech; censorship; libel; privacy; information gathering; social norms and the law; intellectual property; regulation of advertising and broadcasting; theories of ethical decision making; ethical decision-making tools.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 80195 SPECIAL TOPICS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours
(Repeatable for credit) Study of important topics in mass communication. Offered irregularly in response to existing interests and opportunities.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 88001 PUBLIC RELATIONS MANAGEMENT 3 Credit Hours
(Slashed with MDJ 68001) Perspectives, skills needed to manage an organization's PR function, particularly strategic planning, implementation and evaluation. Emphasis on managerial aspects of negotiating organizational relationships with the public.
Prerequisite: A major in the College of Communication and Information; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

School of Information

Health Informatics (HI)

HI 41095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) Topics could include current or emerging issues in health informatics. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HI 41096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level. In-progress (IP) mark permissible.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

HI 60401 HEALTH INFORMATICS MANAGEMENT 3 Credit Hours
(Slashed with HI 80401) This introductory course is a survey course that acts as a foundation for all other courses in the Health Informatics program. Basic concepts of Health Informatics are emphasized throughout. The course targets students who at some point in their career will oversee or have direct input on one of the highest expenditure areas for health care organizations--the planning, selection, deployment and management of electronic medical records (EMR), management decision-support and tracking systems (DSS) and other health information technologies (health IT).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60402 LEGAL ISSUES IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 80402) This course provides students with an introduction to the fundamentals of law for Health Informatics and Information Management. Components of learning will include general legal principles and regulatory issues in the U.S. healthcare system. Primary topics will include ethical issues, consideration of state laws and the Federal Health Insurance Portability and Accountability Act (HIPAA), privacy and security rules. Through discussion board and writing assignments, students will demonstrate understanding of practical issues of health information access, its use and disclosure, and the legal and regulatory consequences associated with breaches of health information confidentiality and security. We will explore some of the special legal issues with electronic health records (EHR) and health information exchange; secondary uses of health information; compliance; and related ethics issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60403 HEALTH INFORMATION SYSTEMS 3 Credit Hours
(Slashed with HI 80403) Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60410 HEALTH RECORDS MANAGEMENT 3 Credit Hours
(Slashed with HI 80410) This course examines Health Information Management, the role of the HIM professional in the context of the health system and the role of the health record. The role of information management and documentation principles is essential to the successful application of technology and ensuring an effective health information infrastructure. The course discusses confidentiality, privacy, security, reliable standards, data integrity, quality, governance, and ethical principles that make health care information of use for organizations and individuals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60411 CLINICAL ANALYTICS 3 Credit Hours
(Slashed with HI 80411) The use of well-defined and well-integrated clinical analytics throughout the healthcare value chain can be transformative. Through careful implementation of health analytics, hospitals can transform unwieldy amalgamations of data into information that can: improve patient outcomes, increase safety, enhance operational efficiency and support public health. Given the immense size of the data challenge, the distinctness and geographic spread of many healthcare-related activities, and the fact that so many healthcare activities are conducted by different entities which must interact with each other, there is really no other way to provide operations management tools necessary to deliver personalized medicine and to control spiraling costs. Since clinical analytics is an immature discipline, we carefully examine the practices of those institutions that are standard setters in the industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60412 CLINICAL DECISION SUPPORT 3 Credit Hours
(Slashed with HI 80412) Provides a practical survey of clinical decision support systems that collect clinical data and enable the transition to clinical knowledge in real world applications intended to improve quality and safety of patient care. Students become familiar with the basic requirements for clinical decision support systems and the challenges associated with the development and deployment of new applications within the healthcare setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60413 CHANGE MANAGEMENT IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 80413) Designed to cover the process of change management in large healthcare organizations in light of current trends. Topics related to technology requirements, technology implementations, risk assessment and buy-in are among those covered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60414 HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 80414) Provides students with the foundational principles of usability and human factors as applied to safety and quality in health informatics technology. Course readings and materials review the concepts of human factors, usability and the cognitive consequences of health information technology on clinical performance and decision making. Attention is given to the role of mobile computing in health care, as well as information visualization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60416 HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS 3 Credit Hours
(Slashed with HI 80416) This course uses a policy analysis lens to critically examine issues related to the use of information technology in healthcare from an ethical, political and regulatory perspective. Course's primary focus is on the United States, but international approaches are also be discussed. Legislation affecting health information technology area are examined,including the American Reinvestment and Recovery Act, HITECH section; Affordable Care Act and Health Insurance Portability and Accountability Act (HIPAA) of 1996. Topics and issues related to health informatics also are discussed, including structure of health administrative and delivery systems, assessment of population health, models of health care delivery, access and quality of care.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60417 PUBLIC HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 80417) Public Health Informatics (PHI) is an emergent, interdisciplinary field that focuses on the systematic management and dynamic application of information resources to enhance public health practice, education and research. As an emerging subset of Health Informatics, PHI is practiced by individuals, governmental and nongovernmental organizations at the international, national, regional, state and local levels. PHI deals with the collection and analysis of vital statistics data through surveillance; information creation; information storage and retrieval; visualization and graphics; dissemination; use of information for policy, decision making and trend tracking. The purpose of this course is to provide students with an introductory overview of the vast and dynamic field of PHI, including definitions, approaches, competencies, applications and informatics principles applied in public health settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60418 CLINICAL ANALYTICS II 3 Credit Hours
As the volume and complexity of health data continues to grow, analysis of that data requires more advanced tools to transform that data into meaningful information for clinical decisions. Not only is data from electronic medical records (EMRs) growing at a rapid pace but new types of data are available for analysis, such as, genomic data and patient generated data. These advanced analytic tools break down into three areas, each of which will be examined in this course: new data warehousing techniques to manage big data, new analytic tools including cognitive computing and predictive analytics and new ways to visualize the data. All of these techniques transform the raw data into use cases, such as, population health, precision medicine and clinical decision support using artificial intelligence and machine learning which will also be addressed in this course.
Prerequisite: HI 60411; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60419 CONSUMER HEALTH INFORMATICS 3 Credit Hours
This course examines the history and current trends in consumer health informatics, examining how patients and healthcare stakeholders manage health in the digital age. The evolution of health information technology has expanded the role of the patient to include being a consumer of healthcare, bringing with it more capabilities and responsibilities. The course will discuss health information and communication technologies and their influence on health care for patients, affecting health information seeking behaviors and expectations among multiple stakeholder groups. The course will discuss US and global perspectives for health information professionals serving health information needs in the community and in medical, academic, and public libraries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60636 STANDARDIZED TERMINOLOGIES IN HEALTHCARE 3 Credit Hours
Introduce various types of standardized healthcare terminologies (controlled vocabularies) used in the Electronic Health Records (EHR) and Health information Exchange (HIE). Present the benefits of using standardized terminologies, as well as the interoperability and Meaningful Use (MU) requirements and standards. Explain the purposes, structures, components, and application of the most widely implemented standardized terminologies such as ICD, CPT, SNOMED CT, LOINC, RxNorm, ICNP and UMLS.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60691 SEMINAR IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with HI 80691) Advanced research by students who are qualified to examine problems of certain special areas in health informatics.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HI 60693 VARIABLE TITLE WORKSHOP IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit). Intensive examination of special topics of interest to those involved in health informatics program. Maximum workshop credit for the M.S. degree in health informatics is 4 semester hours.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HI 60792 ELECTIVE INTERNSHIP IN HEALTH INFORMATICS 2-3 Credit Hours
(Repeatable for credit) Supervised work experience in health informatics of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6.66-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 61095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with HI 81095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in health informatics. Specific topics are announced in the Schedule of Classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HI 61096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for master's level students. Maximum 6 credit hours towards master's degree.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

HI 66092 MASTER'S INTERNSHIP IN HEALTH INFORMATICS 3 Credit Hours
Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of health informatics and integrates their knowledge from all HI courses and experiences.
Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 66099 MASTER'S PROJECT IN HEALTH INFORMATICS 3 Credit Hours
Provides a means for the application of the knowledge, research and competencies learned through study in health informatics to the development of an information system, product, setting or service.
Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum overall 3.000 GPA; and graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 66198 MASTER'S RESEARCH PAPER IN HEALTH INFORMATICS 3 Credit Hours
Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the Health Informatics master's degree.
Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 66199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 66299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: HI 66199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 80401 HEALTH INFORMATICS MANAGEMENT 3 Credit Hours
(Slashed with HI 60401) This introductory course is a survey course that acts as a foundation for all other courses in the Health Informatics program. Basic concepts of Health Informatics are emphasized throughout. The course targets students who at some point in their career will oversee or have direct input on one of the highest expenditure areas for health care organizations--the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS), and other health information technologies (health IT).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80402 LEGAL ISSUES IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 60402) This course provides students with an introduction to the fundamentals of law for Health Informatics and Information Management. Components of the learning will include general legal principles and regulatory issues in the U.S. healthcare system. Primary topics will include ethical issues, consideration of state laws and the Federal Health Insurance Portability and Accountability Act (HIPAA), privacy and security rules. Through discussion board and writing assignments, students will demonstrate understanding of practical issues of health information access, its use and disclosure, and the legal and regulatory consequences associated with breaches of health information confidentiality and security. We will explore some of the special legal issues with electronic health records (EHR) and health information exchange; secondary uses of health information; compliance; and related ethics issues.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80403 HEALTH INFORMATION SYSTEMS 3 Credit Hours
(Slashed with HI 60403) Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80410 HEALTH RECORDS MANAGEMENT 3 Credit Hours
(Slashed with HI 60410) This course examines Health Information Management, the role of the HIM professional in the context of the health system and the role of the health record. The role of information management and documentation principles is essential to the successful application of technology and ensuring an effective health information infrastructure. The course discusses confidentiality, privacy, security, reliable standards, data integrity, quality, governance, and ethical principles that make health care information of use for organizations and individuals.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80411 CLINICAL ANALYTICS 3 Credit Hours
(Slashed with HI 60411) The use of well-defined and well integrated clinical analytics throughout the healthcare value chain can be transformative. Through careful implementation of health analytics, hospitals can transform unwieldy amalgamations of data into information that can: Improve patient outcomes, increase safety, enhance operational efficiency and support public health. Given the immense size of the data challenge, the distinctness and geographic spread of many healthcare-related activities, and the fact that so many healthcare activities are conducted by different entities which must interact with each other, there is really no other way to provide operations management tools necessary to deliver personalized medicine and to control spiraling costs. Since clinical analytics is an immature discipline, we carefully examine the practices of those institutions that are standard setters in the industry.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80412 CLINICAL DECISION SUPPORT 3 Credit Hours
(Slashed with HI 60412) Provides a practical survey of clinical decision support systems that collect clinical data and enable the transition to clinical knowledge in real world applications intended to improve quality and safety of patient care. Students become familiar with the basic requirements for clinical decision support systems and the challenges associated with the development and deployment of new applications within the healthcare setting.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80413 CHANGE MANAGEMENT IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 60413) Designed to cover the process of change management in large healthcare organizations in light of current trends. Topics related to technology requirements, technology implementations, risk assessment, end user computing and buy-in are among those covered.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80414 HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 60414) Provides students with the foundational principles of usability and human factors as applied to safety and quality in health informatics technology. Course readings and materials review the concepts of human factors, usability, and the cognitive consequences of health information technology on clinical performance and decision making. Attention is given to the role of mobile computing in health care, as well as information visualization.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80416 HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS 3 Credit Hours
(Slashed with HI 60416) This course uses a policy analysis lens to critically examine issues related to the use of information technology in healthcare from an ethical, political and regulatory perspective. Course's primary focus is on the United States, but international approaches are also be discussed. Legislation affecting health information technology area are examined,including the American Reinvestment and Recovery Act, HITECH section; Affordable Care Act and Health Insurance Portability and Accountability Act (HIPAA) of 1996. Topics and issues related to health informatics also are discussed, including structure of health administrative and delivery systems, assessment of population health, models of health care delivery, access and quality of care.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80417 PUBLIC HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 60417) Public Health Informatics (PHI) is an emergent, interdisciplinary field that focuses on the systematic management and dynamic application of information resources to enhance public health practice, education and research. As an emerging subset of Health Informatics, PHI is practiced by individuals, governmental and nongovernmental organizations at the international, national, regional, state and local levels. PHI deals with the collection and analysis of vital statistics data through surveillance; information creation; information storage and retrieval; visualization and graphics; dissemination; use of information for policy, decision making and trend tracking. The purpose of this course is to provide students with an introductory overview of the vast and dynamic field of PHI, including definitions, approaches, competencies, applications and informatics principles applied in public health settings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80691 SEMINAR IN HEALH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with HI 60691) Advanced research by students who are qualified to examine problems of certain special areas in health informatics.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HI 81095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with HI 61095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in health informatics. Specific topics are announced in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HI 81096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit). Research or individual investigation in areas not covered by the existing curriculum for doctoral level students. Deliverables determined with instructor of record.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

Knowledge Management (KM)

KM 41095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Topics could include current or emerging issues in knowledge management. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

KM 41096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

KM 60301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT 3 Credit Hours
(Slashed with KM 80301) An introduction to the field of Knowledge Management (KM) with particular attention given to KM practices in various environments such as business, government, the military, non-profits, education, communities and societies. This course will provide students with an understanding of the nature of knowledge, core KM principles, KM processes, the KM life cycle, KM social and technological tools, KM's effects and effectiveness, KM ethics, KM strategy and significant KM issues such as culture, and innovation. Covers principles of collection versus connection as to knowledge.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60302 DESIGNING AND IMPLEMENTING KNOWLEDGE MANAGEMENT IN THE WORKPLACE 3 Credit Hours
(Slashed with KM 80302). This course will explore how to effectively create a Knowledge Management (KM) program, including learning about factors that can lead to either success or failure. Two broad areas of focus will include purposeful collaboration and effective networking. This course will cover a complete KM program methodology starting from the initial steps to form a KM program and how to create an implementation plan to give any organization the greatest chance to go from strategy to action to sustainability.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60303 KNOWLEDGE METRICS AND ASSESSMENT 3 Credit Hours
(Slashed with KM 80303) Learn how to design, build, and operate a measurement strategy that evaluates the effectiveness of a Knowledge Management (KM) program and its components in achieving business objectives. The course provides an overview of overall organization measurement approaches (e.g., focus groups, interviews, surveys) and applies them in a KM context (e.g., KM Maturity Model, Communities of Practice, Search, Expert Finding). Students will also learn how to tailor their presentation of resulting metrics for specific audiences (KM practitioner, business leader, etc.). Students will apply what they have learned to develop a measurement strategy using case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60305 COMMUNITIES OF PRACTICE 3 Credit Hours
(Slashed with KM 80305) This course will explore communities and community management from a practical perspective. It will enable students to learn how knowledge management leaders launch and lead communities of practice programs as part of their initiatives. Students will learn how community managers do their jobs successfully through applying proven practices for creating and cultivating communities. The course exposes students to the fundamental concepts and principles of communities of practice and includes real life case studies. Students will complete a course project pertaining to community of practice evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60306 THOUGHT LEADERSHIP AND CAREER DEVELOPMENT IN KNOWLEDGE MANAGEMENT 1 Credit Hour
(Slashed with KM 80306) Students will develop thought leadership strategies and innovative ideas to build their professional agenda and guide career planning. Students will review their knowledge of business from a knowledge management perspective and identify related career path options. Students will share their career options to help determine their M.S. program plan.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

KM 60308 EMERGING TECHNOLOGIES IN KNOWLEDGE MANAGEMENT 3 Credit Hours
(Slashed with KM 80308) Explores the various emerging digital technologies and their application to the digital workplace that complement the human aspects of knowledge management. Work process digitalization is accelerating and artificial intelligence and mixed reality devices are critical technologies that will allow knowledge management professionals to deliver instant, relevant knowledge in the context of the work for both field and knowledge workers. Includes real life case studies of pioneers of emerging digital technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60312 STRATEGIC INTELLIGENCE 3 Credit Hours
(Slashed with KM 80312) This course is an introduction to strategic intelligence, consisting of competitive and business intelligence. Strategic intelligence is both art and science, used for critical decision-making, planning and response. Businesses and governments require effective intelligence programs, processes and tools, to track competitors, markets and trends by acquiring, organizing, analyzing and disseminating intelligence. Students will learn about the intelligence cycle, needs analysis and intelligence analysis resources, techniques and technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60316 ORGANIZATIONAL CULTURE ASSESSMENT 3 Credit Hours
(Slashed with KM 80316) In this course, students will examine different types of cultures and how each type influences a knowledge organization - how culture influences the way knowledge workers work, how they make decisions and how they behave, the internal cultures of groups and communities, the cultural attributes of knowledge workers which may impact their knowledge behaviors. Organizational cultures of multicultural, global and virtual organizations are covered in this course. Students conduct an organizational culture assessment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60370 SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES 3 Credit Hours
(Slashed with KM 80370) Introduces students to the practical contexts, methods and tools associated with semantic analysis. Focuses on early life cycle aspects of semantics, including identification and modeling of semantic problems, design of semantic solutions, and the identification and implementation of appropriate semantic technologies. Covers natural language processing, rule-based and grammar based concept extraction, rule-based and dynamic classification and automated summarization. Students work with a variety of semantic technologies.
Prerequisite: BA 64036 or EMAT 64210 or KM 60301; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60691 SEMINAR IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) (Slashed with KM 80691) Advanced research by students who are qualified to examine problems of certain special areas in knowledge management.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

KM 60693 VARIABLE TITLE WORKSHOP IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Intensive examination of special topics of interest to those involved in knowledge management.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

KM 61095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) (Slashed with KM 81095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in knowledge management. Specific topics are announced in the Schedule of Classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

KM 61096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for master's level students. Maximum credit towards master's degree: 6 hours.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

KM 66092 MASTER'S INTERNSHIP IN KNOWLEDGE MANAGEMENT 3 Credit Hours
Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of knowledge management and integrates their knowledge from all KM courses and experiences.
Prerequisite: KM 60301, KM 60302, KM 60306, LIS 60636 and MGMT 64158; and a minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 66099 MASTER'S PROJECT IN KNOWLEDGE MANAGEMENT 3 Credit Hours
Provides a means for the application of the knowledge, research and competencies learned through study in knowledge management to the development of an information system, product, setting or service.
Prerequisite: KM 60301, KM 60302, KM 60306, LIS 60636 and MGMT 64158; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 66198 MASTER'S RESEARCH PAPER IN KNOWLEDGE MANAGEMENT 3 Credit Hours
Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the Knowledge Management master's degree.
Prerequisite: KM 60301, KM 60303, KM 60306, LIS 60636 and MGMT 64158; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Master's Project
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 66199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: KM 60301, KM 60302, KM 60306, LIS 60636; MGMT 64158; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 66299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: KM 66199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 80301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT 3 Credit Hours
(Slashed with KM 60301) An introduction to the field of Knowledge Management (KM) with particular attention given to KM practices in various environments such as business, government, the military, non-profits, education, communities, and societies. This course will provide students with an understanding of the nature of knowledge, core KM principles, KM processes, the KM life cycle, KM social and technological tools, KM's effects and effectiveness, KM ethics, KM strategy, and significant KM issues such as culture, and innovation. Covers principles of collection versus connection as to knowledge.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80302 DESIGNING AND IMPLEMENTING KNOWLEDGE MANAGEMENT IN THE WORKPLACE 3 Credit Hours
(Slashed with KM 60302). This course will explore how to effectively create a Knowledge Management (KM) program, including learning about factors that can lead to either success or failure. Two broad areas of focus will include purposeful collaboration and effective networking. This course will cover a complete KM program methodology starting from the initial steps to form a KM program and how to create an implementation plan to give any organization the greatest chance to go from strategy to action to sustainability.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80303 KNOWLEDGE METRICS AND ASSESSMENT 3 Credit Hours
(Slashed with KM 60303) Learn how to design, build, and operate a measurement strategy that evaluates the effectiveness of a Knowledge Management (KM) program and its components in achieving business objectives. The course provides an overview of overall organization measurement approaches (e.g., focus groups, interviews, surveys) and applies them in a KM context (e.g., KM Maturity Model, Communities of Practice, Search, Expert Finding). Students will also learn how to tailor their presentation of resulting metrics for specific audiences (KM practitioner, business leader, etc.). Students will apply what they have learned to develop a measurement strategy using case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80305 COMMUNITIES OF PRACTICE 3 Credit Hours
(Slashed with KM 60305) This course will explore communities and community management from a practical perspective. It will enable students to learn how knowledge management leaders launch and lead communities of practice programs as part of their initiatives. Students will learn how community managers do their jobs successfully through applying proven practices for creating and cultivating communities. The course exposes students to the fundamental concepts and principles of communities of practice, and includes real life case studies. Students will complete a course project pertaining to community of practice evaluation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80306 THOUGHT LEADERSHIP AND CAREER DEVELOPMENT IN KNOWLEDGE MANAGEMENT 1 Credit Hour
(Slashed with KM 60306). Students will develop thought leadership strategies and innovative ideas to build their professional agenda and guide career planning. Students will review their knowledge of business from a knowledge management perspective and identify related career path options.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

KM 80308 EMERGING TECHNOLOGIES IN KNOWLEDGE MANAGEMENT 3 Credit Hours
(Slashed with KM 60308) Explores the various emerging digital technologies and their application to the digital workplace that complement the human aspects of knowledge management. Work process digitalization is accelerating and artificial intelligence and mixed reality devices are critical technologies that will allow knowledge management professionals to deliver instant, relevant knowledge in the context of the work for both field and knowledge workers. Includes real life case studies of pioneers of emerging digital technologies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80316 ORGANIZATIONAL CULTURE ASSESSMENT 3 Credit Hours
(Slashed with KM 60316) In this course, students will examine different types of cultures and how each type influences a knowledge organization - how culture influences the way knowledge workers work, how they make decisions and how they behave, the internal cultures of groups and communities, the cultural attributes of knowledge workers which may impact their knowledge behaviors. Organizational cultures of multicultural, global and virtual organizations are covered in this course. Students conduct an organizational culture assessment.
Prerequisite: KM 80301; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80370 SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES 3 Credit Hours
(Slashed with KM 60370) Introduces students to the practical contexts, methods and tools associated with semantic analysis. Focuses on early life cycle aspects of semantics, including identification and modeling of semantic problems, design of semantic solutions and the identification and implementation of appropriate semantic technologies. Covers natural language processing, rule-based and grammar based concept extraction, rule-based and dynamic classification and automated summarization. Students work with a variety of semantic technologies.
Prerequisite: KM 80301; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80691 SEMINAR IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) (Slashed with KM 60691) Advanced research by students who are qualified to examine problems of certain special areas in knowledge management.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

KM 81095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) (Slashed with KM 61095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in knowledge management. Specific topics are announced in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

KM 81096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit). Research or individual investigation in areas not covered by the existing curriculum for doctoral level students. Deliverables determined with instructor of record.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

Library and Information Science (LIS)

LIS 20600 APPLIED DATA AND INFORMATION FUNDAMENTALS 3 Credit Hours
This course provides an introduction to data science from an information science perspective. Key elements include the role and impact of data on people and society; the disciplinary and interdisciplinary nature of data science; the information science approach to data in an applied area; the stages of data in the data lifecycle; basic knowledge and skills associated with various stages of the data lifecycle; data-related standards, principles, and best practices to make data more accessible, discoverable, retrievable, and usable; and human-centered, ethical, and contextual considerations of data.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 30010 INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND 3 Credit Hours
This course is designed to help students understand, navigate and become full participants in information society. It goes beyond basic library and internet skills to highlight issues specific to professional information environments. Emphasis is placed on acknowledging the contextual, dynamic and fluid nature of information to further understand it as a process, commodity and entity. Students will examine and critically reflect on the value of using multiple information resources and emerging technologies to fill gaps in academic, professional and personal information contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 40645 DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS 3 Credit Hours
(Slashed with LIS 50645) Characteristics and concepts of database; different types of database models; conceptual database design and implementation; the relational database model and its application in practice for information professionals: key issues, principles, and techniques; data storage, processing, retrieval, analysis, and reporting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 40646 RESEARCH DATA MANAGEMENT 3 Credit Hours
(Slashed with LIS 50646) This course introduces students to current and historical issues and practice in the creation, management, curation, access and reuse of research data. Other related topics to be addressed include systems and standards for collecting, curating and preserving research data across different disciplines and contexts. Students will develop the skills to create actionable data management plans, to support sustainable projects and to work with researchers to build, access and maintain data infrastructures. Students will have the opportunity to apply some basic principles in their respective disciplinary interests.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 40647 INTRODUCTION TO DIGITAL HUMANITIES 3 Credit Hours
(Slashed with LIS 50647) Provides students with a greater understanding of how new forms of knowledge production and representation, computational thinking and applications of various information and digital technologies have impacted research and pedagogy in humanities disciplines. Special attention is given to how information professionals can support and promote digital humanities work. Students have the opportunity to explore, apply and critique the technologies, tools, methods and values of the digital humanities field.
Pre/corequisite: LIS 40645.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 40693 VARIABLE TITLE WORKSHOP IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) Intensive examination of special topics of interest in information studies.
Prerequisite: Junior or senior standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

LIS 41095 SPECIAL TOPICS IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 51095) Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 50645 DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS 3 Credit Hours
(Slashed with LIS 40645) Characteristics and concepts of database; different types of database models; conceptual database design and implementation; the relational database model and its application in practice for information professionals: key issues, principles, and techniques; data storage, processing, retrieval, analysis, and reporting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 50646 RESEARCH DATA MANAGEMENT 3 Credit Hours
(Slashed with LIS 40646) This course introduces students to current and historical issues and practice in the creation, management, curation, access and reuse of research data. Other related topics to be addressed include systems and standards for collecting, curating and preserving research data across different disciplines and contexts. Students will develop the skills to create actionable data management plans, to support sustainable projects and to work with researchers to build, access and maintain data infrastructures. Students will have the opportunity to apply some basic principles in their respective disciplinary interests.
Prerequisite: LIS 60510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 50647 INTRODUCTION TO DIGITAL HUMANITIES 3 Credit Hours
(Slashed with LIS 40647) Provides students with a greater understanding of how new forms of knowledge production and representation, computational thinking and applications of various information and digital technologies have impacted research and pedagogy in humanities disciplines. Special attention is given to how information professionals can support and promote digital humanities work. Students have the opportunity to explore, apply and critique the technologies, tools, methods and values of the digital humanities field.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 50693 VARIABLE TITLE WORKSHOP IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) Maximum workshop credit accepted for M.L.I.S. degree is 4 credit hours. Intensive examination of special topics of interest to current M.L.I.S. students and practicing librarians, archivists and museum studies professionals.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

LIS 51095 SPECIAL TOPICS IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 41095) Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 60020 INFORMATION ORGANIZATION 3 Credit Hours
Introduction to the theory and practice of information organization and retrieval in various information environments. Familiarity with principles, standards, tools and current systems relating to organization of information and retrieval. Exploration of supported information system functions such as searching, browsing, and navigation. Assessment and evaluation of information organization and retrieval systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60030 PEOPLE IN THE INFORMATION ECOLOGY 3 Credit Hours
Takes a user-centered approach in exploring the information needs and behaviors of people (as individuals and in groups, communities, and institutions) in relation to the larger information ecology that surrounds them. Topics covered include an overview of information ecology; the user-centered paradigm; major information needs and information behavior theories, models, and findings; the landscape of information sources and services for users; factors that influence people's information needs and behaviors; and user empowerment, information ethics, information fluency, and related issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60040 INFORMATION INSTITUTIONS AND PROFESSIONS 3 Credit Hours
Examines the political, social, economic, and technical forces that influence the larger environments in which information institutions are situated. This course explores characteristics of the environments in which information professionals may work, including but not limited to academic, school, public, and special libraries, museums, archives, cultural heritage institutions, government organizations, corporations across all industries, and information creators and publishers. The course explores characteristics of the information profession including core values and principles, emerging professions, and understanding possible futures in profession, and explores ideas of organizational behavior in information institutions that operate across the institution as a whole, within groups, and within individuals in the organization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60050 RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours
Focuses on quantitative and qualitative research methods applicable to information settings and environments. Explores research design, data analysis, proposal development, and ethical issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60099 MASTER'S PORTFOLIO IN LIBRARY AND INFORMATION SCIENCE 1 Credit Hour
Completed in a student's last semester. It will include the creation of an electronic portfolio to represent and self-evaluate the student's experience throughout the MLIS program, considering program learning outcomes and preparation for a career in the field of library and information science.
Prerequisite: LIS 60030; and LIS 60020 or LIS 60624; and LIS 60040 or LIS 60607; and 27 credit hours of graduate coursework; and graduate standing.
Pre/corequisite: LIS 60050.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.
Prerequisite: LIS 60020 and LIS 60030 and LIS 60040 and LIS 60050; and minimum 3.000 overall GPA; and 24 hours of LIS coursework; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: LIS 60199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 60401 LEADERSHIP IN LIBRARIES AND INFORMATION CENTERS 3 Credit Hours
This course will review the concept of leadership while delving into its relationship to and differences from management, and its application in the personal and professional lives of information professionals. Beginning with an examination of personal leadership styles, the course will review the major philosophies of leadership thought that affect the library and information fields, the role of mentors, team building, project management, the moral and ethical responsibilities of leading others and leading through change in the information world.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60510 DIGITAL TECHNOLOGIES I: DATA FUNDAMENTALS 1 Credit Hour
The first of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on data representation, encoding, formatting, and data modeling.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60511 DIGITAL TECHNOLOGIES II: INTERNET FUNDAMENTALS 1 Credit Hour
The second of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on online information systems, the Internet, and data security.
Prerequisite: Graduate standing.
Pre/corequisite: LIS 60510.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60512 DIGITAL TECHNOLOGIES III: INFORMATION SYSTEMS FUNDAMENTALS 1 Credit Hour
The third of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on Web-based information applications, programming logic, Linked Data, and the interpretation of data.
Prerequisite: Graduate standing.
Pre/corequisite: LIS 60511.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60601 INFORMATION SOURCES AND REFERENCE SERVICES 3 Credit Hours
Introduction to use and evaluation of basic sources of reference information, in-house and online; reference interview and question-negotiation techniques; administration of reference and information services.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60602 RESOURCE DESCRIPTION AND ACCESS 3 Credit Hours
Theoretical foundation, principles, core concepts, and practical application of current standards and conceptual models for the description (descriptive cataloging) of a variety of resources in information institutions. Topics include history and principles of descriptive cataloging standards, best practices documentation, resource discovery, authority work, encoding standards and structures, linked data, ethical issues, as well as current topics in resource description and access, such as emerging technologies and future directions.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60603 SUBJECT ANALYSIS, REPRESENTATION AND ACCESS 3 Credit Hours
(Slashed with LIS 80603) The course focuses on the theories, principles, and practices of subject analysis of the intellectual content of information resources and its representation through controlled vocabularies and classification. It covers fundamental concepts of aboutness, vocabulary control, classification theory, ethical considerations, and the theoretical foundations, structure, and the application of major subject vocabularies (LCSH), classification schemes (DDC and LCC), and other knowledge organization systems, including genre/form and named entity management. The course also includes examinations of authority control for subject headings.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60607 SCHOOL LIBRARY MANAGEMENT 3 Credit Hours
School Library Management focuses on theoretical and practical aspects of school library management. This course provides a foundation for the completion of a successful culminating experience practicum and licensure exam for School Library Media licensure K-12. The course content delivery, exploration activities and completion of assignments have been aligned with state of Ohio and the American Association of School Librarians national school library media standards and guidelines. This course includes 10 hours of practical experience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60608 THE PUBLIC LIBRARY 3 Credit Hours
Analysis of the historical, sociopolitical, technological, fiscal and organizational factors affecting American public librarianship. Includes evaluation, planning, networking, funding, automation, buildings and censorship.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60609 MARKETING THE LIBRARY 3 Credit Hours
Introduction to the theory and practice of marketing the library. Topics include the evaluation of customer needs, the marketing mix, merchandising, public relations, relationship marketing, and the design and development of a marketing plan for libraries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60612 LIBRARY MATERIALS AND SERVICES FOR ADULTS 3 Credit Hours
Recent investigations of group and individual reading habits; advisory services in various types of libraries; library programs for adult education; projection of library materials toward community.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60613 INFORMATION NEEDS, SEEKING AND USE 3 Credit Hours
(Slashed with LIS 80613) Surveys theories and research related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources, communication and collaboration in the information search process, information use, and other interactions among people, information, and information systems.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60614 COLLECTION MANAGEMENT IN LIBRARIES 3 Credit Hours
Principles of collection development and management for public, academic, school and special libraries, including maintenance (weeding and analysis), needs assessment, acquisitions, e-resources, licensing, and preservation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60615 THE ACADEMIC LIBRARY 3 Credit Hours
Governance, administration and services of libraries in institutions of postsecondary education.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60616 THE SPECIAL LIBRARY 3 Credit Hours
The formation of special libraries. Libraries in special subject fields and in organizations: corporations, government agencies, hospitals, etc. Internal organization and administration collection development and services.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60617 INFORMATION LITERACY FOR YOUTH 3 Credit Hours
This course is intended to guide graduate students in creating and providing information literacy instruction for youth in school and public libraries. This course includes 10 hours of practical experience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60618 INFORMATION LITERACY INITIATIVES AND INSTRUCTION 3 Credit Hours
Information literacy is an essential competency needed to navigate an information society. This course explores how to create and deliver effective information literacy instruction to post-secondary students and adult populations. Topics include a comparison of information literacy standards and frameworks; learning theories focused on adult learning; planning, creating, delivering, and assessing IL instruction activities; and developing and managing IL instruction in collaboration with key stakeholders.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60620 HEALTH INFORMATION RESOURCES 3 Credit Hours
Identifies print and electronic sources of health information with emphasis on electronic sources. Medical patient and consumer health information is presented. This course is designed for the health educator, librarian, nurse or other health care professional.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60624 CATALOGING FOR SCHOOL LIBRARIES 3 Credit Hours
Organization and administration of print and non-print materials in school libraries. Application of appropriate descriptive cataloging rules, subject headings and classification policies for children's, teen and educational materials K-12.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60625 ENGAGING YOUNG CHILDREN AND FAMILIES 3 Credit Hours
Selection and utilization of materials in relation to needs, abilities and interests of the young child.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60626 ENGAGING TEENS 3 Credit Hours
Selection and utilization of books and materials in relation to needs, abilities and interests of teens.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60627 ART AND STORY: THE STUDY OF CHILDREN'S PICTUREBOOKS 3 Credit Hours
(Slashed with LIS 80627) This course engages students in the study and application of art and story in children's picturebooks through the lenses of book history, publishing studies, children's book illustration and storytelling, visual literacy and visual storytelling. Picture book readers are also studied, from professional readers, like librarians and book reviewers, to picturebook consumers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60629 ENGAGING SCHOOL-AGE CHILDREN 3 Credit Hours
Selection and utilization of materials in relation to needs, abilities and interests of school age children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60630 REFERENCE SOURCES AND SERVICES FOR YOUTH 3 Credit Hours
Organization and administration of information sources and information services for children and young adults (K-12). Evaluation selection and utilization of print and electronic sources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60631 INTRODUCTION TO DIGITAL PRESERVATION 3 Credit Hours
(Slashed with LIS 80631) Approaches and standards for preserving and maintaining access to digitized and born-digital text, images, data, audiovisual information, and web resources. Topics include longevity of digital media, selection for preservation; formats and strategies for preservation; preservation metadata; integrity and authenticity of digital materials; establishment and certification of trustworthy digital repositories; risk management; and policy development.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60633 DIGITAL CURATION 3 Credit Hours
(Slashed with LIS 80633) Management and preservation of digital objects and records throughout their lifecycle. Essential technologies and standards for building and maintaining robust, trusted digital repositories. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60635 CULTURAL HERITAGE INFORMATICS 3 Credit Hours
(Slashed with LIS 80635) Cultural heritage informatics brings a comprehensive, cross-disciplinary approach to supporting the entire lifecycle of cultural heritage information and documentation procedures for the benefit of the preservation, study, and promotion of cultural heritage. The course covers methods of creating descriptions for cultural objects, as well as organizing, delivering, and presenting the cultural heritage (tangible, intangible, and digital) resources in the digital age. The course aims to prepare students for careers focusing on or transcending libraries, archives, museums (LAMs), historical societies, and other cultural institutions by introducing them the methodologies and technologies commonly used in cultural heritage informatics and can be broadly implemented in LAMs.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60636 KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES 3 Credit Hours
(Slashed with LIS 80636) Introduction to various types of knowledge organization structures, services, and systems (KOS) used in the networked environment. Understanding of the functional philosophical, logical and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the taxonomy, thesaurus and ontology construction. Analysis and evaluation of KOS. Issues related to online display, visualization, interoperability and internationalization.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60637 METADATA ARCHITECTURE AND IMPLEMENTATION 3 Credit Hours
(Slashed with LIS 80637) Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60649 INDEXING AND ABSTRACTING 3 Credit Hours
(Slashed with LIS 80649) Principles and methods of manual and computerized indexing and abstracting applied to I & A databases, back of book indexes website indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats and subjects. Automation and I & A services in networked environments.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60650 INFORMATION POLICY 3 Credit Hours
Political, economic, cultural and legal issues regarding the production, distribution and use of information (print, electronic and Web). Policy-making process, standards and protocols, intellectual property, information economy, impact of computers on access and policy, privacy rights, transnational flow of information and the Internet and the World Wide Web.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60651 DIGITAL IMAGE PROCESSING AND COLLECTION MANAGEMENT 3 Credit Hours
This course is designed to introduce students to the fundamental concepts, terminology, techniques and applications of digital imaging as they relate to the development of digital image collections depicting works found in museum collections, archives and special collections in libraries. The students will acquire knowledge and skills necessary to design, create, and manage digital images of text, graphics, slides and reproductions of 3-D objects. They will also be introduced to the principles and issues that pertain to the creation and distribution of digital image archives via image databases and the Web environment.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60652 FOUNDATIONS OF RECORDKEEPING IN SOCIETY 3 Credit Hours
An introduction to the core principles and practices of recordkeeping and the multiple and complex roles records and archives play in identity, evidence, transparency, memory, accountability, equity, representation and trust in society. This course covers historical and contemporary recordkeeping contexts related to individuals, family, community, organization, corporate, academia and government, as well as traditional, nontextual and digital formats of records and archives.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60654 PRESERVATION AND CONSERVATION OF HERITAGE MATERIALS 3 Credit Hours
Types and causes of deterioration of various kinds of library, archival, and museum collections; storage and preventive care, preservation through photographic reproduction and digital conversion, and conservation of rare materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60655 COPYRIGHT: UNDERSTANDING USER RIGHTS AND RESPONSIBILITIES 3 Credit Hours
Exploration of advanced copyright topics such as mass digitization, creative arts and other issues in fair use, library, archive and educational uses including the TEACH Act, digital first sale rights, Digital Millennium Copyright Act, and an introduction to copyright reform.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60657 THEORY AND METHODS OF ARCHIVAL ACQUISITION, SELECTION AND APPRAISAL 3 Credit Hours
(Slashed with LIS 80657) This course provides a comprehensive introduction to the theory, methods and traditions employed by records professionals to form and shape archives as societal memory. This course focusses primarily on acquisition, selection, documentation and appraisal theory and methods. Students will also examine contemporary records frameworks and approaches and issues faced by archivists, special collections librarians and manuscript curators employed to identify, evaluate, acquire and dispose of records.
Prerequisite: LIS 60652; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60658 THEORY AND PRACTICE OF ARCHIVAL DESCRIPTION 3 Credit Hours
This course will introduce students to the theory and practice of archival description, including 1) principles of provenance and original order, 2) hierarchical arrangement and description; 3) standards central to archival description including Describing Archives: A Content Standard (DACS), Machine Readable Cataloging (MARC), and Encoded Archival Description (EAD); 4) archival authority work, including Encoded Archival Context (EAC); and 5) subject access for archival materials. Other related topics to be addressed include approaches to description of born-digital archival records, management of description programs, design of information systems for archival description, project management and cost analyses, and community-driven archival description such as tagging and reparative description.
Prerequisite: LIS 60020; and graduate standing.
Pre/corequisite: LIS 60652.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60659 INTRODUCTION TO AUDIOVISUAL ARCHIVING 1 Credit Hour
Introduction to the issues and challenges of preserving and providing access to archival moving image and sound material. Topics include basics of media care and handling; methods and approaches to preservation and digitization; and appraisal, description and access methods.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60665 RARE BOOKS AND SPECIAL COLLECTIONS 3 Credit Hours
Study of the theory and practice of rare books and special collections librarianship. Topics to be addressed include identification and description of collections, history of the book, valuation, collection development, preservation, security, access and discovery, promotion and outreach, and administration of collections and resources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60668 INTERNATIONAL LIBRARIANSHIP AND INFORMATION SERVICES 3 Credit Hours
Main theoretical traditions, concepts, and in-depth understanding of international librarianship (library communication on international issues) and comparative librarianship (comparative study of information services in specific contexts) through the study of international cooperation, influences, development aid, international organizations and associations, differences, major issues facing library and information services within their socio-economic, political, and cultural contexts, and innovations to solve these issues across the world.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60669 INFORMATION SERVICES FOR DIVERSE POPULATIONS 3 Credit Hours
Explores services for diverse populations to ensure equity of access to information in a range of LIS institutional settings. Special interests or needs include sensory or mobility-impairment; learning disabilities; illiteracy; incarceration and institutionalization; demographic factors (age, race, ethnicity, socio-economic status, sexual orientation, gender identity); non-native English speakers; and homeless persons. Covers Federal regulations, materials, spaces, programs and services, professional attitudes, techniques, and technology issues.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60671 INTRODUCTION TO CATALOGING PRINCIPLES AND PRACTICES IN MEDICAL LIBRARIES 1 Credit Hour
This course is designed to provide students with cataloging knowledge in the area of medical librarianship. Students will learn how to apply subject analysis principles to evaluate medical resources and assign medical subject headings. This course is one course in a three, one-credit hour sequence of medical librarianship courses.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60672 REFERENCE SOURCES AND SERVICES IN MEDICAL LIBRARIES 1 Credit Hour
This course is intended to introduce specialized reference services and sources found in medical library settings.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60673 MEDICAL LIBRARY MANAGEMENT AND CULTURE 1 Credit Hour
This course introduces the environment and context of a medical library to students. The course starts with the context of the medical environment and moves to medical libraries, medical librarianship and related management issues specific to medical library environments. The course reviews typical work scenarios and requests for medical librarians.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60675 YOUTH MEDIA CULTURES 3 Credit Hours
Emerging and evolving digital formats extend book-related content for young people aged 0-18 across media platforms and provide young audiences with interactive ways of engaging with stories. However, the proliferation of new media formats and related social media platforms means there are just as many questions related to their selection, evaluation and use. This course aims to answer those questions and to critically examine digital formats and related implications for stakeholders -- including librarians, publishers, authors, illustrators and consumers -- in the field of content produced for young people, from apps to books to video games.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60676 TEACHING STRATEGIES AND METHODS IN SCHOOL LIBRARIES 3 Credit Hours
Principles of teaching students including curriculum, planning instruction, assessment, fundamentals of evaluation, and reflective practice. All course content focuses on preparing teachers to instruct in the school library media center and obtain a multiage licensure in K-12 School Library Media. This course will include 65 hours of supervised experiential learning that are integrated with academic instruction and related to the student's occupational goal as a school librarian. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60677 SEXUAL AND GENDER IDENTITY IN CHILDREN'S AND TEEN LITERATURE 1 Credit Hour
This course focuses on both theoretical and practical aspects of providing and managing LGBTQAI+ literature and services to youth in the context of public and school libraries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60678 ENGAGING CHILDREN AND TEENS WITH LATINE LITERATURE 1 Credit Hour
This course is intended to introduce literature written by Latine authors and for Latine youth to be selected for use by informational professionals in information institutions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60691 SEMINAR IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 80691) Advanced research by small groups of students who are qualified to examine problems of certain special areas in information studies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

LIS 60692 INTERNSHIP IN INFORMATION AND CULTURAL HERITAGE INSTITUTIONS 2-3 Credit Hours
(Repeatable for credit) Supervised experience of a professional nature of not less than 100 clock hours for 2 credit hours or not less than 150 clock hours for 3 credit hours in an information or cultural heritage institution. Deliverables determined with instructor of record. Maximum registration of 2-3 credit hours per semester. No more than a total of 6 credit hours of Internship or Individual Investigation or any combination of the two may count toward MLIS degree requirements.
Prerequisite: LIS 60040; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 60700 FOUNDATIONS OF MUSEUM STUDIES 3 Credit Hours
Intended for those interested in learning more about museums or specializing in museum studies. The goal is to introduce students to various aspects of all types of museums as dynamic networked systems positioned around objects, people and ideas. Covers history and types of museums, the roles of objects and ideas, structure, function, museum workers and users, and the purpose and future of museums.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60701 MUSEUM COLLECTIONS 3 Credit Hours
This course introduces students to the organization, care and meaning of objects held in museum collections. Through both theoretical and practical concepts, basic collection management and registration skills are introduced. In conjunction, students explore the meanings made of museum objects.
Prerequisite: LIS 60700; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60702 MUSEUM COMMUNICATION 3 Credit Hours
Museums communicate to the public in a multitude of ways: interpretation, exhibition, publication, educational programming and using a web presence. This course introduces important concepts, theories, applications, processes and technology used in museum interpretation and communication. Students are provided with a balance of practical techniques with thoughtful conceptual exploration.
Prerequisite: Graduate standing.
Pre/corequisite: LIS 60700.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60703 MUSEUM USERS 3 Credit Hours
Families, individuals and students visit museums and community institutions for a variety of purposes including leisure, education and curiosity. This course introduces students to the research and theory on museum user experience using a contextual approach to understanding museum users via the personal, socio-cultural and physical. This inquiry will involve examining notions of learning, engagement, and transformative experiences of users, characteristics of users, and the social dynamics of the museum experience. In addition, this course will review several programmatic techniques and methods used in museums to increase engagement and learning for visitors and take the student through all aspects of a museum visit, from beginning to end.
Prerequisite: Graduate standing.
Pre/corequisite: LIS 60700.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60792 CULMINATING EXPERIENCE PRACTICUM IN K-12 LIBRARIES 3 Credit Hours
Under the advisement of a faculty member, students complete a professional-level practicum that serves as a culminating experience for the M.L.I.S. degree.
Prerequisite: LIS 60607 or LIS 60040; and LIS 60624 or LIS 60020; and LIS 60617 and LIS 60626 and LIS 60629 and LIS 60630; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

LIS 60892 CULMINATING EXPERIENCE FOR DUAL DEGREE 6 Credit Hours
Culminating experience for students pursuing dual degree in M.Ed. and M.L.I.S. and K-12 School Library Media licensure. Must be in a supervised educational library or information center.
Prerequisite: ADED 62145 and CI 67310 and CI 67330 and EPSY 65524 and LIS 60030 and LIS 60050 and LIS 60617 and LIS 60630 and SPED 53050; and LIS 60607 or LIS 60040; and LIS 60020 or LIS 60624; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 61095 SPECIAL TOPICS IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 81095) Offered irregularly as resources and/or opportunities permit. Topics could include current or emerging issues in information studies. Specific topics are announced in the schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 61096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for master's level graduate students. Deliverables determined with instructor of record. Maximum registration of 1-3 credit hours per semester. Students may count a maximum of 6 credit hours of individual investigation toward their MLIS degree requirements. No more than a total of 6 credit hours of Internship or Individual Investigation or any combination of the two may count toward MLIS degree requirements.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

LIS 80603 SUBJECT ANALYSIS, REPRESENTATION AND ACCESS 3 Credit Hours
(Slashed with LIS 60603) The course focuses on the theories, principles, and practices of subject analysis of the intellectual content of information resources and its representation through controlled vocabularies and classification. It covers fundamental concepts of aboutness, vocabulary control, classification theory, ethical considerations, and the theoretical foundations, structure, and the application of major subject vocabularies (such as LCSH), classification schemes (such as Dewey), and other knowledge organization systems, including genre/form and named entity management. The course also includes examinations of authority control for subject headings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80613 INFORMATION NEEDS, SEEKING AND USE 3 Credit Hours
(Slashed with LIS 60613) Surveys theories and research related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources, communication and collaboration in the information search process, information use, and other interactions among people, information, and information systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80627 ART AND STORY: THE STUDY OF CHILDREN'S PICTUREBOOKS 3 Credit Hours
(Slashed with LIS 60627) This course engages students in the study and application of art and story in children's picturebooks through the lenses of book history, publishing studies, children's book illustration, and storytelling, visual literacy and visual storytelling. Picture book readers are also studied, from professional readers, like librarians and book reviewers, to picturebook consumers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80631 INTRODUCTION TO DIGITAL PRESERVATION 3 Credit Hours
(Slashed with LIS 60631) Approaches and standards for preserving and maintaining access to digitized and born-digital text, images, data, audiovisual information, and web resources. Topics include longevity of digital media, selection for preservation; formats and strategies for preservation; preservation metadata; integrity and authenticity of digital materials; establishment and certification of trustworthy digital repositories; risk management; and policy development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80633 DIGITAL CURATION 3 Credit Hours
(Slashed with LIS 60633) Management and preservation of digital objects and records throughout their lifecycle. Essential technologies and standards for building and maintaining robust, trusted digital repositories. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80635 CULTURAL HERITAGE INFORMATICS 3 Credit Hours
(Slashed with LIS 60635) Cultural heritage informatics brings a comprehensive, cross-disciplinary approach to supporting the entire lifecycle of cultural heritage information and documentation procedures for the benefit of the preservation, study, and promotion of cultural heritage. The course covers methods of creating descriptions for cultural objects, as well as organizing, delivering, and presenting the cultural heritage (tangible, intangible, and digital) resources in the digital age. The course aims to prepare students for careers focusing on or transcending libraries, archives, museums (LAMs), historical societies, and other cultural institutions by introducing them to the methodologies and technologies commonly used in cultural heritage informatics and can be broadly implemented in LAMs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80636 KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES 3 Credit Hours
(Slashed with LIS 60636) Introduction to various types of knowledge organization structures, services and systems (KOS) used in the networked environment. Understanding of the functional philosophical, logical and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the taxonomy, thesaurus and ontology construction. Analysis and evaluation of KOS. Issues related to online display, visualization, interoperability and internationalization.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80637 METADATA ARCHITECTURE AND IMPLEMENTATION 3 Credit Hours
(Slashed with LIS 60637) Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80649 INDEXING AND ABSTRACTING 3 Credit Hours
(Slashed with LIS 60649) Principles and methods of manual and computerized indexing and abstracting applied to I&A databases, back-of-book indexes, Web site indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats and subjects. Automation and I&A services in networked environments.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80652 FOUNDATIONS OF RECORDKEEPING IN SOCIETY 3 Credit Hours
(Slashed with LIS 60652) An introduction to the core principles and practices of recordkeeping and the multiple and complex roles records and archives play in identity, evidence, transparency, memory, accountability, equity, representation and trust in society. This course covers historical and contemporary recordkeeping contexts related to individuals, family, community, organization, corporate, academia and government, as well as traditional, nontextual and digital formats of records and archives.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80657 THEORY AND METHODS OF ARCHIVAL ACQUISITION, SELECTION AND APPRAISAL 3 Credit Hours
(Slashed with LIS 60657) This course provides a comprehensive introduction to the theory, methods and traditions employed by records professionals to form and shape archives as societal memory. This course focuses primarily on acquisition, selection, documentation and appraisal theory and methods. Students will also examine contemporary records frameworks and approaches and issues faced by archivists, special collections librarians and manuscript curators employed to identify, evaluate, acquire and dispose of records.
Prerequisite: LIS 80652; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80668 INTERNATIONAL LIBRARIANSHIP AND INFORMATION SERVICES 3 Credit Hours
(Slashed with LIS 60668) Main theoretical traditions, concepts, and in-depth understanding of international librarianship (library communication on international issues) and comparative librarianship (comparative study of information services in specific contexts) through the study of international cooperation, influences, development aid, international organizations and associations, differences, major issues facing library and information services within their socio-economic, political, and cultural contexts, and innovations to solve these issues across the world.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80691 SEMINAR IN INFORMATION STUDIES 1-3 Credit Hours
(Slashed with LIS 60691) Advanced research by small groups of students who are qualified to examine problems of certain special areas in information studies.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 81095 SPECIAL TOPICS IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 61095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in information studies. Specific topics are announced in the schedule of classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 81096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for doctoral level students. Deliverables determined with instructor of record.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

User Experience (UX)

UX 60501 INTRODUCTION TO USER EXPERIENCE 3 Credit Hours
This course provides a comprehensive overview of User Experience (UX) from various perspectives, including the origins of UX as a professional discipline, the goals and values of UX within organizations, and elements of UX practice. It further introduces roles and contributions of specialization areas within UX, as well as the principles of user experience design. Students will develop and document their professional development goals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60502 USER EXPERIENCE PROCESSES AND PRACTICE 3 Credit Hours
Students engage in a structured walkthrough of the major goals, responsibilities, and elements of User Experience (UX) in an agile environment. This course introduces important models of iterative design processes and the professional practices of research, design, prototyping, testing and team communication. Students will explore personal goals for specialization in UX.
Prerequisite: Graduate standing.
Pre/corequisite: UX 60501.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60503 FUNDAMENTALS OF INTERACTION DESIGN 3 Credit Hours
This course offers students a comprehensive understanding of interaction design principles and their practical implementation. It covers the concept of prototyping, enabling students to create their own prototypes, and refine them based on peer feedback.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60504 ACCESSIBILITY AND UNIVERSAL DESIGN 3 Credit Hours
This course will provide user experience researchers and designers with the skills to evaluate technology accessibility, as well as an understanding of the principles of universal design and how they guide and influence the design of digital experiences
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60511 INFORMATION ARCHITECTURE FUNDAMENTALS 3 Credit Hours
Introduction to the fundamental concepts of information architecture (IA) and underlying cognitive processes of concept structure and information categorization. Students develop practical skills for content analysis and the design and evaluation of information architectures. Major topics include organization, navigation, labeling and design for finding.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60521 DATA-DRIVEN INTERACTION FUNDAMENTALS 3 Credit Hours
Recent technological advances, particularly in machine learning (ML) and artificial intelligence (AI), have ushered in a new era of data-driven interactions between users and technology. This course is designed to prepare students for UX careers in these data-driven environments by providing a fundamental understanding of data, databases, ML, and AI. Students will explore the future of user experience shaped by ML and AI and discuss the ethical dimensions of this evolution, including issues of fairness, accountability and transparency.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60531 DISCOVERY RESEARCH FUNDAMENTALS 3 Credit Hours
In order to design a successful user experience, UX professionals seek to discover users' needs, goals and tasks. This course covers discovery research methods such as interviews, surveys, diary studies and other methods applicable to the formative stages of the design process.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60541 USER EXPERIENCE EVALUATION FUNDAMENTALS 3 Credit Hours
Evaluating prototypes and products is a critical component of user experience design. This course covers qualitative and quantitative evaluation methods, such as heuristic evaluation, cognitive walkthrough, usability testing, A/B testing and experimental design. Students will learn how to choose evaluation methods, how to conduct them and how to communicate the results of evaluations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60691 SEMINAR IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with UX 80691) Advanced research by students who are qualified to examine problems of certain special areas in user experience.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

UX 60693 VARIABLE TITLE WORKSHOP IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) Intensive examination of special topics of interest to those involved in user experience.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

UX 60792 ELECTIVE INTERNSHIP IN USER EXPERIENCE 2-3 Credit Hours
(Repeatable for credit) Supervised work experience in user experience design of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6.33-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

UX 61095 SPECIAL TOPICS IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with UX 81095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in user experience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UX 61096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit). Individual investigation in areas not covered by the existing curriculum for master's level students.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

UX 66199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: UX 60501 and UX 60502 and UX 60503 and UX 60504; and a minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

UX 66299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: UX 66199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

UX 80691 SEMINAR IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with UX 60691) Advanced research by students who are qualified to examine problems of certain special areas in user experience.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

UX 81095 SPECIAL TOPICS IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with UX 61095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in user experience.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UX 81096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit). Research or individual investigation in areas not covered by the existing curriculum for doctoral level students. Deliverables determined with instructor of record.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

User Experience Design (UXD)

UXD 20001 INTRODUCTION TO USER EXPERIENCE DESIGN 3 Credit Hours
Students explore the context within which User Experience Design exists and the fundamental research that explains human behavior and how that research informs design decisions. Students are also introduced to the basic design processes and deliverables employed by UXD professionals.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UXD 40104 USABILITY 3 Credit Hours
Provides a conceptual and practical overview of the processes and methods of usability testing such as development of test protocols, goals, facilitation, analysis and reporting of results. Actual usability tests are performed, using quantitative and qualitative methods and employing emerging software tools to facilitate data collection and analysis.
Prerequisite: UXD 20001.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

UXD 41095 SPECIAL TOPICS IN USER EXPERIENCE DESIGN 1-3 Credit Hours
(Repeatable for credit) Topics could include current or emerging issues in user experience design. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UXD 41096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE DESIGN 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

School of Visual Communication Design

Visual Communication Design (VCD)

VCD 13000 VISUAL DESIGN THINKING 3 Credit Hours
Introduction to design thinking, including the principles, processes and applications, and how to improve an existing product or design a new concept. Students will explore the language of design, how it is influenced by form, content and context. Focus will be placed on design theory, brainstorming, ideation, two-dimensional design, environmental design, typography, illustration, motion, photography and interactive media.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 13001 INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO 3 Credit Hours
An introduction to basic design processes using research, writing, conceptual problem-solving and format organization of two dimensional space utilizing type and imagery. The course structure and projects are designed to challenge the student to manipulate the elements of graphic design in an experimental way, and to develop critical thought and aesthetic response. The projects utilize different compositional elements (abstract shapes, letterforms, images) as a way to learn the basic principles of two-dimensional design—hierarchy, unity, balance, contrast, alignment, repetition. Students will use several methods of design development—sketching, tracing, detailed drawings, computer renderings, research of existing work, class discussions and critiques. Software will be used to develop final compositions.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 17000 COLOR: THEORY AND APPLICATION 3 Credit Hours
This course provides students with an in-depth discovery and application of color theory through practical hands-on experience using paint and collage techniques. A sequence of exercises, problems, and lectures are designed with specific color objectives in mind, providing students with a direct physical experience of color structure and interconnections, and how they impact the eye and mind. Visual examples and media demonstrations, including hand techniques, mixing color, applying paint and exploring cut and torn collage elements are provided to enhance learning objectives and creative outcomes. Projects are based on the relative effects of hue, saturation, color temperature and value. The language of color is both intentional and efficient.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 18002 PHOTOGRAPHY II 3 Credit Hours
Course further develops basic technical information and introduces studio lighting techniques and protocols. The class is studio-based and introduces and explores gaining command of continuous lighting source (LED), composition, studio practices: The technical information will be supplemented with a series of photographic assignments that apply this information.
Prerequisite: CCI 12001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 20010 DESIGN RESEARCH AND METHODS 3 Credit Hours
This course is an introduction to research methods used in the professional practice of visual communication design. Students are exposed to strategies, tactics and frameworks used in the creation of design artifacts. Students will gain an understanding of research strategies, tactics, tools and applied use through a combination of classroom lectures, readings, online forums, homework assignments and group discussion.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 22000 DESIGN/ILLUSTRATION TECHNIQUES I 3 Credit Hours
Introductory course in design/illustration. Object drawing with emphasis toward rendering materials and techniques used in reproduction, perspective, spacial organization and use of reference material.
Prerequisite: VCD 13000; and a minimum B- grade in VCD 13001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 22001 DESIGN/ILLUSTRATION TECHNIQUES II 3 Credit Hours
Continuation of Design Illustration Techniques I foundational drawing and composition skills. Introduction to color theory as it applies to illustration and design. Students explore color mixing and color schemes through traditional watercolor and digital color approaches.
Prerequisite: VCD 22000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 23001 TYPOGRAPHY I 3 Credit Hours
Historical study of letter forms and their application to the development of new forms. Execution and use of letter forms as design elements in layout and illustration using fundamental typographic theories and rules of spatial organization.
Prerequisite: VCD 13000; and a minimum B- grade in VCD 13001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 25000 DESIGN HISTORY AND THEORY 3 Credit Hours
This course is a chronological overview of design history and theory. Together we will examine design history and schools of thought, with a strong focus on the impact of the industrial revolution. We will explore aesthetics and theory and how art, architecture, and craft guilds shaped the modern design profession. Topics include the early alphabet, print, processes, illustration, photography, corporate design, modern design, and the advent of the GUI interface and modern digital design. Students will look at design history starting with the eighteenth century and working our way through the industrial revolution, Dadaism, World War I and II, Postmodernism, the rise of consumerism, social responsibility and the evolving role of the designer. This course has an inclusive perspective of design history, researching beyond the Bauhaus and Swiss perspective, looking at influences from Japan, Brazil, Morocco and Turkey. We will study various design heroes from minority communities and how religion has influenced design. This course also introduces students to female design leaders and their unique contributions to the design profession.
Prerequisite: VCD 13000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 28003 DIGITAL IMAGING I 3 Credit Hours
Designed to give students an intermediate working knowledge of the digital photographic workflow, including intermediate Photoshop editing skills, an overview of Adobe Raw, Bridge and Lightroom along with color calibration and color management tools. Students will complete a series of photographic assignments to which they will apply this information.
Prerequisite: CCI 12001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 28004 PHOTOGRAPHIC PERSPECTIVES 3 Credit Hours
Examines the use of the photographic medium in the context of the commercial marketplace. Discusses the advancement of material processes, provides a comprehensive overview of commercial imagery and market development, examines industry trends, and introduces several theoretical criticisms pertaining to constructed photography.
Prerequisite: Photography major or minor or photo journalism major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 32000 ILLUSTRATION I 3 Credit Hours
Continuation of Design Illustration Techniques I and II with emphasis on technique and creative solutions as they apply to specific illustration areas: narrative, editorial, book, advertising and institutional.
Prerequisite: VCD 20010, VCD 22001 and VCD 33000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 32001 ILLUSTRATION II 3 Credit Hours
Illustration as communication: conceptual problem-solving visualizations of ideas utilizing felt tip markers as the medium of expression.
Prerequisite: VCD 32000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 33000 GRAPHIC DESIGN I 3 Credit Hours
Studio course covering the structuring of two-dimensional communication design utilizing headline, body copy and illustration with the addition of conceptual content. The projects employ systems thinking, utilize design research methods and introduce principles of information design.
Prerequisite: Minimum B- grade in VCD 23001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 33001 GRAPHIC DESIGN II 3 Credit Hours
Continuation of Graphic Design I, utilizing basic layout with emphasis on concept as applied to problem-solving methodologies through a series of exercises and problems.
Prerequisite: VCD 33000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 33101 INTERACTION DESIGN I 3 Credit Hours
The conceptualization and prototyping of interactive experiences.
Prerequisite: EMAT 33310 or VCD 23001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 34004 VISUAL ETHICS 3 Credit Hours
Course topics include the understanding of visual form, the responsibility of the designer, photographer and illustrator, and those working in collaboration with visual communicators. Topics covered include image manipulation, copyright laws, ethical and professional guidelines, sustainable design practices and acting as an advocate of the consumer and audience member. Discussion topics include credibility, dignity and developing a personal philosophy towards visual ethics.
Prerequisite: EMAT 10010 or UXD 20001 or VCD 13000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 34005 ELEMENTS OF BRAND DESIGN 3 Credit Hours
This course is an introduction to the creative process of designing brand communications. Key components include identity elements, packaging programs and other brand experiences.
Prerequisite: VCD 20010 and VCD 22001 and VCD 33000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 38004 ADVANCED PHOTOGRAPHY 3 Credit Hours
Introduction of professional strobe lighting equipment, materials and techniques along with the development of conceptual abilities and problem solving skills as applied to studio portraiture, still life, and location photography. Special lighting equipment and accessories furnished.
Prerequisite: VCD 18002.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 38007 PHOTOGRAPHY TECHNIQUES 3 Credit Hours
Explorations of current influences, innovations and trends in photography. Projects can include interdisciplinary collaborations such as the intersection of photojournalism and commercial photography, architecture and photography and others.
Prerequisite: VCD 48005.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 38011 EDITORIAL PHOTOGRAPHY 3 Credit Hours
This course explores and develops the style and protocols unique to editorial photography. Exploring and understanding visual storytelling; research methods and techniques; differences between advertising, fine art and editorial photography. Course will emphasize multiple styles of editorial work including portraiture, environmental, fashion, studio and location assignments. The importance of design along with critical thinking skills in image creation along with discussion of locations, model releases, editing, captioning, etc. will also be covered.
Prerequisite: VCD 28003 and VCD 38004.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 40035 PROFESSIONAL PORTFOLIO BFA DESIGN 3 Credit Hours
Develop a professional portfolio in design and or illustration through selection and refinement of previously completed classroom work and development of projects in areas of deficiency, with emphasis on organization and presentation. Organization and participation in gallery show at the semester's conclusion.
Prerequisite: Visual communication design major within the bachelor of fine arts (BFA); and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 40053 GLYPHIX RESEARCH LABORATORY 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50053) Professional experience through a research focused design studio. Involves responsibilities and procedures for the research, conceptual development and production of design materials for stakeholders including (but not limited to) businesses, on-campus organizations, nonprofit organizations, charities, art groups and select on-campus research initiatives and departments.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 40089 GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50089) Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience.
Prerequisite: School of visual communication major or minor.
Schedule Type: International Experience, Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

VCD 40095 SPECIAL TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 1-3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50095) Explores topics of special interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

VCD 40096 INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION 1-8 Credit Hours
(Repeatable for a maximum of 16 credit hours)Individual study related to topics of graphic design and illustration approved by and under the direction of a faculty member.
Prerequisite: None.
Schedule Type: Individual Investigation
Contact Hours: 1-8 other
Grade Mode: Standard Letter-IP

VCD 40182 INTERNSHIP PREPARATION: DESIGN, ILLUSTRATION AND PHOTOGRAPHY 2 Credit Hours
Preparation for experience in studio, agency or company involving design, illustration or photography responsibilities and procedures to broaden a student's understanding of the profession through real world job situations. Through this course, students will gain a better understanding of the types of design, illustration and photography internships and jobs; how to develop materials (resume, cover letter, etc.) necessary for an entry level job search; and professional skills necessary for professional practice in design, illustration and photography.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VCD 40192 INTERNSHIP: DESIGN, ILLUSTRATION AND PHOTOGRAPHY (ELR) 1-4 Credit Hours
(Repeatable for credit) Experience in a design, illustration or photography studio, agency or company with responsibilities and to broaden a student's understanding of the profession through a real job situation.
Prerequisite: VCD 40182.
Schedule Type: Practical Experience
Contact Hours: 3-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

VCD 40193 VARIABLE TITLE WORKSHOP IN VISUAL COMMUNICATION DESIGN 1-3 Credit Hours
(Repeatable for credit)Workshop setting dealing with intensive examination of special topics in VCD.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

VCD 40195 SELECTED TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 1-3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50195) Explores selected topics of interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Visual Communication Design majors and minors or Photography majors and minors.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

VCD 40295 SELECTED TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50295) Explores selected topics of interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Visual Communication Design majors and minors or Photography majors and minors.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42002 EDITORIAL ILLUSTRATION 3 Credit Hours
(Slashed with VCD 52002) Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42003 ADVERTISING ILLUSTRATION 3 Credit Hours
(Slashed with VCD 52003) Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42005 CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE 3 Credit Hours
(Slashed with VCD 52005) Focuses on the application of the fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, advertising, editorial illustration and book illustration.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42006 CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS 3 Credit Hours
(Slashed with VCD 52006) This course focuses on the application of fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, book illustration, advertising, and editorial illustration.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42007 GRAPHIC NARRATIVE 3 Credit Hours
(Slashed with VCD 52007) This course fuses written and visual content, allowing students to both author and illustrate visual narratives. Through readings, various genres of written form are explored and both historical and emerging narrative formats within the field of illustration are emphasized.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43002 TYPOGRAPHY II 3 Credit Hours
(Slashed with VCD 53002) The use of typography (rather than visual imagery) as the primary design form in solving graphic design communication problems.
Prerequisite: VCD 33001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43003 IDENTITY SYSTEMS 3 Credit Hours
(Slashed with VCD 53003) This course is an in-depth investigation into the development of identity systems as a foundational visual design framework for communications. This includes the study of design of type, symbols, and pictorial elements as both singular marks and as a system. This is followed by the design of an overall communications program. The final product includes the documentation of design guidelines, through a rigorous process of research and analysis, creative ideation and design development.
Prerequisite: VCD 33001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43004 PROFESSIONAL COMMUNICATION FOR DESIGN 3 Credit Hours
(Slashed with VCD 53004) Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 43005 INTEGRATED BRAND DESIGN 3 Credit Hours
(Slashed with VCD 53005) This course explores the design and development of a comprehensive brand program. From design strategy and identity elements through a range of tactical applications and environments, it results in the documentation of an integrated brand program.
Prerequisite: VCD 34005.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43006 BRAND EXPERIENCES 3 Credit Hours
(Slashed with VCD 53006) This course investigates the unique design opportunities of communications in the built environment. It includes interpretive storytelling, identity, wayfinding, and placemaking and promotion for a variety of communication needs. Considerations include human scale, dimension, legibility, materiality, and fabrication. It follows a process of research and analysis, strategy, ideation, design development, and design intent documentation. Projects are often site specific and sometimes executed in small teams.
Prerequisite: VCD 34005.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43007 INFORMATION DESIGN 3 Credit Hours
(Slashed with VCD 53007) This course is an introduction to data visualizations and sequence-based information visualization. Students will focus on how design principles use composition, graphics, color, and typography to create news graphics; maps, charts, tables, and diagrams. Deliverables in this course will be both static and digital-based artifacts. Students must have intermediate knowledge in visual communication design (typography, color, composition, etc.) and skills in using Adobe Creative Suite (Illustrator, Photoshop, and InDesign). It is helpful if students have experience using Adobe Affects and have web design skills.
Prerequisite: EMAT 33310 or VCD 13001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43051 TYPE HIGH PRESS 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 53051) Students will explore aspects of letterpress printing. Course content will include typesetting, printing basics, and a brief history of movable type printing and typography. Students will work on a series of projects to acclimate themselves to the equipment and various printing techniques.
Prerequisite: VCD 33000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43060 TYPEFACE DESIGN 3 Credit Hours
(Slashed with VCD 53060) This course will serve as an introduction to the core principles of typeface design. It is a fast paced and challenging course with a requirement for a high level of engagement and research on the part of the student. Building on skills learned in other VCD classes, this is an advanced level course dealing with the underlying themes in typeface design and their relationship to the typographer's needs.
Prerequisite: VCD 23001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43101 INTERACTION DESIGN II 3 Credit Hours
(Slashed with VCD 53101) Students will continue their study of interaction design by working on two projects and two exercises. They will work to develop the content, to compile user research, structure the information architecture, design the interface and prototype their concepts. Students are encouraged to focus on a specific context and audience while demonstrating its use in a final prototype that represents a pathway of experience. Students will focus on the designer's role in the development of interactive spaces and communities, as well as the interdisciplinary exchange with other professionals (computer programmers, software developers, and marketing professionals). We will study human-computer interaction and focus on the needs of the user to create the best user experience. When possible, students will work on real-world projects that allow for collaboration with programmers and developers.
Prerequisite: VCD 33101.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 44001 EXHIBITION DESIGN 3 Credit Hours
The study of content, narrative development, consideration of space, and the use of materials and media in environmental and exhibition design. Includes working in scale, 2D and 3D rendering, physical and digital modeling.
Prerequisite: VCD 34005.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 44006 MOTION DESIGN I 3 Credit Hours
A studio course designed to teach the fundamentals of motion graphic design. Materials and information are delivered through a series of lectures, demos and hands-on exercises.
Prerequisite: EMAT 33310 or UXD 20001 or VCD 13001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 46003 EXPERIMENTAL TYPOGRAPHY 3 Credit Hours
(Slashed with VCD 56003) This course uses typography as an instrument for conceptual and creative expression and communication. Projects emphasize typographic research, process, experimentation and interpretation. Artifacts can range from screen-based solutions, print pieces, 3D experiences and more, with a strong emphasis on type.
Prerequisite: VCD 33001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter-IP

VCD 47000 VISUAL DESIGN FOR MEDIA 3 Credit Hours
(Slashed with VCD 57000) Apply design concepts to digitally-generated communication using a layout software program. This course is a survey of the basic principles of two-dimensional design, typography, design concepts and color theory. Class projects enable the student to explore visual design principles and processes, develop critical thinking about aesthetics and reflect on the impact of design on the users' comprehension and response. This course may not be used towards degree requirements by visual communication design majors.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

VCD 48001 PHOTOGRAPHIC PROJECT 3 Credit Hours
Provides students the opportunity to conceptualize, organize and produce a semester-long photographic project of their choice under the supervision of the course instructor. Projects will augment students' existing photographic portfolios.
Prerequisite: Photography major; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48002 ADVANCED PHOTOGRAPHIC PROJECT 3 Credit Hours
Continuation of VCD 48001. Each student will conceptualize, organize and produce a semester-long photographic project of their choice under the supervision of the course instructor. Projects will augment students' existing photographic portfolios.
Prerequisite: VCD 48001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48003 PROFESSIONAL PORTFOLIO PHOTOGRAPHY 3 Credit Hours
Students will create personal, professional portfolios (electronic and hard copy) developed through branding and identity explorations. Each portfolio will be a blend of the student's best work and career path desires and expressed through sophisticated grinding and design principles. Students will also develop and hang an exhibition of their student work in the Taylor Hall art gallery.
Prerequisite: Photography major; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48005 COLOR PHOTOGRAPHY 3 Credit Hours
This course introduces students to the technical and aesthetic considerations of color theory and practice in color photography. The main objective of the course is to combine an in-depth study of color theory with theoretical and practice-based systems and other color theory explorations. The course will also cover the technical aspects of color in photography, including management, implementation, color temperature, and digital color correction. Students will use these skills, their own research and lecture information and utilize them through a series of technical and aesthetic assignments to their own images created specifically for this course.
Prerequisite: VCD 28003 and VCD 38004.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48008 ADVANCED DIGITAL IMAGING 3 Credit Hours
This course emphasizes advanced techniques in the use of image editing software to develop workflow techniques and post-production and editing skills. Technical information will be supplemented with a series of photographic assignments that explore advanced application and usage of tools and skills covered as well as new Additional explorations into current digital technologies such as virtual reality, CGi generated imagery and compositing with made photography, Advanced compositing of multiple shoots into cohesive wholes, etc. Software used includes Photoshop, Lightroom, and Capture One Pro.
Prerequisite: VCD 28003 and VCD 38004.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48009 FASHION PHOTOGRAPHY 3 Credit Hours
Emphasis on editorial and advertising fashion photography. Students will explore: Fashion shoot protocols and techniques; Studio and Location Lighting Techniques, History and Theory of Fashion Photography, Fashion Shoot management. In partial collaboration with Fashion School BFA students along with live models on both studio and location shoots. The technical information will be supplemented with a series of photographic project assignments both in studio and on location.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48010 ARCHITECTURAL PHOTOGRAPHY 3 Credit Hours
(Slashed with VCD 58010) The course introduces and develops professional practice and techniques for expressing exterior and interior architectural space including image capture, composition, lighting, staging, technical and esthetic considerations, post-production, camera functionality, among others. Other explorations include Art in Architectural Photography and the Architectural Documentary. DSLR camera or equivalent is needed for this course. Refer to Recommended Camera List for suggestions, provided within syllabus.
Prerequisite: Junior standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48092 PRACTICUM IN PHOTOGRAPHY (ELR) 1-3 Credit Hours
(Repeatable for a total of 10 hours) Individual or group investigation into student selected areas of photographic field.
Prerequisite: Photography or visual communication design major; and junior and senior standing.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

VCD 49198 WRITING FOR PROFESSIONAL PRACTICE (ELR) (WIC) 2 Credit Hours
Course explores writing for creative professionals, including designers, photographers and illustrators. Students define and practice writing in the academic setting and the professional arena. Students practice writing creative briefs, proposals and contracts. They also develop estimates and grant proposals in order to secure funding and determine budgets. At the end of the semester, students practice presenting ideas through writing and oral presentations. Students are encouraged to combine course efforts by writing about a senior capstone project, an individual investigation or another project in an upper-level studio course. Writing about current or recent work helps students apply writing techniques in concrete and tangible scenarios.
Prerequisite: Senior standing.
Pre/corequisite: VCD 34004.
Schedule Type: Research
Contact Hours: 2 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement, Writing Intensive Course

VCD 49199 CAPSTONE PROJECT (ELR) 3 Credit Hours
(Repeatable for credit) A capstone project in design, illustration, or photography structured by the student (with approval by faculty), culminating in a final presentation or exhibit.
Prerequisite: VCD 13001; and senior standing.
Schedule Type: Lecture, Combined Lecture and Studio, Project or Capstone, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

VCD 50053 GLYPHIX RESEARCH LABORATORY 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40053) Professional experience through a research focused an internal design studio. Involves responsibilities and procedures for the research, conceptual development and production of design communication materials for stakeholders off-campus clients including (but not limited to) businesses, on-campus nonprofit organizations, nonprofit organizations, charities, art arts groups and selected on- campus groups and select on-campus research initiatives and departments.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 50089 GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40089) Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience.
Prerequisite: Visual Communication Design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 50092 INTERNSHIP-GRAPHIC DESIGN AND ILLUSTRATION 1-6 Credit Hours
(Repeatable for credit)Experience in design studio, agency or company involving design responsibilities and procedures to broaden a student's understanding of the profession through a real job situation.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 50095 SPECIAL TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 1-3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40095) Explores topics of special interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

VCD 50193 VARIABLE TITLE WORKSHOP IN VCD 1-3 Credit Hours
(Repeatable for credit) Workshop setting dealing with intensive examination of special topics in VCD.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

VCD 50195 SELECTED TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 1-3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40195) Explores selected topics of interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

VCD 50295 SELECTED TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40295) Explores selected topics of interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52002 EDITORIAL ILLUSTRATION 3 Credit Hours
(Slashed with VCD 42002) Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52003 ADVERTISING ILLUSTRATION 3 Credit Hours
(Slashed with VCD 42003) Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52005 CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE 3 Credit Hours
(Slashed with VCD 42005) Focuses on the application of the fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, advertising, editorial illustration and book illustration. Students must demonstrate proficiency in drawing to register for this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52006 CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS 3 Credit Hours
(Slashed with VCD 42006) This course focuses on the application of fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, book illustration, advertising, and editorial illustration.
Prerequisite: Master of fine arts (MFA) or master of arts (MA) in visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52007 GRAPHIC NARRATIVE 3 Credit Hours
(Slashed with VCD 42007) This course fuses written and visual content, allowing students to both author and illustrate visual narratives. Through readings, various genres of written form are explored and both historical and emerging narrative formats within the field of illustration are emphasized.
Prerequisite: Master of fine arts (MFA) or master of arts (MA) in visual communication design (VCD); and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53000 STUDIO PRODUCTION 3 Credit Hours
A technical lecture course designed to teach the fundamental techniques and processes of electronic prepress and printing production. This material is presented through a series of lectures, demos, written tests and field trips.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 53002 TYPOGRAPHY II 3 Credit Hours
(Slashed with VCD 43002) The use of typography (rather than visual imagery) as the primary design form in solving graphic communication problems.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53003 IDENTITY SYSTEMS 3 Credit Hours
(Slashed with VCD 43003) This course is an in-depth investigation into the development of identity systems as a foundational visual design framework for communications. This includes the study of design of type, symbols and pictorial elements as both singular marks and as a system. This is followed by the design of an overall communications program. The final product includes the documentation of design guidelines, through a rigorous process of research and analysis, creative ideation and design development.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53004 PROFESSIONAL COMMUNICATION FOR DESIGN 3 Credit Hours
(Slashed with VCD 43004) Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 53005 INTEGRATED BRAND DESIGN 3 Credit Hours
(Slashed with VCD 43005) This course explores the design and development of a comprehensive brand program. From design strategy and identity elements through a range of tactical applications and environments, it results in the documentation of an integrated brand program.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53006 BRAND EXPERIENCES 3 Credit Hours
(Slashed with VCD 43006) This course investigates the unique design opportunities of communications in the built environment. It includes interpretive storytelling, identity, wayfinding and placemaking and promotion for a variety of communication needs. Considerations include human scale, dimension, legibility, materiality, and fabrication. It follows a process of research and analysis, strategy, ideation, design development and design intent documentation. Projects are often site specific, and sometimes executed in small teams.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53007 INFORMATION DESIGN 3 Credit Hours
(Slashed with VCD 43007) This course is an introduction to data visualizations and sequence-based information visualization. Students will focus on how design principles use composition, graphics, color, and typography to create news graphics; maps, charts, tables, and diagrams. Deliverables in this course will be both static and digital-based artifacts. Students must have intermediate knowledge in visual communication design (typography, color, composition, etc.) and skills in using Adobe Creative Suite (Illustrator, Photoshop, and InDesign). It is helpful if students have experience using Adobe Affects and have web design skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53051 TYPE HIGH PRESS 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 43051) Students will explore aspects of letterpress printing. Course content will include typesetting, printing basics, and a brief history of movable type printing and typography. Students will work on a series of projects to acclimate themselves to the equipment and various printing techniques.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53060 TYPEFACE DESIGN 3 Credit Hours
(Slashed with VCD 43060) This course will serve as an introduction to the core principles of typeface design. It is a fast paced and challenging course with a requirement for a high level of engagement and research on the part of the student. Building on skills learned in other VCD classes, this is an advanced level course dealing with the underlying themes in typeface design and their relationship to the typographer's needs.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53101 INTERACTION DESIGN II 3 Credit Hours
(Slashed with VCD 43101) Students will continue their study of interaction design by working on two projects and two exercises. They will work to develop the content, to compile user research, structure the information architecture, design the interface and prototype their concepts. Students are encouraged to focus on a specific context and audience while demonstrating its use in a final prototype that represents a pathway of experience. Students will focus on the designer's role in the development of interactive spaces and communities, as well as the interdisciplinary exchange with other professionals (computer programmers, software developers, and marketing professionals). We will study human-computer interaction and focus on the needs of the user to create the best user experience. When possible, students will work on real-world projects that allow for collaboration with programmers and developers
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 54006 MOTION DESIGN I 3 Credit Hours
(Slashed with VCD 44006) A studio course designed to teach the fundamentals of motion graphic design. Materials and information are delivered through a series of lectures, demos and hands-on exercises.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 56003 EXPERIMENTAL TYPOGRAPHY 3 Credit Hours
(Slashed with VCD 46003) This course uses typography as an instrument for conceptual and creative expression and communication. Projects emphasize typographic research, process, experimentation and interpretation. Artifacts can range from screen-based solutions, print pieces, 3D experiences, and more, with a strong emphasis on type.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter-IP

VCD 57000 VISUAL DESIGN FOR MEDIA 3 Credit Hours
(Slashed with VCD 47000) Apply design concepts to digitally-generated communication using a layout software program. This course is a survey of the basic principles of two-dimensional design, typography, design concepts and color theory. Class projects enable the student to explore visual design principles and processes, develop critical thinking about aesthetics and reflect on the impact of design on the users' comprehension and response. This course may not be used towards degree requirements by visual communication design majors.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

VCD 58010 ARCHITECTURAL PHOTOGRAPHY 3 Credit Hours
(Slashed with VCD 48010) The course introduces and develops professional practice and techniques for expressing exterior and interior architectural space including image capture, composition, lighting, staging, technical and esthetic considerations, post-production, camera functionality, among others. Other explorations include Art in Architectural Photography and the Architectural Documentary. DSLR camera or equivalent is needed for this course. Refer to Recommended Camera List for suggestions, provided within syllabus.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 60010 DESIGN RESEARCH METHODS 3 Credit Hours
Introductory course to the design research methods employed in the professional practice of visual communication design. Students will gain an understanding of research strategies, tactics and tools, and will apply their use through a combination of readings, videos, online discussion and a final cumulative project. Focus will be directed on the design process, research and ideation skills, and understanding research methods in the context of today's design profession.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

VCD 60011 TYPOGRAPHIC STRUCTURES AND SYSTEMS 3 Credit Hours
Serves as an intensive introduction to typography and its application in visual communication design. Students will learn to create successful typographic compositions by controlling hierarchy, contrast, space, and grids. The course also covers the organization of information, and facilitates discussion and creative work on the effects of type choice and style in communication. Students will be familiarized with typography for print and screen-based environments.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 60012 CONCEPT DEVELOPMENT AND IMPLEMENTATION 3 Credit Hours
Serves as an intensive introduction to conceptual development and how it is implemented with form in visual communication design.
Prerequisite: VCD 60011; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 60013 GRAPHIC DESIGN ADVANCED 3 Credit Hours
Builds on typography and concept development. Students will gain experience combining layout, concept and problem-solving methodologies through a series of exercises and problems. Projects facilitate the student's ability to employ narrative and storytelling methods, along with design research, analysis, documentation and implementation. The structure of this course is designed to foster self-initiative. Exercises will be completed outside class time and students will be given a great amount of flexibility as they frame projects and decipher solutions to problems.
Prerequisite: VCD 60010, VCD 60011 and VCD 60012; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 60020 GRADUATE STUDIO IN VISUAL COMMUNICATION DESIGN 3 Credit Hours
(Repeatable for credit) Research based, hands-on studio course providing a context for collaborative and individual projects in design, illustration and/or photography.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter-IP

VCD 60091 GRADUATE SEMINAR IN VISUAL COMMUNICATION DESIGN 3 Credit Hours
(Repeatable for credit) Focuses on design theory and research methodologies pertaining to design. Content consists mostly of readings, discussions and student presentations.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

VCD 60094 PROFESSIONAL AND TEACHING DEVELOPMENT 3 Credit Hours
For VCD student teaching or who anticipate teaching in higher education. This experience also supports future careers in management, art direction and instructional roles in industry. Discussions include grading, critiques, classroom management and evaluation techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 60095 SPECIAL TOPICS IN GRAPHIC DESIGN/ILLUSTRATION 1-4 Credit Hours
(Repeatable for a maximum of 16 credit hours)To broaden course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. Used to fulfill primary studio requirements in graphic design and or illustration.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

VCD 60096 INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION 1-16 Credit Hours
(Repeatable for credit)Individual investigation related to topics of graphic design and illustration approved and under the direction of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-16 other
Grade Mode: Standard Letter-IP

VCD 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Independent research under the direction of a faculty member in the division of design/illustration.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

VCD 60099 MASTER OF ARTS PROJECT GRAPHIC DESIGN AND ILLUSTRATION 3 Credit Hours
A research project for M.A. students approved in consultation with the faculty adviser which culminates in a visual project exhibition and formal presentations.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Project or Capstone, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 60171 CRITICAL PRACTICES IN DESIGN RESEARCH 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 80171) This graduate seminar course introduces methods for integrating critical practices into larger communication design research agendas. The term "critical practices" includes three areas of design-centered inquiry: critical design, critical making, and design authorship.
Prerequisite: Master of fine arts (MFA) or master of arts (MA) in visual communication design major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 60191 ADVANCED RESEARCH 3 Credit Hours
Serves as the research intensive continuation of VCD 60091 Graduate Seminar. Students will focus on the development of their MFA thesis proposals by identifying a topic, investigating relevant literature and media, developing a thesis statement, and writing the full thesis proposal. Deliverables include a finished MFA thesis proposal, research schedule, and corresponding logic model.
Prerequisite: VCD 60091 and VCD 60094; and visual communication design major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

VCD 60200 DESIGN THEORY I: CULTURE, COMMUNITIES AND CONTEXT 3 Credit Hours
(Slashed with VCD 80200) Introduces students to design theory through a lens of classic and contemporary readings taken from various disciplines. This survey of perspectives assists students in developing their individual voice as a designer. Delves into issues that affect the field of graphic design and will continue to shape culture and history. Students are asked to question ideas of community and to expand on their ideas with examples through media and technology. Students critically question notions of history, psychology and social behaviors. The writing and criticism of advertising, communication, design artifacts and culture are the primary communication tool of the class, which is completed through papers and personal reflections.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 61099 GRADUATE PORTFOLIO/GRAPHIC DESIGN AND ILLUSTRATION 1 Credit Hour
A formal review of the work completed in the first 12 semester credit hours of graphic design and/or illustration courses for both Master of Fine Arts and Master of Arts.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 68199 M.A.THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours, 2-6 hours in a single semester or distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 68299 M.A.THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: VCD 68199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 69199 M.F.A. THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours; 2 -6 hours in a single semester or distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 69299 M.F.A. THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: VCD 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 80171 CRITICAL PRACTICES IN DESIGN RESEARCH 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 60171) This graduate seminar course introduces methods for integrating critical practices into larger communication design research agendas. The term “critical practices” includes three areas of design-centered inquiry: critical design, critical making, and design authorship. This course is not repeatable.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 80200 DESIGN THEORY I: CULTURE, COMMUNITIES AND CONTEXT 3 Credit Hours
(Slashed with VCD 60200) Introduces students to design theory through a lens of classic and contemporary readings taken from various disciplines. This survey of perspectives assists students in developing their individual voice as a designer. The class delves into issues that affect the field of graphic design and will continue to shape culture and history. Students are asked to question ideas of community and to expand on their ideas with examples through media and technology. Students critically question notions of history, psychology and social behaviors. The writing and criticism of advertising, communication, design artifacts and culture are the primary communication tool of the class, which is completed through papers and personal reflections.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Applied Media - B.A.

College of Communication and Information
www.kent.edu/cci

About This Program

Explore Kent State University's Bachelor of Arts program in Applied Media. This interdisciplinary program provides students with practical skills and theoretical knowledge in media production, storytelling and communication strategies. Dive into hands-on experiences in areas such as digital media, journalism, advertising and more, preparing you for dynamic careers in today's media landscape. Read more...

Contact Information

- **Matt Rollyson** | cci@kent.edu | 330-672-2950
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Market research analysts and marketing specialists

- 17.7% much faster than the average
- 738,100 number of jobs
- $65,810 potential earnings

Producers and directors

- 10.0% much faster than the average
- 159,500 number of jobs
- $76,400 potential earnings

Public relations and fundraising managers

- 9.2% much faster than the average
- 88,000 number of jobs
- $118,430 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Applied Media major is selective. Students must meet the following requirements to be admitted:

- Officially declared in a major in the College of Communication and Information
- Earned a minimum 90 credit hours, of which either 12 earned credit hours or 18 earned and in-progress credit hours are in the following course subjects:
  - Communication and Information (CCI)
  - Emerging Media and Technology (EMAT)
  - Journalism and Mass Communication (JMC)
  - Library and Information Science (LIS)
  - Media and Journalism (MDJ)
  - User Experience (UX)
  - User Experience Design (UXD)
  - Visual Communication Design (VCD)

Students who do not meet admission requirements for this major may declare any other major in the College of Communication and Information.

This degree program may not be earned as a double major or dual degree with another major and cannot be earned as an additional degree after another degree at the same or higher level has been earned previously.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
Applied Media Core Electives, choose from the following:		9
CCI 12001	PHOTOGRAPHY	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
EMAT 25310	CREATIVE CODING	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
MDJ 21008	SOCIAL MEDIA STRATEGIES	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
VCD 13000	VISUAL DESIGN THINKING	
Communication and Information Electives, choose from the following:		15
Communication and Information (CCI) courses		
Communication Studies (COMM) courses		
Emerging Media and Technology (EMAT) courses		
Library and Information Science (LIS) courses		
Media and Journalism (MDJ) courses		
User Experience Design (UXD) courses		
Visual Communication Design (VCD) courses		
Writing-Intensive Elective, choose from the following: [1]		3
COMM 34000	DIFFICULT DECISIONS IN COMMUNICATION (WIC)	
COMM 45902	COMMUNICATION AND INFLUENCE (WIC)	
EMAT 41510	PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC)	
MDJ 31002	ADVERTISING COPYWRITING (WIC)	
MDJ 40010	ETHICS AND ISSUES IN MEDIA AND JOURNALISM (WIC)	
MDJ 48001	MEDIA RELATIONS AND PUBLICITY (WIC)	
VCD 49198	WRITING FOR PROFESSIONAL PRACTICE (ELR) (WIC)	
Culminating Requirement		
COMM 46091	SENIOR SEMINAR (ELR)	3
or EMAT 40999	INTERDISCIPLINARY PROJECTS (ELR)	
Additional Major Requirements (courses do not count in the major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3

Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (must be from two disciplines)	6
Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Additional	6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	53
Minimum Total Credit Hours:	**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- No dual degree/major may be earned with the Applied Media major.

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply professional standards in the fields of communication, information and media.
2. Analyze and solve problems in the fields of communication, information and media.
3. Create content strategically to communicate ideas, messages and stories using various media channels.
4. Critique work in the fields of communication, information and media.
5. Articulate the value of interdisciplinary collaboration across the fields that comprise the College of Communication and Information.

Full Description

The Bachelor of Arts degree in Applied Media provides students with the freedom to explore media-based career paths. This skills-based, hands-on degree consists of a flexible and individualized coursework plan that prepares students for the rapidly changing professional media landscape. Courses come from the wide range of professional undergraduate programs across the College of Communication and Information and include mediated communication, advertising and strategic communication, visual storytelling (including photography, graphics, video and audio production), journalism, media-related technology, data and information. Students also learn how to work in teams and analyze and solve problems.

The Applied Media major prepares students for jobs in all sectors of the media and for positions in a range of jobs that hire dedicated media professionals – including entertainment, sports, travel, government, health and education.

Students may apply early to the M.L.I.S. degree in Library and Information Science and double count 9 credit hours toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

Communication and Information - Ph.D.

College of Communication and Information
www.kent.edu/cci

Program revisions are pending approval from the Ohio Department of Higher Education. After final approval, the program revisions will display.

About This Program

Kent State's Ph.D. degree in Communication and Information offers a flexible and interdisciplinary curriculum that prepares you for a career as a faculty in higher education or as a researcher in communication, media, or information industries. Through coursework and research, you'll gain an integrative view of the disciplines of communication, media and information while specializing in research topics that intersect these disciplines. Read more...

Contact Information

- **Miriam Matteson** | mmattes1@kent.edu | 330-672-2464

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the Ph.D. degree in Communication and Information will not be accepted starting with the fall 2026 admission term.

Examples of Possible Careers and Salaries*

Communications teachers, postsecondary

- 3.2% about as fast as the average
- 35,600 number of jobs
- $71,030 potential earnings

Library science teachers, postsecondary

- 3.0% about as fast as the average
- 5,400 number of jobs
- $71,580 potential earnings

Media and communication workers, all other

- 8.1% much faster than the average
- 35,200 number of jobs
- $49,730 potential earnings

Web developers and digital interface designers

- 8.0% much faster than the average
- 174,300 number of jobs
- $77,200 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Ph.D. degree in Communication and Information will not be accepted starting with the fall 2026 admission term.

- Master's degree in one of the disciplines represented in the College of Communication and Information or a discipline closely related to the applicant's proposed course of study[1]
- Minimum 3.300 graduate GPA on a 4.000-point scale (3.500 GPA or higher is recommended)
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement[2]
- Letters of recommendation from those in a position to evaluate graduate academic performance and potential
- Sample of superior scholarly writing (published paper, major term paper, thesis chapter, etc.).
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[3]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

The Ph.D. degree is strongly research oriented. Applicants are expected to demonstrate previous research experience such as thesis or conference paper. Admission will be restricted to the most promising applicants. Applications are viewed holistically to evaluate the student's likelihood of success in the program. Applicants normally are accepted for admission only for the fall semester and for full-time enrollment. Applicants who do not meet all of the requirements listed above but who have otherwise exceptional credentials may apply and may be admitted conditionally.

1 Applicants with academic preparation in other fields may be required to enroll in preparatory coursework at the master's level that will not count toward the Ph.D. degree.

2 The goal statement must describe the applicant's academic goals and intended topics of study that are compatible with the focus of the doctoral program including area of specialization. It is expected that this statement will clearly indicate why the applicant wishes to pursue doctoral education. Included in the statement should be an indication of the theoretical area or areas the applicant wishes to study and the line of research the applicant wishes to pursue. Statements that make reference only to the applicant's teaching or administrative goals are strongly discouraged.

3 International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: January 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Application deadline: March 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.
  - Final deadline: April 15
    Applications will not be accepted after this deadline.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CCI 80000	FOUNDATIONS OF COMMUNICATION AND INFORMATION INQUIRY	3
CCI 80001	FOUNDATIONS OF RESEARCH AND SCHOLARSHIP IN COMMUNICATION AND INFORMATION	3

CCI 80097	COLLOQUIUM IN COMMUNICATION AND INFORMATION (taken four times)	4
Advisor-Approved Theory Courses from the College of Communication and Information		6
Quantitative Research Methods Course		3
Qualitative Research Methods Course		3
Additional Methods Courses [1]		6
Electives [2]		12
Culminating Requirement		
CCI 80199	DISSERTATION I [3]	30
Minimum Total Credit Hours:		**70**

1 Students choose two courses from any subject area.
2 Courses in the elective category are selected with the approval of the student's advisor and supervisory committee to support the student's research interests.
3 Each doctoral candidate, upon admission to candidacy, must register for CCI 80199 for a total of 30 credit hours. Thereafter, doctoral candidates will continuously register for CCI 80299 for each semester, until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- The Ph.D. degree in Communication and Information requires a minimum of 40 credit hours of graduate coursework beyond the master's degree and 30 credit hours of dissertation work for a total of 70 credit hours.

Candidacy Requirement

To achieve candidacy, doctoral students must pass the doctoral comprehensive examination.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate comprehensive knowledge of an area of expertise within one or more disciplines within the field of communication and information.
2. Produce research that advances existing areas of scholarly investigation within the field of communication and information.
3. Be prepared to succeed as research-oriented, tenure-track faculty at research universities.

Full Description

The Ph.D. degree in Communication and Information prepares individuals for traditional and emerging careers in teaching, research and administration in the converging fields of communication and information. The degree program consists of a prescribed core of interdisciplinary courses and varied selection of elective coursework within and across disciplines. The study is flexibly structured and designed to provide both an integrative and historical overview, as well as specializations in communication and information.

Media Advocacy - Minor

College of Communication and Information

www.kent.edu/cci

About This Program

The Media Advocacy minor prepares students to explore advocacy as both a professional discipline and an act of engaged citizenship by equipping them with theoretical and applied approaches for achieving meaningful social, political and cultural change through the use of media tools and concepts. The minor will deepen student understanding of individual activism, group advocacy and social movements. The required and elective courses will help students understand how to apply story-based strategies to create shared meaning, draw attention to societal issues and organize others to take action. It will also prepare students to understand how media shape individual decision making, public discourse and public opinion.

Contact Information

- **Stephanie D. Smith** | ssmit149@kent.edu | 330-672-8147
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
CCI 20001	INTRODUCTION TO MEDIA ADVOCACY	3
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	3
Upper Division Minor Elective, choose from the following:		3
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR) [1]	
COMM 35464	ARGUMENTATION AND PERSUASIVE COMMUNICATION	
COMM 45007	FREEDOM OF SPEECH	
HDF 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	
PACS 31003	NONVIOLENCE: THEORY AND PRACTICE	
PH 35005	ADVOCACY AND ACTIVISM IN PUBLIC HEALTH	
PH 44025	PRINCIPLES OF PUBLIC HEALTH LEADERSHIP	
Additional Minor Elective, choose from the following: [2]		3
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	
COMM 35464	ARGUMENTATION AND PERSUASIVE COMMUNICATION	

COMM 45007	FREEDOM OF SPEECH
HDF 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)
MDJ 21001	PRINCIPLES OF ADVERTISING
PACS 31003	NONVIOLENCE: THEORY AND PRACTICE
PH 35005	ADVOCACY AND ACTIVISM IN PUBLIC HEALTH
PH 44025	PRINCIPLES OF PUBLIC HEALTH LEADERSHIP
VCD 13000	VISUAL DESIGN THINKING
Minimum Total Credit Hours:	**12**

[1] CCI 45091 is repeatable for credit, and students can retake this course and apply the second attempt toward the Upper Division Minor Elective.

[2] Course taken as an Upper Division Minor Elective cannot also count toward the Additional Minor Elective.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Explore advocacy by studying social movement theories, organizing models, and the history and role of communication and media on advocacy efforts.
2. Understand how issues emerge, how public perceptions are shaped and how public opinion is changed.
3. Understand and critically analyze the core components of story-based strategy and how these components are used to develop social-change narratives, gain public awareness and mobilize collective action.
4. Critically examine the role of traditional and digital media in framing and covering transformational change efforts.
5. Practice experiential advocacy by applying media tools and the specific skills of their disciplines to advocacy problems.
6. Develop a useful toolkit of nonviolent mobilization strategies and tactics.

School of Communication Studies

College of Communication and Information
School of Communication Studies
201 Taylor Hall
Kent Campus
330-672-2659
comm@kent.edu
www.kent.edu/comm

Undergraduate Programs

- Communication Studies - B.A.

Minors

- Communication Studies

Graduate Programs

- Communication Studies - M.A.

Graduate Certificates

- Communication and Advocacy

School of Communication Studies Faculty

- Beam, Michael A. (2014), Associate Professor, Ph.D., The Ohio State University, 2012
- Bentley, Laurie S. (1994), Senior Lecturer, M.A., Kent State University, 1996
- Bihn-Coss, Ginger F. (2014), Associate Professor, Ph.D., Bowling Green State University, 2003
- Cai, Bei (2002), Associate Professor, Ph.D., Bowling Green State University, 2002
- Compton, Cristin (2017), Associate Professor, Ph.D., University of Missouri-Columbia, 2016
- Dillon, Patrick J. (2016), Associate Professor, Ph.D., University of South Florida, 2013
- Egbert-Scheibelhoffer, Nichole L. (2000), Professor, Ph.D., University of Georgia, 2000
- Goodall, Catherine E. (2009), Associate Professor, Ph.D., Ohio State University, 2009
- Haridakis, Paul M. (1996), Professor, Ph.D., Kent State University, 2000
- Hollenbaugh, Erin E. (2003), Professor, Ph.D., Kent State University, 2008
- Kaptan, Yesim (2016), Associate Professor, Ph.D., Indiana University, 2010
- Lin, Mei-Chen (2003), Professor, Ph.D., University of Kansas, 2003
- Maguire, Aaron E. (2015), Senior Lecturer, M.A., University of Delaware, 1999
- McCullough, Jennifer L. (2010), Associate Professor, Ph.D., Ohio State University, 2007
- Ponder, James D. (2007), Associate Professor, Ph.D., Kent State University, 2012
- Sharma, Rekha (2000), Associate Professor, Ph.D., Kent State University, 2017
- Silva, David E. (2019), Assistant Professor, Ph.D., Washington State University, 2019
- Smith, Stephanie D. (2012), Associate Lecturer, M.P.A., Harvard University, 1994
- Toumi, Ikram (2017), Associate Professor, Ph.D., University of Texas at Austin, 2016
- Waite, Lisa A. (1991), Senior Lecturer, M.A., University of Akron, 1985
- Workneh, Tewodros (2016), Associate Professor, Ph.D., University of Oregon, 2014

Communication Studies (COMM)

COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL) 3 Credit Hours

This course offers an overview of communication in interpersonal, group and public contexts. Students will develop a wide range of practical communication skills like listening, giving and receiving constructive feedback, presenting information, persuading audiences and more that will help them succeed in both personal and professional settings. These skills will help prepare students to engage confidently in interpersonal interactions, group discussions and public speaking.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Additional, TAG Communication, Transfer Module Composition

COMM 20000 FOUNDATIONS OF COMMUNICATION 3 Credit Hours

This course serves as an introduction to the major. Provides an introduction to communication studies faculty, research and the major concentrations of the school; highlights possible careers in communication studies; and introduces possible ways students can supplement curriculum efforts through involvement.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 20001 INTERPERSONAL COMMUNICATION 3 Credit Hours

Introduction to human interpersonal communication. Components and structures situations and contexts are described nonevaluative focus with emphasis on informal experience.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Communication

COMM 26000 CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM) 3 Credit Hours

A critical examination of selected public speeches representing diverse viewpoints on a variety of historic and contemporary issues, emphasizing methods of evaluating public oral communication and the role of speechmaking in free societies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Humanities, Transfer Module Humanities

COMM 30000 COMMUNICATION RESEARCH METHODS 3 Credit Hours

Communication research skills are marketable for career advancement. This course provides basic skills in communication research in order to evaluate and have conversations about research findings with others. The class gives students the tools to know what questions to ask when an individual, social media post, or organization uses research to back up thinking, make an argument, or come to a decision. Students will learn how to conduct interviews, focus groups, surveys and other research tools and interpret that information to be competitive in industries such as, media companies, nonprofit and public relations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 34000 DIFFICULT DECISIONS IN COMMUNICATION (WIC) 3 Credit Hours

Right and wrong. Good and bad. Moral and immoral. These phrases are commonly used to describe the decisions people must make daily. Communication professionals must wrestle with ethical issues like privacy, transparency, representation, advocacy, power, truthfulness. In this course, students will explore the complex circumstances surrounding the rights and responsibilities of the current communication landscape to prepare them for life after graduation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

COMM 35464 ARGUMENTATION AND PERSUASIVE COMMUNICATION 3 Credit Hours

Students will be introduced to principles and practices of effective argumentation and persuasive communication. Through exposure to rhetorical and social scientific theories, students will engage in research to develop argumentative cases and assess persuasive messaging strategies in mediated contexts. The course emphasizes processes of reasoning, the nature and use of evidence, recognition of common fallacies, media and information literacy, and generation and construction of valid and ethical arguments. Assignments will allow students to practice argumentation and persuasive communication as well as develop critical thinking skills needed to evaluate arguments and persuasive messages.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35600 COMMUNICATION IN SMALL GROUPS AND TEAMS 3 Credit Hours

Focuses on the application and practice of group communication skills and techniques applied to goal-oriented small group situations. Course explores communication theory and research about small groups and teams, relating in group and teams, managing conflict in groups and teams, leadership in groups and teams and problem-solving in groups and teams.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Communication

COMM 35852 INTERCULTURAL COMMUNICATION (DIVG) 3 Credit Hours
Theory and application of communication between people of different cultures and different national systems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

COMM 35860 INTERVIEWING 3 Credit Hours
Techniques, principles and practical skills for interviews most likely to occur in business environments; job searches and selection interviews, information-gathering interviews, performance appraisals, counseling interviews and persuasive interviews.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35863 BUSINESS AND PROFESSIONAL COMMUNICATION 3 Credit Hours
This course covers public and conference speaking, conducting meetings, electronic presentations, interviewing and interpersonal relations as applied to business and organizational settings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35864 ORGANIZATIONAL COMMUNICATION 3 Credit Hours
Application of communication theory to organizational settings. Exploration of communication structures processes and methods in organizations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35902 COMMUNICATION THEORY 3 Credit Hours
Study of the process of human communication. Emphasis on source, message, channel and receiver dimensions of communication. Examination of major theories of communication and social influence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 35912 GENDER AND COMMUNICATION (DIVD) 3 Credit Hours
Explores how gender is socially constructed in everyday communicative interactions and institutional contexts, including close relationships, organizations, school settings and the media. In the process, this course uncovers how the social construction of gender perpetuates power imbalances in society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

COMM 36001 PUBLIC COMMUNICATION IN SOCIETY 3 Credit Hours
Examines communication in public settings. Content includes communication campaigns, corporate crisis communication, public opinion and communication issues in executive, legislative and judicial settings. Students explore the influence of mediated messages via application of mass communication theories and constructs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 36500 HEALTH COMMUNICATION 3 Credit Hours
Introduction to the roles of communication in health, health and risk behavior, health care, and health promotion, including interpersonal, organizational and media contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 37091 SEMINAR IN COMMUNICATION AND POPULAR CULTURE 3 Credit Hours
(Repeatable twice for credit) Popular culture is driven by communication. The messages contained in that communication can be both prescriptive and descriptive and can reveal much about people's culture, attitudes, fears, values and perceptions of reality. Course will focus on messages contained in various popular culture artifacts including, but not limited to film, television, internet, music and literature.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 40095 SPECIAL TOPICS IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit) (Slashed with COMM 50095 and COMM 70095) Special topic courses cover emerging issues or specialized content in Communication Studies that is not represented in the existing curriculum. Not offered every semester.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

COMM 41000 SPORTS COMMUNICATION 3 Credit Hours
An examination of the inter-relationship between sports and communication in today's society. Students discuss and examine sports through communication lenses (groups, interpersonal, media/mediated and organizational).
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 42000 MEDIA, WAR AND PROPAGANDA 3 Credit Hours
Examines the influence of TV, movies, and media images of war, the war effort and portrayals of enemies, protesters and anti-war groups on communication research, including mass communication and persuasion.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 43000 COMMUNICATION TECHNOLOGY AND HUMAN INTERACTION 3 Credit Hours
Course aims to help students develop a critical understanding of diverse newer media and how they are used and affect human interaction. In achieving this goal, students are expected to learn how newer media are different from and similar to face-to-face communication or traditional mass media, newer media's social and psychological effects on human interactions, and theoretical frameworks explaining these media.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45006 MEDIA USE AND EFFECTS 3 Credit Hours
The course examines the ways in which communication scholars have conceptualized and analyzed media processes, uses and effects. We explore such issues as media portrayals, news coverage, political campaigns, sex and violence in the media, media entertainment, children and television, and newer communication technologies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45007 FREEDOM OF SPEECH 3 Credit Hours
(Slashed with COMM 55007) What kind of speech is protected by the First Amendment? What can the government censor? How have issues like libel, slander, sedition, blasphemy, obscenity and words that provoke people to anger affect how we communicate in today's society? It seems simple at first, "Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the government for a redress of grievances." Yet, ever since its adoption, these 45 words have been a point of contention for citizens, the Supreme Court and the government. This course will help students grasp why the First Amendment is an important part of American life, what it protects and why it matters personally and professionally.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45091 SEMINAR IN COMMUNICATION STUDIES 3 Credit Hours
(Repeatable for credit) Examination of selected communication topics/areas and related research.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 45092 INTERNSHIP IN COMMUNICATION STUDIES (ELR) 3-6 Credit Hours
(Repeatable for credit) A formal, cooperative field experience with a designated organization or agency as designed by the student and the internship coordinator.
Prerequisite: Minimum C grade in COMM 34000 or COMM 45902.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

COMM 45196 INDEPENDENT STUDY: COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) Readings and/or research on problems approved by undergraduate coordinator in consultation with student's adviser and faculty project director.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 45459 COMMUNICATION AND CONFLICT MANAGEMENT 3 Credit Hours
(Slashed with COMM 55459) Conflict is inevitable in relationships, but it doesn't have to destroy them. This course highlights how effective conflict management leads to happier and more fulfilling relationships. It also provides students with essential communication skills for resolving conflicts in personal and professional environments.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45660 POLITICAL COMMUNICATION 3 Credit Hours
Modern society requires us to communicate with others to craft laws and policies, address competing needs and select our representatives. This course will provide an overview of this political communication process. Course content includes the importance of communication in democracies, the role of media in politics, ways to analyze political messages and studies of contemporary campaigns.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45678 SOCIAL MEDIA AND GLOBALIZATION 3 Credit Hours
The course introduces students to social media and how they operate in a globalized context. Through the relevant literature, students will be able to use key theoretical tools to understand and critically analyze implications of globalization and social media on issues related to communication, social inequalities, citizenship, and youth cultures. The students will navigate the relationship between globalization and social media processes through practical examples including media texts, audiovisual material, social media content, etc. In class, the students will be expected to fully engage in discussions and group activities designed to emphasize their individual, professional, and academic growth.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45756 INTERNATIONAL COMMUNICATION 3 Credit Hours
International communication examines global communication approaches as they relate to issues of justice, equity and peaceful coexistence. The course critically examines the role of communication in shaping international politics, public diplomacy, social movements and across border cultural practices. Specifically, it engages with global communication and information inequalities and how this divide is intertwined with economic, environmental and material disparities that hinder the development aspirations of communities in non-Western contexts. Driven by the proposition that the sustainability of our planet and its inhabitants rests upon global collaboration—not competition—the course puts communication as a cornerstone of global understanding. By closely studying actors such as nation states, corporations, hackers, and activists, students will be equipped with theoretical and practical literacies of international communication that empower them to respond to our shared problems ranging from the climate crisis to pandemics, and, in doing so, advocate for a just, equitable and sustainable global society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45760 MEDIA AND NATIONALISM 3 Credit Hours
The goal of this course is to introduce and discuss the images, signs, symbols, commodities, cultural commercial products and personal and collective identities that emerge and circulate through mundane engagement with commodities and global media forms. Students will analyze connections and tensions between the forces of nationalism and the forces of globalization and explore some of the scholarly literature about the role of the media and consumer culture in those tensions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours
Offers a broad-based treatment of a variety of topics in our "globalizing" world from the standpoint of communication. Considers the importance of communication on multiple levels of the international landscape, ranging from the very ways globalization is defined and framed to new communication media and networks, to campaigns and debates about global issues, and including the transformation of organizational and institutional relationships as well as local-to-global interactions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45776 COMMUNICATION AND TERRORISM 3 Credit Hours
This course examines many facets of terrorism, including its historic roots and its social, political, ethnic, geographic, moral and spiritual causes. Students will be challenged to understand basic definitions of terrorism and think beyond conventional assumptions about terrorist organizations, especially assumptions derived from mass media, popular culture and Western biases. We will examine two central premises: first, that communication – spoken/written, traditional/nontraditional, public/private, visual/symbolic – is a both a tool and the goal of organized terrorism; and second, that terrorist organizations use brand-positioning strategies we often associate with commercial entities. Students will be required to think deeply, critically and objectively about the narratives, messages, images and symbolism used by past and present-day terrorist movements.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45807 HIGH IMPACT PROFESSIONAL SPEAKING 3 Credit Hours
Principles and practices of effective communication in a variety of professional contexts. Emphasis on professional presentation skills development.
Prerequisite: COMM 15000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45865 ORGANIZATIONAL COMMUNICATION TRAINING AND DEVELOPMENT (ELR) 3 Credit Hours
This course prepares students for careers as professional development specialists, communication consultants and corporate coaches. They acquire practical skills to design and deliver communication training programs using a needs centered approach. Theory and application underpin a comprehensive training approach, incorporating contemporary best practices and real-world applications for effective modern training.
Prerequisite: COMM 35864.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

COMM 45902 COMMUNICATION AND INFLUENCE (WIC) 3 Credit Hours
Explores theories and strategies of social influence in contemporary society. Students discuss and critique influential communication practices such as interpersonal persuasion, product and services advertisements, social movements and political messages.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

COMM 45903 COMMUNICATION CAMPAIGNS (ELR) 3 Credit Hours
The primary purpose of this course is to enable students to understand the fundamentals of how persuasive communication campaigns are developed, implemented and evaluated.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

COMM 45957 LANGUAGE IN THE 21ST CENTURY 3 Credit Hours
An overview of how languages affect the way we communicate with each other. In this course, students will learn about verbal and nonverbal communication, language evolution, cultural differences in language, language and social change, languages in traditional and social media and language in the workplace.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 45959 NONVERBAL COMMUNICATION 3 Credit Hours
Students will explore how we create meaning through nonverbal behaviors including physical appearance, eye behavior, facial expressions, gesture, posture and voice. In addition, readings and class discussions investigate nonverbal communication in online platforms, impression management, flirting behaviors and how to detect deception. The importance of culture in interpreting nonverbal codes will be emphasized, along with understanding how nonverbal and verbal codes interact in different communication contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 46091 SENIOR SEMINAR (ELR) 3 Credit Hours
(Repeatable for credit) Senior Seminar is an advanced level course that features current topics in communication and is driven by problem-analysis and a search for solutions. In-depth exploration and analysis of a communication issue is an opportunity for students to synthesize coursework and communication experiences into transferable skills and applications. A summative experience, this course may result in a research project or paper, portfolio, multimedia presentation, community-based initiative, and or a public presentation. Topics vary based on faculty expertise and research interests. The Senior Seminar course is applied and experiential.
Prerequisite: Senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

COMM 46507 COMMUNICATION FOR HEALTH AND WELL-BEING 3 Credit Hours
From bullying to social support, whether face-to-face or on Instagram, interpersonal communication affects wellness. This course is designed to help students demonstrate the many ways that our interpersonal and mediated interactions with friends, family and acquaintances can affect our health and well-being. Students will also learn about communication tools that can help reduce health risks and bolster their health and the health of others.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 46601 COMMUNICATION IN RELATIONSHIPS 3 Credit Hours
Synthesizes theory and research about communication in the development, maintenance and dissolution of the relationships of romantic partners, personal friends, professional colleagues, spouses and family members. Sub-topics include personal identity, culture, social attraction, self-disclosure, relationship stages, affection, love, sex, social support, conflict, power dynamics, hurt, jealousy and infidelity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 46605 COMMUNICATION ACROSS THE LIFESPAN (DIVD) 3 Credit Hours
Explores common life stages (childhood, youth, midlife and old age) and the transitioning of communication within and between these different stages of development. Sub-topics include life span communication and: family, friendships, social and gender role development, multigenerational workplace and the use of varied communication technologies facilitating human interaction across the life span.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

COMM 46608 FAMILY COMMUNICATION 3 Credit Hours
Examines the interactions among individuals in families. Sub-topics of the course include family communication and storytelling, identity, rules, conflict, intimacy, stress, external influences on family communication, and family communication and the media.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 50095 SPECIAL TOPICS IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit) (Slashed with COMM 40095 and COMM 70095) Special topic courses cover emerging issues or specialized content in Communication Studies that is not represented in the existing curriculum. Not offered every semester.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

COMM 55007 FREEDOM OF SPEECH 3 Credit Hours
(Slashed with COMM 45007) What kind of speech is protected by the First Amendment? What can the government censor? How have issues like libel, slander, sedition, blasphemy, obscenity and words that provoke people to anger affect how we communicate in today's society? It seems simple at first, "Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the government for a redress of grievances." Yet, ever since its adoption, these 45 words have been a point of contention for citizens, the Supreme Court and the government. This course will help students grasp why the First Amendment is an important part of American life, what it protects and why it matters personally and professionally.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 55093 VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit)Variable topic workshop in communication studies.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

COMM 55459 COMMUNICATION AND CONFLICT MANAGEMENT 3 Credit Hours
(Slashed with COMM 45459) Conflict is inevitable in relationships, but it doesn't have to destroy them. This course highlights how effective conflict management leads to happier and more fulfilling relationships. It also provides students with essential communication skills for resolving conflicts in personal and professional environments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 55766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours
(Slashed with COMM 45766) Offers a broad-based treatment of a variety of topics in our "globalizing" world from the standpoint of communication. Considers the importance of communication on multiple levels of the international landscape, ranging from the very ways globalization is defined and framed to new communication media and networks, to campaigns and debates about global issues, and including the transformation of organizational and institutional relationships as well as local-to-global interactions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 60199 THESIS I 2-6 Credit Hours
Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester or distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: COMM 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 61198 MASTERS PROJECT IN COMMUNICATION STUDIES 3 Credit Hours
One of the non-thesis options for graduation. Students propose a theory-driven applied research project on a communicative phenomenon or issue. The final written paper is evaluated by the students' academic advisor and the Graduate Coordinator to deem satisfactory for graduation.
Prerequisite: COMM 65000 and COMM 65020 and COMM 65652.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 64092 MASTERS INTERNSHIP IN COMMUNICATION STUDIES 3 Credit Hours
(Repeatable for credit) One of the non-thesis options for graduation. Students choose and secure an internship position with a designated organization or agency that requires the student to utilize communication skills and knowledge. Students complete 135 hours of internship. The employer, the academic advisor, and the Graduate Coordinator evaluate the student's overall performance. The advisor and the Graduate Coordinator determine whether the student complete the requirements.
Prerequisite: COMM 65000 and COMM 65020 and COMM 65652; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 65000 FOUNDATIONS OF COMMUNICATION AND ADVOCACY 3 Credit Hours
(Slashed with COMM 85000) This course will introduce students to the foundation of scientific inquiry and its application to effective advocacy generally and communication studies specifically. Research in the field of communication has been central to the study and practice of advocacy. Students will learn about the history of the field and representative communication perspectives and paradigms that have been central to the study and practice of advocacy in different contexts. In this course, students will explore how communication has played a role in advocacy and social change. Students will understand the root and the development of the field and thinking related to advocacy and will evaluate, critique and synthesize communication literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65020 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours
(Slashed with COMM 75020) An examination of basic quantitative social scientific research methods and procedures for the study of communication.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65040 QUALITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours
Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data participant observation, and archival strategies of data collection and interpretive and interactionist approaches to data analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65070 SOCIAL INFLUENCE 3 Credit Hours
(Slashed with COMM 85070) This course explores theories, ethics, and strategies of social influence in contemporary society. Students discuss and critique influential communication practices such as advocacy, interpersonal persuasion, product and services advertisements, social movements and political messages.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 65093 VARIABLE TITLE WORKSHOP IN COMMUNICATION 1-6 Credit Hours
(Repeatable for credit)Variable topic workshop in communication studies.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

COMM 65096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with COMM 75096) Independent study of area or problem to be selected in consultation with graduate staff.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 65098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for master's level graduate students. Credits may be applied toward meeting degree requirements if school approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 65591 SEMINAR IN COMMUNICATION STUDIES 3 Credit Hours
(Repeatable for credit) (Slashed with COMM 75591) Seminar course in various research areas centered in communication studies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 65652 THEORIES OF COMMUNICATION 3 Credit Hours
(Slashed with COMM 75652) Introduction to approaches in the study of human communication. Focuses on differing views of interaction from theory building and research-generation perspective.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65660 POLITICAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 75660) (Crosslisted with JMC 65660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65661 COMMUNICATION IN AN INFORMATION SOCIETY 3 Credit Hours
(Slashed with COMM 75661) Examines how the development and use of newer communication technologies have influenced human communication. Considers the evolution, social and psychological impact, and culture of newer communication technologies such as the Internet, and how research adapts to these newer media.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65662 MEDIA EFFECTS 3 Credit Hours
(Slashed with COMM 85662) This course examines the uses and effects of mediated communication, media processes, how information flows through societies, and audience reactions to media messages. Attention is paid to diverse channels, audiences and representations in media across a range of contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65665 PERSONAL AND MEDIATED COMMUNICATION 3 Credit Hours
(Slashed with COMM 75665) Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co- viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65670 INTERPERSONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 75670) Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development, interaction, interpersonal traits, compliance, conversational analysis and research methods.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT 3 Credit Hours
(Slashed with COMM 85675) Communication, uncertainty, and the management of private information examines theory and research about disclosure and uncertainty issues in communication in a variety of contexts. Course content examines disclosure and uncertainty management applications in relational contexts, health contexts, organizational contexts, and contexts involving human interaction occurring through technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65677 RELATIONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 85677) Relational communication provides an exploration of theory and research about the interactions among individuals in personal relationships. Subtopics of the course include communication and the development, maintenance, and dissolution of personal relationships, relationships across the life span, individual differences in relationships and relational processes, qualities and outcomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65683 INTERGROUP COMMUNICATION 3 Credit Hours
(Slashed with COMM 85683) Overview of theory and research of communication between groups of individuals, including issues of discrimination, language, identity, social status, religion and demographics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65686 INTERCULTURAL AND INTERGROUP COMMUNICATION 3 Credit Hours
This course will introduce students to intercultural and intergroup communication and factors contributing to successful communication among different cultures and social groups. In this course, we will discuss issues pertaining to identities and their relationships with advocacy intervention strategies. After completing this course, students will be able to analyze interactions among various groups from cultural and socio-psychological perspectives. They will learn to describe and discuss current issues of intercultural and intergroup communication by taking a critical and analytical approach. Furthermore, they will propose advocacy interventions based on their assessment of communication needs to improve relationships between members of cultures and/or social groups.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65794 TEACHING OF COLLEGE COMMUNICATION 3 Credit Hours
(Repeatable for credit) (Slashed with COMM 75794) Training and experience in college teaching. Maximum of three hours applicable toward master's degree requirements.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65851 ORGANIZATIONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 85851) Structure, methodology and application of communication theory in industrial and organizational settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 65891 SEMINAR IN ORGANIZATIONAL COMMUNICATION 3,4 Credit Hours
(Repeatable for credit) Theories and problems of human communication within, between and/or among formal organizations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3-4 other
Grade Mode: Standard Letter

COMM 66501 HEALTH COMMUNICATION 3 Credit Hours
(Slashed with COMM 86501) This course provides an overview of the ways health communication can empower individuals and communities to improve their health and well-being. Students will learn about theoretical and practical tools for communicating about and enhancing health in personal, community and healthcare contexts. In addition, the course explores how effective partnerships between researchers and community groups can be utilized in community-based participatory research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 70095 SPECIAL TOPICS IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit) (Slashed with COMM 40095 and COMM 50095) Special topic courses cover emerging issues or specialized content in Communication Studies that is not represented in the existing curriculum. Not offered every semester.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-6 lecture
Grade Mode: Standard Letter

COMM 75020 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours
(Slashed with COMM 65020) An examination of basic quantitative social scientific research methods and procedures for the study of communication.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75040 QUALITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours
(Slashed with COMM 65040) Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data, participant observation and archival strategies of data collection and interpretive and interactionist approaches to data analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75093 VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES 1-6 Credit Hours
(Repeatable for credit) Variable title workshop in communications.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

COMM 75096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours
(Repeatable for credit) (Slashed with COMM 65096) Independent study of area or problem to be selected in consultation with graduate staff.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 75591 SEMINAR IN COMMUNICATION STUDIES 3 Credit Hours
(Repeatable for credit) (Slashed with COMM 65591) Seminar course in various research areas centered in communication studies.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 75652 THEORIES OF COMMUNICATION 3 Credit Hours
(Slashed with COMM 65652) Introduction to approaches in the study of human communication. Focuses on differing views of interaction from theory building and research generation perspective.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75660 POLITICAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 65660 and COMM 75660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75661 COMMUNICATION IN AN INFORMATION SOCIETY 3 Credit Hours
(Slashed with COMM 65661) Examines how the development and use of newer communication technologies have influenced how people communicate. Considers the evolution, social and psychological impact and culture of newer communication technologies (especially the Internet) and how research adapts to such technologies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75665 PERSONAL AND MEDIATED COMMUNICATION 3 Credit Hours
(Slashed with COMM 65665) Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co-viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75670 INTERPERSONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 65670) Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development, interaction, interpersonal traits, compliance, conversational analysis and research methods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75794 TEACHING OF COLLEGE COMMUNICATION 3 Credit Hours
(Repeatable for credit) (Slashed with COMM 65794) Training and experience in college teaching. Maximum of three hours applicable toward doctoral degree requirements.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 75891 SEMINAR IN ORGANIZATIONAL COMMUNICATION 3,4 Credit Hours
(Repeatable for credit)Theories and problems of human communication within, between and/or among formal organizations.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3-4 other
Grade Mode: Standard Letter

COMM 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: COMM 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 85000 FOUNDATIONS OF COMMUNICATION AND ADVOCACY 3 Credit Hours
(Slashed with COMM 65000) This course will introduce students to the foundation of scientific inquiry and its application to effective advocacy generally, and communication studies specifically. Research in the field of communication has been central to the study and practice of advocacy. Students will learn about the history of the field and representative communication perspectives and paradigms that have been central to the study and practice of advocacy in different contexts In this course, students will explore how communication has played a role in advocacy and social change. Students will understand the root and the development of the field and thinking related to advocacy, and will evaluate, critique and synthesize communication literature.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85070 SOCIAL INFLUENCE 3 Credit Hours
(Slashed with COMM 65070) This course explores theories, ethics, and strategies of social influence in contemporary society. Students discuss, and critique influential communication practices such as advocacy, interpersonal persuasion, product and services advertisements, social movements, and political messages.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMM 85098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if school approves.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

COMM 85662 MEDIA EFFECTS 3 Credit Hours
(Slashed with COMM 65662) This course examines the uses and effects of mediated communication, media processes, how information flows through societies, and audience reactions to media messages. Attention is paid to diverse channels, audiences, and representations in media across a range of contexts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT 3 Credit Hours
(Slashed with COMM 65675) Communication, uncertainty and the management of private information examines theory and research about disclosure and uncertainty issues in communication in a variety of contexts. Course content examines disclosure and uncertainty management applications in relational contexts, health contexts, organizational contexts, and contexts involving human interaction occurring through technology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85677 RELATIONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 65677) Relational communication provides an exploration of communication theory and research about the interactions among individuals in personal relationships. Subtopics of the course include communication and the development, maintenance, and dissolution of personal relationships, relationships across the life span, individual differences in relationships and relational processes, qualities and outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85683 INTERGROUP COMMUNICATION 3 Credit Hours
(Slashed with COMM 65683) Overview of theory and research of communication between groups of individuals, including issues of discrimination, language, identity, social status, religion and demographics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 85851 ORGANIZATIONAL COMMUNICATION 3 Credit Hours
(Slashed with COMM 65851) Structure, methodology and application of communication theory in industrial and organizational settings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMM 86501 HEALTH COMMUNICATION 3 Credit Hours
(Slashed with COMM 66501) This course provides an overview of the ways health communication can empower individuals and communities to improve their health and well-being. Students will learn about theoretical and practical tools for communicating about and enhancing health in personal, community, and healthcare contexts. In addition, the course explores how effective partnerships between researchers and community groups can be utilized in community-based participatory research.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Communication and Advocacy - Graduate Certificate

College of Communication and Information
School of Communication Studies

www.kent.edu/comm

About This Program

The Communication and Advocacy graduate certificate meets the growing opportunity to tackle emerging advocacy needs. Students learn to communicate with diverse allies across digital and physical platforms; engage and motivate audiences by clearly, consistently and creatively telling stories worth sharing; and approach advocacy challenges from health, organizational, intercultural, intergroup, global, mediated and persuasion contexts. Read more...

Contact Information

- **Paul Haridakis** | comm@kent.edu | 330-672-2659
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Public relations and fundraising managers

- 9.2% much faster than the average
- 88,000 number of jobs
- $118,430 potential earnings

Advertising and promotions managers

- -1.1% decline
- 28,600 number of jobs
- $133,460 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Sample of scholarly writing
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadline

- **Fall Semester**
  - Application deadline: April 15
- **Spring Semester**
  - Application deadline: November 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
COMM 65000	FOUNDATIONS OF COMMUNICATION AND ADVOCACY	3
Certificate Electives, choose from the following:		9
COMM 65070	SOCIAL INFLUENCE	
COMM 65662	MEDIA EFFECTS	
COMM 65686	INTERCULTURAL AND INTERGROUP COMMUNICATION	
COMM 65851	ORGANIZATIONAL COMMUNICATION	
COMM 66501	HEALTH COMMUNICATION	
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Incorporate theories from the field of communication to address advocacy challenges.
2. Identify advocacy intervention strategies for a variety of target audiences.
3. Assess communication needs and evaluate advocacy intervention efficacy.

Full Description

The Communication and Advocacy graduate certificate provides communication professionals and recent graduates the skills and understanding to tackle emerging advocacy needs. Students learn to communicate with diverse allies across digital and physical platforms; engage and motivate audiences by clearly, consistently and creatively telling stories worth sharing; and approach advocacy challenges from health, organizational, intercultural, intergroup, global, mediated and persuasion contexts.

Certificate graduates will have the practical skills to respond to the dynamism that defines contemporary society. Based on current employment statistics and forecasts, the Communication the Advocacy certificate will position graduates for career advancement in multiple employment sectors.

Communication Studies - B.A.

College of Communication and Information
School of Communication Studies
www.kent.edu/comm

About This Program

Communication is the backbone of 21st century society and the modern economy — the driving force behind community action, societal change and many business endeavors. Whether you are interested in social media, digital communications/marketing, fundraising, human resources or any other field, with a Bachelor of Arts in Communication Studies, you'll master the skill employers consistently rank as most important in the workforce: effective communication. This program provides a foundation for success in careers across government, business, nonprofits and beyond. Read more...

Contact Information

- **Paul Haridakis** | comm@kent.edu | 330-672-2659
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Full program
    - Kent Campus
    - Stark Campus
  - Applied Communication concentration only
    - Ashtabula Campus
    - East Liverpool Campus
    - Salem Campus
    - Trumbull Campus
    - Tuscarawas Campus

Examples of Possible Careers and Salaries*

Meeting, convention, and event planners

- 7.8% faster than the average
- 138,600 number of jobs
- $51,560 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Public relations and fundraising managers

- 9.2% much faster than the average
- 88,000 number of jobs
- $118,430 potential earnings

Market research analysts and marketing specialists

- 17.7% much faster than the average
- 738,100 number of jobs
- $65,810 potential earnings

Additional Careers

- Corporate Training/Human Resources
- Project management
- Organizational/community advocacy
- Social media management
- Corporate communications
- Logistics
- Marketing specialists
- Arts, sports, and media
- Labor/industrial relations

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible

to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
or COMM 35912	GENDER AND COMMUNICATION (DIVD)	
or COMM 46605	COMMUNICATION ACROSS THE LIFESPAN (DIVD)	
COMM 34000	DIFFICULT DECISIONS IN COMMUNICATION (WIC) [1]	3
or COMM 45902	COMMUNICATION AND INFLUENCE (WIC)	
COMM 46091	SENIOR SEMINAR (ELR)	3
EMAT 10310	MY STORY ON THE WEB	3
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)		6
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
College of Communication and Information Core Electives, choose from the following:		9
CCI 10095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 12001	PHOTOGRAPHY	
CCI 40089	BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR)	
CCI 40095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40189	ITALIAN POP CULTURE (DIVG) (ELR)	
CCI 40289	ITALIAN CINEMA (DIVG) (ELR)	
CCI 40389	DOCUMENTARY FILMMAKING (DIVG) (ELR)	
CCI 40489	MULTIMEDIA EXPERIENTIAL LEARNING (DIVG) (ELR)	
CCI 45089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
CCI 46089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
EMAT 25310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
MDJ 21008	SOCIAL MEDIA STRATEGIES	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
VCD 13000	VISUAL DESIGN THINKING	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each) [3]		9
Kent Core Social Sciences (must be from two disciplines) [4]		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [5]		38
Concentrations		
Choose from the following:		18
Applied Communication		
Communication Studies-General		
Minimum Total Credit Hours:		**120**

1. A minimum C grade is required in COMM 34000 or COMM 45902 to fulfill the writing-intensive requirement
2. Students may apply a maximum of 6 credit hours of **COMM 45092** toward their major requirements.
3. Students who take COMM 26000 will need to fulfill 6 credit hours of Kent Core Humanities and Fine Arts. Students who do not take COMM 26000 will need to fulfill 9 credit hours of Kent Core Humanities and Fine Arts.
4. Students who take MDJ 20001 to fulfill a College of Communication and Information Core Elective will need to fulfill 3 credit hours of Kent Core Social Sciences. Students who do not take MDJ 20001 will need to fulfill 6 credit hours of Kent Core Social Sciences.
5. A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

Applied Communication Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
COMM 35864	ORGANIZATIONAL COMMUNICATION	3

COMM 45807	HIGH IMPACT PROFESSIONAL SPEAKING	3
VCD 47000	VISUAL DESIGN FOR MEDIA	3
Communication and Information Interdisciplinary Electives, choose from the following:		6
Any Communication and Information (CCI) course		
Any Emerging Media and Technology (EMAT) course		
Any Library and Information Science (LIS) course		
Any Media and Journalism (MDJ) course		
Any User Experience Design (UXD) course		
Any Visual Communication Design (VCD) course		
Additional Concentration Elective, choose from the following:		3
Any Communication and Information (CCI) course		
Any Communication Studies (COMM) course		
Any Emerging Media and Technology (EMAT) course		
Any Library and Information Science (LIS) course		
Any Media and Journalism (MDJ) course		
Any User Experience Design (UXD) course		
Any Visual Communication Design (VCD) course		
Minimum Total Credit Hours:		**18**

Communication Studies-General Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Communication Studies (COMM) Electives		6
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)		12
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmaps

Applied Communication Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
UC 10001	FLASHES 101	1
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**

Semester Two		
COMM 26000 or COMM 35852 or COMM 35912 or COMM 46605	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM) or INTERCULTURAL COMMUNICATION (DIVG) or GENDER AND COMMUNICATION (DIVD) or COMMUNICATION ACROSS THE LIFESPAN (DIVD)	3
College of Communication and Information Core Electives		3
Communication and Information Interdisciplinary Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)		3
Communication and Information Interdisciplinary Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
VCD 47000	VISUAL DESIGN FOR MEDIA	3
College of Communication and Information Core Electives		3
Additional Concentration Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
EMAT 10310	MY STORY ON THE WEB	3
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Six		
COMM 34000 or COMM 45902	DIFFICULT DECISIONS IN COMMUNICATION (WIC) or COMMUNICATION AND INFLUENCE (WIC)	3
General Electives		12
	Credit Hours	**15**
Semester Seven		
COMM 35864	ORGANIZATIONAL COMMUNICATION	3
COMM 45807	HIGH IMPACT PROFESSIONAL SPEAKING	3
General Electives		9
	Credit Hours	**15**
Semester Eight		
COMM 45092 or COMM 46091	INTERNSHIP IN COMMUNICATION STUDIES (ELR) or SENIOR SEMINAR (ELR)	3
General Electives		11
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

Communication Studies-General Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence

based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
UC 10001	FLASHES 101	1
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
COMM 26000 or COMM 35852 or COMM 35912 or COMM 46605	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM) or INTERCULTURAL COMMUNICATION (DIVG) or GENDER AND COMMUNICATION (DIVD) or COMMUNICATION ACROSS THE LIFESPAN (DIVD)	3
Communication Studies (COMM) Elective		3
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
Communication Studies (COMM) Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Four		
Communication Studies (COMM) Upper-Division Elective (30000 or 40000 level)		3
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Five		
EMAT 10310	MY STORY ON THE WEB	3
Communication Studies (COMM) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Six		
COMM 34000 or COMM 45902	DIFFICULT DECISIONS IN COMMUNICATION (WIC) or COMMUNICATION AND INFLUENCE (WIC)	3
Communication Studies (COMM) Upper-Division Elective (30000 or 40000 level)		3
General Electives		9
	Credit Hours	**15**
Semester Seven		
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)		6
General Electives		9
	Credit Hours	**15**
Semester Eight		
COMM 45092 or COMM 46091	INTERNSHIP IN COMMUNICATION STUDIES (ELR) or SENIOR SEMINAR (ELR)	3
Communication Studies (COMM) Upper-Division Elective (30000 or 40000 level)		3
General Electives		8
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate effective presentational speaking skills.
2. Display competence in written communication.
3. Develop communication literacies to critically evaluate message and their potential implications for different audiences.
4. Analyze diverse perspectives and situated lived experiences in communication settings.

The program learning outcomes reflect the university's commitment to excellence in teaching, research, creativity and community outreach and engagement.

Full Description

When employers are asked what they look for in new hires, communication skills top the list every time. The key to the Bachelor of Arts degree in Communication Studies is flexibility. The curriculum allows students to design an individual, communication-based program of coursework that prepares them for the future. The Communication Studies major provides students with the knowledge, skills and abilities to succeed across professional industries — from government and business to nonprofits and education. The program's mission is to teach students to communicate effectively, lead responsibly, understand how communication affects identities, communities and cultures, think analytically and reason critically.

The Communication Studies major comprises the following concentrations (both of which are offered in-person or fully online):

- The **Applied Communication** concentration allows students to gain expertise in organizational communication, advanced presentational speaking, professional writing and visual design. Students combine theoretical knowledge and technical skills while mastering professional tasks such as conducting training seminars, creating web content, designing promotional materials, managing communication campaigns and writing press releases.
- The **Communication Studies–General** concentration features flexibility and choice. Students create a personalized plan of study tailored to their specific academic interests and career goals in areas such as global and intercultural communication, advocacy, social media, corporate communication and workplace consulting, presentational and motivational speaking, campaign design and more. This concentration is appropriate for those who have diverse academic interests. It permits students to take courses across the schools in the College of Communication and Information and provides space for electives that students could use to pursue a minor in another discipline.

Students may apply early to the following master's degree programs and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

- Master of Arts degree in Communication Studies
- Master of Arts degree in Media and Journalism
- Master of Arts degree in Visual Communication Design
- Master of Library Information Science degree in Library and Information Science
- Master of Science degree in Emerging Media and Technology
- Master of Science degree in Health Informatics
- Master of Science degree in Knowledge Management
- Master of Science degree in User Experience

There are many study abroad/away opportunities. For more information contact the Office of Global Education or coordinator of the college's International Study Programs.

Communication Studies - M.A.

College of Communication and Information
School of Communication Studies
www.kent.edu/comm

About This Program

The Master of Arts degree in Communication Studies provides a broad spectrum of knowledge about human communication in various social contexts, and the ways in which information is produced and processed. The program prepares individuals to pursue a doctorate degree, as well as for non-academic careers in which a broad understanding of communication theory and research is desirable. Read more...

Contact Information

- **Paul Haridakis** | comm@kent.edu | 330-672-2659
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Communications teachers, postsecondary

- 3.2% about as fast as the average
- 35,600 number of jobs
- $71,030 potential earnings

Market research analysts and marketing specialists

- 17.7% much faster than the average
- 738,100 number of jobs
- $65,810 potential earnings

Public relations and fundraising managers

- 9.2% much faster than the average
- 88,000 number of jobs
- $118,430 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Sample of scholarly writing
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following: [1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

Starting with the spring 2025 admission term, minimum English language proficiency scores will be the following:

- Minimum 79 TOEFL iBT score
- Minimum 6.5 IELTS score
- Minimum 58 PTE score
- Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: April 15
- **Spring Semester**
  - Application deadline: November 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CCI 61000	QUANTITATIVE RESEARCH METHODS IN COMMUNICATION AND INFORMATION	3
or CCI 62000	QUALITATIVE RESEARCH METHODS IN COMMUNICATION AND INFORMATION	
COMM 65000	FOUNDATIONS OF COMMUNICATION AND ADVOCACY	3
COMM 65652	THEORIES OF COMMUNICATION	3
Communication Studies (COMM) Graduate Electives (50000 or 60000 level) [1]		15-18
Culminating Requirement		
Choose from the following:		3-6
COMM 60199	THESIS I	
COMM 61198	MASTERS PROJECT IN COMMUNICATION STUDIES	
COMM 64092	MASTERS INTERNSHIP IN COMMUNICATION STUDIES	
Coursework-Only Option [2]		
Minimum Total Credit Hours:		**30**

[1] A minimum 9 credit hours must be at the 60000 level. A maximum 6 credit hours may be taken from courses outside of the School of Communication Studies. A maximum 4 credit hours of workshop coursework may be taken. Some examples of routinely offered electives include COMM 65070, COMM 65662, COMM 65686, COMM 65851 and COMM 66501.

[2] Students are required to complete the Summative Assessment for Course Work Only Option (SACWO). SACWO evaluates the student's knowledge of the area(s) of specialization to determine whether the student possesses the theoretical, critical, and analytic skills that form the core of the SLOs. The assessment will be conducted by the advisor and a reader who, together, will assess the extent to which the prospective graduating student demonstrated mastery of the SLOs of the MSC program. SACWO is a zero-credit hour requirement for students who pursue the course work-only graduation option.

- Before the beginning of the semester the prospective graduate student applies to graduate, the student, in consultation with their advisor, identifies faculty who will serve as a reader.
- No later than the 2nd week of the semester the prospective graduate student applies to graduate, the student, in consultation with their faculty advisor and reader, decides the deliverable they would like to pursue for the assessment (written report, portfolio, or oral presentation). In consultation with the advisor and the reader, the student sets the scope, content, and deliverables of the assessment.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of the program will be able to:

1. Read, critique and engage in theory-based research involving a broad spectrum of topics in human communication.
2. Understand and master appropriate methodological skills for the study of human communication and apply them to relevant and shifting real-world contexts that often include newer communication technologies.
3. Utilize theory-based and state-of-the-art knowledge to stimulate and improve communication processes in educational, business and nonprofit environments.

Dual Degree with Master of Business Administration

Students have the opportunity to complete a dual degree program with the M.A. degree in Communication Studies and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual M.A./M.B.A. degree program is designed for students and professionals whose career goals focus on communication, particularly global communication, and provides direction and leadership in economic and business development processes.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
or COMM 65020	QUANTITATIVE RESEARCH METHODS IN COMMUNICATION	
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
COMM 65000	FOUNDATIONS OF COMMUNICATION AND ADVOCACY	3
COMM 65652	THEORIES OF COMMUNICATION	3
COMM 65851	ORGANIZATIONAL COMMUNICATION	3
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
Ambassador Crawford College of Business and Entrepreneurship Graduate-level Electives		6-7
Communication Studies (COMM) Electives [1]		12-15
Culmininating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Choose from the following: [1]		3-6
COMM 60199	THESIS I	
COMM 61198	MASTERS PROJECT IN COMMUNICATION STUDIES	
COMM 64092	MASTERS INTERNSHIP IN COMMUNICATION STUDIES	
Coursework		
Minimum Total Credit Hours:		**60**

Full Description

The Master of Arts degree in Communication Studies is intended to provide a broad spectrum of knowledge about human communication in various social contexts, and the ways in which information is produced and processed. Curriculum focus is on the social and behavioral study of communication theory and research. The program prepares individuals to pursue a doctorate degree, as well as for non-academic careers in which a broad understanding of communication theory and research is desirable.

Communication Studies - Minor

College of Communication and Information
School of Communication Studies
www.kent.edu/comm

About This Program

Effective communication skills are consistently rated as one of the top three proficiencies employers desire. The Communication Studies minor allows students to improve their speaking, listening, problem-solving and decision-making skills. The minor features flexibility and choice to allow students to personalize their minor for their needs. Communication skills are necessary for success in today's workplace and this minor can benefit any Kent State major.

Contact Information

- **Paul Haridakis** | comm@kent.edu | 330-672-2659
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online (Ashtabula Campus, East Liverpool Campus, Salem Campus, Trumbull Campus, Tuscarawas Campus)
  - In person
- **Location:**
  - Ashtabula Campus (mostly online)
  - East Liverpool Campus (mostly online)
  - Kent Campus
  - Salem Campus (mostly online)
  - Stark Campus
  - Trumbull Campus (mostly online)
  - Tuscarawas Campus (mostly online)

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Communication Studies minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State

University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
or COMM 35912	GENDER AND COMMUNICATION (DIVD)	
or COMM 46605	COMMUNICATION ACROSS THE LIFESPAN (DIVD)	
Communication Studies (COMM) Upper-Division Electives (30000-40000 level)		9
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Students completing this minor will be able to:

1. Display competence in verbal, nonverbal and written communication.
2. Advocate courses of action to stimulate improved decision-making.
3. Influence others through demonstrated presentational speaking skills.
4. Communicate ethically.
5. Foster inclusive dialogues and tailor messages that respect diversity, empower others, and bring about social change.
6. Articulate creative, effective and evidenced-based solutions to communication problems.
7. Coordinate action, solve problems, foster well-being, engage in critical thinking and participate in civic life.
8. Communicate effectively in a technological, multicultural and global society to bring about meaningful social change.
9. Apply information and media literacy in an effective and ethical manner.

The program learning outcomes reflect the university's commitment to excellence in teaching, research, creativity and community outreach and engagement.

School of Emerging Media and Technology

College of Communication and Information
School of Emerging Media and Technology
334 Franklin Hall
Kent Campus
330-672-9105
emat@kent.edu
www.kent.edu/emat

Undergraduate Programs

- Emerging Media and Technology - B.S.
- User Experience Design - B.S.

Minors

- Broadcast Engineering Technology
- User Experience Design
- Web Design and Development

Graduate Programs

- Emerging Media and Technology - M.S.

School of Emerging Media and Technology Faculty

- Baumgartner, Emily E. (2024), Assistant Professor, Ph.D., Kent State University, 2020
- Mis, Thomas A. (2024), Lecturer, M.S., Cleveland State University, 2012

Emerging Media and Technology (EMAT)

EMAT 10010 TECHNOLOGY, EXPERIENCE DESIGN AND SOCIETY 3 Credit Hours
Through this course, students explore the emerging media, technology and user experience design industries and develop their own emerging media project plan. Additionally, students learn about the impact of emerging media, technology and design on culture and society. Topics include an introduction to ethical design, emerging media and globalization and technology's relationship and identity formation and maintenance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 10310 MY STORY ON THE WEB 3 Credit Hours
This course focuses on inspiring digital content creation and the tools that make it all happen. Students learn and use digital software tools from the Adobe Creative Cloud that allow them to establish a web presence based on personal and entrepreneurial interests by the end of the semester. Students post their projects on a website they design using an online content management system. Skills used in this class prepare students for the professional world, including website design, content management, storytelling, multimedia and such ethical considerations as intellectual property.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 21000 INTRODUCTION TO WEB DESIGN 3 Credit Hours
Students will learn basic web design, using HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). Students are introduced to planning, designing and executing effective web pages, including developing web pages using web standards compliant HTML and CSS; leveraging CSS to style, enhance, organize and prioritize content; working with a wide range of content types and multimedia; and, producing small, functioning, multi-page websites.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 23410 COGNITION IN TECHNOLOGY 3 Credit Hours
Introduction to the basics in human cognition as they affect technology and as technology affects human cognition. Addresses designing technologies to fit and enhance cognition, augmenting cognition with technology, and cognitive tools, as well as the impact of technology on various cognitive processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 25310 CREATIVE CODING 3 Credit Hours
A hands-on introduction to computational thinking and object-oriented programming through the framework of creative coding. Students learn how to use variables, loops, functions and objects to make original works of creative code for screen-based media that move, interact and unfold over time. Emphasis in the course is placed on play and experimentation as critical facets of creative problem solving.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 29995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

EMAT 32210 DATA IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
Students work through all levels of data analysis, including accessing data; combining and cleaning datasets; describing data through report-writing and visualization; inferential statistics; and, finally, making data-based decisions and conveying those decisions to a lay audience.
This course uses Python to process data and introduce students to report writing, sharing and documentation. Course's focus is to convey the strengths and limitations of both "big" and "small" data with an overarching goal of instilling ethical data practices for research and application.
Prerequisite: CS 13001 or CS 13012 or EMAT 25310 or IT 11002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 33310 HUMAN-COMPUTER INTERACTION 3 Credit Hours
A course intended to provide a broad foundation of HCI principles and perspectives relevant across multiple emerging media technologies. Focuses on both understanding HCI through the presentation of major concepts, issues and principles in HCI across the full spectrum of user-centered design processes (conceptualizing, research, prototyping, evaluation, etc.) and designing experiences, with a focus on the user, needs and task analysis and evaluation.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 39995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

EMAT 40095 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours
(Slashed with EMAT 50095) (Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EMAT 40999 INTERDISCIPLINARY PROJECTS (ELR) 3 Credit Hours
(Repeatable for credit) In this hands-on course, students work in collaborative, interdisciplinary teams to complete a technology-based project that provides an innovative solution to a real-world problem. Whenever possible, connections will be made to project-based courses in emerging media and technology and beyond.
Prerequisite: Junior standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EMAT 41000 RESPONSIVE WEB DESIGN 3 Credit Hours
(Slashed with EMAT 51000) Students learn the fundamental principles for developing standards-based web sites from a mobile-first and content-first perspective. Explore each aspect of an agile-inspired process, during which students will learn each step of what it takes to build a website and ensure its functionality for its users in terms of both usability and performance.
Prerequisite: EMAT 21000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 41510 PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC) 3 Credit Hours
(Slashed with EMAT 51510) Introduces students to the basic elements of project management as it relates to software development and the corporate environment. Although not formally endorsed by The Project Management Institute, the course aligns with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.
Prerequisite: CIS 24065 or CS 10062 or CS 13001 or CS 13012 or EMAT 25310 or ENGR 26220 or VCD 21000; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

EMAT 41610 DIGITAL SYSTEMS SECURITY 3 Credit Hours
(Slashed with EMAT 51610) Provides students with an understanding of the techniques, approaches, strategies, and computer security tactics that are used to ensure computer-related assets are protected from potential cyber compromise and are integrated with the business function. This course does not focus on the technical aspects of security (e.g., details of the operating system, data structures, or networks) but instead focuses more on computer security in a business context.
Prerequisite: EMAT 25310 or CS 13001 or CS 13012 or CIS 24065; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 42210 WEB APPLICATION DEVELOPMENT 3 Credit Hours
(Slashed with EMAT 52210) In this hands-on, project-based course, students are introduced to leading industry tools and frameworks being used to create commercial web applications today, including CSS frameworks, front-end frameworks and command line tools. Lectures, coding demonstrations and weekly assignments culminate in a collaborative final project in which students are asked to conceptualize, design and implement a web application in a collaborative, team setting.
Prerequisite: EMAT 25310 and EMAT 41000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 49991 SEMINAR IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
(Slashed with EMAT 59991) (Repeatable for credit) Society is driven, in part, by digital technology. The skills and techniques used in these fast-paced digital systems requires nimble and up-to-date skill sets. This course covers a rotating list of timely topics, including but not limited to mobile applications, content management systems, data visualizations and cutting-edge development frameworks. The student experience varies based on the topics from the rotation.
Prerequisite: CS 13001 or CS 13012 or EMAT 25310 or IT 11002.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 49992 INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY (ELR) 1-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) A credit-bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper, or experience report.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EMAT 49996 INDIVIDUAL INVESTIGATION IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

EMAT 50095 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGIES 1-3 Credit Hours
(Slashed with EMAT 40095) (Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EMAT 51000 RESPONSIVE WEB DESIGN 3 Credit Hours
(Slashed with EMAT 41000) Students learn the fundamental principles for developing standards-based web sites from a mobile-first and content-first perspective. Explore each aspect of an agile-inspired process, during which students will learn each step of what it takes to build a website and ensure its functionality for its users in terms of both usability and performance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 51510 PROJECT MANAGEMENT AND TEAM DYNAMICS 3 Credit Hours
(Slashed with EMAT 41510) Introduces students to the basic elements of project management as it relates to software development and the corporate environment. Although not formally endorsed by The Project Management Institute, the course aligns with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 51610 DIGITAL SYSTEMS SECURITY 3 Credit Hours
(Slashed with EMAT 41610) Provides students with an advanced understanding of the techniques, approaches, strategies, and computer security tactics that are used to ensure computer-related assets are protected from potential cyber compromise and are integrated with the business function. This course does not focus on the technical aspects of security (e.g., details of the operating system, data structures, or networks) but instead focuses more on computer security in a business context.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 52210 WEB APPLICATION DEVELOPMENT 3 Credit Hours
(Slashed with EMAT 42210) In this hands-on, project-based course, students are introduced to leading industry tools and frameworks being used to create commercial web applications today, including CSS frameworks, front-end frameworks and command line tools. Lectures, coding demonstrations and weekly assignments culminate in a collaborative final project in which students are asked to conceptualize, design and implement a web application in a collaborative, team setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 59991 SEMINAR IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
(Slashed with EMAT 49991) (Repeatable for credit) Society is driven, in part, by digital technology. The skills and techniques used in these fast-paced digital systems requires nimble and up-to-date skill sets. This course covers a rotating list of timely topics, including but not limited to mobile applications, content management systems, data visualizations and cutting-edge development frameworks. The student experience varies based on the topics from the rotation.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

EMAT 60010 FOUNDATIONS OF EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
Course provides an overview of foundational theories applied in the interdisciplinary emerging media and technology industries through case studies and interdisciplinary discussions. Covers issues related to technology and society; developing interdisciplinary thinking skills; examining the industry structure; and developing data-based writing, reporting and presentation skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 60310 CREATIVE CODING FUNDAMENTALS 3 Credit Hours
(Slashed with EMAT 80310) Course provides students hands-on experience, from applying foundational concepts in computational thinking and object-oriented programming to creating screen-based applications that move, interact and unfold over time. Specific topics covered include variables, loops, functions, classes and API's (Application Programming Interfaces). Particular emphasis is placed on play and experimentation as critical facets of creative problem solving and on computation as both an interdisciplinary and cross-disciplinary practice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 60999 PROJECTS IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours
(Repeatable for credit) Provides an integrative experience, bringing together components of the required coursework in the major and concentration. Students perform individual work on a project, research paper, or practicum under the supervision of faculty from programs affiliated with the School of Emerging Media and Technology.
Prerequisite: Minimum overall GPA of 3.00; and graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

EMAT 61010 ENTERPRISE ARCHITECTURE 3 Credit Hours
Explores the alignment of IT and IS investment decisions with business goals. Enterprise architecture is increasingly used in industry as a result of the continued emergence of new technologies and ongoing pressures to reengineer business processes to achieve improved efficiency and greater customer focus. Enterprise architecture identifies the main components of an organization and the ways in which these components work together. The components include performance and strategy, people, business capabilities, applications, technology, knowledge and information, as well as financial and other resources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 61310 ENTERPRISE ARCHITECTURE: ENTERPRISE ARCHITECTURE CENTER OF EXCELLENCE METHODOLOGY 2 Credit Hours
Provides an introduction to the Enterprise Architecture Center of Excellence (EACOE) methodology for enterprise architecture and practical experience using that methodology. Students learn to model a business' current or desired future state using architectural models of goals, processes, materials, roles, locations and events. Implementation models are then developed to show relationships between architectural models, and the models are analyzed to identify move-ahead initiatives that include projects, gaps, overlaps and opportunities. These initiatives are prioritized to move the business to a desired future state. At the conclusion of the course, students have the option of submitting their course enterprise architecture artifacts to EACOE for certification. Pre/
Prerequisite: Graduate standing.
Corequisite: EMAT 61010.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EMAT 61510 PROJECT MANAGEMENT LEADERSHIP 3 Credit Hours
This course introduces advanced project management and project management leadership as it relates to software development and the corporate environment. The course focuses on the project management principles of effective planning, communication and motivation throughout the project lifecycle, and one key project management deliverable such as the project management plan. Although not formally endorsed by The Project Management Institute (www.PMI.org), the course will align with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.
Prerequisite: EMAT 51510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 62010 BUSINESS ARCHITECTURE 3 Credit Hours
Exploration of the concept of business architecture as the critical component of enterprise architecture. Students learn how to develop an enterprise business architecture, to apply business architecture principles, methods and artifacts to support business IT alignment and to support change management needed to implement roadmaps and initiatives based on the business architecture. Students learn how different enterprise architecture frameworks approach the business layer.
Prerequisite: EMAT 61010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 62110 INTERACTIVE DATA 3 Credit Hours
(Slashed with EMAT 82110) Course applies students' prior experience in computational thinking and object-oriented programming to analytic, creative and interactive data experiences built in Python. Students address real-world data sets with computational, predictive and visual methods to draw insights and make decisions. Students move beyond deploying "solutions" to engaging and communicating data to constituents, user and decision makers alike. Concurrently, students discuss critical questions of modern data access, power, bias and privacy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 62210 WEB DEVELOPMENT 3 Credit Hours
Beginning with basic coverage of HTML, CSS, PHP, this course continues to explore those topics along with MySQL, jQuery, JavaScript and others. The course will also explore other topics relevant to web development in digital sciences, including security principles, hierarchy and visual design, responsive design, accessibility issues, interaction design, social media, and legal issues.
Prerequisite: CS 61002 or CS 61003 or ENGR 56330; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 64010 DATA ARCHITECTURE 3 Credit Hours
Exploration of data modeling at the conceptual and logical level of abstraction within the context of enterprise architecture. Students learn to identify business needs in terms of data to gain a holistic view of organizational data. Students use Master Data Management (MDM) and approaches to define various data sources.
Prerequisite: EMAT 61010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 64210 DATA SCIENCE 3 Credit Hours
Overview of the concept of data mining, machine learning, big data, and data analytics, including the business challenges of working with data to solve real-world business problems. Students become familiar with the Cross Industry Standard Process for Data Mining (CRISP-DM). Fundamental concepts include Business Problem Understanding, Data Understanding, Data Preparation, Modeling, Evaluation, and Deployment. Data analytics in industry verticals are discussed, including science, intelligence and law enforcement, health, retail and financial services.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 65010 APPLICATION AND TECHNOLOGY ARCHITECTURE 3 Credit Hours
Introduction to the concept of application and technology architectures in the context of enterprise architecture. Students learn how to define application and technology architecture principles and standards to support business performance, and to evaluate existing architectures in relation to performance goals. Students learn to work with application and technology artifacts and matrices, prepare a technology dictionary and develop an application architecture blueprint.
Prerequisite: EMAT 61010; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 69199 THESIS I 2-6 Credit Hours
(Repeatable for a maximum of 6 credits hours) Thesis students must register for a total of 6 hours and may take 2 to 6 hours per semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EMAT 69299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: EMAT 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EMAT 69992 INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) A credit bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper or experience report.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EMAT 69995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in digital sciences not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

EMAT 69996 INDIVIDUAL INVESTIGATION IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments, and evaluation methods may vary.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

EMAT 80310 CREATIVE CODING FUNDAMENTALS 3 Credit Hours
(Slashed with EMAT 60310) Course provides students hands-on experience, from applying foundational concepts in computational thinking and object-oriented programming to creating screen-based applications that move, interact and unfold over time. Specific topics covered include variables, loops, functions, classes and API's (Application Programming Interfaces). Particular emphasis is placed on play and experimentation as critical facets of creative problem solving, and on computation as both an interdisciplinary and cross-disciplinary practice.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EMAT 82110 INTERACTIVE DATA 3 Credit Hours
(Slashed with EMAT 62110) Course applies students' prior experience in computational thinking and object-oriented programming to analytic, creative and interactive data experiences built in Python. Students address real-world data sets with computational, predictive and visual methods to draw insights and make decisions. Students move beyond deploying "solutions" to engaging and communicating data to constituents, user and decision makers alike. Concurrently, students discuss critical questions of modern data access, power, bias and privacy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Broadcast Engineering Technology - Minor

College of Communication and Information
School of Emerging Media and Technology
www.kent.edu/emat

About This Program

The Broadcast Engineering Technology minor provides students the fundamental skills to pursue jobs in broadcast engineering in emerging media and related fields. Students learn technical applications and skills in networking, multimedia engineering, coding and problem solving. Students will have the opportunity to use technology to facilitate media distribution, streaming and interaction. They will gain experience working on project-oriented teams and achieving technical goals.

Contact Information

- **Michael Beam** | emat@kent.edu | 330-672-9105
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
EMAT 25310	CREATIVE CODING	3
ENGR 26305	NETWORKING I	2
ENGR 26306	NETWORKING I LABORATORY	1
MDJ 33042	STUDIO TELEVISION	3
MDJ 34036	MULTIMEDIA ENGINEERING	3
Minor Electives, choose from the following:		6
EMAT 32210	DATA IN EMERGING MEDIA AND TECHNOLOGY	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
ENGR 13586 & ENGR 13587	COMPUTER AIDED DESIGN I and COMPUTER AIDED DESIGN I LABORATORY	
ENGR 21020 & ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS and SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY [1]	
ENGR 35500 & ENGR 35501	SIGNALS AND CIRCUITS and SIGNALS AND CIRCUITS LABORATORY [2]	

ENGR 36305 & ENGR 36306	NETWORKING II and NETWORKING II LABORATORY
ENGR 36337	INFORMATION TECHNOLOGY SECURITY
Minimum Total Credit Hours:	**18**

[1] ENGR 21020 and ENGR 21022 must be taken concurrently with PHY 13002 or PHY 23102.

[2] ENGR 35500 and ENGR 35501 need to be taken concurrently with PHY 23102.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate competency in the fundamental skills needed to pursue jobs in broadcast engineering and streaming multimedia including computational thinking, computer networking, and technical fluency with media recording, encoding, and distribution.
2. Recognize the rapidly changing nature of broadcast engineering technology and learn the skills needed to adapt.
3. Employ teamwork as a means of solving technical problems related to broadcast and multimedia engineering.

Emerging Media and Technology - B.S.

College of Communication and Information
School of Emerging Media and Technology
www.kent.edu/emat

About This Program

Technology touches every facet of society; in the Emerging Media and Technology major, you'll explore technology at the intersection of design, education, communication, project management, computer information systems, data and more. Students learn technical applications and skills in problem solving, design, user experience, creative applications and programming and gain experience working in interdisciplinary teams to solve tech-focused problems. Read more...

Contact Information

- **Michael Beam** | emat@kent.edu | 330-672-9105
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Computer and information systems managers

- 10.4% much faster than the average
- 461,000 number of jobs
- $151,150 potential earnings

Computer occupations, all other

- 5.7% faster than the average
- 431,100 number of jobs
- $92,870 potential earnings

Computer systems analysts

- 7.4% faster than the average
- 632,400 number of jobs
- $93,730 potential earnings

Market research analysts and marketing specialists

- 17.7% much faster than the average
- 738,100 number of jobs
- $65,810 potential earnings

Project management specialists and business operations specialists, all other

- 5.9% faster than the average
- 1,361,800 number of jobs
- $77,420 potential earnings

Software developers and software quality assurance analysts and testers

- 21.5% much faster than the average
- 1,469,200 number of jobs
- $110,140 potential earnings

Web developers and digital interface designers

- 8.0% much faster than the average
- 174,300 number of jobs
- $77,200 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
DI 20100	INTRODUCTION TO DESIGN INNOVATION	3
or VCD 13000	VISUAL DESIGN THINKING	
EMAT 10010	TECHNOLOGY, EXPERIENCE DESIGN AND SOCIETY	3
EMAT 10310	MY STORY ON THE WEB	3
EMAT 21000	INTRODUCTION TO WEB DESIGN [1]	3
EMAT 25310	CREATIVE CODING	3
EMAT 32210	DATA IN EMERGING MEDIA AND TECHNOLOGY	3
EMAT 33310	HUMAN-COMPUTER INTERACTION	3
EMAT 40999	INTERDISCIPLINARY PROJECTS (ELR)	3
EMAT 41510	PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC) [2]	3
EMAT 49992	INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY (ELR)	1-6
Emerging Media and Technology (EMAT) Upper-Division Elective (30000 or 40000 level)		3
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
College of Communication and Information Core Electives, choose from the following:		9
CCI 10095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 12001	PHOTOGRAPHY	
CCI 40089	BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR)	
CCI 40095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40189	ITALIAN POP CULTURE (DIVG) (ELR)	
CCI 40289	ITALIAN CINEMA (DIVG) (ELR)	
CCI 40389	DOCUMENTARY FILMMAKING (DIVG) (ELR)	
CCI 40489	MULTIMEDIA EXPERIENTIAL LEARNING (DIVG) (ELR)	
CCI 45089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
CCI 46089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
MDJ 21008	SOCIAL MEDIA STRATEGIES	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
Minor or Certificate Requirements and General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [3]		43
Minimum Total Credit Hours:		**120**

1. Students who have taken IT 11006 or IT 21011 for another program may use it as a substitute for EMAT 21000.
2. Minimum C grade is required to fulfill the writing-intensive requirement.
3. A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program. Students are required to declare and complete a minor or a certificate as part of the Emerging Media and Technology program, either from the following list or another relevant minor or certificate with approval by the school director. A minimum of 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing. With approval by the school director, students may use a block of courses to fulfill this requirement.

- Applied Data and Information
- Communication Studies
- Computer Engineering Technology
- Computer Forensics and Security
- Computer Information Systems
- Computer Science
- Data Analytics
- Digital Media Production
- Esports
- Game Design
- Game Programming
- Health Technologies and Informatics
- Information Design
- Management for Non-Business Majors
- Modeling and Animation
- User Experience Design
- Web Design and Development
- Web Programming

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
EMAT 10010	TECHNOLOGY, EXPERIENCE DESIGN AND SOCIETY	3
EMAT 25310	CREATIVE CODING	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
DI 20100 or VCD 13000	INTRODUCTION TO DESIGN INNOVATION or VISUAL DESIGN THINKING	3
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
EMAT 10310	MY STORY ON THE WEB	3
EMAT 21000	INTRODUCTION TO WEB DESIGN	3
EMAT 32210	DATA IN EMERGING MEDIA AND TECHNOLOGY	3
Kent Core Requirement		3
Minor or Certificate Requirement or General Elective		3
	Credit Hours	**15**
Semester Four		
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Minor or Certificate Requirement or General Elective		3
	Credit Hours	**15**
Semester Five		
EMAT 33310	HUMAN-COMPUTER INTERACTION	3
Kent Core Requirement		3
Kent Core Requirement		3
Minor or Certificate Requirements and/or General Electives		6
	Credit Hours	**15**
Semester Six		
EMAT 41510	PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC)	3
College of Communication and Information Core Requirement		3
Minor or Certificate Requirements and/or General Electives		9
	Credit Hours	**15**
Semester Seven		
EMAT 49992	INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY (ELR)	1
Emerging Media and Technology (EMAT) Upper-Division Elective (30000 or 40000 level)		3
Minor or Certificate Requirements and/or General Electives		11
	Credit Hours	**15**
Semester Eight		
EMAT 40999	INTERDISCIPLINARY PROJECTS (ELR)	3
Minor or Certificate Requirements and/or General Electives		11
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	

Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate competency in the technical skills needed to pursue jobs in emerging media and technology, which includes web development, coding, data, human-computer interaction, creative applications, programming and problem-solving.
2. Utilize emerging media technologies to design better experiences, improve existing systems and analyze digital social structures.
3. Recognize the rapidly changing nature of emerging media and technology and learn the skills needed to adapt.
4. Apply interdisciplinary solutions to solving technical, social and human problems related to emerging media and technology.
5. Employ teamwork and project management as a problem solving technique.
6. Critically analyze the effectiveness of their own work and the work of others.

Full Description

The Bachelor of Science degree in Emerging Media and Technology teaches technical applications and skills in problem solving, design, user experience, creative applications and programming. Students synthesize technical and organizational skills in a series of experiential, hands-on and project-based courses in which they work collaboratively in interdisciplinary teams. The degree program offers students the space to play, imagine and solve problems. Students also learn to recognize the rapidly changing nature of emerging media and technology and learn the skills needed to adapt.

The Emerging Media and Technology major is interdisciplinary, drawing from a number of disciplines, including emerging media, design, information sciences, human-computer interaction and communication. The technology curriculum is grounded in social science and the humanities, introducing students to theories of how technology shapes and changes people and societies.

Students may apply early to the following master's degree programs and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

- Master of Arts degree in Communication Studies
- Master of Arts degree in Media and Journalism
- Master of Arts degree in Visual Communication Design
- Master of Library Information Science degree in Library and Information Science
- Master of Science degree in Emerging Media and Technology
- Master of Science degree in Health Informatics
- Master of Science degree in Knowledge Management
- Master of Science degree in User Experience

Emerging Media and Technology - M.S.

College of Communication and Information
School of Emerging Media and Technology
www.kent.edu/emat

About This Program

Tech up your skills, unleash your creativity, and shape the future of digital media with the M.S. in Emerging Media and Technology. With a curriculum that combines theory and practice, our program prepares graduates for careers in cutting-edge fields such as virtual and augmented reality, web design & development, computational social science, training technology, technical project management and data visualization. Join a dynamic community of innovators and apply today. Read more...

Contact Information

- **Michael Beam** | emat@kent.edu | 330-672-9105
- Speak with an Advisor
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery**
  - In Person
- **Location**
  - Kent Campus

Examples of Possible Careers and Salaries*

Software developers and software quality assurance analysts and testers

- 21.5% much faster than the average
- 1,469,200 number of jobs
- $110,140 potential earnings

Special effects artists and animators

- 4.1% about as fast as the average
- 67,500 number of jobs
- $77,700 potential earnings

Web developers and digital interface designers

- 8.0% much faster than the average
- 174,300 number of jobs
- $77,200 potential earnings

Computer and information systems managers

- 10.4% much faster than the average
- 461,000 number of jobs
- $151,150 potential earnings

Computer and information research scientists

- 15.4% much faster than the average
- 32,700 number of jobs
- $126,830 potential earnings

Computer systems analysts

- 7.4% faster than the average
- 632,400 number of jobs
- $93,730 potential earnings

Computer programmers

- -9.4% decline
- 213,900 number of jobs
- $89,190 potential earnings

Sociologists

- 3.6% about as fast as the average
- 3,200 number of jobs
- $86,110 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation from professional or academic evaluators
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Admission decisions will be made by the graduate program coordinator with consultation from the members of the graduate faculty.

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: April 15 (international student) and July 1 (domestic student)
- **Spring Semester**
  - Application deadline: October 1 (international student) and December 1 (domestic student)
- **Summer Term**
  - Application deadline: April 1

Applications submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
EMAT 51510	PROJECT MANAGEMENT AND TEAM DYNAMICS	3
EMAT 60010	FOUNDATIONS OF EMERGING MEDIA AND TECHNOLOGY	3
EMAT 60310	CREATIVE CODING FUNDAMENTALS	3
or EMAT 52210	WEB APPLICATION DEVELOPMENT	
EMAT 62110	INTERACTIVE DATA	3
Interdisciplinary Specialization, chose from the following: [1]		12
Applied Communication, Information and Strategy		
Applied Creative Technology		
Data Analytics/Coding		
Social Scientific Research		
Training and Development Technology		
Culminating Requirement		
Choose from the following:		6
EMAT 60999	PROJECTS IN EMERGING MEDIA AND TECHNOLOGY	
& Interdisciplinary Specialization Course		
EMAT 60999 & EMAT 69992	PROJECTS IN EMERGING MEDIA AND TECHNOLOGY and INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY	
EMAT 69199	THESIS I	
Minimum Total Credit Hours:		**30**

[1] For the interdisciplinary specialization, students develop a course plan with approval of their faculty advisor by the end of their first semester in the program. The makeup of this coursework is flexible, but each course should be designated under one of the five areas.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate competency in skills related to emerging media and technology, including technical problem-solving through
   a. coding;
   b. data-based analytics, communication and visualization; and
   c. interdisciplinary teamwork and project management.
2. Apply interdisciplinary solutions to solving technical, social and human problems related to emerging media and technology.
3. Demonstrate increased depth and breadth in applying emerging media and technology solutions in one of the areas of
   a. data analytics/coding;
   b. social scientific research;
   c. applied communication, information and strategy;
   d. applied creative technology; and
   e. training and development technology.

Full Description

The Master of Science degree in Emerging Media and Technology is designed to augment a student's skill set, affording new career opportunities for students from diverse undergraduate and professional backgrounds. Due to the program's STEM foundation and interdisciplinary nature, students learn quantitative and coding skills for emerging media platforms, including interactive websites and apps; data-based analysis, communication and visualization; theoretical understanding of the relationship between the technology industry and society; and the tools for working in and managing interdisciplinary teams on interactive technology projects.

Students in this program develop individual plans of study and engage in experiential learning through interdisciplinary elective graduate coursework in one of the following specialization areas: data analytics and coding; social scientific research; applied communication, information and strategy; applied creative technology; or training and development technology.

Web Design and Development - Minor

College of Communication and Information
School of Emerging Media and Technology
www.kent.edu/emat

About This Program

With a Web Design and Development minor, you'll learn fundamental skills in the growing areas of web development, programming, design and related fields. Coursework is focused on developing skills in coding languages, as well as an understanding of how the areas of content, visual design and user experience work together to develop effective websites and applications. Read more...

Contact Information

- **Michael Beam** | emat@kent.edu | 330-672-9105
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
EMAT 21000	INTRODUCTION TO WEB DESIGN	3
EMAT 25310	CREATIVE CODING	3
EMAT 40999	INTERDISCIPLINARY PROJECTS (ELR)	3
EMAT 41000	RESPONSIVE WEB DESIGN	3
EMAT 42210	WEB APPLICATION DEVELOPMENT	3
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate competency in the fundamental skills needed to pursue jobs in web development, web programming, web design and related fields.
2. Recognize the rapidly changing nature of web development technology and learn the skills needed to adapt.
3. Assess the societal and individual impact of new/emerging web and mobile technologies.
4. Employ teamwork as a means of solving technical problems related to web development.

Full Description

The Web Design and Development minor allows students to develop the fundamental skills needed to pursue jobs in web development, web design and related fields. Students learn technical applications and skills in problem solving, design, user experience, creative applications and coding. Students have the opportunity to use new and emerging technologies to design engaging multimedia experiences, improve existing systems, and study digital social structures. They also gain experience working in diverse teams and communicating goals, needs and processes to peers, clients and consumers.

Web developers are software engineers who understand not only the full technological "stack" that powers modern websites, but who are also conversant in and able to make connections between the design, content and business aspects of web development. Web developers work with content providers, visual designers and user experience designers. They are coders who use languages such as HTML, CSS, Python, Javascript, MySQL, PHP as well as frameworks used in web development such as Ruby or React. Web developers are also familiar with Content Management Systems, used to ensure that content and services can be delivered to end users.

For a distinct program with greater emphasis on back-end programming and database management, see the Web Programming minor.

School of Information

College of Communication and Information
School of Information
314 University Library
Kent Campus
330-672-2782
iSchool@kent.edu
www.kent.edu/iSchool

Minor

- Applied Data and Information

Graduate Programs

- Health Informatics - M.S.
- Knowledge Management - M.S.
- Library and Information Science - M.L.I.S.
- School Library Media K-12 - M.L.I.S.
- School Library Media Licensure (Non-Degree)
- User Experience - M.S.

Certificates

- Health Informatics - Graduate Certificate
- Knowledge Management - Graduate Certificate
- Medical Librarianship - Graduate Certificate

School of Information Faculty

- Albright, Kendra S. (2016), Professor, Ph.D., University of Tennessee-Knoxville, 2002
- Boon, Belinda (2006), Professor, Ph.D., University of Texas, Austin, 2006
- Gracy, Karen F. (2007), Professor, Ph.D., University of California-Los Angeles, 2001
- Hajibayova, Lala (2014), Associate Professor, Ph.D., Indiana University, Bloomington, 2014
- Harper, Sarah M. (2001), Professor, Ph.D., Kent State University, 2003
- Martens, Marianne (2012), Professor, Ph.D., Rutgers University, 2012
- Matteson, Miriam L. (2012), Professor, Ph.D., University of Maryland, 2009
- Meehan, Rebecca A. (2012), Associate Professor, Ph.D., Case Western Reserve University, 1997
- Nichols, Mary Anne (1996), Senior Lecturer, M.L.S., Kent State University, 1993
- Salaba, Athena (1993), Professor, Ph.D., University of Wisconsin-Madison, 2005
- Smith, Catherine L. (2010), Associate Professor, Ph.D., Rutgers University, 2010
- Soyka, Heather (2017), Associate Professor, Ph.D., University of Pittsburgh, 2015
- Stahr, MaryAnn A. (1998), Assistant Professor, Ph.D., Kent State University, 2008
- Zeng, Marcia L. (1992), Professor, Ph.D., University of Pittsburgh, 1992
- Zhang, Yin (1999), Professor, Ph.D., University of Illinois-Chicago, 1999

Health Informatics (HI)

HI 41095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) Topics could include current or emerging issues in health informatics. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HI 41096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level. In-progress (IP) mark permissible.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

HI 60401 HEALTH INFORMATICS MANAGEMENT 3 Credit Hours
(Slashed with HI 80401) This introductory course is a survey course that acts as a foundation for all other courses in the Health Informatics program. Basic concepts of Health Informatics are emphasized throughout. The course targets students who at some point in their career will oversee or have direct input on one of the highest expenditure areas for health care organizations--the planning, selection, deployment and management of electronic medical records (EMR), management decision-support and tracking systems (DSS) and other health information technologies (health IT).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60402 LEGAL ISSUES IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 80402) This course provides students with an introduction to the fundamentals of law for Health Informatics and Information Management. Components of learning will include general legal principles and regulatory issues in the U.S. healthcare system. Primary topics will include ethical issues, consideration of state laws and the Federal Health Insurance Portability and Accountability Act (HIPAA), privacy and security rules. Through discussion board and writing assignments, students will demonstrate understanding of practical issues of health information access, its use and disclosure, and the legal and regulatory consequences associated with breaches of health information confidentiality and security. We will explore some of the special legal issues with electronic health records (EHR) and health information exchange; secondary uses of health information; compliance; and related ethics issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60403 HEALTH INFORMATION SYSTEMS 3 Credit Hours
(Slashed with HI 80403) Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60410 HEALTH RECORDS MANAGEMENT 3 Credit Hours
(Slashed with HI 80410) This course examines Health Information Management, the role of the HIM professional in the context of the health system and the role of the health record. The role of information management and documentation principles is essential to the successful application of technology and ensuring an effective health information infrastructure. The course discusses confidentiality, privacy, security, reliable standards, data integrity, quality, governance, and ethical principles that make health care information of use for organizations and individuals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60411 CLINICAL ANALYTICS 3 Credit Hours
(Slashed with HI 80411) The use of well-defined and well-integrated clinical analytics throughout the healthcare value chain can be transformative. Through careful implementation of health analytics, hospitals can transform unwieldy amalgamations of data into information that can: improve patient outcomes, increase safety, enhance operational efficiency and support public health. Given the immense size of the data challenge, the distinctness and geographic spread of many healthcare-related activities, and the fact that so many healthcare activities are conducted by different entities which must interact with each other, there is really no other way to provide operations management tools necessary to deliver personalized medicine and to control spiraling costs. Since clinical analytics is an immature discipline, we carefully examine the practices of those institutions that are standard setters in the industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60412 CLINICAL DECISION SUPPORT 3 Credit Hours
(Slashed with HI 80412) Provides a practical survey of clinical decision support systems that collect clinical data and enable the transition to clinical knowledge in real world applications intended to improve quality and safety of patient care. Students become familiar with the basic requirements for clinical decision support systems and the challenges associated with the development and deployment of new applications within the healthcare setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60413 CHANGE MANAGEMENT IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 80413) Designed to cover the process of change management in large healthcare organizations in light of current trends. Topics related to technology requirements, technology implementations, risk assessment and buy-in are among those covered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60414 HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 80414) Provides students with the foundational principles of usability and human factors as applied to safety and quality in health informatics technology. Course readings and materials review the concepts of human factors, usability and the cognitive consequences of health information technology on clinical performance and decision making. Attention is given to the role of mobile computing in health care, as well as information visualization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60416 HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS 3 Credit Hours
(Slashed with HI 80416) This course uses a policy analysis lens to critically examine issues related to the use of information technology in healthcare from an ethical, political and regulatory perspective. Course's primary focus is on the United States, but international approaches are also be discussed. Legislation affecting health information technology area are examined,including the American Reinvestment and Recovery Act, HITECH section; Affordable Care Act and Health Insurance Portability and Accountability Act (HIPAA) of 1996. Topics and issues related to health informatics also are discussed, including structure of health administrative and delivery systems, assessment of population health, models of health care delivery, access and quality of care.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60417 PUBLIC HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 80417) Public Health Informatics (PHI) is an emergent, interdisciplinary field that focuses on the systematic management and dynamic application of information resources to enhance public health practice, education and research. As an emerging subset of Health Informatics, PHI is practiced by individuals, governmental and nongovernmental organizations at the international, national, regional, state and local levels. PHI deals with the collection and analysis of vital statistics data through surveillance; information creation; information storage and retrieval; visualization and graphics; dissemination; use of information for policy, decision making and trend tracking. The purpose of this course is to provide students with an introductory overview of the vast and dynamic field of PHI, including definitions, approaches, competencies, applications and informatics principles applied in public health settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60418 CLINICAL ANALYTICS II 3 Credit Hours
As the volume and complexity of health data continues to grow, analysis of that data requires more advanced tools to transform that data into meaningful information for clinical decisions. Not only is data from electronic medical records (EMRs) growing at a rapid pace but new types of data are available for analysis, such as, genomic data and patient generated data. These advanced analytic tools break down into three areas, each of which will be examined in this course: new data warehousing techniques to manage big data, new analytic tools including cognitive computing and predictive analytics and new ways to visualize the data. All of these techniques transform the raw data into use cases, such as, population health, precision medicine and clinical decision support using artificial intelligence and machine learning which will also be addressed in this course.
Prerequisite: HI 60411; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60419 CONSUMER HEALTH INFORMATICS 3 Credit Hours
This course examines the history and current trends in consumer health informatics, examining how patients and healthcare stakeholders manage health in the digital age. The evolution of health information technology has expanded the role of the patient to include being a consumer of healthcare, bringing with it more capabilities and responsibilities. The course will discuss health information and communication technologies and their influence on health care for patients, affecting health information seeking behaviors and expectations among multiple stakeholder groups. The course will discuss US and global perspectives for health information professionals serving health information needs in the community and in medical, academic, and public libraries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60636 STANDARDIZED TERMINOLOGIES IN HEALTHCARE 3 Credit Hours
Introduce various types of standardized healthcare terminologies (controlled vocabularies) used in the Electronic Health Records (EHR) and Health information Exchange (HIE). Present the benefits of using standardized terminologies, as well as the interoperability and Meaningful Use (MU) requirements and standards. Explain the purposes, structures, components, and application of the most widely implemented standardized terminologies such as ICD, CPT, SNOMED CT, LOINC, RxNorm, ICNP and UMLS.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60691 SEMINAR IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with HI 80691) Advanced research by students who are qualified to examine problems of certain special areas in health informatics.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HI 60693 VARIABLE TITLE WORKSHOP IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit). Intensive examination of special topics of interest to those involved in health informatics program. Maximum workshop credit for the M.S. degree in health informatics is 4 semester hours.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HI 60792 ELECTIVE INTERNSHIP IN HEALTH INFORMATICS 2-3 Credit Hours
(Repeatable for credit) Supervised work experience in health informatics of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6.66-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 61095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with HI 81095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in health informatics. Specific topics are announced in the Schedule of Classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HI 61096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for master's level students. Maximum 6 credit hours towards master's degree.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

HI 66092 MASTER'S INTERNSHIP IN HEALTH INFORMATICS 3 Credit Hours
Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of health informatics and integrates their knowledge from all HI courses and experiences.
Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 66099 MASTER'S PROJECT IN HEALTH INFORMATICS 3 Credit Hours
Provides a means for the application of the knowledge, research and competencies learned through study in health informatics to the development of an information system, product, setting or service.
Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum overall 3.000 GPA; and graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 66198 MASTER'S RESEARCH PAPER IN HEALTH INFORMATICS 3 Credit Hours
Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the Health Informatics master's degree.
Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 66199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 66299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: HI 66199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HI 80401 HEALTH INFORMATICS MANAGEMENT 3 Credit Hours
(Slashed with HI 60401) This introductory course is a survey course that acts as a foundation for all other courses in the Health Informatics program. Basic concepts of Health Informatics are emphasized throughout. The course targets students who at some point in their career will oversee or have direct input on one of the highest expenditure areas for health care organizations--the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS), and other health information technologies (health IT).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80402 LEGAL ISSUES IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 60402) This course provides students with an introduction to the fundamentals of law for Health Informatics and Information Management. Components of the learning will include general legal principles and regulatory issues in the U.S. healthcare system. Primary topics will include ethical issues, consideration of state laws and the Federal Health Insurance Portability and Accountability Act (HIPAA), privacy and security rules. Through discussion board and writing assignments, students will demonstrate understanding of practical issues of health information access, its use and disclosure, and the legal and regulatory consequences associated with breaches of health information confidentiality and security. We will explore some of the special legal issues with electronic health records (EHR) and health information exchange; secondary uses of health information; compliance; and related ethics issues.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80403 HEALTH INFORMATION SYSTEMS 3 Credit Hours
(Slashed with HI 60403) Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80410 HEALTH RECORDS MANAGEMENT 3 Credit Hours
(Slashed with HI 60410) This course examines Health Information Management, the role of the HIM professional in the context of the health system and the role of the health record. The role of information management and documentation principles is essential to the successful application of technology and ensuring an effective health information infrastructure. The course discusses confidentiality, privacy, security, reliable standards, data integrity, quality, governance, and ethical principles that make health care information of use for organizations and individuals.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80411 CLINICAL ANALYTICS 3 Credit Hours
(Slashed with HI 60411) The use of well-defined and well integrated clinical analytics throughout the healthcare value chain can be transformative. Through careful implementation of health analytics, hospitals can transform unwieldy amalgamations of data into information that can: Improve patient outcomes, increase safety, enhance operational efficiency and support public health. Given the immense size of the data challenge, the distinctness and geographic spread of many healthcare-related activities, and the fact that so many healthcare activities are conducted by different entities which must interact with each other, there is really no other way to provide operations management tools necessary to deliver personalized medicine and to control spiraling costs. Since clinical analytics is an immature discipline, we carefully examine the practices of those institutions that are standard setters in the industry.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80412 CLINICAL DECISION SUPPORT 3 Credit Hours
(Slashed with HI 60412) Provides a practical survey of clinical decision support systems that collect clinical data and enable the transition to clinical knowledge in real world applications intended to improve quality and safety of patient care. Students become familiar with the basic requirements for clinical decision support systems and the challenges associated with the development and deployment of new applications within the healthcare setting.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80413 CHANGE MANAGEMENT IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 60413) Designed to cover the process of change management in large healthcare organizations in light of current trends. Topics related to technology requirements, technology implementations, risk assessment, end user computing and buy-in are among those covered.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80414 HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 60414) Provides students with the foundational principles of usability and human factors as applied to safety and quality in health informatics technology. Course readings and materials review the concepts of human factors, usability, and the cognitive consequences of health information technology on clinical performance and decision making. Attention is given to the role of mobile computing in health care, as well as information visualization.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80416 HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS 3 Credit Hours
(Slashed with HI 60416) This course uses a policy analysis lens to critically examine issues related to the use of information technology in healthcare from an ethical, political and regulatory perspective. Course's primary focus is on the United States, but international approaches are also be discussed. Legislation affecting health information technology area are examined,including the American Reinvestment and Recovery Act, HITECH section; Affordable Care Act and Health Insurance Portability and Accountability Act (HIPAA) of 1996. Topics and issues related to health informatics also are discussed, including structure of health administrative and delivery systems, assessment of population health, models of health care delivery, access and quality of care.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80417 PUBLIC HEALTH INFORMATICS 3 Credit Hours
(Slashed with HI 60417) Public Health Informatics (PHI) is an emergent, interdisciplinary field that focuses on the systematic management and dynamic application of information resources to enhance public health practice, education and research. As an emerging subset of Health Informatics, PHI is practiced by individuals, governmental and nongovernmental organizations at the international, national, regional, state and local levels. PHI deals with the collection and analysis of vital statistics data through surveillance; information creation; information storage and retrieval; visualization and graphics; dissemination; use of information for policy, decision making and trend tracking. The purpose of this course is to provide students with an introductory overview of the vast and dynamic field of PHI, including definitions, approaches, competencies, applications and informatics principles applied in public health settings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 80691 SEMINAR IN HEALH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with HI 60691) Advanced research by students who are qualified to examine problems of certain special areas in health informatics.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HI 81095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit) (Slashed with HI 61095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in health informatics. Specific topics are announced in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HI 81096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours
(Repeatable for credit). Research or individual investigation in areas not covered by the existing curriculum for doctoral level students. Deliverables determined with instructor of record.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

Knowledge Management (KM)

KM 41095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Topics could include current or emerging issues in knowledge management. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

KM 41096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

KM 60301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT 3 Credit Hours
(Slashed with KM 80301) An introduction to the field of Knowledge Management (KM) with particular attention given to KM practices in various environments such as business, government, the military, non-profits, education, communities and societies. This course will provide students with an understanding of the nature of knowledge, core KM principles, KM processes, the KM life cycle, KM social and technological tools, KM's effects and effectiveness, KM ethics, KM strategy and significant KM issues such as culture, and innovation. Covers principles of collection versus connection as to knowledge.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60302 DESIGNING AND IMPLEMENTING KNOWLEDGE MANAGEMENT IN THE WORKPLACE 3 Credit Hours
(Slashed with KM 80302). This course will explore how to effectively create a Knowledge Management (KM) program, including learning about factors that can lead to either success or failure. Two broad areas of focus will include purposeful collaboration and effective networking. This course will cover a complete KM program methodology starting from the initial steps to form a KM program and how to create an implementation plan to give any organization the greatest chance to go from strategy to action to sustainability.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60303 KNOWLEDGE METRICS AND ASSESSMENT 3 Credit Hours
(Slashed with KM 80303) Learn how to design, build, and operate a measurement strategy that evaluates the effectiveness of a Knowledge Management (KM) program and its components in achieving business objectives. The course provides an overview of overall organization measurement approaches (e.g., focus groups, interviews, surveys) and applies them in a KM context (e.g., KM Maturity Model, Communities of Practice, Search, Expert Finding). Students will also learn how to tailor their presentation of resulting metrics for specific audiences (KM practitioner, business leader, etc.). Students will apply what they have learned to develop a measurement strategy using case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60305 COMMUNITIES OF PRACTICE 3 Credit Hours
(Slashed with KM 80305) This course will explore communities and community management from a practical perspective. It will enable students to learn how knowledge management leaders launch and lead communities of practice programs as part of their initiatives. Students will learn how community managers do their jobs successfully through applying proven practices for creating and cultivating communities. The course exposes students to the fundamental concepts and principles of communities of practice and includes real life case studies. Students will complete a course project pertaining to community of practice evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60306 THOUGHT LEADERSHIP AND CAREER DEVELOPMENT IN KNOWLEDGE MANAGEMENT 1 Credit Hour
(Slashed with KM 80306) Students will develop thought leadership strategies and innovative ideas to build their professional agenda and guide career planning. Students will review their knowledge of business from a knowledge management perspective and identify related career path options. Students will share their career options to help determine their M.S. program plan.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

KM 60308 EMERGING TECHNOLOGIES IN KNOWLEDGE MANAGEMENT 3 Credit Hours
(Slashed with KM 80308) Explores the various emerging digital technologies and their application to the digital workplace that complement the human aspects of knowledge management. Work process digitalization is accelerating and artificial intelligence and mixed reality devices are critical technologies that will allow knowledge management professionals to deliver instant, relevant knowledge in the context of the work for both field and knowledge workers. Includes real life case studies of pioneers of emerging digital technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60312 STRATEGIC INTELLIGENCE 3 Credit Hours
(Slashed with KM 80312) This course is an introduction to strategic intelligence, consisting of competitive and business intelligence. Strategic intelligence is both art and science, used for critical decision-making, planning and response. Businesses and governments require effective intelligence programs, processes and tools, to track competitors, markets and trends by acquiring, organizing, analyzing and disseminating intelligence. Students will learn about the intelligence cycle, needs analysis and intelligence analysis resources, techniques and technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60316 ORGANIZATIONAL CULTURE ASSESSMENT 3 Credit Hours
(Slashed with KM 80316) In this course, students will examine different types of cultures and how each type influences a knowledge organization - how culture influences the way knowledge workers work, how they make decisions and how they behave, the internal cultures of groups and communities, the cultural attributes of knowledge workers which may impact their knowledge behaviors. Organizational cultures of multicultural, global and virtual organizations are covered in this course. Students conduct an organizational culture assessment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60370 SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES 3 Credit Hours
(Slashed with KM 80370) Introduces students to the practical contexts, methods and tools associated with semantic analysis. Focuses on early life cycle aspects of semantics, including identification and modeling of semantic problems, design of semantic solutions, and the identification and implementation of appropriate semantic technologies. Covers natural language processing, rule-based and grammar based concept extraction, rule-based and dynamic classification and automated summarization. Students work with a variety of semantic technologies.
Prerequisite: BA 64036 or EMAT 64210 or KM 60301; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 60691 SEMINAR IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) (Slashed with KM 80691) Advanced research by students who are qualified to examine problems of certain special areas in knowledge management.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

KM 60693 VARIABLE TITLE WORKSHOP IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Intensive examination of special topics of interest to those involved in knowledge management.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

KM 61095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) (Slashed with KM 81095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in knowledge management. Specific topics are announced in the Schedule of Classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

KM 61096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for master's level students. Maximum credit towards master's degree: 6 hours.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

KM 66092 MASTER'S INTERNSHIP IN KNOWLEDGE MANAGEMENT 3 Credit Hours
Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of knowledge management and integrates their knowledge from all KM courses and experiences.
Prerequisite: KM 60301, KM 60302, KM 60306, LIS 60636 and MGMT 64158; and a minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 66099 MASTER'S PROJECT IN KNOWLEDGE MANAGEMENT 3 Credit Hours
Provides a means for the application of the knowledge, research and competencies learned through study in knowledge management to the development of an information system, product, setting or service.
Prerequisite: KM 60301, KM 60302, KM 60306, LIS 60636 and MGMT 64158; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 66198 MASTER'S RESEARCH PAPER IN KNOWLEDGE MANAGEMENT 3 Credit Hours
Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the Knowledge Management master's degree.
Prerequisite: KM 60301, KM 60303, KM 60306, LIS 60636 and MGMT 64158; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Master's Project
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 66199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: KM 60301, KM 60302, KM 60306, LIS 60636; MGMT 64158; and minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 66299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: KM 66199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KM 80301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT 3 Credit Hours
(Slashed with KM 60301) An introduction to the field of Knowledge Management (KM) with particular attention given to KM practices in various environments such as business, government, the military, non-profits, education, communities, and societies. This course will provide students with an understanding of the nature of knowledge, core KM principles, KM processes, the KM life cycle, KM social and technological tools, KM's effects and effectiveness, KM ethics, KM strategy, and significant KM issues such as culture, and innovation. Covers principles of collection versus connection as to knowledge.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80302 DESIGNING AND IMPLEMENTING KNOWLEDGE MANAGEMENT IN THE WORKPLACE 3 Credit Hours
(Slashed with KM 60302). This course will explore how to effectively create a Knowledge Management (KM) program, including learning about factors that can lead to either success or failure. Two broad areas of focus will include purposeful collaboration and effective networking. This course will cover a complete KM program methodology starting from the initial steps to form a KM program and how to create an implementation plan to give any organization the greatest chance to go from strategy to action to sustainability.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80303 KNOWLEDGE METRICS AND ASSESSMENT 3 Credit Hours
(Slashed with KM 60303) Learn how to design, build, and operate a measurement strategy that evaluates the effectiveness of a Knowledge Management (KM) program and its components in achieving business objectives. The course provides an overview of overall organization measurement approaches (e.g., focus groups, interviews, surveys) and applies them in a KM context (e.g., KM Maturity Model, Communities of Practice, Search, Expert Finding). Students will also learn how to tailor their presentation of resulting metrics for specific audiences (KM practitioner, business leader, etc.). Students will apply what they have learned to develop a measurement strategy using case studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80305 COMMUNITIES OF PRACTICE 3 Credit Hours
(Slashed with KM 60305) This course will explore communities and community management from a practical perspective. It will enable students to learn how knowledge management leaders launch and lead communities of practice programs as part of their initiatives. Students will learn how community managers do their jobs successfully through applying proven practices for creating and cultivating communities. The course exposes students to the fundamental concepts and principles of communities of practice, and includes real life case studies. Students will complete a course project pertaining to community of practice evaluation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80306 THOUGHT LEADERSHIP AND CAREER DEVELOPMENT IN KNOWLEDGE MANAGEMENT 1 Credit Hour
(Slashed with KM 60306). Students will develop thought leadership strategies and innovative ideas to build their professional agenda and guide career planning. Students will review their knowledge of business from a knowledge management perspective and identify related career path options.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

KM 80308 EMERGING TECHNOLOGIES IN KNOWLEDGE MANAGEMENT 3 Credit Hours
(Slashed with KM 60308) Explores the various emerging digital technologies and their application to the digital workplace that complement the human aspects of knowledge management. Work process digitalization is accelerating and artificial intelligence and mixed reality devices are critical technologies that will allow knowledge management professionals to deliver instant, relevant knowledge in the context of the work for both field and knowledge workers. Includes real life case studies of pioneers of emerging digital technologies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80316 ORGANIZATIONAL CULTURE ASSESSMENT 3 Credit Hours
(Slashed with KM 60316) In this course, students will examine different types of cultures and how each type influences a knowledge organization - how culture influences the way knowledge workers work, how they make decisions and how they behave, the internal cultures of groups and communities, the cultural attributes of knowledge workers which may impact their knowledge behaviors. Organizational cultures of multicultural, global and virtual organizations are covered in this course. Students conduct an organizational culture assessment.
Prerequisite: KM 80301; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80370 SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES 3 Credit Hours
(Slashed with KM 60370) Introduces students to the practical contexts, methods and tools associated with semantic analysis. Focuses on early life cycle aspects of semantics, including identification and modeling of semantic problems, design of semantic solutions and the identification and implementation of appropriate semantic technologies. Covers natural language processing, rule-based and grammar based concept extraction, rule-based and dynamic classification and automated summarization. Students work with a variety of semantic technologies.
Prerequisite: KM 80301; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

KM 80691 SEMINAR IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) (Slashed with KM 60691) Advanced research by students who are qualified to examine problems of certain special areas in knowledge management.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

KM 81095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) (Slashed with KM 61095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in knowledge management. Specific topics are announced in the Schedule of Classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

KM 81096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours
(Repeatable for credit). Research or individual investigation in areas not covered by the existing curriculum for doctoral level students. Deliverables determined with instructor of record.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

Library and Information Science (LIS)

LIS 20600 APPLIED DATA AND INFORMATION FUNDAMENTALS 3 Credit Hours
This course provides an introduction to data science from an information science perspective. Key elements include the role and impact of data on people and society; the disciplinary and interdisciplinary nature of data science; the information science approach to data in an applied area; the stages of data in the data lifecycle; basic knowledge and skills associated with various stages of the data lifecycle; data-related standards, principles, and best practices to make data more accessible, discoverable, retrievable, and usable; and human-centered, ethical, and contextual considerations of data.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 30010 INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND 3 Credit Hours
This course is designed to help students understand, navigate and become full participants in information society. It goes beyond basic library and internet skills to highlight issues specific to professional information environments. Emphasis is placed on acknowledging the contextual, dynamic and fluid nature of information to further understand it as a process, commodity and entity. Students will examine and critically reflect on the value of using multiple information resources and emerging technologies to fill gaps in academic, professional and personal information contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 40645 DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS 3 Credit Hours
(Slashed with LIS 50645) Characteristics and concepts of database; different types of database models; conceptual database design and implementation; the relational database model and its application in practice for information professionals: key issues, principles, and techniques; data storage, processing, retrieval, analysis, and reporting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 40646 RESEARCH DATA MANAGEMENT 3 Credit Hours
(Slashed with LIS 50646) This course introduces students to current and historical issues and practice in the creation, management, curation, access and reuse of research data. Other related topics to be addressed include systems and standards for collecting, curating and preserving research data across different disciplines and contexts. Students will develop the skills to create actionable data management plans, to support sustainable projects and to work with researchers to build, access and maintain data infrastructures. Students will have the opportunity to apply some basic principles in their respective disciplinary interests.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 40647 INTRODUCTION TO DIGITAL HUMANITIES 3 Credit Hours
(Slashed with LIS 50647) Provides students with a greater understanding of how new forms of knowledge production and representation, computational thinking and applications of various information and digital technologies have impacted research and pedagogy in humanities disciplines. Special attention is given to how information professionals can support and promote digital humanities work. Students have the opportunity to explore, apply and critique the technologies, tools, methods and values of the digital humanities field.
Pre/corequisite: LIS 40645.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 40693 VARIABLE TITLE WORKSHOP IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) Intensive examination of special topics of interest in information studies.
Prerequisite: Junior or senior standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

LIS 41095 SPECIAL TOPICS IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 51095) Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 50645 DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS 3 Credit Hours
(Slashed with LIS 40645) Characteristics and concepts of database; different types of database models; conceptual database design and implementation; the relational database model and its application in practice for information professionals: key issues, principles, and techniques; data storage, processing, retrieval, analysis, and reporting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 50646 RESEARCH DATA MANAGEMENT 3 Credit Hours
(Slashed with LIS 40646) This course introduces students to current and historical issues and practice in the creation, management, curation, access and reuse of research data. Other related topics to be addressed include systems and standards for collecting, curating and preserving research data across different disciplines and contexts. Students will develop the skills to create actionable data management plans, to support sustainable projects and to work with researchers to build, access and maintain data infrastructures. Students will have the opportunity to apply some basic principles in their respective disciplinary interests.
Prerequisite: LIS 60510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 50647 INTRODUCTION TO DIGITAL HUMANITIES 3 Credit Hours
(Slashed with LIS 40647) Provides students with a greater understanding of how new forms of knowledge production and representation, computational thinking and applications of various information and digital technologies have impacted research and pedagogy in humanities disciplines. Special attention is given to how information professionals can support and promote digital humanities work. Students have the opportunity to explore, apply and critique the technologies, tools, methods and values of the digital humanities field.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 50693 VARIABLE TITLE WORKSHOP IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) Maximum workshop credit accepted for M.L.I.S. degree is 4 credit hours. Intensive examination of special topics of interest to current M.L.I.S. students and practicing librarians, archivists and museum studies professionals.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

LIS 51095 SPECIAL TOPICS IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 41095) Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 60020 INFORMATION ORGANIZATION 3 Credit Hours
Introduction to the theory and practice of information organization and retrieval in various information environments. Familiarity with principles, standards, tools and current systems relating to organization of information and retrieval. Exploration of supported information system functions such as searching, browsing, and navigation. Assessment and evaluation of information organization and retrieval systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60030 PEOPLE IN THE INFORMATION ECOLOGY 3 Credit Hours
Takes a user-centered approach in exploring the information needs and behaviors of people (as individuals and in groups, communities, and institutions) in relation to the larger information ecology that surrounds them. Topics covered include an overview of information ecology; the user-centered paradigm; major information needs and information behavior theories, models, and findings; the landscape of information sources and services for users; factors that influence people's information needs and behaviors; and user empowerment, information ethics, information fluency, and related issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60040 INFORMATION INSTITUTIONS AND PROFESSIONS 3 Credit Hours
Examines the political, social, economic, and technical forces that influence the larger environments in which information institutions are situated. This course explores characteristics of the environments in which information professionals may work, including but not limited to academic, school, public, and special libraries, museums, archives, cultural heritage institutions, government organizations, corporations across all industries, and information creators and publishers. The course explores characteristics of the information profession including core values and principles, emerging professions, and understanding possible futures in profession, and explores ideas of organizational behavior in information institutions that operate across the institution as a whole, within groups, and within individuals in the organization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60050 RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours
Focuses on quantitative and qualitative research methods applicable to information settings and environments. Explores research design, data analysis, proposal development, and ethical issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60099 MASTER'S PORTFOLIO IN LIBRARY AND INFORMATION SCIENCE 1 Credit Hour
Completed in a student's last semester. It will include the creation of an electronic portfolio to represent and self-evaluate the student's experience throughout the MLIS program, considering program learning outcomes and preparation for a career in the field of library and information science.
Prerequisite: LIS 60030; and LIS 60020 or LIS 60624; and LIS 60040 or LIS 60607; and 27 credit hours of graduate coursework; and graduate standing.
Pre/corequisite: LIS 60050.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.
Prerequisite: LIS 60020 and LIS 60030 and LIS 60040 and LIS 60050; and minimum 3.000 overall GPA; and 24 hours of LIS coursework; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: LIS 60199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 60401 LEADERSHIP IN LIBRARIES AND INFORMATION CENTERS 3 Credit Hours
This course will review the concept of leadership while delving into its relationship to and differences from management, and its application in the personal and professional lives of information professionals. Beginning with an examination of personal leadership styles, the course will review the major philosophies of leadership thought that affect the library and information fields, the role of mentors, team building, project management, the moral and ethical responsibilities of leading others and leading through change in the information world.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60510 DIGITAL TECHNOLOGIES I: DATA FUNDAMENTALS 1 Credit Hour
The first of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on data representation, encoding, formatting, and data modeling.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60511 DIGITAL TECHNOLOGIES II: INTERNET FUNDAMENTALS 1 Credit Hour
The second of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on online information systems, the Internet, and data security.
Prerequisite: Graduate standing.
Pre/corequisite: LIS 60510.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60512 DIGITAL TECHNOLOGIES III: INFORMATION SYSTEMS FUNDAMENTALS 1 Credit Hour
The third of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on Web-based information applications, programming logic, Linked Data, and the interpretation of data.
Prerequisite: Graduate standing.
Pre/corequisite: LIS 60511.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60601 INFORMATION SOURCES AND REFERENCE SERVICES 3 Credit Hours
Introduction to use and evaluation of basic sources of reference information, in-house and online; reference interview and question-negotiation techniques; administration of reference and information services.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60602 RESOURCE DESCRIPTION AND ACCESS 3 Credit Hours
Theoretical foundation, principles, core concepts, and practical application of current standards and conceptual models for the description (descriptive cataloging) of a variety of resources in information institutions. Topics include history and principles of descriptive cataloging standards, best practices documentation, resource discovery, authority work, encoding standards and structures, linked data, ethical issues, as well as current topics in resource description and access, such as emerging technologies and future directions.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60603 SUBJECT ANALYSIS, REPRESENTATION AND ACCESS 3 Credit Hours
(Slashed with LIS 80603) The course focuses on the theories, principles, and practices of subject analysis of the intellectual content of information resources and its representation through controlled vocabularies and classification. It covers fundamental concepts of aboutness, vocabulary control, classification theory, ethical considerations, and the theoretical foundations, structure, and the application of major subject vocabularies (LCSH), classification schemes (DDC and LCC), and other knowledge organization systems, including genre/form and named entity management. The course also includes examinations of authority control for subject headings.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60607 SCHOOL LIBRARY MANAGEMENT 3 Credit Hours
School Library Management focuses on theoretical and practical aspects of school library management. This course provides a foundation for the completion of a successful culminating experience practicum and licensure exam for School Library Media licensure K-12. The course content delivery, exploration activities and completion of assignments have been aligned with state of Ohio and the American Association of School Librarians national school library media standards and guidelines. This course includes 10 hours of practical experience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60608 THE PUBLIC LIBRARY 3 Credit Hours
Analysis of the historical, sociopolitical, technological, fiscal and organizational factors affecting American public librarianship. Includes evaluation, planning, networking, funding, automation, buildings and censorship.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60609 MARKETING THE LIBRARY 3 Credit Hours
Introduction to the theory and practice of marketing the library. Topics include the evaluation of customer needs, the marketing mix, merchandising, public relations, relationship marketing, and the design and development of a marketing plan for libraries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60612 LIBRARY MATERIALS AND SERVICES FOR ADULTS 3 Credit Hours
Recent investigations of group and individual reading habits; advisory services in various types of libraries; library programs for adult education; projection of library materials toward community.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60613 INFORMATION NEEDS, SEEKING AND USE 3 Credit Hours
(Slashed with LIS 80613) Surveys theories and research related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources, communication and collaboration in the information search process, information use, and other interactions among people, information, and information systems.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60614 COLLECTION MANAGEMENT IN LIBRARIES 3 Credit Hours
Principles of collection development and management for public, academic, school and special libraries, including maintenance (weeding and analysis), needs assessment, acquisitions, e-resources, licensing, and preservation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60615 THE ACADEMIC LIBRARY 3 Credit Hours
Governance, administration and services of libraries in institutions of postsecondary education.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60616 THE SPECIAL LIBRARY 3 Credit Hours
The formation of special libraries. Libraries in special subject fields and in organizations: corporations, government agencies, hospitals, etc. Internal organization and administration collection development and services.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60617 INFORMATION LITERACY FOR YOUTH 3 Credit Hours
This course is intended to guide graduate students in creating and providing information literacy instruction for youth in school and public libraries. This course includes 10 hours of practical experience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60618 INFORMATION LITERACY INITIATIVES AND INSTRUCTION 3 Credit Hours
Information literacy is an essential competency needed to navigate an information society. This course explores how to create and deliver effective information literacy instruction to post-secondary students and adult populations. Topics include a comparison of information literacy standards and frameworks; learning theories focused on adult learning; planning, creating, delivering, and assessing IL instruction activities; and developing and managing IL instruction in collaboration with key stakeholders.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60620 HEALTH INFORMATION RESOURCES 3 Credit Hours
Identifies print and electronic sources of health information with emphasis on electronic sources. Medical patient and consumer health information is presented. This course is designed for the health educator, librarian, nurse or other health care professional.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60624 CATALOGING FOR SCHOOL LIBRARIES 3 Credit Hours
Organization and administration of print and non-print materials in school libraries. Application of appropriate descriptive cataloging rules, subject headings and classification policies for children's, teen and educational materials K-12.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60625 ENGAGING YOUNG CHILDREN AND FAMILIES 3 Credit Hours
Selection and utilization of materials in relation to needs, abilities and interests of the young child.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60626 ENGAGING TEENS 3 Credit Hours
Selection and utilization of books and materials in relation to needs, abilities and interests of teens.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60627 ART AND STORY: THE STUDY OF CHILDREN'S PICTUREBOOKS 3 Credit Hours
(Slashed with LIS 80627) This course engages students in the study and application of art and story in children's picturebooks through the lenses of book history, publishing studies, children's book illustration and storytelling, visual literacy and visual storytelling. Picture book readers are also studied, from professional readers, like librarians and book reviewers, to picturebook consumers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60629 ENGAGING SCHOOL-AGE CHILDREN 3 Credit Hours
Selection and utilization of materials in relation to needs, abilities and interests of school age children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60630 REFERENCE SOURCES AND SERVICES FOR YOUTH 3 Credit Hours
Organization and administration of information sources and information services for children and young adults (K-12). Evaluation selection and utilization of print and electronic sources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60631 INTRODUCTION TO DIGITAL PRESERVATION 3 Credit Hours
(Slashed with LIS 80631) Approaches and standards for preserving and maintaining access to digitized and born-digital text, images, data, audiovisual information, and web resources. Topics include longevity of digital media, selection for preservation; formats and strategies for preservation; preservation metadata; integrity and authenticity of digital materials; establishment and certification of trustworthy digital repositories; risk management; and policy development.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60633 DIGITAL CURATION 3 Credit Hours
(Slashed with LIS 80633) Management and preservation of digital objects and records throughout their lifecycle. Essential technologies and standards for building and maintaining robust, trusted digital repositories. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60635 CULTURAL HERITAGE INFORMATICS 3 Credit Hours
(Slashed with LIS 80635) Cultural heritage informatics brings a comprehensive, cross-disciplinary approach to supporting the entire lifecycle of cultural heritage information and documentation procedures for the benefit of the preservation, study, and promotion of cultural heritage. The course covers methods of creating descriptions for cultural objects, as well as organizing, delivering, and presenting the cultural heritage (tangible, intangible, and digital) resources in the digital age. The course aims to prepare students for careers focusing on or transcending libraries, archives, museums (LAMs), historical societies, and other cultural institutions by introducing them the methodologies and technologies commonly used in cultural heritage informatics and can be broadly implemented in LAMs.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60636 KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES 3 Credit Hours
(Slashed with LIS 80636) Introduction to various types of knowledge organization structures, services, and systems (KOS) used in the networked environment. Understanding of the functional philosophical, logical and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the taxonomy, thesaurus and ontology construction. Analysis and evaluation of KOS. Issues related to online display, visualization, interoperability and internationalization.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60637 METADATA ARCHITECTURE AND IMPLEMENTATION 3 Credit Hours
(Slashed with LIS 80637) Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60649 INDEXING AND ABSTRACTING 3 Credit Hours
(Slashed with LIS 80649) Principles and methods of manual and computerized indexing and abstracting applied to I & A databases, back of book indexes website indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats and subjects. Automation and I & A services in networked environments.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60650 INFORMATION POLICY 3 Credit Hours
Political, economic, cultural and legal issues regarding the production, distribution and use of information (print, electronic and Web). Policy-making process, standards and protocols, intellectual property, information economy, impact of computers on access and policy, privacy rights, transnational flow of information and the Internet and the World Wide Web.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60651 DIGITAL IMAGE PROCESSING AND COLLECTION MANAGEMENT 3 Credit Hours
This course is designed to introduce students to the fundamental concepts, terminology, techniques and applications of digital imaging as they relate to the development of digital image collections depicting works found in museum collections, archives and special collections in libraries. The students will acquire knowledge and skills necessary to design, create, and manage digital images of text, graphics, slides and reproductions of 3-D objects. They will also be introduced to the principles and issues that pertain to the creation and distribution of digital image archives via image databases and the Web environment.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60652 FOUNDATIONS OF RECORDKEEPING IN SOCIETY 3 Credit Hours
An introduction to the core principles and practices of recordkeeping and the multiple and complex roles records and archives play in identity, evidence, transparency, memory, accountability, equity, representation and trust in society. This course covers historical and contemporary recordkeeping contexts related to individuals, family, community, organization, corporate, academia and government, as well as traditional, nontextual and digital formats of records and archives.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60654 PRESERVATION AND CONSERVATION OF HERITAGE MATERIALS 3 Credit Hours
Types and causes of deterioration of various kinds of library, archival, and museum collections; storage and preventive care, preservation through photographic reproduction and digital conversion, and conservation of rare materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60655 COPYRIGHT: UNDERSTANDING USER RIGHTS AND RESPONSIBILITIES 3 Credit Hours
Exploration of advanced copyright topics such as mass digitization, creative arts and other issues in fair use, library, archive and educational uses including the TEACH Act, digital first sale rights, Digital Millennium Copyright Act, and an introduction to copyright reform.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60657 THEORY AND METHODS OF ARCHIVAL ACQUISITION, SELECTION AND APPRAISAL 3 Credit Hours
(Slashed with LIS 80657) This course provides a comprehensive introduction to the theory, methods and traditions employed by records professionals to form and shape archives as societal memory. This course focusses primarily on acquisition, selection, documentation and appraisal theory and methods. Students will also examine contemporary records frameworks and approaches and issues faced by archivists, special collections librarians and manuscript curators employed to identify, evaluate, acquire and dispose of records.
Prerequisite: LIS 60652; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60658 THEORY AND PRACTICE OF ARCHIVAL DESCRIPTION 3 Credit Hours
This course will introduce students to the theory and practice of archival description, including 1) principles of provenance and original order, 2) hierarchical arrangement and description; 3) standards central to archival description including Describing Archives: A Content Standard (DACS), Machine Readable Cataloging (MARC), and Encoded Archival Description (EAD); 4) archival authority work, including Encoded Archival Context (EAC); and 5) subject access for archival materials. Other related topics to be addressed include approaches to description of born-digital archival records, management of description programs, design of information systems for archival description, project management and cost analyses, and community-driven archival description such as tagging and reparative description.
Prerequisite: LIS 60020; and graduate standing.
Pre/corequisite: LIS 60652.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60659 INTRODUCTION TO AUDIOVISUAL ARCHIVING 1 Credit Hour
Introduction to the issues and challenges of preserving and providing access to archival moving image and sound material. Topics include basics of media care and handling; methods and approaches to preservation and digitization; and appraisal, description and access methods.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60665 RARE BOOKS AND SPECIAL COLLECTIONS 3 Credit Hours
Study of the theory and practice of rare books and special collections librarianship. Topics to be addressed include identification and description of collections, history of the book, valuation, collection development, preservation, security, access and discovery, promotion and outreach, and administration of collections and resources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60668 INTERNATIONAL LIBRARIANSHIP AND INFORMATION SERVICES 3 Credit Hours
Main theoretical traditions, concepts, and in-depth understanding of international librarianship (library communication on international issues) and comparative librarianship (comparative study of information services in specific contexts) through the study of international cooperation, influences, development aid, international organizations and associations, differences, major issues facing library and information services within their socio-economic, political, and cultural contexts, and innovations to solve these issues across the world.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60669 INFORMATION SERVICES FOR DIVERSE POPULATIONS 3 Credit Hours
Explores services for diverse populations to ensure equity of access to information in a range of LIS institutional settings. Special interests or needs include sensory or mobility-impairment; learning disabilities; illiteracy; incarceration and institutionalization; demographic factors (age, race, ethnicity, socio-economic status, sexual orientation, gender identity); non-native English speakers; and homeless persons. Covers Federal regulations, materials, spaces, programs and services, professional attitudes, techniques, and technology issues.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60671 INTRODUCTION TO CATALOGING PRINCIPLES AND PRACTICES IN MEDICAL LIBRARIES 1 Credit Hour
This course is designed to provide students with cataloging knowledge in the area of medical librarianship. Students will learn how to apply subject analysis principles to evaluate medical resources and assign medical subject headings. This course is one course in a three, one-credit hour sequence of medical librarianship courses.
Prerequisite: LIS 60020; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60672 REFERENCE SOURCES AND SERVICES IN MEDICAL LIBRARIES 1 Credit Hour
This course is intended to introduce specialized reference services and sources found in medical library settings.
Prerequisite: LIS 60030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60673 MEDICAL LIBRARY MANAGEMENT AND CULTURE 1 Credit Hour
This course introduces the environment and context of a medical library to students. The course starts with the context of the medical environment and moves to medical libraries, medical librarianship and related management issues specific to medical library environments. The course reviews typical work scenarios and requests for medical librarians.
Prerequisite: LIS 60040; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60675 YOUTH MEDIA CULTURES 3 Credit Hours
Emerging and evolving digital formats extend book-related content for young people aged 0-18 across media platforms and provide young audiences with interactive ways of engaging with stories. However, the proliferation of new media formats and related social media platforms means there are just as many questions related to their selection, evaluation and use. This course aims to answer those questions and to critically examine digital formats and related implications for stakeholders -- including librarians, publishers, authors, illustrators and consumers -- in the field of content produced for young people, from apps to books to video games.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60676 TEACHING STRATEGIES AND METHODS IN SCHOOL LIBRARIES 3 Credit Hours
Principles of teaching students including curriculum, planning instruction, assessment, fundamentals of evaluation, and reflective practice. All course content focuses on preparing teachers to instruct in the school library media center and obtain a multiage licensure in K-12 School Library Media. This course will include 65 hours of supervised experiential learning that are integrated with academic instruction and related to the student's occupational goal as a school librarian. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60677 SEXUAL AND GENDER IDENTITY IN CHILDREN'S AND TEEN LITERATURE 1 Credit Hour
This course focuses on both theoretical and practical aspects of providing and managing LGBTQAI+ literature and services to youth in the context of public and school libraries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60678 ENGAGING CHILDREN AND TEENS WITH LATINE LITERATURE 1 Credit Hour
This course is intended to introduce literature written by Latine authors and for Latine youth to be selected for use by informational professionals in information institutions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

LIS 60691 SEMINAR IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 80691) Advanced research by small groups of students who are qualified to examine problems of certain special areas in information studies.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

LIS 60692 INTERNSHIP IN INFORMATION AND CULTURAL HERITAGE INSTITUTIONS 2-3 Credit Hours
(Repeatable for credit) Supervised experience of a professional nature of not less than 100 clock hours for 2 credit hours or not less than 150 clock hours for 3 credit hours in an information or cultural heritage institution. Deliverables determined with instructor of record. Maximum registration of 2-3 credit hours per semester. No more than a total of 6 credit hours of Internship or Individual Investigation or any combination of the two may count toward MLIS degree requirements.
Prerequisite: LIS 60040; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 60700 FOUNDATIONS OF MUSEUM STUDIES 3 Credit Hours
Intended for those interested in learning more about museums or specializing in museum studies. The goal is to introduce students to various aspects of all types of museums as dynamic networked systems positioned around objects, people and ideas. Covers history and types of museums, the roles of objects and ideas, structure, function, museum workers and users, and the purpose and future of museums.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60701 MUSEUM COLLECTIONS 3 Credit Hours
This course introduces students to the organization, care and meaning of objects held in museum collections. Through both theoretical and practical concepts, basic collection management and registration skills are introduced. In conjunction, students explore the meanings made of museum objects.
Prerequisite: LIS 60700; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60702 MUSEUM COMMUNICATION 3 Credit Hours
Museums communicate to the public in a multitude of ways: interpretation, exhibition, publication, educational programming and using a web presence. This course introduces important concepts, theories, applications, processes and technology used in museum interpretation and communication. Students are provided with a balance of practical techniques with thoughtful conceptual exploration.
Prerequisite: Graduate standing.
Pre/corequisite: LIS 60700.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60703 MUSEUM USERS 3 Credit Hours
Families, individuals and students visit museums and community institutions for a variety of purposes including leisure, education and curiosity. This course introduces students to the research and theory on museum user experience using a contextual approach to understanding museum users via the personal, socio-cultural and physical. This inquiry will involve examining notions of learning, engagement, and transformative experiences of users, characteristics of users, and the social dynamics of the museum experience. In addition, this course will review several programmatic techniques and methods used in museums to increase engagement and learning for visitors and take the student through all aspects of a museum visit, from beginning to end.
Prerequisite: Graduate standing.
Pre/corequisite: LIS 60700.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 60792 CULMINATING EXPERIENCE PRACTICUM IN K-12 LIBRARIES 3 Credit Hours
Under the advisement of a faculty member, students complete a professional-level practicum that serves as a culminating experience for the M.L.I.S. degree.
Prerequisite: LIS 60607 or LIS 60040; and LIS 60624 or LIS 60020; and LIS 60617 and LIS 60626 and LIS 60629 and LIS 60630; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

LIS 60892 CULMINATING EXPERIENCE FOR DUAL DEGREE 6 Credit Hours
Culminating experience for students pursuing dual degree in M.Ed. and M.L.I.S. and K-12 School Library Media licensure. Must be in a supervised educational library or information center.
Prerequisite: ADED 62145 and CI 67310 and CI 67330 and EPSY 65524 and LIS 60030 and LIS 60050 and LIS 60617 and LIS 60630 and SPED 53050; and LIS 60607 or LIS 60040; and LIS 60020 or LIS 60624; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LIS 61095 SPECIAL TOPICS IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 81095) Offered irregularly as resources and/or opportunities permit. Topics could include current or emerging issues in information studies. Specific topics are announced in the schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 61096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for master's level graduate students. Deliverables determined with instructor of record. Maximum registration of 1-3 credit hours per semester. Students may count a maximum of 6 credit hours of individual investigation toward their MLIS degree requirements. No more than a total of 6 credit hours of Internship or Individual Investigation or any combination of the two may count toward MLIS degree requirements.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

LIS 80603 SUBJECT ANALYSIS, REPRESENTATION AND ACCESS 3 Credit Hours
(Slashed with LIS 60603) The course focuses on the theories, principles, and practices of subject analysis of the intellectual content of information resources and its representation through controlled vocabularies and classification. It covers fundamental concepts of aboutness, vocabulary control, classification theory, ethical considerations, and the theoretical foundations, structure, and the application of major subject vocabularies (such as LCSH), classification schemes (such as Dewey), and other knowledge organization systems, including genre/form and named entity management. The course also includes examinations of authority control for subject headings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80613 INFORMATION NEEDS, SEEKING AND USE 3 Credit Hours
(Slashed with LIS 60613) Surveys theories and research related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources, communication and collaboration in the information search process, information use, and other interactions among people, information, and information systems.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80627 ART AND STORY: THE STUDY OF CHILDREN'S PICTUREBOOKS 3 Credit Hours
(Slashed with LIS 60627) This course engages students in the study and application of art and story in children's picturebooks through the lenses of book history, publishing studies, children's book illustration, and storytelling, visual literacy and visual storytelling. Picture book readers are also studied, from professional readers, like librarians and book reviewers, to picturebook consumers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80631 INTRODUCTION TO DIGITAL PRESERVATION 3 Credit Hours
(Slashed with LIS 60631) Approaches and standards for preserving and maintaining access to digitized and born-digital text, images, data, audiovisual information, and web resources. Topics include longevity of digital media, selection for preservation; formats and strategies for preservation; preservation metadata; integrity and authenticity of digital materials; establishment and certification of trustworthy digital repositories; risk management; and policy development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80633 DIGITAL CURATION 3 Credit Hours
(Slashed with LIS 60633) Management and preservation of digital objects and records throughout their lifecycle. Essential technologies and standards for building and maintaining robust, trusted digital repositories. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80635 CULTURAL HERITAGE INFORMATICS 3 Credit Hours
(Slashed with LIS 60635) Cultural heritage informatics brings a comprehensive, cross-disciplinary approach to supporting the entire lifecycle of cultural heritage information and documentation procedures for the benefit of the preservation, study, and promotion of cultural heritage. The course covers methods of creating descriptions for cultural objects, as well as organizing, delivering, and presenting the cultural heritage (tangible, intangible, and digital) resources in the digital age. The course aims to prepare students for careers focusing on or transcending libraries, archives, museums (LAMs), historical societies, and other cultural institutions by introducing them to the methodologies and technologies commonly used in cultural heritage informatics and can be broadly implemented in LAMs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80636 KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES 3 Credit Hours
(Slashed with LIS 60636) Introduction to various types of knowledge organization structures, services and systems (KOS) used in the networked environment. Understanding of the functional philosophical, logical and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the taxonomy, thesaurus and ontology construction. Analysis and evaluation of KOS. Issues related to online display, visualization, interoperability and internationalization.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80637 METADATA ARCHITECTURE AND IMPLEMENTATION 3 Credit Hours
(Slashed with LIS 60637) Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80649 INDEXING AND ABSTRACTING 3 Credit Hours
(Slashed with LIS 60649) Principles and methods of manual and computerized indexing and abstracting applied to I&A databases, back-of-book indexes, Web site indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats and subjects. Automation and I&A services in networked environments.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80652 FOUNDATIONS OF RECORDKEEPING IN SOCIETY 3 Credit Hours
(Slashed with LIS 60652) An introduction to the core principles and practices of recordkeeping and the multiple and complex roles records and archives play in identity, evidence, transparency, memory, accountability, equity, representation and trust in society. This course covers historical and contemporary recordkeeping contexts related to individuals, family, community, organization, corporate, academia and government, as well as traditional, nontextual and digital formats of records and archives.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80657 THEORY AND METHODS OF ARCHIVAL ACQUISITION, SELECTION AND APPRAISAL 3 Credit Hours
(Slashed with LIS 60657) This course provides a comprehensive introduction to the theory, methods and traditions employed by records professionals to form and shape archives as societal memory. This course focuses primarily on acquisition, selection, documentation and appraisal theory and methods. Students will also examine contemporary records frameworks and approaches and issues faced by archivists, special collections librarians and manuscript curators employed to identify, evaluate, acquire and dispose of records.
Prerequisite: LIS 80652; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80668 INTERNATIONAL LIBRARIANSHIP AND INFORMATION SERVICES 3 Credit Hours
(Slashed with LIS 60668) Main theoretical traditions, concepts, and in-depth understanding of international librarianship (library communication on international issues) and comparative librarianship (comparative study of information services in specific contexts) through the study of international cooperation, influences, development aid, international organizations and associations, differences, major issues facing library and information services within their socio-economic, political, and cultural contexts, and innovations to solve these issues across the world.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LIS 80691 SEMINAR IN INFORMATION STUDIES 1-3 Credit Hours
(Slashed with LIS 60691) Advanced research by small groups of students who are qualified to examine problems of certain special areas in information studies.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 81095 SPECIAL TOPICS IN INFORMATION STUDIES 1-3 Credit Hours
(Repeatable for credit) (Slashed with LIS 61095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in information studies. Specific topics are announced in the schedule of classes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

LIS 81096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for doctoral level students. Deliverables determined with instructor of record.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

User Experience (UX)

UX 60501 INTRODUCTION TO USER EXPERIENCE 3 Credit Hours
This course provides a comprehensive overview of User Experience (UX) from various perspectives, including the origins of UX as a professional discipline, the goals and values of UX within organizations, and elements of UX practice. It further introduces roles and contributions of specialization areas within UX, as well as the principles of user experience design. Students will develop and document their professional development goals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60502 USER EXPERIENCE PROCESSES AND PRACTICE 3 Credit Hours
Students engage in a structured walkthrough of the major goals, responsibilities, and elements of User Experience (UX) in an agile environment. This course introduces important models of iterative design processes and the professional practices of research, design, prototyping, testing and team communication. Students will explore personal goals for specialization in UX.
Prerequisite: Graduate standing.
Pre/corequisite: UX 60501.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60503 FUNDAMENTALS OF INTERACTION DESIGN 3 Credit Hours
This course offers students a comprehensive understanding of interaction design principles and their practical implementation. It covers the concept of prototyping, enabling students to create their own prototypes, and refine them based on peer feedback.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60504 ACCESSIBILITY AND UNIVERSAL DESIGN 3 Credit Hours
This course will provide user experience researchers and designers with the skills to evaluate technology accessibility, as well as an understanding of the principles of universal design and how they guide and influence the design of digital experiences
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60511 INFORMATION ARCHITECTURE FUNDAMENTALS 3 Credit Hours
Introduction to the fundamental concepts of information architecture (IA) and underlying cognitive processes of concept structure and information categorization. Students develop practical skills for content analysis and the design and evaluation of information architectures. Major topics include organization, navigation, labeling and design for finding.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60521 DATA-DRIVEN INTERACTION FUNDAMENTALS 3 Credit Hours
Recent technological advances, particularly in machine learning (ML) and artificial intelligence (AI), have ushered in a new era of data-driven interactions between users and technology. This course is designed to prepare students for UX careers in these data-driven environments by providing a fundamental understanding of data, databases, ML, and AI. Students will explore the future of user experience shaped by ML and AI and discuss the ethical dimensions of this evolution, including issues of fairness, accountability and transparency.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60531 DISCOVERY RESEARCH FUNDAMENTALS 3 Credit Hours
In order to design a successful user experience, UX professionals seek to discover users' needs, goals and tasks. This course covers discovery research methods such as interviews, surveys, diary studies and other methods applicable to the formative stages of the design process.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60541 USER EXPERIENCE EVALUATION FUNDAMENTALS 3 Credit Hours
Evaluating prototypes and products is a critical component of user experience design. This course covers qualitative and quantitative evaluation methods, such as heuristic evaluation, cognitive walkthrough, usability testing, A/B testing and experimental design. Students will learn how to choose evaluation methods, how to conduct them and how to communicate the results of evaluations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UX 60691 SEMINAR IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with UX 80691) Advanced research by students who are qualified to examine problems of certain special areas in user experience.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

UX 60693 VARIABLE TITLE WORKSHOP IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) Intensive examination of special topics of interest to those involved in user experience.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

UX 60792 ELECTIVE INTERNSHIP IN USER EXPERIENCE 2-3 Credit Hours
(Repeatable for credit) Supervised work experience in user experience design of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours).
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6.33-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

UX 61095 SPECIAL TOPICS IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with UX 81095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in user experience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UX 61096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit). Individual investigation in areas not covered by the existing curriculum for master's level students.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

UX 66199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: UX 60501 and UX 60502 and UX 60503 and UX 60504; and a minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

UX 66299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: UX 66199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

UX 80691 SEMINAR IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with UX 60691) Advanced research by students who are qualified to examine problems of certain special areas in user experience.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

UX 81095 SPECIAL TOPICS IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with UX 61095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in user experience.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UX 81096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE 1-3 Credit Hours
(Repeatable for credit). Research or individual investigation in areas not covered by the existing curriculum for doctoral level students. Deliverables determined with instructor of record.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

User Experience Design (UXD)

UXD 20001 INTRODUCTION TO USER EXPERIENCE DESIGN 3 Credit Hours
Students explore the context within which User Experience Design exists and the fundamental research that explains human behavior and how that research informs design decisions. Students are also introduced to the basic design processes and deliverables employed by UXD professionals.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UXD 40104 USABILITY 3 Credit Hours
Provides a conceptual and practical overview of the processes and methods of usability testing such as development of test protocols, goals, facilitation, analysis and reporting of results. Actual usability tests are performed, using quantitative and qualitative methods and employing emerging software tools to facilitate data collection and analysis.
Prerequisite: UXD 20001.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

UXD 41095 SPECIAL TOPICS IN USER EXPERIENCE DESIGN 1-3 Credit Hours
(Repeatable for credit) Topics could include current or emerging issues in user experience design. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UXD 41096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE DESIGN 1-3 Credit Hours
(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

Applied Data and Information - Minor

College of Communication and Information
School of Information
www.kent.edu/iSchool

About This Program

The Applied Data and Information minor equips students with the essential knowledge and skills needed to thrive in a data-driven economy by taking a holistic approach to data science education. The program covers topics such as the data lifecycle, standards and best practices for data collection and management, data literacy, data user behavior and data ethics. With the minor, students are prepared for careers in data science within their respective major areas. Read more...

Contact Information

- **Meghan Harper** | iSchool@kent.edu | 330-672-2782
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
EMAT 25310	CREATIVE CODING [1]	3
LIS 20600	APPLIED DATA AND INFORMATION FUNDAMENTALS	3
LIS 40645	DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS	3
LIS 40646	RESEARCH DATA MANAGEMENT	3
Minor Electives, choose from the following: [2]		6
EMAT 32210	DATA IN EMERGING MEDIA AND TECHNOLOGY	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
Minimum Total Credit Hours:		**18**

1 Students who complete the following courses may have the course(s) applied toward the programming/coding elective: CS 13001 or CS 13011 and CS 13012

2 Students who complete the following courses may have them applied toward the minor electives: BA 24056 and VCD 43007.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain the role and impact of data on people and society as well as the interdisciplinary and disciplinary nature of data science
2. Describe the information science approach to data in an applied area
3. Recognize various stages of data in the data lifecycle and what each stage entails
4. Obtain basic knowledge and skills associated with various stages of the data lifecycle
5. Identify and describe data standards, principles and best practices for collecting, curating, preserving and making data more accessible, discoverable, retrievable and usable
6. Describe research data management challenges and opportunities in archives, academic and public libraries and public life
7. Develop the skills to create actionable data management plans to support sustainable projects
8. Identify and describe issues and best practices in the creation, management, curation, access and reuse of research data.
9. Discuss human-centered, ethical and contextual considerations of data.

Full Description

The Applied Data and Information minor allows students to obtain and develop the fundamental knowledge and skills necessary to be competitive in today's workforce in an increasingly data-driven economy and society. Students gain essential skills in data literacy and fluency while also learning about relevant applications in their respective majors and fields of interest. Specifically, students learn about data science from an information science perspective to obtain a holistic understanding of data with some key data science elements such as the following:

- Data lifecycle, which covers the various stages of data, from initial data creation to data storage, data sharing and use and data archiving or deletion;
- Standards and best practices for data collection, description, representation and management to make data more accessible, discoverable, retrievable and usable;
- Data digitization, preservation and archiving;
- Interdisciplinary approaches to data science;
- Data literacy and competencies in general, as well as in applied disciplinary context;
- User behavior associated with data systems and systems that collect data; and
- Data ethics and policies for safe, fair and empowered use of data, etc.

Some common jobs that the minor prepares students for include such occupational titles as data scientist, data analyst, decision support, data manager, data science specialist, data science associate, data science research associate and data science consultant.

Health Informatics - Graduate Certificate

College of Communication and Information
School of Information
www.kent.edu/iSchool

About This Program

The Health Informatics graduate certificate prepares graduates to assume entry level, mid-career or senior level positions within healthcare systems. Based on the students' experience, the certificate is customizable to their interests and career goals within health informatics venues.

Contact Information

- **Meghan Harper** | iSchool@kent.edu | 330-672-2782
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Computer and information research scientists

- 15.4% much faster than the average
- 32,700 number of jobs
- $126,830 potential earnings

Computer occupations, all other

- 5.7% faster than the average
- 431,100 number of jobs
- $92,870 potential earnings

Health information technologists, medical registrars, surgical assistants, and healthcare practitioners and technical workers, all other

- 7.9% faster than the average
- 59,400 number of jobs
- $51,840 potential earnings

Database administrators and architects

- 9.7% much faster than the average
- 132,500 number of jobs
- $98,860 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.75 undergraduate GPA on a 4.000-point scale.
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation *(starting with spring 2026 admission term, two letters of recommendation will be required)*
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: April 15
- **Spring Semester**
  - Application deadline: November 15
- **Summer Term**
  - Application deadline: March 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
HI 60401	HEALTH INFORMATICS MANAGEMENT	3
HI 60403	HEALTH INFORMATION SYSTEMS	3
Certificate Electives, choose from the following:		12
HI 60402	LEGAL ISSUES IN HEALTH INFORMATICS	
HI 60410	HEALTH RECORDS MANAGEMENT	
HI 60411	CLINICAL ANALYTICS	
HI 60412	CLINICAL DECISION SUPPORT	
HI 60413	CHANGE MANAGEMENT IN HEALTH INFORMATICS	
HI 60414	HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS	
HI 60416	HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS	
HI 60417	PUBLIC HEALTH INFORMATICS	
HI 60418	CLINICAL ANALYTICS II	
HI 60419	CONSUMER HEALTH INFORMATICS	
HI 60636	STANDARDIZED TERMINOLOGIES IN HEALTHCARE	
HI 60691	SEMINAR IN HEALTH INFORMATICS	
HI 60792	ELECTIVE INTERNSHIP IN HEALTH INFORMATICS	
HI 61095	SPECIAL TOPICS IN HEALTH INFORMATICS	
HI 61096	INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS	

Advisor-Approved College of Communication and Information courses	
Minimum Total Credit Hours:	**18**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Students enrolled in the certificate can apply for admission to the master's degree and apply a maximum of 12 credit hours taken for the certificate program toward the master's program requirements.

Program Learning Outcomes

Graduates of the program will be able to:

1. Reconcile the needs of clinical and non-clinical users of health information systems utilizing workflow analysis, systems analysis and project-management principles.
2. Analyze collected data of health information systems, utilizing principles of data mining, statistics and clinical analytics.
3. Manage the implementation of health information systems in multiple health care venues using principles of organizational dynamics and change management.
4. Facilitate communication between clinical and non-clinical users of health information systems.
5. Successfully obtain the credential of Certified Associate in Health Information Systems.

Health Informatics - M.S.

College of Communication and Information
School of Information
www.kent.edu/iSchool

About This Program

Looking to make a difference in healthcare? The M.S. degree in Health Informatics prepares graduates for careers at the intersection of healthcare and technology. With a focus on data analytics and information management, our program prepares graduates to use data and information to improve patient outcomes and drive innovation in healthcare. Read more...

Contact Information

- **Meghan Harper** | iSchool@kent.edu | 330-672-2782
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Computer and information research scientists

- 15.4% much faster than the average
- 32,700 number of jobs
- $126,830 potential earnings

Computer and information systems managers

- 10.4% much faster than the average
- 461,000 number of jobs
- $151,150 potential earnings

Database administrators and architects

- 9.7% much faster than the average
- 132,500 number of jobs
- $98,860 potential earnings

Accreditation

Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA[1] on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation *(starting with spring 2026 admission term, two letters of recommendation will be required)*
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] In calculating total GPA, all grades from all courses taken at relevant level (bachelor's or master's) from all institutions are counted. Applicants who do not meet the minimum 2.750 GPA requirement must submit a statement that addresses the circumstances that contributed to the GPA and preparation for success in graduate study. Applicants should include recent professional achievements that indicate an ability to perform at a higher academic level to be considered for conditional admission to the program.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: April 15
- **Spring Semester**
  - Application deadline: November 15
- **Summer Term**
  - Application deadline: March 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
HI 60401	HEALTH INFORMATICS MANAGEMENT	3
HI 60402	LEGAL ISSUES IN HEALTH INFORMATICS	3
HI 60403	HEALTH INFORMATION SYSTEMS	3
HI 60410	HEALTH RECORDS MANAGEMENT	3
HI 60411	CLINICAL ANALYTICS	3
HI 60414	HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS	3
HI 60636	STANDARDIZED TERMINOLOGIES IN HEALTHCARE	3
Major Electives, choose from the following: [1]		9-12
EMAT 51510	PROJECT MANAGEMENT AND TEAM DYNAMICS	
HI 60412	CLINICAL DECISION SUPPORT	
HI 60413	CHANGE MANAGEMENT IN HEALTH INFORMATICS	
HI 60416	HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS	
HI 60417	PUBLIC HEALTH INFORMATICS	
HI 60418	CLINICAL ANALYTICS II	
HI 60419	CONSUMER HEALTH INFORMATICS	
HI 60691	SEMINAR IN HEALTH INFORMATICS	
HI 60693	VARIABLE TITLE WORKSHOP IN HEALTH INFORMATICS [2]	
HI 60792	ELECTIVE INTERNSHIP IN HEALTH INFORMATICS	
HI 61095	SPECIAL TOPICS IN HEALTH INFORMATICS	
HI 61096	INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS [3]	
KM 60301	FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT	
KM 60370	SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES	
LIS 50645	DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS	
LIS 60620	HEALTH INFORMATION RESOURCES	
LIS 61095	SPECIAL TOPICS IN INFORMATION STUDIES	
UX 60511	INFORMATION ARCHITECTURE FUNDAMENTALS	
UX 60541	USER EXPERIENCE EVALUATION FUNDAMENTALS	
Any Health Informatics (HI) Course (50000 level or above)		
Culminating Requirement		
Choose from the following: [1]		3-6
HI 66092	MASTER'S INTERNSHIP IN HEALTH INFORMATICS	
HI 66099	MASTER'S PROJECT IN HEALTH INFORMATICS	
HI 66198	MASTER'S RESEARCH PAPER IN HEALTH INFORMATICS	
HI 66199	THESIS I	
Minimum Total Credit Hours:		**36**

[1] Students selecting HI 66199 as their culminating requirement will complete 9 credits of major electives Students selecting HI 66092, HI 66099 or HI 66198 will complete 12 credit hours of major electives.

[2] A maximum 4 credit hours of HI 60693 may be applied towards the degree.

[3] A maximum 6 credit hours of HI 61096 may be applied towards the degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of the program will be able to:

1. Reconcile the needs of clinical and non-clinical users of health information systems utilizing workflow analysis, systems analysis and project management principles.
2. Analyze collected data of health information systems, utilizing principles of data mining, statistics and clinical analytics.
3. Manage the implementation of health information systems in multiple health care venues using principles of organizational dynamics and change management.
4. Facilitate communication between clinical and non-clinical users of health information systems.
5. Successfully obtain the credential of Certified Associate in Health Information Systems.

Full Description

The Master of Science degree in Health Informatics prepares graduates for careers in managerial, analytical, consultative and executive roles working with healthcare systems and clinicians. Health informatics is the science of evaluating, implementing and utilizing technology to manage all information related to the patient care delivery process: clinical, financial, technological and enterprise-wide.

Three major components comprise the health informatics discipline:

1. Information Systems: focuses on such issues as information systems analysis, design, implementation, management and leadership.

2. Informatics: concerned with the study of structure, function and transfer of information, socio-technical aspects of health computing and human-computer interaction.
3. Information Technology: focuses on computer networks, database and systems administration, security and programming.

The informatics field also draws contributions from computer science, the clinical sciences, social and organizational influences and business practices.

Knowledge Management - Graduate Certificate

College of Communication and Information
School of Information
www.kent.edu/iSchool

About This Program

With the increase of remote work and digital learning, the demand for experts in e-learning and knowledge management is on the rise. This certificate program offers a comprehensive curriculum that combines theory and practical applications to equip you with the knowledge and skills necessary to succeed in this field. Flexible and convenient, with online classes and part-time options available, the program can be completed in as little as one year, with credits applied towards the M.S. degree in Knowledge Management. Read more...

Contact Information

- **Meghan Harper** | iSchool@kent.edu | 330-672-2782
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Applications to the Knowledge Management graduate certificate are not being accepted at this time.

Examples of Possible Careers

- Chief Knowledge Officer (CKO)
- Information Architect
- Knowledge Analyst
- Knowledge Engineer
- Knowledge Management Director
- Knowledge Management Project Manager
- Knowledge Management Specialist
- Knowledge Management Systems Administrator
- Knowledge Manager

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Knowledge Management graduate certificate are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on 4.000-point scale[1]
- Official transcript(s)
- Résumé
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] In calculating the total GPA, all grades from all courses taken at relevant level (baccalaureate or master's) from all institutions are required. Applicants who do not meet the minimum 2.750 GPA requirement must submit a statement that addresses the circumstances that contributed to the GPA and preparation for success in graduate study. Applicants should include recent professional achievements that indicate an ability to perform at a higher academic level to be considered for conditional admission to the program.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: April 15
- **Spring Semester**
  - Application deadline: November 15
- **Summer Term**
  - Application deadline: March 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
KM 60301	FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT	3
KM 60302	DESIGNING AND IMPLEMENTING KNOWLEDGE MANAGEMENT IN THE WORKPLACE	3
LIS 60636	KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES	3
Knowledge Management (KM) Electives [1]		3
Minimum Total Credit Hours:		**12**

[1] Graduate-level electives offered by other schools in or outside the College of Communication and Information may be applied to certificate requirements upon advisor approval.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Students enrolled in the certificate can apply for admission to the master's degree and apply a maximum of 12 credit hours taken for the certificate program to the master's program requirements.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the ability to develop and deliver strategies for organizations and communities that apply knowledge to create value.
2. Demonstrate the ability to design a knowledge management program to turn strategies into action through the integration of people, process and technology components.

Full Description

The Knowledge Management graduate certificate prepares professionals to guide organizations to improved performance through better use of organizational knowledge. In the knowledge economy, the success of organizations depends on their ability to generate, adopt and diffuse knowledge. Knowledge management promotes a collaborative and integrative approach to the creation, capture, organization, access and use of information assets, including the tacit and knowledge of people.

Students in the Knowledge Management certificate learn from interaction with their instructors and student colleagues, many of whom are also professionals working in knowledge management. Through courses and other opportunities, students gain experience in developing and applying knowledge to improve organizational strategies, processes and technical skills.

Knowledge Management - M.S.

College of Communication and Information
School of Information
www.kent.edu/iSchool

About This Program

Unlock the power of knowledge with the M.S. in Knowledge Management. Our program prepares graduates to create, share and manage knowledge within organizations, helping to drive innovation and improve performance. With a fully online curriculum that blends theory and practice, our graduates are well-equipped for careers in a variety of industries. Declare a dual degree with the M.B.A. for even more opportunities. Reach more...

Contact Information

- **Meghan Harper** | iSchool@kent.edu | 330-672-2782
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Applications to the M.S. in Knowledge Management are not being accepted at this time.

Examples of Possible Careers

- Chief Knowledge Officer (CKO)
- Information Architect
- Knowledge Analyst
- Knowledge Engineer
- Knowledge Management Director
- Knowledge Management Project Manager
- Knowledge Management Specialist
- Knowledge Management Systems Administrator
- Knowledge Manager

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.S. in Knowledge Management are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale[1]
- Official transcript(s)
- Résumé
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] In calculating total GPA, all grades from all courses taken at relevant level (bachelor's or master's) from all institutions are counted. Applicants who do not meet the minimum 2.750 GPA requirement must submit a statement that addresses the circumstances that contributed to the GPA and preparation for success in graduate study. Applicants should include recent professional achievements that indicate an ability to perform at a higher academic level to be considered for conditional admission to the program.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Technology Requirements

Appropriate technology and computer literacy skills are essential for each School of Information course. In order to be successful in the program,

all incoming students must meet the School of Information computer competencies, as well as its minimum computer hardware, software and internet access requirements before the first day of class. For details, students should consult the school's website.

Application Deadlines

- **Fall Semester**
  - Application deadline: April 15
- **Spring Semester**
  - Application deadline: November 15
- **Summer Term**
  - Application deadline: March 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
KM 60301	FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT	3
KM 60302	DESIGNING AND IMPLEMENTING KNOWLEDGE MANAGEMENT IN THE WORKPLACE	3
KM 60306	THOUGHT LEADERSHIP AND CAREER DEVELOPMENT IN KNOWLEDGE MANAGEMENT	1
LIS 60636	KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES	3
MGMT 64158	LEADERSHIP	2
Major Electives, choose from the following: [1]		12-15
Business Analytics (BA) Graduate Courses (50000 level and higher)		
Computer Information Systems (CIS) Graduate Courses (50000 level and higher)		
Emerging Media and Technology (EMAT) Graduate Courses (50000 level and higher)		
Health Informatics (HI) Graduate Courses (50000 level and higher)		
Human Resource Management (HRM) Graduate Courses (50000 level and higher)		
Knowledge Management (KM) Graduate Courses (50000 level and higher) [2]		
Library and Information Science (LIS) Graduate Courses (50000 level and higher)		
Management (MGMT) Graduate Courses (50000 level and higher)		
User Experience (UX) Graduate Courses (50000 level and higher)		
Culminating Requirement		
Choose from the following: [1]		3-6
KM 66092	MASTER'S INTERNSHIP IN KNOWLEDGE MANAGEMENT	
KM 66099	MASTER'S PROJECT IN KNOWLEDGE MANAGEMENT	
KM 66198	MASTER'S RESEARCH PAPER IN KNOWLEDGE MANAGEMENT	
KM 66199	THESIS I	
Minimum Total Credit Hours:		**30**

[1] Students who select thesis as their culminating requirement will complete 12 credit hours of electives. Students who select the internship, project or research paper will complete 15 credit hours of electives.

[2] A maximum of 4 credit hours of KM 60693 may be applied to the degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of the program will be able to:

1. Develop and deliver strategies for organizations and communities that apply knowledge to create value.
2. Demonstrate leadership in the design and implementation of strategies that align with and enable an organization's culture, strategic intent and operational objectives
3. Design, build, operate and lead a comprehensive program that turns strategies into action through the integration of people, process and technology components.
4. Become a thought leader in advancing knowledge management ideas and practices.
5. Prepared to engage and collaborate with the global knowledge management community to grow the demand, practice and value of knowledge management.

Dual Degree with Master of Business Administration

Applications to the Dual Degree M.B.A./M.S. Knowledge Management are not being accepted at this time.

Students have the opportunity to complete a dual degree program with the M.B.A. degree and the M.S. degree in Knowledge Management. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The M.B.A./M.S. dual degree program prepares students for responsible leadership positions and offers an integrated business and knowledge management curriculum. Dual degree graduates will be able to design, deliver, support and lead knowledge management programs at the enterprise and project levels. Through courses, internships and other opportunities, students gain real-world, practical experience in developing and applying knowledge to improve organizational strategies, processes and technical skills with an emphasis on regional, national and global implications.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
KM 60301	FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT	3
KM 60302	DESIGNING AND IMPLEMENTING KNOWLEDGE MANAGEMENT IN THE WORKPLACE	3
KM 60306	THOUGHT LEADERSHIP AND CAREER DEVELOPMENT IN KNOWLEDGE MANAGEMENT	1
LIS 60636	KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES	3
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	0-1
MKTG 65051	MARKETING MANAGEMENT	2
Ambassador Crawford College of Business and Entrepreneurship Graduate Elective (50000 level or higher), choose from the following:		3
Accounting (ACCT) Course		
Business (BUS) Course		
Business Analytics (BA) Course		
Computer Information Systems (CIS) Course		
Economics (ECON) Course		
Entrepreneurship (ENTR) Course		
Finance (FIN) Course		
Human Resource Management (HRM) Course		
Management (MGMT) Course		
Marketing (MKTG) Course		
Major electives, choose from the following:		12-15
Emerging Media and Technology (EMAT) Course		
Health Informatics (HI) Course		
Knowledge Management (KM) Course		
Library and Information Science (LIS) Course		
User Experience Design (UXD) Course		
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Culminating Elective, choose from the following: [2]		3-6
KM 66092	MASTER'S INTERNSHIP IN KNOWLEDGE MANAGEMENT	
KM 66099	MASTER'S PROJECT IN KNOWLEDGE MANAGEMENT	
KM 66198	MASTER'S RESEARCH PAPER IN KNOWLEDGE MANAGEMENT	
KM 66199	THESIS I	
Minimum Total Credit Hours:		**58-59**

1 MGMT 68051 may be waived for students with at least two years of full-time work experience.

2 Students who select thesis as their culminating requirement will complete 3 credit hours of College of Communication and Information electives; all others will complete 6 credit hours.

Graduation Requirements

- Students may graduate with fewer than 59 total credit hours but no fewer than 58 total credit hours.

Full Description

The Master of Science degree in Knowledge Management prepares professionals to serve as leaders who guide organizations into improved performance through better use of organizational knowledge. Graduates of the program will be able to design, deliver and support knowledge management programs at the enterprise and project levels.

Organizations of all types, across all sectors of the economy, face a growing need for increased efficiencies. Gaining these efficiencies means organizations must mature into knowledge organizations by developing and applying knowledge to serve their markets better. This requires professionals with new skills and tools found in the emerging domain of knowledge management.

Students in the Knowledge Management major learn principles, values and best practices that will prepare them for leadership roles in their future careers. They learn from interaction with their instructors and student colleagues, many of whom are also professionals working in knowledge management. Through courses, internships and other opportunities, students gain real-world, practical experience in developing and applying knowledge to improve organizational strategies, processes and technical skills.

Library and Information Science - M.L.I.S.

College of Communication and Information
School of Information
www.kent.edu/iSchool

About This Program

If you're passionate about the world of information, the Master of Library and Information Science degree could be the key to unlocking a range of exciting career opportunities. From libraries to museums, archives and beyond, the M.L.I.S. degree prepares you to excel in a variety of information-related fields. Plus, with optional concentrations in Archival Studies and Medical Librarianship, you can tailor your studies to suit your specific interests and goals. And with the option to pursue a dual program with the M.B.A. degree, you'll gain a well-rounded education that's highly valued by employers. Read more...

Contact Information

- **Meghan Harper** | iSchool@kent.edu | 330-672-2782

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Database administrators and architects

- 9.7% much faster than the average
- 132,500 number of jobs
- $98,860 potential earnings

Curators

- 12.6% much faster than the average
- 14,500 number of jobs
- $56,990 potential earnings

Archivists

- 7.9% faster than the average
- 8,100 number of jobs
- $56,760 potential earnings

Librarians and media collections specialists

- 5.0% faster than the average
- 146,500 number of jobs
- $60,820 potential earnings

Accreditation

American Library Association

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale[1]
- Official transcript(s)
- Résumé or curriculum vita
- Student profile form[2]
- Statement of exception addressing circumstances and readiness for graduate education
- Application essay, see guidelines below
- Three letters of recommendation[3] *(starting with spring 2026 admission term, two letters of recommendation will be required)*
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[4]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] In calculating the total GPA, all grades from all courses taken at relevant level (baccalaureate or master's) from all institutions are required. Applicants who do not meet the minimum 2.750 GPA requirement must submit a statement that addresses the circumstances that contributed to the GPA and preparation for success in graduate study. Applicants should include recent professional achievements that indicate an ability to perform at a higher academic level to be considered for conditional admission to the program.

[2] The student profile form is embedded in the online application.

[3] References should be able to attest that the applicant possesses the ability and skills needed to succeed in graduate study. Generally the best references are professors, but senior-level managers from the workplace can also serve well. Letters should include a signature and be submitted on the sender's company or organization letterhead.

[4] International applicants who do not meet the above test scores will not be considered for admission.

Guidelines for the Essay

The application essay showcases an applicant's readiness for graduate-level writing. Applicants should discuss the following questions based on their exploration of the Kent State iSchool website, as well as their own reflection on their academic abilities, experiences and personal qualities. Applicants are welcome to add comments from supplemental research and readings (cite in American Psychological Association [APA] style), observations and experience.

The essay should be fewer than 1,000 words and formatted in APA style. Any content that is not the applicant's own original thoughts must be properly attributed.

The School of Information values highly interdisciplinary synergy with regard to faculty research and teaching, its students and its contributions to the library and information science profession. Applicants should answer the following questions in their essay:

- What are the critical issues in the field of library and information science?
- What are your aspirations in the field of library and information science?
- What will you contribute to the Kent State iSchool community and to the field as a whole?

Technology Requirements

Appropriate technology and computer literacy skills are essential for each School of Information course. In order to be successful in the program, all incoming students must meet the School of Information computer competencies, as well as its minimum computer hardware, software and internet access requirements before the first day of class. For details, students should consult the school's website.

Application Deadlines

- **Fall Semester**
  - Application deadline: April 15
- **Spring Semester**
  - Application deadline: November 15
- **Summer Term**
  - Application deadline: March 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
LIS 60020	INFORMATION ORGANIZATION	3
LIS 60030	PEOPLE IN THE INFORMATION ECOLOGY	3
LIS 60040	INFORMATION INSTITUTIONS AND PROFESSIONS	3
LIS 60050	RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE	3
Major Electives, choose from the following: [1]		12
Health Informatics (HI) Graduate (50000 level and higher) course		
Knowledge Management (KM) Graduate (50000 level and higher) course		
Library and Information Science (LIS) Graduate (50000 level and higher) course		
User Experience (UX) Graduate (50000 level and higher) course		
Culminating Requirement		
LIS 60099	MASTER'S PORTFOLIO IN LIBRARY AND INFORMATION SCIENCE	1
Additional Requirements or Concentration		
Choose from the following:		12
Additional Requirements for Students Not Declaring a Concentration		
Archival Studies Concentration		
Medical Librarianship Concentration		
Minimum Total Credit Hours:		**37**

[1] A maximum of 6 credit hours of either course or any combination of LIS 60692 and LIS 61096 may be applied towards the degree program.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements		
Library and Information Science (LIS) Electives [1]		12
Minimum Total Credit Hours:		**12**

[1] A maximum of 6 credit hours of either course or any combination of LIS 60692 and LIS 61096 may be applied towards the degree program.

Archival Studies Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
LIS 60652	FOUNDATIONS OF RECORDKEEPING IN SOCIETY	3
LIS 60657	THEORY AND METHODS OF ARCHIVAL ACQUISITION, SELECTION AND APPRAISAL	3
LIS 60658	THEORY AND PRACTICE OF ARCHIVAL DESCRIPTION	3
Concentration Elective, choose from the following:		3
LIS 60631	INTRODUCTION TO DIGITAL PRESERVATION	
LIS 60633	DIGITAL CURATION	
LIS 60635	CULTURAL HERITAGE INFORMATICS	
LIS 60651	DIGITAL IMAGE PROCESSING AND COLLECTION MANAGEMENT	
LIS 60654	PRESERVATION AND CONSERVATION OF HERITAGE MATERIALS	
LIS 60659	INTRODUCTION TO AUDIOVISUAL ARCHIVING	
LIS 60665	RARE BOOKS AND SPECIAL COLLECTIONS	
LIS 60692	INTERNSHIP IN INFORMATION AND CULTURAL HERITAGE INSTITUTIONS [1]	
LIS 61095	SPECIAL TOPICS IN INFORMATION STUDIES [2]	
Minimum Total Credit Hours:		**12**

[1] A maximum of 6 credit hours of either course or any combination of LIS 60692 and LIS 61096 may be applied towards the degree program.

[2] Selected topic courses should be chosen in consultation with faculty advisor to ensure relevance to concentration.

Medical Librarianship Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
HI 60419	CONSUMER HEALTH INFORMATICS	3
LIS 60620	HEALTH INFORMATION RESOURCES	3
LIS 60671	INTRODUCTION TO CATALOGING PRINCIPLES AND PRACTICES IN MEDICAL LIBRARIES	1
LIS 60672	REFERENCE SOURCES AND SERVICES IN MEDICAL LIBRARIES	1
LIS 60673	MEDICAL LIBRARY MANAGEMENT AND CULTURE	1
LIS 60692	INTERNSHIP IN INFORMATION AND CULTURAL HERITAGE INSTITUTIONS [1]	3
Minimum Total Credit Hours:		**12**

[1] A maximum of 6 credit hours of either course or any combination of LIS 60692 and LIS 61096 may be applied towards the degree program.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply the field's foundational theories, principles, values, ethics and skills to everyday practice.
2. Critique and synthesize research and identify appropriate research methodologies to solve problems in the field.
3. Analyze and engage in the changing cultural, educational and social roles and responsibilities of librarians/information professionals and the environments they work in within the global society.
4. Evaluate systems and technologies relevant to a particular information context.
5. Identify needs and connect individuals and communities with information that engages and empowers them.

Dual Degree with Master of Business Administration

Students have the opportunity to complete a dual degree program with the M.B.A. degree in Business Administration and the M.L.I.S. degree in Library and Information Science. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
LIS 50645	DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS	3
LIS 60020	INFORMATION ORGANIZATION	3
LIS 60030	PEOPLE IN THE INFORMATION ECOLOGY	3
LIS 60040	INFORMATION INSTITUTIONS AND PROFESSIONS	3
LIS 60050	RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE	3
LIS 60401	LEADERSHIP IN LIBRARIES AND INFORMATION CENTERS	3
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	1
MKTG 65051	MARKETING MANAGEMENT	2
Ambassador Crawford College of Business and Entrepreneurship Graduate Elective (50000 level or higher), choose from the following:		3
	Accounting (ACCT) Course	
	Business (BUS) Course	
	Business Analytics (BA) Course	
	Computer Information Systems (CIS) Course	
	Economics (ECON) Course	
	Entrepreneurship (ENTR) Course	
	Finance (FIN) Course	
	Human Resource Management (HRM) Course	
	Management (MGMT) Course	
	Marketing (MKTG) Course	
Library and Information Science Electives [2]		9
Culminating Requirement		
LIS 60099	MASTER'S PORTFOLIO IN LIBRARY AND INFORMATION SCIENCE	1
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**59**

1. MGMT 68051 may be waived for students with at least two years of full-time work experience.
2. Any LIS graduate courses in accord to student's career goals may count as an elective in consultation with academic advisors. Students interested in working in a corporate or nonprofit environment will find topics such as record keeping, records management, information policy, knowledge management, library management and database fundamentals to be important in their future work.

Full Description

The Master of Library and Information Science degree prepares students for professional positions in public, academic, special and school libraries; archives; museums; and other types of information agencies, organizations and companies. Many M.L.I.S. graduates go on to positions in other areas of the information field besides libraries — in research, for example, or publishing, information management, competitive business intelligence and more. An accredited M.L.I.S. degree is the basic requirement for professional employment in most libraries and information centers.

Students can concurrently pursue a dual program with the Master of Business Administration degree. Each program makes an independent admission decision. For further information about the dual degree program, see the specific program section in this catalog.

The Library and Information Science major includes the following optional concentrations:

- The **Archival Studies** optional concentration prepares students to work with records and other materials of historical value in a variety of settings, including special collections in libraries, government and corporate archives, as well as archival collections found in museums, historical societies and other heritage institutions. Students are encouraged to pursue internship opportunities to enhance their understanding of archival principles and gain valuable practical experience. This concentration follows the recommendations of the Society of American Archivists for graduate archival education programs.
- The **Medical Librarianship** optional concentration prepares students to work in medical and health sciences libraries; in the community; and as part of a health system, hospital, clinician office, academic center, government research agency or medical specialty organization. Students in the concentration intern at a medical library, which will allow them to apply their skills and knowledge, as well as

to observe the typical daily activities and requirements of medical librarians.

Medical Librarianship - Graduate Certificate

College of Communication and Information
School of Information
www.kent.edu/iSchool

About This Program

Dive into the world of medical librarianship with our graduate certificate. Gain essential skills for roles in hospitals, academic centers and government agencies, with the option to intern in a medical library for real-world experience. Join us and become a key player in managing healthcare information effectively! Read more...

Contact Information

- **Meghan Harper** | iSchool@kent.edu | 330-672-2782
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers

- Medical Librarian
- Medical Library Services Manager
- Research and Education Librarian
- Reference and Consumer Health Librarians
- Health Science Librarian
- Health Service Librarian

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree in library and information science or equivalent American Library Association-accredited master's degree from an accredited college or university
- Minimum 3.000 graduate GPA on a 4.000-point scale [1]
- Official transcript(s)
- Résumé
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] In calculating the total GPA, all grades from all courses taken at relevant level (baccalaureate or master's) from all institutions are required. Applicants who do not meet the minimum 3.000 GPA requirement must submit a statement that addresses the circumstances that contributed to the GPA and preparation for success in graduate study. Applicants should include recent professional achievements that indicate an ability to perform at a higher academic level to be considered for conditional admission to the program.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadline

- **Fall Semester**
  - Application deadline: April 15
- **Spring Semester**
  - Application deadline: November 15
- **Summer Term**
  - Application deadline: March 15

Applications submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
HI 60419	CONSUMER HEALTH INFORMATICS	3
LIS 60620	HEALTH INFORMATION RESOURCES	3
LIS 60671	INTRODUCTION TO CATALOGING PRINCIPLES AND PRACTICES IN MEDICAL LIBRARIES	1
LIS 60672	REFERENCE SOURCES AND SERVICES IN MEDICAL LIBRARIES	1
LIS 60673	MEDICAL LIBRARY MANAGEMENT AND CULTURE	1
Certificate Elective, choose from the following:		3
HI 60401	HEALTH INFORMATICS MANAGEMENT	
HI 60411	CLINICAL ANALYTICS	
HI 60636	STANDARDIZED TERMINOLOGIES IN HEALTHCARE	
LIS 60401	LEADERSHIP IN LIBRARIES AND INFORMATION CENTERS	
LIS 60602	RESOURCE DESCRIPTION AND ACCESS	
LIS 60603	SUBJECT ANALYSIS, REPRESENTATION AND ACCESS	
LIS 60613	INFORMATION NEEDS, SEEKING AND USE	
LIS 60614	COLLECTION MANAGEMENT IN LIBRARIES	
LIS 60616	THE SPECIAL LIBRARY	
LIS 60649	INDEXING AND ABSTRACTING	
LIS 60655	COPYRIGHT: UNDERSTANDING USER RIGHTS AND RESPONSIBILITIES	
LIS 60669	INFORMATION SERVICES FOR DIVERSE POPULATIONS	
LIS 60692	INTERNSHIP IN INFORMATION AND CULTURAL HERITAGE INSTITUTIONS	

LIS 61096	INDIVIDUAL INVESTIGATION	
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Articulate and apply the principles of resource description, subject analysis, medical descriptors and qualifiers and cataloging management principles with medical resources in the medical library.
2. Describe and perform a medical reference interview and conduct information searching with evidence-based medicine principles and resources.
3. Describe information seeking behavior patterns and identify information needs for various user groups in medical libraries.
4. Apply knowledge of management, budgeting and advocacy in medical libraries.
5. Identify the ethical and legal considerations for health information professionals as it relates to HIPAA and the role of the health information professional.
6. Outline how health information literacy, patient-centered health and wellness information sources and practices can affect health care consumers in the community.

Full Description

The Medical Librarianship graduate certificate prepares students to work in medical and health sciences libraries; in the community; and as part of a health system, hospital, clinician office, academic center, government research agency or medical specialty organization. Students in the certificate have the option to intern at a medical library, which will allow them to apply their skills and knowledge, as well as to observe the typical daily activities and requirements of medical librarians.

School Library Media K-12 - M.L.I.S.

College of Communication and Information
School of Information
www.kent.edu/iSchool

About This Program

Looking to make a difference in K-12 education and library sciences? Kent State University's Master of Library and Information Science degree with a School Library Media focus is the perfect way to jumpstart your career. You'll gain practical skills and hands-on experience that prepare you for professional positions in public, private and charter schools, as well as special libraries and other information agencies. Pair the M.L.I.S. with the M.Ed. in Educational Technology for even more opportunities. Read more...

Contact Information

- **Meghan Harper** | iSchool@kent.edu | 330-672-2782
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Librarians and media collections specialists

- 5.0% faster than the average
- 146,500 number of jobs
- $60,820 potential earnings

Educational instruction and library workers, all other

- 4.4% about as fast as the average
- 141,400 number of jobs
- $41,570 potential earnings

Accreditation

The M.L.I.S. degree in School Library Media K-12 is approved by the American Library Association and accredited by the Council for the Accreditation of Educator Preparation (CAEP)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale[1]
- Official transcript(s)
- Résumé or curriculum vita
- Student profile form[2]
- *Starting with spring 2026 admission term, a statement of exception addressing circumstances and readiness for graduate education will be required*
- Application essay, see guidelines below
- Three letters of recommendation[3] *(starting with spring 2026 admission term, two letters of recommendation will be required)*
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[4]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] In calculating the total GPA, all grades from all courses taken at relevant level (baccalaureate or master's) from all institutions

are required. Applicants who do not meet the minimum 2.750 GPA requirement must submit a statement that addresses the circumstances that contributed to the GPA and preparation for success in graduate study. Applicants should include recent professional achievements that indicate an ability to perform at a higher academic level to be considered for conditional admission to the program.

[2] The student profile form is embedded in the online application.

[3] References should be able to attest that the applicant possesses the ability and skills needed to succeed in graduate study. Generally the best references are professors, but senior-level managers from the workplace can also serve well. Letters should include a signature and be submitted on the sender's company or organization letterhead.

[4] International applicants who do not meet the above test scores will not be considered for admission.

Guidelines for the Essay

The application essay showcases an applicant's readiness for graduate-level writing. Applicants should discuss the following questions based on their exploration of the Kent State iSchool website, as well as their own reflection on their academic abilities, experiences and personal qualities. Applicants are welcome to add comments from supplemental research and readings (cite in American Psychological Association [APA] style), observations and experience.

The essay should be fewer than 1,000 words and formatted in APA style. Any content that is not the applicant's own original thoughts must be properly attributed.

The School of Information values highly interdisciplinary synergy with regard to faculty research and teaching, its students and its contributions to the library and information science profession. Applicants should answer the following questions in their essay:

- What are the critical issues in the field of library and information science?
- What are your aspirations in the field of library and information science?
- What will you contribute to the Kent State iSchool community and to the field as a whole?

Application Deadlines

- **Fall Semester**
  - Application deadline: April 15
- **Spring Semester**
  - Application deadline: November 15
- **Summer Term**
  - Application deadline: March 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (min C grade required in all courses)		
LIS 60020	INFORMATION ORGANIZATION	3
LIS 60030	PEOPLE IN THE INFORMATION ECOLOGY	3
LIS 60050	RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE	3
LIS 60607	SCHOOL LIBRARY MANAGEMENT	3
LIS 60617	INFORMATION LITERACY FOR YOUTH	3
LIS 60624	CATALOGING FOR SCHOOL LIBRARIES	3
LIS 60626	ENGAGING TEENS	3
LIS 60629	ENGAGING SCHOOL-AGE CHILDREN	3
LIS 60630	REFERENCE SOURCES AND SERVICES FOR YOUTH	3
Major Electives, choose from the following:		6
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	
ETEC 57427	TECHNOLOGY AND LEARNING	
ETEC 67420	RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY	
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE	
LIS 60675	YOUTH MEDIA CULTURES	
Culminating Requirement		
LIS 60099	MASTER'S PORTFOLIO IN LIBRARY AND INFORMATION SCIENCE	1
LIS 60792	CULMINATING EXPERIENCE PRACTICUM IN K-12 LIBRARIES	3
Minimum Total Credit Hours:		**37**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
	3.000

- An electronic portfolio is required to obtain licensure in K-12 School Library Media
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer the Ohio Department of Education—Educator Preparation website for information on assessments specific to licensure type. Applicants interested in obtaining school library media licensure or certification outside the state of Ohio should refer to the requirements established by their state education agencies.

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply the field's foundational theories, principles, values, ethics and skills to everyday practice in a school library context.
2. Critique and synthesize research and identify appropriate research methodologies to solve problems in the school librarianship field.
3. Analyze and engage in the changing cultural, educational and social roles and responsibilities of librarians and the educational environments they work in within the global society.
4. Evaluate systems and technologies relevant to a school librarianship context

5. Identify needs and connect kindergarten-to-grade-12 stakeholders (students, teachers, administrators) and communities with information that engages and empowers them.

Dual Degree with M.Ed. degree in Educational Technology

Student have the opportunity to complete a dual degree program with the M.Ed. degree in Educational Technology and the M.L.I.S. degree in School Library Media K-12. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The M.Ed./M.L.I.S. dual degree program leads to a multi-age initial licensure in school library media. This program prepares students to work in all types of libraries, including school libraries. The program of study includes professional educational requirements, along with library science and educational technology courses.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
CI 67310	THEORY AND PRACTICE IN THE TEACHING OF READING	3
CI 67330	READING IN CONTENT AREAS	3
ETEC 57427	TECHNOLOGY AND LEARNING	3
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
LIS 60020	INFORMATION ORGANIZATION	3
LIS 60030	PEOPLE IN THE INFORMATION ECOLOGY	3
LIS 60050	RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE	3
LIS 60607	SCHOOL LIBRARY MANAGEMENT	3
LIS 60617	INFORMATION LITERACY FOR YOUTH	3
LIS 60624	CATALOGING FOR SCHOOL LIBRARIES	3
LIS 60626	ENGAGING TEENS	3
LIS 60629	ENGAGING SCHOOL-AGE CHILDREN	3
LIS 60630	REFERENCE SOURCES AND SERVICES FOR YOUTH	3
LIS 60676	TEACHING STRATEGIES AND METHODS IN SCHOOL LIBRARIES	3
SPED 53050	CHARACTERISTICS OF STUDENTS WITH MILD/ MODERATE INTERVENTION NEEDS	3
Dual Degree Electives, choose from the following:		6
ETEC 57403	INSTRUCTIONAL DESIGN	
ETEC 57427	TECHNOLOGY AND LEARNING	
ETEC 67420	RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY	
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE	
ETEC 67426	MANAGING SCHOOL TECHNOLOGIES	
ETEC 67434	EMERGING TECHNOLOGIES FOR EDUCATION	
ETEC 67442	DESIGNING ONLINE AND BLENDED COURSES	
ETEC 67444	TEACHING ONLINE AND BLENDED COURSES	
ETEC 67445	DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS	
LIS 60675	YOUTH MEDIA CULTURES	
Additional Library and Information Science (LIS) courses are accepted		
LIS 60892	CULMINATING EXPERIENCE FOR DUAL DEGREE	6
Minimum Total Credit Hours:		**57**

Culminating Requirement

Graduation Requirements

- Students in M.Ed. degree have six years from the term of first enrollment to complete the degree.
- Students are responsible for completing licensure paperwork requirements through the College of Education, Health and Human Services near the end of or at the conclusion of their M.L.I.S. degree program. Exam administered by the Evaluation Systems Group of Pearson is required for licensure.

Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website. for more information on assessments specific to licensure type.

Full Description

The Master of Library and Information Science degree in School Library Media K-12 prepares students to apply for multi-age licensure in school library media. The program curriculum is based in both practice and theory and includes library science and educational technology courses. The theoretical content is aligned with the American Library Association, the American Association of School Librarians national standards and the Ohio state standards for school libraries.

Students are given opportunities to apply their learning in practical environments through a culminating experience and other options. Graduates are prepared to work in all types of libraries.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

School Library Media Licensure - Non-Degree

College of Communication and Information
School of Information
www.kent.edu/iSchool

About This Program

If you are an educator looking to change your focus to school libraries, look no further than the School Library Media Licensure program. This licensure program is designed to give you practical skills and hands-on experience to prepare you for librarian positions in public, private and charter schools, as well as special libraries and other information agencies. Read more...

Contact Information

- **Meghan Harper** | iSchool@kent.edu | 330-672-2782
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Librarians and media collections specialists

- 5.0% faster than the average
- 146,500 number of jobs
- $60,820 potential earnings

Educational instruction and library workers, all other

- 4.4% about as fast as the average
- 141,400 number of jobs
- $41,570 potential earnings

Accreditation

The School Library Media Licensure non-degree program is accredited by the American Library Association and the Council for the Accreditation of Educator Preparation (CAEP).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale [1]
- Official transcript(s)
- Résumé or curriculum vita
- Student profile form[2]
- Application essay, see guidelines below
- Statement of exception addressing circumstances and readiness for graduate education
- Three letters of recommendation[3] *(starting with spring 2026 admission term, two letters of recommendation will be required)*
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[4]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

  Starting with spring 2026 admission term, the following minimum scores will be required:

  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] In calculating the total GPA, all grades from all courses taken at relevant level (baccalaureate or master's) from all institutions are required. Applicants who do not meet the minimum 2.750 GPA requirement must submit a statement that addresses the circumstances that contributed to the GPA and preparation for success in graduate study. Applicants should include recent professional achievements that indicate an ability to perform at a higher academic level to be considered for conditional admission to the program.

[2] The student profile form is embedded in the online application.

[3] References should be able to attest that the applicant possesses the ability and skills needed to succeed in graduate study. Generally the best references are professors, but senior-level managers from the workplace can also serve well. Letters should include a signature and be submitted on the sender's company or organization letterhead.

[4] International applicants who do not meet the above test scores will not be considered for admission.

Guidelines for the Essay

The application essay showcases an applicant's readiness for graduate-level writing. Applicants should discuss the following questions based on their exploration of the Kent State iSchool website, as well as their own reflection on their academic abilities, experiences and personal qualities. Applicants are welcome to add comments from supplemental research and readings (cite in American Psychological Association [APA] style), observations and experience.

The essay should be fewer than 1,000 words and formatted in APA style. Any content that is not the applicant's own original thoughts must be properly attributed.

The School of Information values highly interdisciplinary synergy with regard to faculty research and teaching, its students and its contributions to the library and information science profession. Applicants should answer the following questions in their essay:

- What are the critical issues in the field of library and information science?
- What are your aspirations in the field of library and information science?
- What will you contribute to the Kent State iSchool community and to the field as a whole?

Application Deadlines

- **Fall Semester**
  - Application deadline: April 15
- **Spring Semester**
  - Application deadline: November 15
- **Summer Term**
  - Application deadline: March 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Code	Title	Credit Hours
Licensure Requirements		
LIS 60607	SCHOOL LIBRARY MANAGEMENT	3
LIS 60617	INFORMATION LITERACY FOR YOUTH	3
LIS 60624	CATALOGING FOR SCHOOL LIBRARIES	3
LIS 60626	ENGAGING TEENS	3
LIS 60629	ENGAGING SCHOOL-AGE CHILDREN	3
LIS 60630	REFERENCE SOURCES AND SERVICES FOR YOUTH	3
LIS 60792	CULMINATING EXPERIENCE PRACTICUM IN K-12 LIBRARIES	3
School Library Media Electives, choose from the following:		6
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	
ETEC 57427	TECHNOLOGY AND LEARNING	
ETEC 67420	RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY	
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE	
LIS 60675	YOUTH MEDIA CULTURES	
Minimum Total Credit Hours:		**27**

Licensure Information

In Ohio, an individual must have attained a currently valid standard Ohio teaching license in order to add the multi-age supplemental library media licensure as an endorsement area. Out of state applicants should verify licensure reciprocity and library media licensure requirements with their state education agencies. Students are responsible for completing licensure paperwork requirements through the Kent State University College of Education, Health and Human Services near the end of or at the conclusion of the program. Exam administered by the Evaluations Systems Group of Pearson is required for licensure.

Applicants interested in obtaining school library media licensure or certification outside the state of Ohio should refer to the requirements established by their state education agencies.

Program Learning Outcomes

Completers of this program will be able to:

1. Apply the field's foundational theories, principles, values, ethics and skills to everyday practice in a school library context.
2. Critique and synthesize research and identify appropriate research methodologies to solve problems in the school librarianship field.
3. Analyze and engage in the changing cultural, educational and social roles and responsibilities of librarians and the educational environments they work in within the global society.
4. Evaluate systems and technologies relevant to a school librarianship context.
5. Identify needs and connect K-12 stakeholders (students, teachers, administrators) and communities with information that engages and empowers them.

Full Description

The School Library Media Licensure non-degree program is intended for students who already hold a teaching license and are interested in working in school libraries. The curriculum comprises coursework in library science, educational technology, management, cataloging and literature. A required practicum provides students the opportunity to apply principles learned in graduate study to real-world experiences and to network with professionals in the field.

This program is one of the three pathways available at Kent State University for students who are interested in obtaining multi-age licensure in school library media through the Ohio Department of Education. The other two pathways are the M.L.I.S. degree in School Library Media K-12 and the dual M.L.I.S. degree with the M.Ed. degree in Educational Technology.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

User Experience - M.S.

College of Communication and Information
School of Information
www.kent.edu/iSchool

About This Program

Are you passionate about creating digital products that are both user-friendly and successful for businesses? In the M.S. degree in User Experience, you'll engage in all phases of the interdisciplinary design process, from learning and understanding to imagining, evaluating and informing. Enroll today to become a skilled professional who can make a real difference in the digital world. Read more...

Contact Information

- **Meghan Harper** | iSchool@kent.edu | 330-672-2782
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Web developers and digital interface designers

- 8.0% much faster than the average
- 174,300 number of jobs
- $77,200 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale[1]
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation *(starting with spring 2026 admission term, two letters of recommendation will be required)*
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] Applicants who do not meet the minimum 2.750 GPA requirement must submit a statement that addresses the circumstances that contributed to the GPA and preparation for success in graduate study. Applicants should include recent professional achievements that indicate an ability to perform at a higher academic level to be considered for conditional admission to the program.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: April 15
- **Spring Semester**
  - Application deadline: November 15
- **Summer Term**
  - Application deadline: March 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Programs Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
UX 60501	INTRODUCTION TO USER EXPERIENCE	3
UX 60502	USER EXPERIENCE PROCESSES AND PRACTICE	3
UX 60503	FUNDAMENTALS OF INTERACTION DESIGN	3
UX 60504	ACCESSIBILITY AND UNIVERSAL DESIGN	3
Fundamentals Elective, choose from the following:		3
UX 60511	INFORMATION ARCHITECTURE FUNDAMENTALS	
UX 60521	DATA-DRIVEN INTERACTION FUNDAMENTALS	
UX 60531	DISCOVERY RESEARCH FUNDAMENTALS	
UX 60541	USER EXPERIENCE EVALUATION FUNDAMENTALS	
Major Electives, choose from the following:		15
EMAT 51510	PROJECT MANAGEMENT AND TEAM DYNAMICS	
EMAT 60310	CREATIVE CODING FUNDAMENTALS	
EMAT 60999	PROJECTS IN EMERGING MEDIA AND TECHNOLOGY	
ETEC 57403	INSTRUCTIONAL DESIGN	
ETEC 67410	SIMULATIONS AND GAMES IN EDUCATION	
ETEC 67411	DESIGNING VISUALS FOR EDUCATION	
ETEC 67432	DESIGNING MULTIMEDIA FOR EDUCATION	
ETEC 67434	EMERGING TECHNOLOGIES FOR EDUCATION	
ETEC 67435	VIRTUAL AND AUGMENTED REALITY	
ETEC 67445	DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS	
ETEC 67449	RESEARCH IN ONLINE AND BLENDED LEARNING	
HI 60414	HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS	
LIS 60636	KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES	
UX 60511	INFORMATION ARCHITECTURE FUNDAMENTALS [1]	
UX 60521	DATA-DRIVEN INTERACTION FUNDAMENTALS [1]	
UX 60531	DISCOVERY RESEARCH FUNDAMENTALS [1]	
UX 60541	USER EXPERIENCE EVALUATION FUNDAMENTALS [1]	
UX 60691	SEMINAR IN USER EXPERIENCE [2]	
UX 60693	VARIABLE TITLE WORKSHOP IN USER EXPERIENCE [2]	
UX 60792	ELECTIVE INTERNSHIP IN USER EXPERIENCE [2]	
UX 61095	SPECIAL TOPICS IN USER EXPERIENCE [2]	
UX 61096	INDIVIDUAL INVESTIGATION IN USER EXPERIENCE [2]	
UX 66199	THESIS I [2]	
Minimum Total Credit Hours:		**30**

[1] Students may apply the course as a major elective if the course is not already fulfilling the fundamentals elective.

[2] Maximum 6 credit hours, combined, may count toward the degree: UX 60691, UX 60693, UX 60792, UX 61095, UX 61096 and UX 66199.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Evidence of preparation for professional advancement as approved by faculty advisor.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.

- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of the program will be able to:

1. Articulate the values of a user experience professional in the context of agile, multidisciplinary design teams.
2. Design and conduct research to understand user needs.
3. Apply interaction design fundamentals to address user needs.
4. Create and evaluate information structures to support usability and content strategy.
5. Test and assess design ideas, prototypes and existing systems by employing data collection and analysis methods.
6. Communicate research findings and contribute design solutions to designers, developers and stakeholders.
7. Demonstrate professional competencies aligned with career goals.

Full Description

The Master of Science degree in User Experience prepares students for careers in discovery research, information architecture, interaction design, prototyping, usability testing and user experience strategy and assessment. As essential members of multidisciplinary design teams, user experience professionals engage in a variety of activities to produce usable products that delight users and help organizations meet the needs of their clients, patrons, users and stakeholders. User experience analysis addresses the structural, informational, psychological and emotional dimensions that make interactive communication and information technologies useful and successful.

Kent State's program provides a broad introduction to all phases of the multidisciplinary design process, with the opportunity to build deeper knowledge and skills in a focus area. The program includes electives from aligned master's programs in the College of Communication and Information and related disciplines.

School of Media and Journalism

College of Communication and Information
School of Media and Journalism
201 Franklin Hall
Kent Campus
330-672-2572
mdj@kent.edu
www.kent.edu/mdj

Undergraduate Programs

- Advertising - B.S.
- Digital Media Production - B.S.
- Journalism - B.S.
- Public Relations - B.S.

Minors

- Advertising
- Digital Media Production
- Fashion Media
- Journalism
- Photojournalism
- Public Relations

Graduate Programs

- Journalism Education - M.A.

Graduate Certificates

- Journalism Education

Transfer Students to the School of Media and Journalism

Students transferring credit from another institution may apply a maximum of 12 credit hours of transfer coursework toward their major requirements per the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC) accreditation guidelines.

School of Media and Journalism Faculty

- Armour, Luke L. (2012), Professor, M.A., University of Akron, 2006
- Bailey, Evan B. (2003), Professor, M.A., Kent State University, 2009
- Bobkowski, Piotr S. (2023), Professor, Ph.D., University of North Carolina-Chapel Hill, 2010
- Butler-Wall, Karisa (2019), Assistant Professor, Ph.D., University of Minnesota-Twin Cities, 2016
- Canfora, Roseann C. (2001), Assistant Professor, Ph.D., Kent State University, 2001
- Conley, Tara (2022), Assistant Professor
- Cooper, Kathryn (2022), Assistant Professor, Ph.D., The Ohio State University , 2018
- Ewing, Michele E. (2002), Professor, M.A., Kent State University, 1989
- Foster, David A. (2005), Associate Professor, M.A., Kent State University, 2014
- Hallgren, Scott W. (2016), Associate Professor, M.Mus., Seattle Film Institute, 2015
- Hoak, Gretchen J. (2015), Associate Professor, Ph.D., Kent State University, 2008
- Jackson, Michael A. (2022), Lecturer, M.S., University of Southern California, 1981
- Knoblock, Christopher (2019), Lecturer, B.A., William Paterson University, 1986
- Lambert, Cheryl Ann (2016), Associate Professor, Ph.D., University of Tennessee, 2008
- Marino, Jacqueline A. (1990), Professor, M.A., The Johns Hopkins University, 2002
- McKenney, Mitchell J. (2001), Associate Professor, M.B.A., Kent State University, 2008
- Metzgar, Emily T. (2020), Professor, Ph.D., Louisiana State University, 2008
- Moore, Stefanie A. (2001), Professor, M.S., Kent State University, 2007
- Nenque, Andrea R. (2023), Assistant Professor, Ph.D., University of North Carolina-Chapel Hill, 2023
- Reynolds, Amy L. (2015), Professor
- Rolnick-Fox, Rebecca M. (2017), Associate Professor, M.F.A., University of Southern California, 2000

- Stewart, Mizell (2023), Lecturer, M.S., Northern Kentucky University, 2015
- Tang, Tang (2018), Professor, Ph.D., Ohio University, 2008
- Wasbotten, Thor L. (2012), Professor, M.S., University of Oregon, 1995
- White, Dana (2018), Associate Professor, M.F.A., University of California, Riverside, 2015

Media and Journalism (MDJ)

MDJ 10009 ELEMENTS OF FILM, TV AND ANIMATION 3 Credit Hours
An introduction to the theory and conceptual choices in story, picture and sound. This course prepares students for the creative and technical aspects of film, TV and animation work.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 13001 PRODUCTION SAFETY AND SET PROTOCOL 2 Credit Hours
This course will enhance the collaborative experience of multimedia creation by exposing students to the various skill sets and positions in the film and TV industries and familiarize them with industry standards and best practices, especially concerning safety processes.
Prerequisite: School of media and journalism major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MDJ 20001 MEDIA, POWER AND CULTURE (DIVD) (KSS) 3 Credit Hours
Fosters critical understanding of mass media in their historical, ideological, economic and cultural contexts. Examines what forces influence media and how media influence consumers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, TAG Communication, Transfer Module Social Sciences

MDJ 20004 ADVERTISING WRITING AND STORYTELLING 3 Credit Hours
Introduces students to writing for advertising. In particular, students will understand how to effectively and strategically communicate to a variety of audiences, including business partners and consumers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 20008 RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours
Understand the ways research is employed and applied in integrated communication, including both primary and secondary research. Students will understand how to use research and insights to develop strategy, or to craft research on business strategy. They also will become thoughtful researchers and consumers of research who are cognizant of the ethical and moral responsibilities associated with human subjects research. Students will be expected to understand and appreciate the diversity of audiences. Finally, students will develop critical thinking and writing skills in order to create and share a well-crafted presentation to clients that reflect a strong understanding of the connections among data, insight and strategy.
Prerequisite: MDJ 21001 or MDJ 28001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 20011 PRODUCTION FUNDAMENTALS 3 Credit Hours
Introductory course offering a conceptual and hands-on approach to understanding digital video and sound recording and editing.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 21001 PRINCIPLES OF ADVERTISING 3 Credit Hours
Advertising history, purposes, techniques, media and research; analysis of functions of advertising organizations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Communication

MDJ 21008 SOCIAL MEDIA STRATEGIES 3 Credit Hours
Designed to help students understand and use social media in critical and strategic ways. Helps students harness the power and potential of the social web, including strategies used to position and market organizations as well as individuals. Exposes students to the latest social-media applications and tools and to critical views of social media's impact on business, society and culture. Students emerge from the class with a strategic plan designed to enhance their lives and their careers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 21015 FOUNDATIONS OF STRATEGY AND COMMUNICATION 3 Credit Hours
This foundational course will establish a strong understanding of what strategy is and how to develop strategy that is grounded in brand values and consumer insights. This information is essential for the development of persuasive messaging and provides a foundation for remaining advertising classes and future careers.
Prerequisite: Minimum C- grade in MDJ 21001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 22004 VISUAL STORYTELLING 3 Credit Hours
Technical and digital skills needed to produce photos that communicate. Course will stress narrative work, detailed caption information and reporting. A GPA of 2.700 is required in the major.
Prerequisite: CCI 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 23004 STORY FOR PICTURE 3 Credit Hours
An introductory course on plot, character development and dramatic structure for narrative scriptwriting.
Prerequisite: Advertising or Digital Media Production or Emerging Media and Technology or Journalism or Public Relations or Visual Journalism or Visual Communication Design major or minor or Animation and Game Design or Fashion Media or Media Literacy minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 23130 DIRECTING FOR PICTURE 3 Credit Hours
A course designed to give students the creative and technical knowledge and skills needed to direct narrative and documentary productions.
Prerequisite: Minimum C- grade in MDJ 20011 and MDJ 23004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 26001 WRITING FOR MEDIA 3 Credit Hours
In this course, students will discover the power of media messages by learning the significant elements of writing for journalistic and public relations media. They will work toward developing a clear, concise writing style that is free from grammar, punctuation, and spelling errors. Students will learn how the purpose of writing informs its execution as well as how to hone their interviewing and research skills to support their key messages and themes. Students will be introduced to the use of social media for the support, dissemination and promotion of their work.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 26005 MULTIMEDIA JOURNALISM 3 Credit Hours
In this course students will learn to use multimedia for storytelling. Through use of different delivery platforms and adherence to deadlines, students will develop a multimedia mindset. Students will develop skills in formatting stories for web and mobile delivery, and will learn to use multimedia tools in breaking news situations. Students will create multimedia features and packages, and will experiment with standalone and complementary stories. Students will develop their skills in capturing and using video, audio and still photos, and will discuss ethical and legal issues surrounding online news reporting and presentation.
Prerequisite: Minimum C- grade in MDJ 26001; and a minimum C- grade in either EMAT 10310 or MDJ 20011.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 26007 REPORTING 3 Credit Hours
This course builds on the skills learned in MDJ 26001 and MDJ 26005 to introduce students to reporting with a text-based focus. Students will engage in the researching, interviewing and reporting skills necessary to cover a variety of news stories, while continuing to hone their journalistic writing skills. As part of the course, students will cover stories on campus and in the community with the opportunity for their work to be disseminated through our student media news outlets.
Prerequisite: A minimum C- grade in MDJ 26005 or MDJ 38002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 26008 BROADCAST REPORTING 3 Credit Hours
The course introduces the fundamentals of writing and reporting the news with a focus on video. Building on skills learned in MDJ 26001 and MDJ 26005, students will engage in the researching, interviewing and reporting skills necessary to cover a variety of news stories using video for TV or other visual platforms. They will also continue to hone their journalistic writing skills with a focus on broadcast style. As part of the course, students will shoot and edit video stories on campus and in the community with the opportunity for their work to be disseminated through our student media news outlets.
Prerequisite: MDJ 26005 or MDJ 38002 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 28001 PRINCIPLES OF PUBLIC RELATIONS 3 Credit Hours
Explores strategic role and function of public relations in business, nonprofit public institutions and society. Covers public relations practice from development to present. This course is the foundational course for students majoring or minoring in public relations and a stimulating elective for students in any major who seek a better understanding of strategic communication and persuasion, how people are informed, influenced and motivated to take action.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 30036 DIGITAL VIDEO EDITING 3 Credit Hours
Intermediate class in editing for single camera and multi-camera productions using Adobe Premiere software.
Prerequisite: Minimum C- grade in MDJ 20011.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 31002 ADVERTISING COPYWRITING (WIC) 3 Credit Hours
Examination and practice in various forms of advertising copywriting and their applications.
Prerequisite: Minimum C- grade in MDJ 31011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MDJ 31003 ADVERTISING MEDIA PLANNING 3 Credit Hours
Analysis, selection and scheduling of advertising media. Examination of advertising research, technique and application.
Prerequisite: MDJ 20004 and MDJ 20008 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 31004 DIGITAL ADVERTISING 3 Credit Hours
Explores digital targeting, advertising and mobilization in detail. Students will learn how to run winning digital advertising campaigns that educate and activate constituents. It is the study of overall strategic creation of digital advertising communication with a focus on copy writing and the implementation of basic production skills.
Prerequisite: MDJ 20004 and MDJ 20008 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 31007 DIGITAL ANALYTICS IN ADVERTISING AND PUBLIC RELATIONS 2 Credit Hours
Explores digital analytics and online measurement. Students will start with planning and setting measurable objectives, finding online audiences, and then design and implement measurement plans. Students will use social media analytics tools and Google analytics to capture data and then determine next steps. JMC 21004 is recommended to be taken prior to registration, but not required.
Prerequisite: Minimum C- grade in MDJ 20008.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MDJ 31011 ADVERTISING STRATEGY DEVELOPMENT 3 Credit Hours
Ad majors learn problem-solving techniques, which they will apply to business and creative proposals designed to promote products and or services. Development of good, clear writing skills is a key component of the course.
Prerequisite: Minimum C- grade in MDJ 20004 and MDJ 20008.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 32001 PHOTOJOURNALISM I 3 Credit Hours
Production of photographs for newspapers, magazines and online news media. A laboratory course emphasizing color and black and white photography. A GPA of 2.700 is required in the major.
Prerequisite: Minimum C- grade in CCI 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Communication

MDJ 32002 PHOTOJOURNALISM II 3 Credit Hours
(Repeatable for credit) Continuation of MDJ 32001. Advanced news and feature photography for newspapers, magazines and online including a collaborative project. A GPA of 2.700 is required in the major.
Prerequisite: A minimum C- grade in MDJ 32001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 33007 PRODUCING FOR PICTURE 3 Credit Hours
A deep and technical look at filmmaking from business, legal and logistical perspectives.
Prerequisite: Minimum C- grade in MDJ 20011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 33024 ON-CAMERA TECHNIQUES FOR MEDIA PROFESSIONALS 3 Credit Hours
Students will learn the fundamentals of appearing on camera for various live and recorded settings including television, digital-native presentations and social media. From professionalism to critical thinking on your feet, students will explore how to successfully navigate on-camera performance for different settings such as interviews, broadcast journalism, news conferences and web and social media videos. In a world where media content is becoming increasingly visual, this course is for any student whose career path might put them in front of a camera to convey information, ask questions, or answer them.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 33033 SOUND FOR PICTURE 3 Credit Hours
An intermediate class for audio and music in film and multimedia. Students learn the entire process of sound for picture workflow, department by department, from pre-production and budgeting through final mixdown.
Prerequisite: Minimum C- grade in MDJ 20011.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter
Attributes: TAG Communication

MDJ 33042 STUDIO TELEVISION 3 Credit Hours
Study of all positions of a live television program including technical directing, floor directing, graphics, digital playback and audio engineering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 33043 DIGITAL CINEMATOGRAPHY 3 Credit Hours
Course focuses on digital cinematography techniques for shooting documentary and narrative fiction.
Prerequisite: Minimum C- grade in MDJ 20011.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 33092 STUDENT MEDIA PRACTICUM IN DIGITAL MEDIA PRODUCTION (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) Performance of assigned activities in radio or television under student media supervision. A GPA of 2.700 is required in the major.
Prerequisite: Minimum 2.000 GPA; and sophomore standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

MDJ 34036 MULTIMEDIA ENGINEERING 3 Credit Hours
Introduction to basic digital media technology and systems, providing students with multimedia engineering knowledge and vocabulary. Overview of broadcast operations and legal viewpoint. Prep for Society of Broadcast Engineer (SBE) operators' certification exam.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 34140 PRODUCTION I 3 Credit Hours
A hands-on introduction to narrative and documentary storytelling. Students write, edit and direct projects emphasizing visual storytelling.
Prerequisite: Minimum C- grade in MDJ 23130.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 36005 EDITING 3 Credit Hours
Students will learn the craft of editing — chiefly improving the writing of other journalists on all platforms. Students will also learn story planning, content creation, writing headlines and organizing stories in digital formats. This course also includes an intensive review of style and grammar.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 36008 FREELANCE JOURNALISM 3 Credit Hours
In an ever-changing media landscape, students need to be able to market themselves and their work. This course provides students the tools, resources and strategies needed to pitch creative work to various media companies. Students will learn how to research markets, craft effective queries and manage the business considerations of being a freelance journalist.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 36010 INTERVIEWING AND DATA FOR JOURNALISTS 3 Credit Hours
This course offers students more practice in interviewing and finding news in numbers. Students will engage in news coverage that allows them to practice interviewing techniques including how to find sources, ask the right questions and use that information to create news content. We will also discuss diversity and its importance in the selection of story topics and sources. This course will also introduce students to finding stories through data and research. Students will learn how to find stories in numbers, how to judge and report on scientific research and how to use visuals to enhance reporting of data.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 36018 FEATURE WRITING 3 Credit Hours
This is a class about writing stories people want to read, not stories they have to read to keep up with the news. You will learn the journalistic and literary tools to write drop-everything, time-melting, hit-share reads. Each feature you produce, even the one written in the first person, must be thoroughly reported, stylishly written and students will be encouraged to submit their work for publication. A special emphasis will be placed on reporting the experiences of communities that have traditionally been ignored or misrepresented in media.
Prerequisite: Minimum C- grade in MDJ 26007 or MDJ 26008.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 36020 AUDIO STORYTELLING AND PODCASTING I 3 Credit Hours
The audio storytelling used in public radio-style stories and podcasts gives audiences an immersive and intimate experience that's available anytime, anywhere. This course will give students the expertise needed to develop and produce broadcast-quality audio content. Students will learn how to write for the ear, interview for audio, as well as edit and mix audio stories that meet professional standards for broadcast.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 38002 PUBLIC RELATIONS CASE STUDIES 3 Credit Hours
Explores the process and practice of public relations by requiring students to analyze real-world case studies and develop an actual public relations plan on behalf of a client organization. Students should expect to spend time outside the classroom working within teams in support of client objectives. A significant amount of writing in multiple formats is required.
Prerequisite: MDJ 28001 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40006 LAW OF MEDIA AND JOURNALISM 3 Credit Hours
(Slashed with MDJ 50006) Students will explore how the law affects media content and the work of its practitioners. Students will learn to identify potential legal issues and apply that knowledge to specific situations likely confronted by working media professionals across a variety of media industries. Students will also gain an appreciation of the history of the First Amendment and examine the role protections for free expression play in a diverse American society.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40010 ETHICS AND ISSUES IN MEDIA AND JOURNALISM (WIC) 3 Credit Hours
This course is about what the media ought to do and the underlying values that frame ethical decision-making. We will use ethics theories and critical thinking to discuss ethical decisions in media and in journalism, as well as explore how benefits and harms affect diversity, equity, inclusion, and belonging in the decisions we make as media practitioners. We'll use theory and moral reasoning to examine media decision-making beyond news judgment and common sense. The course does not attempt to give students rules for ethical behavior; it is an intellectual journey.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MDJ 40011 ETHICAL ISSUES IN INTEGRATED COMMUNICATION 1 Credit Hour
Focuses specifically on the ethical and moral issues affecting Advertising and Public Relations professionals. Focuses solely on Integrated Communications. Students will understand and appreciate the complex moral and ethical decisions that professionals make each day, often under intense deadline pressure. They also acquire their basic problem-solving skills to manage these issues in real time. A GPA of 2.700 is required in the major.
Prerequisite: Minimum C- grade in MDJ 31002 (and MDJ 31003) or MDJ 38002; and minimum 2.000 overall GPA; and advertising or public relations major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 40016 LAW OF ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours
(Slashed with MDJ 50016) Regulation of advertising and corporate speech; first amendement libel and privacy legal problems of new media. A GPA of 2.700 is required in the major.
Prerequisite: 18 hours of MDJ courses all with a minimum C- grade; and minimum C- grade in MDJ 31002 or 31003 or 38002; and minimum 2.000 overall GPA; and advertising or public relations majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40017 MEDIA ENTERPRISE 3 Credit Hours
(Slashed with MDJ 50017) This course will expose students to the business side of the media industry by exploring management issues unique to media organizations and the impact of those issues on the organization's structure, economics and employees. Students will also study the process of monetizing and distributing multimedia content to targeted audiences through various delivery streams. Students will apply entrepreneurial thinking as they explore the importance of promotion, branding and social media in today's media marketplace.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40020 AUDIO AND STILL PHOTO PRODUCTION 3 Credit Hours
(Slashed with MDJ 50020) Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio. A GPA of 2.700 is required in the major.
Prerequisite: MDJ 22001 or CCI 12001 with a minimum C- grade; and minimum 2.000 overall GPA; and school of media and journalism major; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40027 RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES (DIVD) 3 Credit Hours
(Slashed with MDJ 50027) To introduce students to the many facets of diversity in media through the eyes and perspectives of practitioners and audiences. This class takes a critical survey of messages directed at specific members of the mass audience and how these messages help shape the culture through historical, legal, economic, political, social and artistic influences. Media institutions are examined in terms of how and why diverse content is produced and distributed. Special attention is paid to increasing students' level of media literacy by examining these messages.
Prerequisite: MDJ 20001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

MDJ 40037 SCRIPTWRITING FOR VIDEO AND FILM 3 Credit Hours
(Slashed with MDJ 50037) The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs.
Prerequisite: Minimum C- grade in MDJ 23004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 40092 INTERNSHIP (ELR) 1-3 Credit Hours
(Repeatable for credit) Experience in a professional setting under professional supervision in student's field of specialization.
Prerequisite: Minimum 23 credit hours of MDJ coursework; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MDJ 40095 SPECIAL TOPICS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Explores selected topics of special interest in media and journalism not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 40096 INDIVIDUAL PROJECTS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Individual research projects in media and journalism.
Prerequisite: Junior or senior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 40099 SENIOR HONORS PROJECT IN MEDIA AND JOURNALISM (ELR) 2-4 Credit Hours
Thesis or other independent study project in media and journalism.
Prerequisite: School of media and journalism majors only; and admitted to the honors college.
Schedule Type: Project or Capstone
Contact Hours: 2-4 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

MDJ 40201 PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS 1 Credit Hour
(Slashed with MDJ 50201) Provides a basic understanding of the public affairs role in public relations. Course specifically examines how external factors surrounding an organization can trigger disruption, opportunity, change, adaptation and evolution. Students explore techniques for anticipating, managing and adapting to or changing those forces. Primary attention is paid to environmental scanning, issue and stakeholder identification and management, lobbying, advocacy and ethical implications of public policy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 40202 PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION 1 Credit Hour
(Slashed with MDJ 50202) Provides a basic understanding of the best practices of crisis planning, preparation, communication and management. Course focuses on the critical capabilities, team work and decision-making skills required of public relations practitioners during periods of intense organizational turbulence, crisis and reputational threat across numerous stakeholder groups. Those groups include internal, external, public, private and legislative audiences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 40295 SELECTED TOPICS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) (Slashed with MDJ 50295) Selected topics of special interest not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: School of Media and Journalism major or minor.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 41002 ADVANCED ADVERTISING COPYWRITING 3 Credit Hours
Advanced copywriting projects in print advertising and corporate communications and execution of the entire print advertising campaigns. A GPA of 2.700 is required in the major.
Prerequisite: MDJ 31002 and 31003 with a minimum C- grade; and minimum 2.000 overall GPA; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 41099 ADVERTISING CAMPAIGNS (ELR) 3 Credit Hours
Capstone course requires student teams to combine research, planning and execution into a single advertising campaign developed for a real world organization. A GPA of 2.700 is required in the major.
Prerequisite: Minimum C- grade in MDJ 31002 and MDJ 31003.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 41111 FASHION PUBLISHING 3 Credit Hours
Introduction to 21st Century Fashion publishing. An overview of the evolution of fashion magazines in print and digital formats, magazine entrepreneurs, the editors role, branding, advertising, circulation, writing and production.
Prerequisite: Minimum C- grade in MDJ 20004 or MDJ 23004 or MDJ 26001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 41192 PRACTICUM IN ADVERTISING AND PUBLIC RELATIONS (ELR) 3 Credit Hours
Designed to provide opportunities for students to engage in applied public relations and advertising projects in collaboration with faculty. This can include such things as competitions and practical experiential learning exercises with on-campus organizations. A 2.700 GPA in the major is required.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 41199 CAPSTONE: CAMPAIGNS IN ADVERTISING AND PUBLIC RELATIONS (ELR) 3 Credit Hours
Capstone course requires student teams to combine research, planning and execution into a single advertising and public relations campaign developed for a real world organization.
Prerequisite: Minimum C- grade in MDJ 31002 (and MDJ 31003) or MDJ 48001 (and MDJ 48002).
Pre/corequisite: Minimum C- in MDJ 48003.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 41395 SELECTED TOPICS IN ADVERTISING AND PUBLIC RELATIONS 1-3 Credit Hours
(Repeatable for credit) Selected topics of interest in advertising and public relations not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Advertising major (or minor) or public relations major (or minor).
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 43034 ADVANCED CINEMATOGRAPHY 3 Credit Hours
This course is designed to build upon the basic methodologies learned in Digital Cinematography. The class will provide a unique opportunity to deepen and advance a student's experience and knowledge in the realm of cinematography, both technically and artistically, and to hone their craft and skills through producing content under the supervision of a professional cinematographer, as it relates to producing content for film, documentaries, online and television broadcast.
Prerequisite: MDJ 33043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 43035 ADVANCED MULTIMEDIA NEWS 3 Credit Hours
In this course, students will participate in telling stories from the surrounding communities in Northeast Ohio. Students will have the opportunity to produce a variety of multimedia content including, video, photo, data visualizations, text, social media stories, live and studio shows. This multimedia content will be distributed online, for television and on social media platforms. Students will increase their skills in one or more areas and will be challenged to expand their skills as well. Though not required, students are encouraged to take MDJ 46003, before taking this course.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C- grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 43395 SELECTED TOPICS IN DIGITAL MEDIA PRODUCTION 1-3 Credit Hours
(Repeatable for credit) Selected topics of interest in digital media production not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Digital Media Production major or minor.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 44036 ADVANCED VIDEO EDITING 3 Credit Hours
In this class, students analyze and assemble dramatic scenes under a variety of conditions and narrative strategies. Editing theories, techniques and procedures, issues of continuity, effects, movement and sound are examined as they relate to the fundamentals of cinematic montage and visual storytelling. This class presents a variety of topics and experiences that are designed to broaden the student's understanding of the art of cinematic storytelling and montage. By the end of the course, students will know how to use Adobe Premiere Pro (CC) to edit their own videos. They will know the software well enough to apply similar techniques and concepts to other Non-Linear Editing systems. The course will also teach students the important role editing plays in telling a story visually as well as broaden their ability to edit their own projects inside and outside of school.
Prerequisite: MDJ 30036.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 44050 POST-PRODUCTION SOUND 3 Credit Hours
(Slashed with MDJ 54050) Creating post-production sound for visual productions, including digital cinema, television and video games.
Prerequisite: Minimum C- grade in MDJ 33033; and minimum C- grade in MDJ 30036 or MDJ 33043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 44055 SUAS AERIAL CINEMATOGRAPHY 3 Credit Hours
(Slashed with MDJ 54055) Prepares interdisciplinary non-aeronautics majors to operate Small Unmanned Aircraft Systems (sUAS) safely and ethically in news gathering, research, cinematography and other digital production.
Prerequisite: Minimum C- grade in MDJ 30036.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 45000 TELEVISION SPORTS GRAPHICS PRODUCTION 3 Credit Hours
Techniques in creating and preparing TV and video graphics for live sports events. A GPA of 2.700 is required in the major.
Prerequisite: Minimum 2.000 overall GPA; and a school of media and journalism major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MDJ 45001 ADVANCED LIGHTING FOR DIGITAL FILM AND TELEVISION 3 Credit Hours
(Slashed with MDJ 55001) Introduction to theory and technique of lighting for video production. Course includes critical analysis of video lighting situations, the various tools available to light various production locations, including interviews and multi-camera narrative scenes. A 2.700 major GPA is required to enroll in the course.
Prerequisite: Minimum C- grade in MDJ 20011; and School of Media and Journalism major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 45005 HISTORICAL DOCUMENTARY PRODUCTION 3 Credit Hours
(Slashed with MDJ 55005) Chronicles the evolution of the historical television documentary and demonstrates the step-by-step production process required to create such a program. Students research and assemble a documentary with an overall appreciation of this genre's purpose in both the television industry and the popular culture. Minimum 2.700 major GPA is required to enroll in the course.
Prerequisite: Minimum 2.000 overall GPA.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 46003 PRODUCING TELEVISION NEWS 3 Credit Hours
This course will introduce students to the theory and practice of producing television news and information programs. Students will learn the news philosophies behind pacing, flow, news values and story selection, as well as the finer points of writing for a visual medium like television.
Prerequisite: MDJ 26001 or MDJ 20011 with a minimum C- grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 46009 REPORTING PUBLIC POLICY 3 Credit Hours
(Slashed with MDJ 56009) Students in this course will learn how to report on all areas of public affairs and societal issues such as, education, government, crime, social justice, and equality. Students will gain an understanding of how government works, and how policy decisions disproportionately affect the population. This course builds on preceding coursework by introducing students to more advanced reporting techniques including explorations of data and visualization tools.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C-grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 46020 MAGAZINE DESIGN 3 Credit Hours
(Slashed with MDJ 56020) Marriage of words and visuals for designing magazine layouts and covers in desktop publishing.
Prerequisite: Minimum C- grade in MDJ 20004 or MDJ 23004 or MDJ 26001.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 46021 ADVANCED MAGAZINE WRITING 3 Credit Hours
(Slashed with MDJ 56021) Great writing comes to us in many ways, just as magazines do now. No longer confined to the printed page, magazine-style writing has found a home in digital environments where the word counts are unlimited and the shareability infinite. Magazines are created for targeted (not general) audiences who want their magazines to inform, amaze, delight, challenge, inspire, connect, surprise and entertain them. We will read instructive magazine-style journalism from the past and present and study its structures, methods and styles. You will produce writing destined for magazines and other outlets that publish original, deeply reported journalism. Though not required, it is recommended that students take MDJ 36018 prior to taking this course.
Prerequisite: MDJ 26007 or MDJ 26008 with a minimum C- grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 46030 AUDIO STORYTELLING AND PODCASTING II 3 Credit Hours
In this course, students will take the technical and practical skills mastered in Audio Storytelling and Podcasting I to develop and execute a long-form, narrative podcast. Students will learn how to produce a multi-episodic podcast through one-on-one meetings and edits with the instructor and classmates. Students will also learn the ins and outs of the podcast industry, from consumer behavior and industry trends to publishing, promoting and distributing the podcast.
Prerequisite: Minimum C- grade in MDJ 36020.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 46057 MOTION GRAPHICS FOR VIDEO EDITING 3 Credit Hours
(Slashed with MDJ 56057) Covers the creation of motion graphics for video editing from the perspective of a professional editor. Students learn basic video effects such as digital matte creation and layered graphics for video productions. Students also gain a basic understanding of how to convert and compress video files for various deliverable formats. Adobe After Effects is the industry standard software application for creating motion graphics and is used extensively in the course.
Prerequisite: MDJ 20011 with a minimum C- grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 46395 SELECTED TOPICS IN JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Selected topics of interest in journalism not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Journalism major or minor.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 47003 TEACHING HIGH SCHOOL JOURNALISM 3 Credit Hours
(Slashed with MDJ 57003) Methods and materials for teaching journalism in high school.
Prerequisite: Junior or senior standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 48001 MEDIA RELATIONS AND PUBLICITY (WIC) 3 Credit Hours
(Slashed with MDJ 58001) Strategic planning and tactical preparation of materials for use by the news media and for use by an organization's publics via owned media. The course explores the media relations function, including media monitoring, factual organizational storytelling and informal spokesperson training, along with analyzing the uses and limitations of traditional, digital and social media in public relations practice.
Prerequisite: Minimum C- grade in MDJ 26007 or MDJ 26008; and minimum C- in MDJ 38002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MDJ 48002 PUBLIC RELATIONS TACTICS 3 Credit Hours
(Slashed with MDJ 58002) Planning and preparation of face-to-face public relations tactics, including special event planning, speeches and presentations with visual support and other applications of "writing for the ear." Students learn about enhancing their personal brands through face-to-face, written and digital techniques.
Prerequisite: Minimum C- grade in MDJ 26001.
Pre/corequisite: Minimum C- grade MDJ 38002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 48003 DIGITAL PUBLIC RELATIONS AND SOCIAL MEDIA 3 Credit Hours
(Slashed with MDJ 58003) Explores the basic concepts behind the theory, strategic planning, design and creation of effective websites, blogs, videos, podcasts, and social media. Students study and apply hands-on skills using a full range of digital techniques including search engine optimization, web accessibility, user experience and writing for online audiences.
Prerequisite: Minimum C- grade in MDJ 20008 and MDJ 31007 and MDJ 38002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 48006 PUBLIC RELATIONS PUBLICATIONS 3 Credit Hours
(Slashed with MDJ 58006) Planning, writing and design of organizational publications, including newsletters, brochures, fliers, promotional mailers and websites. Course also explores the print production process.
Prerequisite: Minimum C- grade in MDJ 26001; and Public Relations major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 48099 CAPSTONE: PUBLIC RELATIONS CAMPAIGNS (ELR) 3 Credit Hours
Capstone course requires student teams to combine research, planning and execution into a single public relations campaign developed for a real world organization.
Prerequisite: Minimum C- grade in MDJ 48001 and MDJ 48002.
Pre/corequisite: Minimum C- grade in MDJ 48003.
Schedule Type: Project or Capstone, Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 49099 PRODUCTION II (ELR) 3 Credit Hours
In this course, each student will bring together the creative, technical, and project management skills they acquired in prior coursework to conceive, produce, and edit a senior capstone video or multimedia project. Students are encouraged to share their finished work with faculty, peers and external audiences such as film festivals.
Prerequisite: A minimum C- grade in MDJ 34140; and senior standing.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MDJ 50006 LAW OF MEDIA AND JOURNALISM 3 Credit Hours
(Slashed with MDJ 40006) Students will explore how the law affects media content and the work of its practitioners. Students will learn to identify potential legal issues and apply that knowledge to specific situations likely confronted by working media professionals across a variety of media industries. Students will also gain an appreciation of the history of the First Amendment and examine the role protections for free expression play in a diverse American society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50012 ONLINE JOURNALISM 3 Credit Hours
Study and evaluation of online news and news sites; reporting and writing for online news media; design, production and maintenance of an online news site; ethical, legal and economic issues related to online news.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50017 MEDIA ENTERPRISE 3 Credit Hours
(Slashed with MDJ 40017) This course will expose students to the business side of the media industry by exploring management issues unique to media organizations and the impact of those issues on the organization's structure, economics and employees. Students will also study the process of monetizing and distributing multimedia content to targeted audiences through various delivery streams. Students will apply entrepreneurial thinking as they explore the importance of promotion, branding and social media in today's media marketplace.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50020 AUDIO AND STILL PHOTO PRODUCTION 3 Credit Hours
(Slashed with MDJ 40020) Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio.
Prerequisite: Media and journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50027 RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES 3 Credit Hours
(Slashed with MDJ 40027) To introduce students to the many facets of diversity in media through the eyes and perspectives of practitioners and audiences. This class takes a critical survey of messages directed at specific members of the mass audience and how these messages help shape the culture through historical, legal, economic, political, social and artistic influences. Media institutions are examined in terms of how and why diverse content is produced and distributed. Special attention is paid to increasing students' level of media literacy by examining these messages.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50037 SCRIPTWRITING FOR VIDEO AND FILM 3 Credit Hours
(Slashed with MDJ 40037) The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 50201 PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS 1 Credit Hour
(Slashed with MDJ 40201) Provides a basic understanding of the public affairs role in public relations. Course specifically examines how external factors surrounding an organization can trigger disruption, opportunity, change, adaptation and evolution. Students explore techniques for anticipating, managing and adapting to or changing those forces. Primary attention is paid to environmental scanning, issue and stakeholder identification and management, lobbying, advocacy and ethical implications of public policy.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 50202 PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION 1 Credit Hour
(Slashed MDJ 40202) Provides a basic understanding of the best practices of crisis planning, preparation, communication and management. Course focuses on the critical capabilities, team work and decision-making skills required of public relations practitioners during periods of intense organizational turbulence, crisis and reputational threat across numerous stakeholder groups. Those groups includ internal, external, public, private and legislative audiences.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MDJ 50295 SELECTED TOPICS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) (Slashed with MDJ 40295) Selected topics of special interest not covered in depth in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Media and journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MDJ 54050 POST-PRODUCTION SOUND 3 Credit Hours
(Slashed with MDJ 44050) Creating post-production sound for visual productions, including digital cinema, television and video games.
Prerequisite: Media and Journalism major; and graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 54055 SUAS AERIAL CINEMATOGRAPHY 3 Credit Hours
(Slashed with MDJ 44055) Prepares interdisciplinary non-aeronautics majors to operate Small Unmanned Aircraft Systems (sUAS) safely and ethically in news gathering, research, cinematography and other digital production.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 55001 ADVANCED LIGHTING FOR DIGITAL FILM AND TELEVISION 3 Credit Hours
(Slashed with MDJ 45001) Introduction to theory and technique of lighting for video production. Includes critical analysis of video lighting situations, the various tools available to light various production locations, including interviews and multi-camera narrative scenes.
Prerequisite: Media and Journalism major; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 55005 HISTORICAL DOCUMENTARY PRODUCTION 3 Credit Hours
Chronicles the evolution of the historical television documentary and demonstrates the step-by-step production process required to create such a program. Students research and assemble a documentary with an overall appreciation of this genre's purpose in both the television industry and the popular culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 56009 REPORTING PUBLIC POLICY 3 Credit Hours
(Slashed with MDJ 46009) Students in this course will learn how to report on all areas of public affairs and societal issues such as, education, government, crime, social justice and equality. Students will gain an understanding of how government works and how policy decisions disproportionately affect the population. This course builds on preceding coursework by introducing students to more advanced reporting techniques including explorations of data and visualization tools.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MDJ 56020 MAGAZINE DESIGN 3 Credit Hours
(Slashed with MDJ 46020) Marriage of words and visuals for designing magazine layouts and covers in desktop publishing.
Prerequisite: MDJ 56016; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 56021 ADVANCED MAGAZINE WRITING 3 Credit Hours
(Slashed with MDJ 46021) Great writing comes to us in many ways, just as magazines do now. No longer confined to the printed page, magazine-style writing has found a home in digital environments where the word counts are unlimited and the shareability infinite. Magazines are created for targeted (not general) audiences who want their magazines to inform, amaze, delight, challenge, inspire, connect, surprise and entertain them. We will read instructive magazine-style journalism from the past and present and study its structures, methods and styles. You will produce writing destined for magazines and other outlets that publish original, deeply reported journalism.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 56057 MOTION GRAPHICS FOR VIDEO EDITING 3 Credit Hours
(Slashed with MDJ 46057) Covers the creation of motion graphics for video editing from the perspective of a professional editor. Students learn basic video effects such as digital matte creation and layered graphics for video productions. Students also gain a basic understanding of how to covert and compress video files for various deliverable formats. Adobe After Effects is the industry standard software application for creating motion graphics and is used extensively in the course.
Prerequisite: Media and Journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 57003 TEACHING HIGH SCHOOL JOURNALISM 3 Credit Hours
(Slashed with MDJ 47003) Methods and materials for teaching journalism in high school.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 58001 MEDIA RELATIONS AND PUBLICITY 3 Credit Hours
(Slashed with MDJ 48001) Strategic planning and tactical preparation of materials for use by the news media and for use by an organization's publics via owned media. The course explores the media relations function, including media monitoring, factual organizational storytelling and informal spokesperson training, along with analyzing the uses and limitations of traditional, digital and social media in public relations practice.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 58002 PUBLIC RELATIONS TACTICS 3 Credit Hours
(Slashed with MDJ 48002) Planning and preparation of face-to-face public relations tactics, including special event planning, speeches and presentations with visual support and other applications of "writing for the ear." Students learn about enhancing their personal brands through face-to-face, written and digital techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 58003 DIGITAL PUBLIC RELATIONS AND SOCIAL MEDIA 3 Credit Hours
(Slashed with MDJ 48003) Explores the basic concepts behind the theory, strategic planning, design and creation of effective websites, blogs, videos, podcasts, and social media. Students study and apply hands-on skills using a full range of digital techniques including search engine optimization, web accessibility, user experience and writing for online audiences.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 58006 PUBLIC RELATIONS PUBLICATIONS 3 Credit Hours
(Slashed with MDJ 48006) Planning, writing and design of organizational publications, including newsletters, brochures, fliers, promotional mailers and websites. Course also explores the print production process.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60003 TEACHING JOURNALISM ETHICS 3 Credit Hours
Study of ethical problems of mass media in society; analysis of media policies; performance evaluation.
Prerequisite: Media and Journalism major and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60009 SOCIAL ROLE OF THE MASS MEDIA 3 Credit Hours
Application of professional, theoretical, historical, economic and political perspectives to examine the role of mass media in society both in terms of structure and function.
Prerequisite: Media and Journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60011 THEORY AND SOCIETAL ROLE OF MEDIA AND JOURNALISM 3 Credit Hours
(Slashed with MDJ 80011) "Social role" of media is not about social media. It is about the role of media in contemporary society. The two concepts are not the same. Instead of Tweeting and Facebooking, this course covers the historical and political roles of the media: responsibility to society through roles the media exhibit. Terms like gatekeeping, literacy, leadership and enabling citizen involvement are rooted in social responsibility and will be the focus in this course about how to empower the youth of today – who are the leaders of tomorrow – with media tools and ideas that best fulfill the historical and future roles society most needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60012 MEDIA LAW AND ETHICS 3 Credit Hours
(Slashed with MDJ 80012) In this course, students will develop an understanding of the rule of law and the American judicial system; origins of the First Amendment; First Amendment theory; the special case of scholastic journalism; Categories of speech; Censorship; Libel; Privacy; Information gathering; Social norms and the law; Intellectual property; Regulation of advertising and broadcasting; Theories of ethical decision making; Ethical decision-making tools.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60021 LITERARY JOURNALISM 3 Credit Hours
Research, interviewing, writing and marketing major magazine articles for online and print publications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 60096 INDIVIDUAL INVESTIGATION IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Individual investigation of selected area or problem approved by graduate faculty.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Maximum of 3 hours may be applied to degree if school approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory

MDJ 60195 SPECIAL TOPICS SEMINAR IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Study of selected topics of special interest in media and journalism not covered in depth in existing courses; offered as resources permit.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 60196 READINGS IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Students pursue course of readings approved by instructor to cover a subject specialty in media and journalism they cannot obtain from formal course offerings.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MDJ 60295 SPECIAL TOPICS IN COMPUTER LAB 1-3 Credit Hours
(Repeatable for credit) Selected topics of special interest not covered in depth in existing courses; offered as resources permit.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 1-3 lab
Grade Mode: Standard Letter

MDJ 60299 THESIS II 2 Credit Hours
Thesis student must continue registration each semester until all degree requirements are met.
Prerequisite: MDJ 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MDJ 60399 MASTER'S PROFESSIONAL PROJECT 3 Credit Hours
Completion and defense of a substantial professional project in one of the fields of media and journalism.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MDJ 60701 ADVISING STUDENT MEDIA 3 Credit Hours
In this course, students learn that an adviser should advise, not edit or create content, and in learning this, students will discern the difference between the roles of adviser and student editor. Students will create sample forms, such as advertising contracts and beat sheets; develop a staff manual; and construct an editorial policy that values students' right to make content decisions.#They will also cover the challenges of dealing with other stakeholders, especially school administrators.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 61001 PRINCIPLES AND PRACTICES OF DIGITAL MEDIA 3 Credit Hours
Explores the history and philosophies of online communities and what makes them work. Examines how professionals integrate digital thinking into an organization's communication. Covers best practices for producing social media content that will lead to effective engagement.
Prerequisite: Media and Journalism major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 64036 DIGITAL VIDEO EDITING 3 Credit Hours
Focus is on editing workflow and techniques for both non-fiction and fiction video production.
Prerequisite: Media and Journalism major; and graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MDJ 66010 SPECIALIZED REPORTING 3 Credit Hours
Newsgathering techniques in specialty areas such as politics, labor, medicine, business and technology techniques of team reporting.
Prerequisite: MDJ 56009; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 66011 REPORTING, WRITING AND EDITING FOR MEDIA 3 Credit Hours
This course is the foundation of all content for student media and shifts the emphasis of writing from creating for a teacher to creating for an audience. Focus will be on news values and how#these values guide#much of what and how journalists produce;#news gathering using both live and print sources; coaching, editing and revising to meet the needs and wants of the audience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 66092 INTERNSHIP IN MEDIA AND JOURNALISM 1-3 Credit Hours
(Repeatable for credit) Experience in a department or company involving supervised professional responsibilities in media and journalism.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

MDJ 67067 TEACHING MEDIA LITERACY 3 Credit Hours
This course explores the foundations of media literacy, pedagogical applications in the journalism classroom, and its place among concomitant literacies (specifically media and information literacy). By emphasizing the importance of quality information, exploring changes and challenges to the news industry, and advocating for a critical consumer approach to news media, this course prepares journalism educators to better meet the needs of students in a digital world. Students in the course will also develop curriculum and lesson materials in media literacy topics for their own current and future classroom use.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 67075 MEDIA CONTENT CREATION 3 Credit Hours
Introduction to recognizing and producing some of the basic linear and non-linear journalistic multimedia tools used for content creation, including audio, video and still images.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 67085 TEACHING PHOTOJOURNALISM 3 Credit Hours
Examines the components of photojournalism and prepares instructors to teach those components to their students. In addition to traditional assignments and projects, instructors and students maintain a weekly dialog. Students gain the following skills necessary to teach their classes: basic operation of a digital camera, essential components of good photography, how to capture images that tell a story, strategies for covering news, features and sporting events as well as portraits and group shots, strategies for organizing and archiving images and ethical practices for capturing images and using them in publication work.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 67087 ADVISING YEARBOOK 3 Credit Hours
Students gain contextual information regarding yearbook roles in history and memory along with practical skills for recruitment, staff organization, staffing and production; and incorporating the creation of the yearbook into a classroom setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 80011 THEORY AND SOCIETAL ROLE OF MEDIA AND JOURNALISM 3 Credit Hours
(Slashed with MDJ 60011) "Social role" of media is not about social media. It is about the role of media in contemporary society. The two concepts are not the same. Instead of Tweeting and Facebooking, this course covers the historical and political roles of the media: responsibility to society through roles the media exhibit. Terms like gatekeeping, literacy, leadership and enabling citizen involvement are rooted in social responsibility and will be the focus in this course about how to empower the youth of today – who are the leaders of tomorrow – with media tools and ideas that best fulfill the historical and future roles society most needs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 80012 MEDIA LAW AND ETHICS 3 Credit Hours
(Slashed with MDJ 60012) In this course, students will develop an understanding of the rule of law and the American judicial system; origins of the First Amendment; First Amendment theory; the special case of scholastic journalism; categories of speech; censorship; libel; privacy; information gathering; social norms and the law; intellectual property; regulation of advertising and broadcasting; theories of ethical decision making; ethical decision-making tools.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 80195 SPECIAL TOPICS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours
(Repeatable for credit) Study of important topics in mass communication. Offered irregularly in response to existing interests and opportunities.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MDJ 88001 PUBLIC RELATIONS MANAGEMENT 3 Credit Hours
(Slashed with MDJ 68001) Perspectives, skills needed to manage an organization's PR function, particularly strategic planning, implementation and evaluation. Emphasis on managerial aspects of negotiating organizational relationships with the public.
Prerequisite: A major in the College of Communication and Information; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Advertising - B.S.

College of Communication and Information
School of Media and Journalism
www.kent.edu/mdj

About This Program

The advertising major provides a perfect blend of creativity and business acumen, allowing you to launch a successful career in the dynamic advertising industry. With a digital-first mindset and hands-on experience early on, you'll learn how to develop compelling campaigns that connect to audiences and make an impact. Read more...

Contact Information

- **Emily Metzgar** | mdj@kent.edu | 330-672-2572
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Advertising and promotions managers

- -1.1% decline
- 28,600 number of jobs
- $133,460 potential earnings

Market research analysts and marketing specialists

- 17.7% much faster than the average
- 738,100 number of jobs
- $65,810 potential earnings

Additional Careers

- Brand Marketing Specialist
- Media Planner and Buyer
- Social Media Strategist

Accreditation

Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Current Kent State Students: Active Kent State students who wish to change their major to Advertising must have a minimum 2.000 overall GPA to be admitted.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) (min C- grade in all courses) [1]		
EMAT 10310	MY STORY ON THE WEB	3
or MDJ 20011	PRODUCTION FUNDAMENTALS	
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
MDJ 20004	ADVERTISING WRITING AND STORYTELLING	3
MDJ 20008	RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS	3
MDJ 21001	PRINCIPLES OF ADVERTISING	3
MDJ 21015	FOUNDATIONS OF STRATEGY AND COMMUNICATION	3
MDJ 31002	ADVERTISING COPYWRITING (WIC) [2]	3
MDJ 31003	ADVERTISING MEDIA PLANNING	3
MDJ 31004	DIGITAL ADVERTISING	3
MDJ 31007	DIGITAL ANALYTICS IN ADVERTISING AND PUBLIC RELATIONS	2
MDJ 31011	ADVERTISING STRATEGY DEVELOPMENT	3
MDJ 40006	LAW OF MEDIA AND JOURNALISM	3
or MDJ 40016	LAW OF ADVERTISING AND PUBLIC RELATIONS	
MDJ 40011	ETHICAL ISSUES IN INTEGRATED COMMUNICATION	1
MDJ 40027	RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES (DIVD)	3
MDJ 40092	INTERNSHIP (ELR)	1
MDJ 41099	ADVERTISING CAMPAIGNS (ELR)	3
or MDJ 41199	CAPSTONE: CAMPAIGNS IN ADVERTISING AND PUBLIC RELATIONS (ELR)	
Media and Journalism Electives, choose from the following:		6
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	
MDJ 40092	INTERNSHIP (ELR)	
MDJ 40201	PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS	
MDJ 40202	PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION	
MDJ 40295	SELECTED TOPICS IN MEDIA AND JOURNALISM	
MDJ 41192	PRACTICUM IN ADVERTISING AND PUBLIC RELATIONS (ELR)	
MDJ 41395	SELECTED TOPICS IN ADVERTISING AND PUBLIC RELATIONS	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
College of Communication and Information Core Electives, choose from the following:		9

CCI 10095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40089	BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR)	
CCI 40095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40189	ITALIAN POP CULTURE (DIVG) (ELR)	
CCI 40289	ITALIAN CINEMA (DIVG) (ELR)	
CCI 40389	DOCUMENTARY FILMMAKING (DIVG) (ELR)	
CCI 40489	MULTIMEDIA EXPERIENTIAL LEARNING (DIVG) (ELR)	
CCI 45089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
CCI 46089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
EMAT 25310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
VCD 13000	VISUAL DESIGN THINKING	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [3]		28
Minimum Total Credit Hours:		**120**

[1] Students transferring credit from another institution may apply a maximum of 12 credit hours of transfer coursework toward their major requirements per the Accrediting Council on Education in Journalism and Mass Communications guidelines.

[2] A minimum C grade must be earned to fulfill the writing-intensive requirement. If course is not being used to fulfill the writing-intensive requirement, a minimum grade of C- must be earned.

[3] A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

Progression Requirements

- No grade lower than a C- in a MDJ course will be counted toward graduation or as a prerequisite for a subsequent class.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
MDJ 21001	PRINCIPLES OF ADVERTISING	3
UC 10001	FLASHES 101	1
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
EMAT 10310 or MDJ 20011	MY STORY ON THE WEB or PRODUCTION FUNDAMENTALS	3
MDJ 21015	FOUNDATIONS OF STRATEGY AND COMMUNICATION	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
MDJ 20004	ADVERTISING WRITING AND STORYTELLING	3
MDJ 20008	RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS	3
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
MDJ 31011	ADVERTISING STRATEGY DEVELOPMENT	3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		6
	Credit Hours	**15**
Semester Five		
MDJ 31003 or MDJ 31004	ADVERTISING MEDIA PLANNING or DIGITAL ADVERTISING	3
MDJ 31007	DIGITAL ANALYTICS IN ADVERTISING AND PUBLIC RELATIONS	2
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
	Credit Hours	**14**
Semester Six		
MDJ 31002	ADVERTISING COPYWRITING (WIC)	3
MDJ 31003 or MDJ 31004	ADVERTISING MEDIA PLANNING or DIGITAL ADVERTISING	3
MDJ 40027	RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES (DIVD)	3
General Electives		6
	Credit Hours	**15**
Third Summer Term		
MDJ 40092	INTERNSHIP (ELR)	1
	Credit Hours	**1**

Semester Seven		
MDJ 40016 or MDJ 40006	LAW OF ADVERTISING AND PUBLIC RELATIONS or LAW OF MEDIA AND JOURNALISM	3
Media and Journalism Elective		3
General Electives		9
	Credit Hours	**15**
Semester Eight		
MDJ 40011	ETHICAL ISSUES IN INTEGRATED COMMUNICATION	1
MDJ 41099 or MDJ 41199	ADVERTISING CAMPAIGNS (ELR) or CAPSTONE: CAMPAIGNS IN ADVERTISING AND PUBLIC RELATIONS (ELR)	3
College of Communication and Information Core Elective		3
Media and Journalism Elective		3
General Electives		4
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate preparation for working in a global and diverse society.
2. Develop SMART objectives to clarify and define communication goals.
3. Apply strategic thinking and planning to build and execute elements of advertising campaigns.
4. Analyze audiences using primary and secondary research.
5. Craft well written material in a variety of lengths and formats to effectively communicate messages to a range of audiences.
6. Create visually compelling materials to effectively communicate messages to a range of audiences.
7. Apply best practices when utilizing a range of platforms for message delivery.
8. Demonstrate professionalism in written, verbal and nonverbal communications, including maintaining strong ethical principles.

Transfer Students to the School of Media and Journalism

Students transferring credit from another institution may apply a maximum of 12 credit hours of transfer coursework toward their major requirements per the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC) accreditation guidelines.

Full Description

The Bachelor of Science degree in Advertising gives students the chance to connect with people through different media forms, by selecting the right audience, uncovering consumer insights and developing strategic and creative messaging, all with a digital-first mindset. Curriculum focuses on the advertising industry and the social responsibilities associated with this exciting form of persuasive media.

Coursework is supplemented with an internship. Other opportunities for experience include news, production, management, sales, performance and advertising positions with Kent State's award-winning student media. Students also have the opportunity to get involved with the Kent State University chapter of the American Advertising Federation (AAF). AAF gives students the opportunity to network, develop their professional skills, and prepare for a career in this exciting field. Students teams also have the chance to participate in national competitions and make professional connections in the Franklin Advertising student group.

Students graduate ready for a career planning, buying and creating materials for digital and traditional outlets.

Students may apply early to the following master's degree programs and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

- Communication Studies - M.A.
- Emerging Media and Technology - M.S.
- Health Informatics - M.S.
- Library and Information Science - M.L.I.S.
- User Experience - M.S.
- Visual Communication Design - M.A.

Advertising - Minor

College of Communication and Information
School of Media and Journalism
www.kent.edu/mdj

About This Program

The Advertising minor provides students with an overview of the different roles advertising plays in society. Students gain an understanding of social, legal and marketing considerations in advertising and how branding is created through media and creative strategies to persuade a designated target audience.

Students in the minor have the opportunity to get involved with the Kent State University chapter of the American Advertising Federation (AAF). AAF gives students the opportunity to network, develop their professional skills and prepare for a career in this exciting field.

Contact Information

- **Emily Metzgar** | mdj@kent.edu | 330-672-2572
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

To declare the Advertising minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
EMAT 10310	MY STORY ON THE WEB	3
MDJ 20004	ADVERTISING WRITING AND STORYTELLING	3
MDJ 20008	RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS	3
MDJ 21001	PRINCIPLES OF ADVERTISING	3
MDJ 31011	ADVERTISING STRATEGY DEVELOPMENT	3
Advertising Elective, choose from the following:		3
MDJ 31002	ADVERTISING COPYWRITING (WIC)	
MDJ 31003	ADVERTISING MEDIA PLANNING	
MDJ 31004	DIGITAL ADVERTISING	
MDJ 40295	SELECTED TOPICS IN MEDIA AND JOURNALISM	
MDJ 41395	SELECTED TOPICS IN ADVERTISING AND PUBLIC RELATIONS	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze audiences using primary and secondary research.
2. Craft well written material in a variety of lengths and formats to effectively communicate messages to a range of audiences.
3. Apply strategic thinking and planning for advertising campaigns.

Digital Media Production - B.S.

College of Communication and Information
School of Media and Journalism
www.kent.edu/mdj

About This Program

The Bachelor of Science in Digital Media Production provides you with the knowledge and skills needed to thrive in the dynamic film, TV, and digital storytelling industries. With hands-on experiences and expert faculty, you'll develop a strong foundation in all phases of media-making production and gain the skills to succeed in a variety of industry roles. Read more...

Contact Information

- **Emily Metzgar** | mdj@kent.edu | 330-672-2572
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Audio and video technicians

- 12.3% much faster than the average
- 91,800 number of jobs
- $47,920 potential earnings

Broadcast technicians

- 3.1% about as fast as the average
- 32,700 number of jobs
- $43,570 potential earnings

Camera operators, television, video, and film

- 14.0% much faster than the average
- 29,700 number of jobs
- $57,200 potential earnings

Film and video editors

- 21.6% much faster than the average
- 38,300 number of jobs
- $67,250 potential earnings

Producers and directors

- 10.0% much faster than the average
- 159,500 number of jobs
- $76,400 potential earnings

Special effects artists and animators

- 4.1% about as fast as the average
- 67,500 number of jobs
- $77,700 potential earnings

Accreditation

Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) (min C- grade is required in all courses) [1]		
MDJ 10009	ELEMENTS OF FILM, TV AND ANIMATION	3
MDJ 13001	PRODUCTION SAFETY AND SET PROTOCOL	2
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
MDJ 20011	PRODUCTION FUNDAMENTALS	3
MDJ 23004	STORY FOR PICTURE	3
MDJ 23130	DIRECTING FOR PICTURE	3
MDJ 30036	DIGITAL VIDEO EDITING	3
MDJ 33007	PRODUCING FOR PICTURE	3
MDJ 33033	SOUND FOR PICTURE	3
MDJ 33043	DIGITAL CINEMATOGRAPHY	3
MDJ 34140	PRODUCTION I	3
MDJ 40006	LAW OF MEDIA AND JOURNALISM	3
MDJ 40010	ETHICS AND ISSUES IN MEDIA AND JOURNALISM (WIC) [2]	3
MDJ 40027	RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES (DIVD)	3
MDJ 40092	INTERNSHIP (ELR)	1
MDJ 49099	PRODUCTION II (ELR)	3
Advanced Skills Electives, choose from the following:		6
MDJ 33042	STUDIO TELEVISION	
MDJ 34036	MULTIMEDIA ENGINEERING	
MDJ 36020	AUDIO STORYTELLING AND PODCASTING I	
MDJ 40037	SCRIPTWRITING FOR VIDEO AND FILM	
MDJ 40295	SELECTED TOPICS IN MEDIA AND JOURNALISM	
MDJ 43034	ADVANCED CINEMATOGRAPHY	
MDJ 43395	SELECTED TOPICS IN DIGITAL MEDIA PRODUCTION	
MDJ 44036	ADVANCED VIDEO EDITING	
MDJ 44050	POST-PRODUCTION SOUND	
MDJ 44055	SUAS AERIAL CINEMATOGRAPHY	

MDJ 45001	ADVANCED LIGHTING FOR DIGITAL FILM AND TELEVISION	
MDJ 46030	AUDIO STORYTELLING AND PODCASTING II	
MDJ 46057	MOTION GRAPHICS FOR VIDEO EDITING	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
College of Communication and Information Core Electives, choose from the following:		9
CCI 10095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40089	BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR)	
CCI 40095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40189	ITALIAN POP CULTURE (DIVG) (ELR)	
CCI 40289	ITALIAN CINEMA (DIVG) (ELR)	
CCI 40389	DOCUMENTARY FILMMAKING (DIVG) (ELR)	
CCI 40489	MULTIMEDIA EXPERIENTIAL LEARNING (DIVG) (ELR)	
CCI 45089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
CCI 46089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
EMAT 25310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
VCD 13000	VISUAL DESIGN THINKING	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [3]		26
Minimum Total Credit Hours:		**120**

[1] Students transferring credit from another institution may apply a maximum of 12 credit hours of transfer coursework toward their major requirements per the Accrediting Council on Education in Journalism and Mass Communications guidelines.

[2] A minimum C grade must be earned to fulfill the writing-intensive requirement. If course is not being used to fulfill the writing-intensive requirement, a minimum grade of C- must be earned.

[3] A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

Progression Requirements

- No grade lower than a C- in a MDJ course will be counted toward graduation or as a prerequisite for a subsequent class.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	MDJ 10009	ELEMENTS OF FILM, TV AND ANIMATION	3
	MDJ 13001	PRODUCTION SAFETY AND SET PROTOCOL	2
	MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Two		
!	MDJ 20011	PRODUCTION FUNDAMENTALS	3
!	MDJ 23004	STORY FOR PICTURE	3
	College of Communication and Information Core Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	MDJ 23130	DIRECTING FOR PICTURE	3
	MDJ 30036 or MDJ 33033 or MDJ 33043	DIGITAL VIDEO EDITING or SOUND FOR PICTURE or DIGITAL CINEMATOGRAPHY	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		1
		Credit Hours	**16**
	Semester Four		
	MDJ 30036 or MDJ 33033 or MDJ 33043	DIGITAL VIDEO EDITING or SOUND FOR PICTURE or DIGITAL CINEMATOGRAPHY	3
	MDJ 34140	PRODUCTION I	3
	College of Communication and Information Core Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		1
		Credit Hours	**16**
	Semester Five		
	MDJ 30036 or MDJ 33033 or MDJ 33043	DIGITAL VIDEO EDITING or SOUND FOR PICTURE or DIGITAL CINEMATOGRAPHY	3
	Advanced Skills Elective		3
	Kent Core Requirement		3

	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Six		
	MDJ 33007	PRODUCING FOR PICTURE	3
	MDJ 40006	LAW OF MEDIA AND JOURNALISM	3
	MDJ 40027	RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES (DIVD)	3
	College of Communication and Information Core Elective		3
	General Electives		3
		Credit Hours	**15**
	Third Summer Term		
	MDJ 40092	INTERNSHIP (ELR)	1
		Credit Hours	**1**
	Semester Seven		
	MDJ 40010	ETHICS AND ISSUES IN MEDIA AND JOURNALISM (WIC)	3
	Advanced Skills Elective		3
	General Electives		9
		Credit Hours	**15**
	Semester Eight		
	MDJ 49099	PRODUCTION II (ELR)	3
	General Electives		9
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Collaborate as a member of an interdisciplinary, creative team.
2. Demonstrate proficiency in writing and a combination of the following skills needed to craft a story in multiple genres: cinematography, sound, editing and producing.
3. Apply the theories and practices of multimedia storytelling and production.
4. Research, plan and create original multimedia storytelling projects.
5. Demonstrate an understanding of both the history of diversity, equity, and inclusion in the industry and of our responsibility to create a more diverse, equitable and inclusive industry.
6. Demonstrate an understanding of professional protocols, as well as legal and ethical principles and practices.

Transfer Students to the School of Media and Journalism

Students transferring credit from another institution may apply a maximum of 12 credit hours of transfer coursework toward their major requirements per the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC) accreditation guidelines.

Full Description

The Bachelor of Science degree in Digital Media Production educates students to create exciting fiction and non-fiction content for delivery in today's most in-demand formats. Whether they want to produce the next award-winning narrative film or documentary, live television sports or event coverage, streaming television series, reality show or podcast, students learn from seasoned professionals using industry standard technology to tell their stories on screens big or small.

Many opportunities exist to collaborate with students from theatre and dance, game design, science, music, art, fashion and technology during the production of live TV, short films, audio series, documentaries and animated works.

Students also have the chance to work with Kent State's TeleProductions operations, the nationally recognized Student Media outlets at the School, and even NPR affiliate WKSU.

With the added professional experience students earn from the required internship, they graduate ready to play a leading role in the entertainment industry of tomorrow.

Students may apply early to the following master's degree programs and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

- Master of Arts degree in Communication Studies
- Master of Arts degree in Visual Communication Design
- Master of Library Information Science degree in Library and Information Science
- Master of Science degree in Emerging Media and Technology
- Master of Science degree in Health Informatics
- Master of Science degree in Knowledge Management
- Master of Science degree in User Experience

Digital Media Production - Minor

College of Communication and Information
School of Media and Journalism
www.kent.edu/mdj

About This Program

The Digital Media Production minor provides the opportunity for students to learn fundamental knowledge and skills of production, including writing, camera, sound, editing and digital storytelling. With hands-on experiences and expert faculty, students develop a strong foundation and gain the skills needed to succeed in a variety of industries.

Contact Information

- **Emily Metzgar** | mdj@kent.edu | 330-672-2572
- Speak with an Advisor
  - Kent Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Digital Media Production minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
MDJ 10009	ELEMENTS OF FILM, TV AND ANIMATION	3
MDJ 13001	PRODUCTION SAFETY AND SET PROTOCOL	2
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
MDJ 20011	PRODUCTION FUNDAMENTALS	3
MDJ 23004	STORY FOR PICTURE	3
Minor Electives, choose from the following:		6
MDJ 30036	DIGITAL VIDEO EDITING	
MDJ 33033	SOUND FOR PICTURE	
MDJ 33043	DIGITAL CINEMATOGRAPHY	
Minimum Total Credit Hours:		**20**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Recognize best practices in media production.
2. Develop professional skills.
3. Express themselves across disciplines in a variety of professional settings.

Fashion Media - Minor

College of Communication and Information
School of Media and Journalism
College of the Arts
School of Fashion Design and Merchandising
www.kent.edu/mdj

About This Program

The Fashion Media minor offers a unique blend of coursework in fashion, journalism and multimedia. Media and journalism students can enroll in the fashion track to learn about the fashion branding and publishing industry. Fashion merchandising students take the media track to learn about fashion media and storytelling. Read more...

Contact Information

- **Emily Metzgar** | mdj@kent.edu | 330-672-2572
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to the minor is selective, open only to students declared in the Fashion Merchandising major or in a major in the School of Media and Journalism.

To declare the Fashion Media minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
or FDM 35280	FASHION ENTREPRENEURSHIP	
FDM 10010	FASHION FUNDAMENTALS	3
MDJ 41111	FASHION PUBLISHING	3
Media Track or Fashion Track, choose from the following:		15
Media Track for Students Declared in Fashion Merchandising Major		
EMAT 10310	MY STORY ON THE WEB	
FDM 35080	FASHION IN THE MEDIA [1]	
or MDJ 46020	MAGAZINE DESIGN	
MDJ 21008	SOCIAL MEDIA STRATEGIES	
MDJ 26001	WRITING FOR MEDIA	
VCD 47000	VISUAL DESIGN FOR MEDIA	
Fashion Track for Students Declared in Major in School of Media and Journalism		
FDM 25011	FASHION BRANDING	
FDM 35010	CONTEMPORARY FASHION DESIGNERS (WIC)	
FDM 35011	FASHION FORECASTING	
FDM 35080	FASHION IN THE MEDIA [1]	
FDM 45590	STUDY TOUR FOR NYC STUDIO STUDENTS (ELR)	
Minimum Total Credit Hours:		**24**

[1] FDM 35080 must be taken in New York City only.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

For fashion merchandising students, the minor better prepares them to understand their industry from the media perspective. For media and journalism, the minor exposes them to the fashion publishing industry to better prepare them for work in this business.

Full Description

The Fashion Media minor is for students studying either fashion merchandising or a major in the school of media and journalism.

Fashion merchandising students take the Media Track to learn about the fashion media and better prepare them to understand this industry. The track includes a trip to New York City as a requirement.

Media and Journalism students take the Fashion Track to learn about the fashion publishing industry to better prepare them for work in this business. The track includes the possibility of a trip to New York City to study fashion media.

Journalism - B.S.

College of Communication and Information
School of Media and Journalism
www.kent.edu/mdj

About This Program

At Kent State, journalism students learn how to cover real stories that make a difference. Whether using a camera, a microphone, a smartphone or a laptop, you'll develop critical skills to tell stories in all forms. You will graduate prepared to continue as a journalist or apply these skills to other professions that value critical thinking, information gathering and the ability to make sense of it for others. Read more...

Contact Information

- **Emily Metzgar** | mdj@kent.edu | 330-672-2572
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- Editor, copy editor or fact-checker
- Magazine writer/reporter
- Photojournalist or multimedia journalist
- Podcaster or radio host
- Reporter/journalist for web, television, audio, and newspaper
- Sports broadcaster or sportswriter
- Television anchor
- Television news producer

Accreditation

Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) (min C- grade required in all courses) [1]		
EMAT 10310	MY STORY ON THE WEB	3
or MDJ 20011	PRODUCTION FUNDAMENTALS	
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
MDJ 26001	WRITING FOR MEDIA	3
MDJ 26005	MULTIMEDIA JOURNALISM	3
MDJ 26007	REPORTING	3
or MDJ 26008	BROADCAST REPORTING	
MDJ 40006	LAW OF MEDIA AND JOURNALISM	3
MDJ 40010	ETHICS AND ISSUES IN MEDIA AND JOURNALISM (WIC) [2]	3
MDJ 40027	RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES (DIVD)	3
MDJ 40092	INTERNSHIP (ELR)	1
Major Electives, choose from the following: [3]		18
CCI 12001	PHOTOGRAPHY	
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	
MDJ 22004	VISUAL STORYTELLING	
MDJ 26007	REPORTING	
MDJ 26008	BROADCAST REPORTING	
MDJ 32001	PHOTOJOURNALISM I	
MDJ 33024	ON-CAMERA TECHNIQUES FOR MEDIA PROFESSIONALS	
MDJ 33042	STUDIO TELEVISION	
MDJ 36005	EDITING	
MDJ 36008	FREELANCE JOURNALISM	
MDJ 36010	INTERVIEWING AND DATA FOR JOURNALISTS	
MDJ 36018	FEATURE WRITING	
MDJ 36020	AUDIO STORYTELLING AND PODCASTING I	
MDJ 40017	MEDIA ENTERPRISE	
MDJ 40295	SELECTED TOPICS IN MEDIA AND JOURNALISM	
MDJ 41111	FASHION PUBLISHING	
MDJ 43035	ADVANCED MULTIMEDIA NEWS	
MDJ 46003	PRODUCING TELEVISION NEWS	
MDJ 46009	REPORTING PUBLIC POLICY	
MDJ 46020	MAGAZINE DESIGN	
MDJ 46021	ADVANCED MAGAZINE WRITING	
MDJ 46395	SELECTED TOPICS IN JOURNALISM	
Advanced Major Electives, choose from the following: [4]		6
MDJ 32002	PHOTOJOURNALISM II	
MDJ 40017	MEDIA ENTERPRISE	
MDJ 40295	SELECTED TOPICS IN MEDIA AND JOURNALISM	
MDJ 43035	ADVANCED MULTIMEDIA NEWS	
MDJ 46009	REPORTING PUBLIC POLICY	
MDJ 46021	ADVANCED MAGAZINE WRITING	
MDJ 46030	AUDIO STORYTELLING AND PODCASTING II	
MDJ 46395	SELECTED TOPICS IN JOURNALISM	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
College of Communication and Information Core Electives, choose from the following:		9
CCI 10095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40089	BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR)	
CCI 40095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40189	ITALIAN POP CULTURE (DIVG) (ELR)	
CCI 40289	ITALIAN CINEMA (DIVG) (ELR)	
CCI 40389	DOCUMENTARY FILMMAKING (DIVG) (ELR)	
CCI 40489	MULTIMEDIA EXPERIENTIAL LEARNING (DIVG) (ELR)	
CCI 45089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	

CCI 46089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
EMAT 25310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
VCD 13000	VISUAL DESIGN THINKING	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [5]		28
Minimum Total Credit Hours:		**120**

1 Students transferring credit from another institution may apply a maximum of 12 credit hours of transfer coursework toward their major requirements per the Accrediting Council on Education in Journalism and Mass Communications guidelines.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement. If the course is not being used to fulfill the writing-intensive requirement, a minimum C- grade must be earned.

3 Courses taken as a Major Requirement may not also count toward Major Electives.

4 Courses taken as Advanced Major Electives may not also count toward Major Electives.

5 A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

Progression Requirements

- No grade lower than a C- in a MDJ course will be counted toward graduation or as a prerequisite for a subsequent class.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
EMAT 10310 or MDJ 20011	MY STORY ON THE WEB or PRODUCTION FUNDAMENTALS	3
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
MDJ 26001	WRITING FOR MEDIA	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
MDJ 26005	MULTIMEDIA JOURNALISM	3
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
MDJ 26007 or MDJ 26008	REPORTING or BROADCAST REPORTING	3
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Four		
Major Electives		6
MDJ 40027	RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES (DIVD)	3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
Major Electives		6
Kent Core Requirement		3
General Elective		6
	Credit Hours	**15**
Semester Six		
Major Electives		6
College of Communication and Information Core Elective		3
Kent Core Requirement		3
General Electives		3
	Credit Hours	**15**
Third Summer Term		
MDJ 40092	INTERNSHIP (ELR)	1
	Credit Hours	**1**
Semester Seven		
MDJ 40006	LAW OF MEDIA AND JOURNALISM	3
Advanced Major Electives		3
General Electives		9
	Credit Hours	**15**
Semester Eight		
MDJ 40010	ETHICS AND ISSUES IN MEDIA AND JOURNALISM (WIC)	3
Advanced Major Elective		3
General Electives		7
	Credit Hours	**13**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduate of this program will be able to:

1. Create news and information content that effectively covers the diversity of groups in a global society and reflects appreciation for individual differences.
2. Utilize appropriate legal and ethical frameworks to guide creation of news and information content.
3. Effectively plan, research, gather, write and produce audience-focused news and information content that has impact.
4. Critically evaluate news and information sources and demonstrate an understanding of the impact media messages have on audiences and society.
5. Use appropriate and relevant technology to create and enhance news and information content and promote it to a variety of audiences.
6. Demonstrate an understanding of the business of media and apply skills in a practical setting.

Transfer Students to the School of Media and Journalism

Students transferring credit from another institution may apply a maximum of 12 credit hours of transfer coursework toward their major requirements per the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC) accreditation guidelines.

Full Description

Journalists are reporters, watchdogs, storytellers. The Bachelor of Science degree in Journalism teaches students how to cover real stories that make a difference. Whether using a camera, a microphone, a smartphone or a laptop, students become journalists by doing journalism inside and outside the classroom.

Gaining critical skills that equip them for storytelling in all its forms, journalism students practice their craft in Kent State's award-winning student media. Working with these outlets, students learn how to engage audiences where they "live," on TV, radio, online, social media and in print.

Journalism students produce news and feature content on visual, digital and emerging platforms, and they apply what they've learned as part of the required professional internship.

With a grounding in ethics and an understanding of media's role in democratic society, students graduate prepared to continue as journalists or apply their skills to other professions that value critical thinking, information gathering and the ability to make sense of it for others.

Students may apply early to the following master's degree programs and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

- Master of Arts degree in Communication Studies
- Master of Arts degree in Visual Communication Design
- Master of Library Information Science degree in Library and Information Science
- Master of Science degree in Emerging Media and Technology
- Master of Science degree in Health Informatics
- Master of Science degree in Knowledge Management
- Master of Science degree in User Experience

Journalism - Minor

College of Communication and Information
School of Media and Journalism
www.kent.edu/mdj

About This Program

Whether using a camera, a microphone, a smartphone or a laptop, the journalism minor helps students develop critical skills that equip them for storytelling in all its forms. With a grounding in ethics and an understanding of media's role in democratic society, students learn the value of critical thinking, information gathering and the ability to make sense of it for others.

Contact Information

- **Emily Metzgar** | mdj@kent.edu | 330-672-2572
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor requirements:		
EMAT 10310	MY STORY ON THE WEB	3
or MDJ 20011	PRODUCTION FUNDAMENTALS	
MDJ 26001	WRITING FOR MEDIA	3
MDJ 26005	MULTIMEDIA JOURNALISM	3
MDJ 26007	REPORTING	3
or MDJ 26008	BROADCAST REPORTING	
Media and Journalism (MDJ) elective, choose from the following:		3
MDJ 36010	INTERVIEWING AND DATA FOR JOURNALISTS	
MDJ 36018	FEATURE WRITING	
MDJ 36020	AUDIO STORYTELLING AND PODCASTING I	
MDJ 33024	ON-CAMERA TECHNIQUES FOR MEDIA PROFESSIONALS	
MDJ 36005	EDITING	
MDJ 36008	FREELANCE JOURNALISM	
MDJ 40010	ETHICS AND ISSUES IN MEDIA AND JOURNALISM (WIC)	
MDJ 46003	PRODUCING TELEVISION NEWS	
MDJ 46395	SELECTED TOPICS IN JOURNALISM	
Additional Elective, choose from the following: [1]		3
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	
EMAT 40999	INTERDISCIPLINARY PROJECTS (ELR)	
MDJ 36010	INTERVIEWING AND DATA FOR JOURNALISTS	
MDJ 36018	FEATURE WRITING	
MDJ 36020	AUDIO STORYTELLING AND PODCASTING I	
MDJ 33024	ON-CAMERA TECHNIQUES FOR MEDIA PROFESSIONALS	
MDJ 36005	EDITING	
MDJ 36008	FREELANCE JOURNALISM	
MDJ 40010	ETHICS AND ISSUES IN MEDIA AND JOURNALISM (WIC)	
MDJ 46003	PRODUCING TELEVISION NEWS	
MDJ 46395	SELECTED TOPICS IN JOURNALISM	
VCD 47000	VISUAL DESIGN FOR MEDIA	
Minimum Total Credit Hours:		**18**

[1] Students must choose a course not already completed from the MDJ Elective list.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Create news and information content to cover the diversity of groups in a global society and reflect appreciation for individual differences.
2. Develop skills in planning, researching, gathering, writing and producing audience-focused news and information content.
3. Critically evaluate news and information sources and demonstrate an understanding of the impact media messages have on audiences and society.

Journalism Education - Graduate Certificate

College of Communication and Information
School of Media and Journalism
www.kent.edu/mdj

About This Program

The Journalism Education graduate certificate is a four-course, fully online pathway to understanding the fundamentals of post-secondary/high school journalism education, from coaching students on media literacy and the role of journalism in a democratic society to advocating for their First Amendment rights. For high school teachers, it's a potential pathway to school districts' continuing education requirements. Read more...

Contact Information

- **Emily Metzgar** | mdj@kent.edu | 330-672-2572
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Communications teachers, postsecondary

- 3.2% about as fast as the average
- 35,600 number of jobs
- $71,030 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 15
- **Spring Semester**
  - Application deadline: November 15
- **Summer Term**
  - Application deadline: March 15

Applications submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
MDJ 60012	MEDIA LAW AND ETHICS	3
MDJ 67067	TEACHING MEDIA LITERACY	3
Certificate Electives, choose from the following:		6
MDJ 60701	ADVISING STUDENT MEDIA	
MDJ 66011	REPORTING, WRITING AND EDITING FOR MEDIA	
MDJ 67075	MEDIA CONTENT CREATION	
MDJ 67087	ADVISING YEARBOOK	
Minimum Total Credit Hours:		**12**

Graduation Requirement

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Recognize and advocate for the importance of journalism education to the future of journalism.
2. Employ best practices in journalism education.
3. Demonstrate fundamental journalism skills through the production of media content.
4. Discuss the fundamentals of media literacy and relate them to the context of journalism education.

Full Description

The Journalism Education graduate certificate is for high school teachers who currently work as advisers in scholastic media programs in their high schools, as well as media professionals seeking to take graduate coursework to facilitate teaching in the post-secondary space. The certificate is fashioned using information and guidelines from the School of Media and Journalism's Center for Scholastic Journalism, a national clearinghouse for information for and about student journalists and their advisers, a research center on issues affecting scholastic media and an advocate for student press freedom.

Coursework in the certificate combines the pedagogy and media content students need and they can take to their classrooms from day one. From coaching a novice journalism student in news norms and routines, to sharing strategies for protecting students' First Amendment rights, students learn what they need to know to be effective journalism educators and advisers at the high school and post-secondary levels.

Students can complete this certificate in as little as two semesters.

Journalism Education - M.A.

College of Communication and Information
School of Media and Journalism
www.kent.edu/mdj

About This Program

The M.A. in Journalism Education is designed for high school teachers and transitioning media professionals. Course content focuses on what teachers and media advisers need to know to be effective journalism educators in the digital age: from the latest technology for multimedia storytelling to strategies to protect students' First Amendment rights. Read more...

Contact Information

- **Emily Metzgar** | mdj@kent.edu | 330-672-2572

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery**
  - Fully Online

Examples of Possible Careers and Salaries*

Communications teachers, postsecondary

- 3.2% about as fast as the average
- 35,600 number of jobs
- $71,030 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or vitae
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 15
- **Spring Semester**
  - Application deadline: November 15
- **Summer Term**
  - Application deadline: March 15

Applications submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Code	Title	Credit Hours
Major Requirements		
MDJ 60011	THEORY AND SOCIETAL ROLE OF MEDIA AND JOURNALISM	3
MDJ 60012	MEDIA LAW AND ETHICS	3
MDJ 60701	ADVISING STUDENT MEDIA	3
MDJ 61001	PRINCIPLES AND PRACTICES OF DIGITAL MEDIA	3
MDJ 66011	REPORTING, WRITING AND EDITING FOR MEDIA	3
MDJ 67067	TEACHING MEDIA LITERACY	3
Major Electives, choose from the following: [1]		12
MDJ 67075	MEDIA CONTENT CREATION	
MDJ 67087	ADVISING YEARBOOK	
LIS 60030	PEOPLE IN THE INFORMATION ECOLOGY	
LIS 60510	DIGITAL TECHNOLOGIES I: DATA FUNDAMENTALS	
LIS 60511	DIGITAL TECHNOLOGIES II: INTERNET FUNDAMENTALS	
LIS 60512	DIGITAL TECHNOLOGIES III: INFORMATION SYSTEMS FUNDAMENTALS	
LIS 60617	INFORMATION LITERACY FOR YOUTH	
LIS 60630	REFERENCE SOURCES AND SERVICES FOR YOUTH	
LIS 60652	FOUNDATIONS OF RECORDKEEPING IN SOCIETY	
LIS 61095	SPECIAL TOPICS IN INFORMATION STUDIES	
UX 60504	ACCESSIBILITY AND UNIVERSAL DESIGN	
Minimum Total Credit Hours:		**30**

[1] This is not an exhaustive list of courses. Students may choose other courses with consultation from their faculty advisor to identify the electives most relevant to their professional goals.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Evidence of the creation of a digital portfolio to showcase students' deliverables and to capture their reflections as they complete the program as approved by graduate coordinator.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Recognize and advocate for the importance of journalism education to the future of journalism.
2. Employ best practices in journalism education.
3. Articulate the role of media in a democratic society.
4. Demonstrate fundamental journalism skills through the production of media content.

5. Analyze and engage with the dynamics of the changing contemporary media environment.
6. Discuss the fundamentals of media literacy and relate them to the context of journalism education.

Full Description

The Master of Arts degree in Journalism Education is intended for those seeking to teach or advise student journalists. The program is affiliated with Kent State's Center for Scholastic Journalism, and faculty include some of the most-recognized high school journalism educators in the country.

The program provides continuing education opportunities to high school teachers who are responsible for teaching and advising an array of student media content, including school social media channels, yearbook, school newspaper, video and photography. The program also serves practicing journalists who are transitioning to teaching in the higher education arena.

The curriculum focuses on foundational knowledge in media and journalism, as well as pedagogical practices that students can apply to secondary and post-secondary teaching environments. The program highlights the core concepts of First Amendment press freedom, media literacy and the role of media in society — scaffolding that knowledge with content creation skills across an array of media platforms. Interwoven with those knowledge areas and skillsets are best practices in the teaching of scholastic media to high school and college students.

Students complete a culminating integrated learning experience through designated course assignments from each of the six core courses. Each of the six assignments give the student the opportunity to create a deliverable suitable for use in a classroom setting such as a lesson plan, class activity, handbook or instruction manual or other asset.

Photojournalism - Minor

College of Communication and Information
School of Media and Journalism
www.kent.edu/mdj

About This Program

Beyond understanding how to use light, lenses, exposure and editing software, students will learn to think like a photojournalist as they tell stories in the visual form and build strong portfolios. Students who minor in Photojournalism are eligible for the Hagedorn Scholarship in Photography, which provides tuition support and funding for enriching, out-of-classroom experiences.

Contact Information

- **Emily Metzgar** | mdj@kent.edu | 330-672-2572
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Photojournalism minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
CCI 12001	PHOTOGRAPHY	3
EMAT 10310	MY STORY ON THE WEB	3
or MDJ 20011	PRODUCTION FUNDAMENTALS	
MDJ 22004	VISUAL STORYTELLING	3
MDJ 32001	PHOTOJOURNALISM I	3
VCD 47000	VISUAL DESIGN FOR MEDIA	3
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Master use of lenses and settings on multiple types of cameras
2. Learn to use natural and artificial lighting for various purposes
3. Learn to shoot a variety of news and feature events
4. Learn historical perspectives and current trends in photojournalism
5. Grow through peer critiques and hands-on shooting demonstrations

Public Relations - B.S.

College of Communication and Information
School of Media and Journalism
www.kent.edu/mdj

About This Program

A public relations major can take you from corporate boardrooms and creative agencies to sports arenas, the halls of Congress, global nonprofits, hospitals, fashion runways and beyond. You can even work from home as a community advocate, consultant or social media influencer. Coursework focuses on developing writing, critical thinking and digital, social media and visual communication skills, as well as analytics and strategic multimedia storytelling. You'll graduate with a grounding in the practice of responsible advocacy and a firm grasp of inclusive communication. Read more...

Contact Information

- **Emily Metzgar** | mdj@kent.edu | 330-672-2572
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Advertising and promotions managers

- -1.1% decline
- 28,600 number of jobs
- $133,460 potential earnings

Meeting, convention, and event planners

- 7.8% faster than the average
- 138,600 number of jobs
- $51,560 potential earnings

Public relations and fundraising managers

- 9.2% much faster than the average
- 88,000 number of jobs
- $118,430 potential earnings

Public relations specialists

- 7.2% faster than the average
- 274,600 number of jobs
- $62,810 potential earnings

Additional Careers

- Community Advocate
- Communications Managers and Crisis Communication Managers
- Content Creators
- Digital communication managers
- Influencer Marketers
- Government Relations/Public Affairs Managers
- Publicists
- Social Media Managers, Analysts, Content Specialists
- Sports public relations coordinators
- Web/Digital Content Producer

Accreditation

Accrediting Council on Education in Journalism and Mass Communications (ACEJMC); Public Relations Society of America (PRSA) - Certification in Education for Public Relations

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Current Kent State Students: Active Kent State students who wish to change their major to Public Relations must have a minimum 2.000 overall GPA to be admitted.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) (min C- grade required in all courses) [1]		
EMAT 10310	MY STORY ON THE WEB	3
or MDJ 20011	PRODUCTION FUNDAMENTALS	
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
MDJ 20008	RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS	3
MDJ 26001	WRITING FOR MEDIA	3
MDJ 26007	REPORTING	3
or MDJ 26008	BROADCAST REPORTING	
MDJ 28001	PRINCIPLES OF PUBLIC RELATIONS	3
MDJ 31007	DIGITAL ANALYTICS IN ADVERTISING AND PUBLIC RELATIONS	2
MDJ 38002	PUBLIC RELATIONS CASE STUDIES	3
MDJ 40011	ETHICAL ISSUES IN INTEGRATED COMMUNICATION	1
MDJ 40016	LAW OF ADVERTISING AND PUBLIC RELATIONS	3
MDJ 40027	RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES (DIVD)	3
MDJ 40092	INTERNSHIP (ELR)	1
MDJ 41199	CAPSTONE: CAMPAIGNS IN ADVERTISING AND PUBLIC RELATIONS (ELR)	3
or MDJ 48099	CAPSTONE: PUBLIC RELATIONS CAMPAIGNS (ELR)	
MDJ 48001	MEDIA RELATIONS AND PUBLICITY (WIC) [2]	3
MDJ 48002	PUBLIC RELATIONS TACTICS	3
MDJ 48003	DIGITAL PUBLIC RELATIONS AND SOCIAL MEDIA	3
MDJ 48006	PUBLIC RELATIONS PUBLICATIONS	3
Media and Journalism Electives, choose from the following:		5
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	
MDJ 21008	SOCIAL MEDIA STRATEGIES	
MDJ 26005	MULTIMEDIA JOURNALISM	
MDJ 40201	PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS	
MDJ 40202	PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION	
MDJ 40295	SELECTED TOPICS IN MEDIA AND JOURNALISM	
MDJ 41111	FASHION PUBLISHING	
MDJ 41192	PRACTICUM IN ADVERTISING AND PUBLIC RELATIONS (ELR)	
MDJ 41395	SELECTED TOPICS IN ADVERTISING AND PUBLIC RELATIONS	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
College of Communication and Information Core Electives, choose from the following:		9
CCI 10095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40089	BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR)	
CCI 40095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40189	ITALIAN POP CULTURE (DIVG) (ELR)	
CCI 40289	ITALIAN CINEMA (DIVG) (ELR)	
CCI 40389	DOCUMENTARY FILMMAKING (DIVG) (ELR)	
CCI 40489	MULTIMEDIA EXPERIENTIAL LEARNING (DIVG) (ELR)	
CCI 45089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
CCI 46089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
EMAT 25310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
VCD 13000	VISUAL DESIGN THINKING	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [3]		26
Minimum Total Credit Hours:		**120**

1 Students transferring credit from another institution may apply a maximum of 12 credit hours of transfer coursework toward their major requirements per the Accrediting Council on Education in Journalism and Mass Communications guidelines.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement. If course is not being used to fulfill the writing-intensive requirement, a minimum C- grade must be earned.

3 A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program. For students interested in developing a global perspective, foreign language courses or any of the following general elective courses are recommended: ANTH 18210, ANTH 48245, COMM 35852, GEOG 22040, MCLS 20091, MUS 22121, PACS 32030, PACS 32040, PH 10002, POL 10500.

Progression Requirements

- No grade lower than a C- in a MDJ course will be counted toward graduation or as a prerequisite for a subsequent class.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
MDJ 26001	WRITING FOR MEDIA	3
MDJ 28001	PRINCIPLES OF PUBLIC RELATIONS	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
EMAT 10310 or MDJ 20011	MY STORY ON THE WEB or PRODUCTION FUNDAMENTALS	3
MDJ 20008	RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS	3
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
MDJ 38002	PUBLIC RELATIONS CASE STUDIES	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Four		
MDJ 26007 or MDJ 26008	REPORTING or BROADCAST REPORTING	3
MDJ 48002 or MDJ 48006	PUBLIC RELATIONS TACTICS or PUBLIC RELATIONS PUBLICATIONS	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
MDJ 31007	DIGITAL ANALYTICS IN ADVERTISING AND PUBLIC RELATIONS	2
MDJ 48002 or MDJ 48006	PUBLIC RELATIONS TACTICS or PUBLIC RELATIONS PUBLICATIONS	3
Media and Journalism Elective		2
Kent Core Requirement		3
General Electives		6
	Credit Hours	**16**
Semester Six		
MDJ 40027	RACE, GENDER, CLASS AND DIS/ABILITY IN MEDIA INDUSTRIES (DIVD)	3
MDJ 48001	MEDIA RELATIONS AND PUBLICITY (WIC)	3
MDJ 48003	DIGITAL PUBLIC RELATIONS AND SOCIAL MEDIA	3
College of Communication and Information Core Elective		3
General Elective		3
	Credit Hours	**15**
Third Summer Term		
MDJ 40092	INTERNSHIP (ELR)	1
	Credit Hours	**1**
Semester Seven		
MDJ 40016 or MDJ 41199 or MDJ 48099	LAW OF ADVERTISING AND PUBLIC RELATIONS or CAPSTONE: CAMPAIGNS IN ADVERTISING AND PUBLIC RELATIONS (ELR) or CAPSTONE: PUBLIC RELATIONS CAMPAIGNS (ELR)	3
Media and Journalism Elective		3
College of Communication and Information Core Elective		3
General Electives		6
	Credit Hours	**15**
Semester Eight		
MDJ 40011	ETHICAL ISSUES IN INTEGRATED COMMUNICATION	1
MDJ 40016 or MDJ 41199 or MDJ 48099	LAW OF ADVERTISING AND PUBLIC RELATIONS or CAPSTONE: CAMPAIGNS IN ADVERTISING AND PUBLIC RELATIONS (ELR) or CAPSTONE: PUBLIC RELATIONS CAMPAIGNS (ELR)	3
General Electives		8
	Credit Hours	**12**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3

Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand global and cross-cultural influences in public relations practice and help drive diversity and inclusion as true organizational values and convey those values to internal and external publics.
2. Critically analyze data and trends and conduct research to inform strategic planning, support organizational objectives and measure return on investment.
3. Be effective strategic communicators and clear, concise writers who are skilled at creating meaningful content across a variety of genres and platforms.
4. Serve as ethical, responsible advocates who advance the public interest and serve as the conscience of an organization.
5. Act as strategic planners with a solid grounding in reputation management, risk and crisis based on public relations and communication theory and who serve as critical and independent thinkers, from research to implementation to evaluation.

Transfer Students to the School of Media and Journalism

Students transferring credit from another institution may apply a maximum of 12 credit hours of transfer coursework toward their major requirements per the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC) accreditation guidelines.

Full Description

The Bachelor of Science degree in Public Relations can take students from corporate boardrooms and creative agencies to sports arenas, the halls of Congress, global nonprofits, hospitals, fashion runways and beyond. Graduates even work from home as a community advocate, consultant or social media influencer.

Kent State boasts the only public relations program in Ohio that is both certified by the Public Relations Society of America (PRSA) and accredited by the Accrediting Council on Education in Journalism and Mass Communication (ACEJMC). Kent State's chapter of the Public Relations Student Society of America (PRSSA) and its members consistently win awards at national conferences, placing the chapter in the top tier nationwide.

Coursework in the Public Relations major focuses on developing skills in writing, critical thinking, digital, social media and visual communication; as well as analytics and strategic multimedia storytelling. Classes routinely involve researching, creating and presenting a public relations plan for real clients. Students learn to deliver messages through social media, websites, podcasts, videos, press releases and other media tools, events, public policy and more. Students build a strong portfolio through hands-on learning opportunities, including two student agencies, a required professional internship and public relations campus jobs. They graduate with a grounding in the practice of responsible advocacy and a firm grasp of inclusive-communication practices.

Students may apply early to the following master's degree programs and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

- Master of Arts degree in Communication Studies
- Master of Arts degree in Visual Communication Design
- Master of Library Information Science degree in Library and Information Science
- Master of Science degree in Emerging Media and Technology
- Master of Science degree in Health Informatics
- Master of Science degree in Knowledge Management
- Master of Science degree in User Experience

Public Relations - Minor

College of Communication and Information
School of Media and Journalism
www.kent.edu/mdj

About This Program

The Public Relations minor offers an overview of public relations practice including writing, campaign planning, event planning, social media strategies, and publications design. Students often combine their interests in public relations with a major in Business, Fashion, Public Health, Sports, Theatre and other disciplines.

Contact Information

- **Emily Metzgar** | mdj@kent.edu | 330-672-2572
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Public Relations minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
EMAT 10310	MY STORY ON THE WEB	3
MDJ 20008	RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS	3
MDJ 21008	SOCIAL MEDIA STRATEGIES	3
MDJ 26001	WRITING FOR MEDIA	3
MDJ 28001	PRINCIPLES OF PUBLIC RELATIONS	3
MDJ 38002	PUBLIC RELATIONS CASE STUDIES	3
MDJ 48002	PUBLIC RELATIONS TACTICS	3
or MDJ 48006	PUBLIC RELATIONS PUBLICATIONS	
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Write in journalism style for print and digital media.
2. Conduct research and develop a public relations plan to address communication challenges and support business and organizational goals.
3. Apply public relations practice and communicate ethically.
4. Implement public face-to-face public relations tactics, like event planning and persuasive presentations, and plan, write and design publications to inform, influence audiences and advocate for social issues, organizations and businesses.
5. Use social media in a strategic way to position and promote businesses, social issues, organizations and individuals.

School of Visual Communication Design

College of Communication and Information
School of Visual Communication Design
241 Taylor Hall
Kent Campus
330-672-7856
vcd@kent.edu
www.kent.edu/vcd

Undergraduate Programs

- Photography - B.F.A.
- User Experience Design - B.S.
- Visual Communication Design - B.A.
- Visual Communication Design - B.F.A.

Minors

- Design
- Photography
- User Experience Design

Graduate Programs

- Visual Communication Design - M.A.
- Visual Communication Design - M.F.A.

School of Visual Communication Design Faculty

- Alenquer, Daniel P. (2019), Professor
- Barness, Jessica S. (2012), Professor, M.F.A., University of Minnesota-Twin Cities, 2012
- Coorey, Jillian S. (2010), Professor, M.F.A., University of Illinois at Chicago, 2010
- Kennedy, Jaime D. (2007), Professor, M.F.A., The Ohio State University, 2006
- Lewis, Chad A. (2017), Assistant Professor, M.F.A., Kent State University, 2016
- Middleton, David A. (1998), Professor, M.A., Kent State University, 1985
- Mooney, Aoife (2013), Associate Professor, M.F.A., Kent State University, 2023
- O'Grady Visocky , Kenneth J. (1997), Professor, M.F.A., Kent State University, 2000
- Rahmati, Hadi (2023), Assistant Professor, M.A., Tarbiat Modares University, 2011
- Rinnert, Gretchen C. (2008), Professor, M.F.A., North Carolina State University at Raleigh, 2008
- Roll, David (2015), Associate Professor, M.A., Kent State University, 2007
- Wilson, David J. (2003), Assistant Professor, M.F.A., Kent State University, 2022

Visual Communication Design (VCD)

VCD 13000 VISUAL DESIGN THINKING 3 Credit Hours
Introduction to design thinking, including the principles, processes and applications, and how to improve an existing product or design a new concept. Students will explore the language of design, how it is influenced by form, content and context. Focus will be placed on design theory, brainstorming, ideation, two-dimensional design, environmental design, typography, illustration, motion, photography and interactive media.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 13001 INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO 3 Credit Hours
An introduction to basic design processes using research, writing, conceptual problem-solving and format organization of two dimensional space utilizing type and imagery. The course structure and projects are designed to challenge the student to manipulate the elements of graphic design in an experimental way, and to develop critical thought and aesthetic response. The projects utilize different compositional elements (abstract shapes, letterforms, images) as a way to learn the basic principles of two-dimensional design—hierarchy, unity, balance, contrast, alignment, repetition. Students will use several methods of design development—sketching, tracing, detailed drawings, computer renderings, research of existing work, class discussions and critiques. Software will be used to develop final compositions.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 17000 COLOR: THEORY AND APPLICATION 3 Credit Hours
This course provides students with an in-depth discovery and application of color theory through practical hands-on experience using paint and collage techniques. A sequence of exercises, problems, and lectures are designed with specific color objectives in mind, providing students with a direct physical experience of color structure and interconnections, and how they impact the eye and mind. Visual examples and media demonstrations, including hand techniques, mixing color, applying paint and exploring cut and torn collage elements are provided to enhance learning objectives and creative outcomes. Projects are based on the relative effects of hue, saturation, color temperature and value. The language of color is both intentional and efficient.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 18002 PHOTOGRAPHY II 3 Credit Hours
Course further develops basic technical information and introduces studio lighting techniques and protocols. The class is studio-based and introduces and explores gaining command of continuous lighting source (LED), composition, studio practices: The technical information will be supplemented with a series of photographic assignments that apply this information.
Prerequisite: CCI 12001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 20010 DESIGN RESEARCH AND METHODS 3 Credit Hours
This course is an introduction to research methods used in the professional practice of visual communication design. Students are exposed to strategies, tactics and frameworks used in the creation of design artifacts. Students will gain an understanding of research strategies, tactics, tools and applied use through a combination of classroom lectures, readings, online forums, homework assignments and group discussion.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 22000 DESIGN/ILLUSTRATION TECHNIQUES I 3 Credit Hours
Introductory course in design/illustration. Object drawing with emphasis toward rendering materials and techniques used in reproduction, perspective, spacial organization and use of reference material.
Prerequisite: VCD 13000; and a minimum B- grade in VCD 13001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 22001 DESIGN/ILLUSTRATION TECHNIQUES II 3 Credit Hours
Continuation of Design Illustration Techniques I foundational drawing and composition skills. Introduction to color theory as it applies to illustration and design. Students explore color mixing and color schemes through traditional watercolor and digital color approaches.
Prerequisite: VCD 22000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 23001 TYPOGRAPHY I 3 Credit Hours
Historical study of letter forms and their application to the development of new forms. Execution and use of letter forms as design elements in layout and illustration using fundamental typographic theories and rules of spatial organization.
Prerequisite: VCD 13000; and a minimum B- grade in VCD 13001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 25000 DESIGN HISTORY AND THEORY 3 Credit Hours
This course is a chronological overview of design history and theory. Together we will examine design history and schools of thought, with a strong focus on the impact of the industrial revolution. We will explore aesthetics and theory and how art, architecture, and craft guilds shaped the modern design profession. Topics include the early alphabet, print, processes, illustration, photography, corporate design, modern design, and the advent of the GUI interface and modern digital design. Students will look at design history starting with the eighteenth century and working our way through the industrial revolution, Dadaism, World War I and II, Postmodernism, the rise of consumerism, social responsibility and the evolving role of the designer. This course has an inclusive perspective of design history, researching beyond the Bauhaus and Swiss perspective, looking at influences from Japan, Brazil, Morocco and Turkey. We will study various design heroes from minority communities and how religion has influenced design. This course also introduces students to female design leaders and their unique contributions to the design profession.
Prerequisite: VCD 13000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 28003 DIGITAL IMAGING I 3 Credit Hours
Designed to give students an intermediate working knowledge of the digital photographic workflow, including intermediate Photoshop editing skills, an overview of Adobe Raw, Bridge and Lightroom along with color calibration and color management tools. Students will complete a series of photographic assignments to which they will apply this information.
Prerequisite: CCI 12001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 28004 PHOTOGRAPHIC PERSPECTIVES 3 Credit Hours
Examines the use of the photographic medium in the context of the commercial marketplace. Discusses the advancement of material processes, provides a comprehensive overview of commercial imagery and market development, examines industry trends, and introduces several theoretical criticisms pertaining to constructed photography.
Prerequisite: Photography major or minor or photo journalism major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 32000 ILLUSTRATION I 3 Credit Hours
Continuation of Design Illustration Techniques I and II with emphasis on technique and creative solutions as they apply to specific illustration areas: narrative, editorial, book, advertising and institutional.
Prerequisite: VCD 20010, VCD 22001 and VCD 33000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 32001 ILLUSTRATION II 3 Credit Hours
Illustration as communication: conceptual problem-solving visualizations of ideas utilizing felt tip markers as the medium of expression.
Prerequisite: VCD 32000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 33000 GRAPHIC DESIGN I 3 Credit Hours
Studio course covering the structuring of two-dimensional communication design utilizing headline, body copy and illustration with the addition of conceptual content. The projects employ systems thinking, utilize design research methods and introduce principles of information design.
Prerequisite: Minimum B- grade in VCD 23001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 33001 GRAPHIC DESIGN II 3 Credit Hours
Continuation of Graphic Design I, utilizing basic layout with emphasis on concept as applied to problem-solving methodologies through a series of exercises and problems.
Prerequisite: VCD 33000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 33101 INTERACTION DESIGN I 3 Credit Hours
The conceptualization and prototyping of interactive experiences.
Prerequisite: EMAT 33310 or VCD 23001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 34004 VISUAL ETHICS 3 Credit Hours
Course topics include the understanding of visual form, the responsibility of the designer, photographer and illustrator, and those working in collaboration with visual communicators. Topics covered include image manipulation, copyright laws, ethical and professional guidelines, sustainable design practices and acting as an advocate of the consumer and audience member. Discussion topics include credibility, dignity and developing a personal philosophy towards visual ethics.
Prerequisite: EMAT 10010 or UXD 20001 or VCD 13000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 34005 ELEMENTS OF BRAND DESIGN 3 Credit Hours
This course is an introduction to the creative process of designing brand communications. Key components include identity elements, packaging programs and other brand experiences.
Prerequisite: VCD 20010 and VCD 22001 and VCD 33000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 38004 ADVANCED PHOTOGRAPHY 3 Credit Hours
Introduction of professional strobe lighting equipment, materials and techniques along with the development of conceptual abilities and problem solving skills as applied to studio portraiture, still life, and location photography. Special lighting equipment and accessories furnished.
Prerequisite: VCD 18002.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 38007 PHOTOGRAPHY TECHNIQUES 3 Credit Hours
Explorations of current influences, innovations and trends in photography. Projects can include interdisciplinary collaborations such as the intersection of photojournalism and commercial photography, architecture and photography and others.
Prerequisite: VCD 48005.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 38011 EDITORIAL PHOTOGRAPHY 3 Credit Hours
This course explores and develops the style and protocols unique to editorial photography. Exploring and understanding visual storytelling; research methods and techniques; differences between advertising, fine art and editorial photography. Course will emphasize multiple styles of editorial work including portraiture, environmental, fashion, studio and location assignments. The importance of design along with critical thinking skills in image creation along with discussion of locations, model releases, editing, captioning, etc. will also be covered.
Prerequisite: VCD 28003 and VCD 38004.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 40035 PROFESSIONAL PORTFOLIO BFA DESIGN 3 Credit Hours
Develop a professional portfolio in design and or illustration through selection and refinement of previously completed classroom work and development of projects in areas of deficiency, with emphasis on organization and presentation. Organization and participation in gallery show at the semester's conclusion.
Prerequisite: Visual communication design major within the bachelor of fine arts (BFA); and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 40053 GLYPHIX RESEARCH LABORATORY 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50053) Professional experience through a research focused design studio. Involves responsibilities and procedures for the research, conceptual development and production of design materials for stakeholders including (but not limited to) businesses, on-campus organizations, nonprofit organizations, charities, art groups and select on-campus research initiatives and departments.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 40089 GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50089) Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience.
Prerequisite: School of visual communication major or minor.
Schedule Type: International Experience, Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

VCD 40095 SPECIAL TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 1-3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50095) Explores topics of special interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

VCD 40096 INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION 1-8 Credit Hours
(Repeatable for a maximum of 16 credit hours)Individual study related to topics of graphic design and illustration approved by and under the direction of a faculty member.
Prerequisite: None.
Schedule Type: Individual Investigation
Contact Hours: 1-8 other
Grade Mode: Standard Letter-IP

VCD 40182 INTERNSHIP PREPARATION: DESIGN, ILLUSTRATION AND PHOTOGRAPHY 2 Credit Hours
Preparation for experience in studio, agency or company involving design, illustration or photography responsibilities and procedures to broaden a student's understanding of the profession through real world job situations. Through this course, students will gain a better understanding of the types of design, illustration and photography internships and jobs; how to develop materials (resume, cover letter, etc.) necessary for an entry level job search; and professional skills necessary for professional practice in design, illustration and photography.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VCD 40192 INTERNSHIP: DESIGN, ILLUSTRATION AND PHOTOGRAPHY (ELR) 1-4 Credit Hours
(Repeatable for credit) Experience in a design, illustration or photography studio, agency or company with responsibilities and to broaden a student's understanding of the profession through a real job situation.
Prerequisite: VCD 40182.
Schedule Type: Practical Experience
Contact Hours: 3-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

VCD 40193 VARIABLE TITLE WORKSHOP IN VISUAL COMMUNICATION DESIGN 1-3 Credit Hours
(Repeatable for credit)Workshop setting dealing with intensive examination of special topics in VCD.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

VCD 40195 SELECTED TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 1-3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50195) Explores selected topics of interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Visual Communication Design majors and minors or Photography majors and minors.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

VCD 40295 SELECTED TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 50295) Explores selected topics of interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Visual Communication Design majors and minors or Photography majors and minors.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42002 EDITORIAL ILLUSTRATION 3 Credit Hours
(Slashed with VCD 52002) Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42003 ADVERTISING ILLUSTRATION 3 Credit Hours
(Slashed with VCD 52003) Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42005 CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE 3 Credit Hours
(Slashed with VCD 52005) Focuses on the application of the fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, advertising, editorial illustration and book illustration.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42006 CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS 3 Credit Hours
(Slashed with VCD 52006) This course focuses on the application of fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, book illustration, advertising, and editorial illustration.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 42007 GRAPHIC NARRATIVE 3 Credit Hours
(Slashed with VCD 52007) This course fuses written and visual content, allowing students to both author and illustrate visual narratives. Through readings, various genres of written form are explored and both historical and emerging narrative formats within the field of illustration are emphasized.
Prerequisite: VCD 22000 and VCD 22001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43002 TYPOGRAPHY II 3 Credit Hours
(Slashed with VCD 53002) The use of typography (rather than visual imagery) as the primary design form in solving graphic design communication problems.
Prerequisite: VCD 33001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43003 IDENTITY SYSTEMS 3 Credit Hours
(Slashed with VCD 53003) This course is an in-depth investigation into the development of identity systems as a foundational visual design framework for communications. This includes the study of design of type, symbols, and pictorial elements as both singular marks and as a system. This is followed by the design of an overall communications program. The final product includes the documentation of design guidelines, through a rigorous process of research and analysis, creative ideation and design development.
Prerequisite: VCD 33001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43004 PROFESSIONAL COMMUNICATION FOR DESIGN 3 Credit Hours
(Slashed with VCD 53004) Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 43005 INTEGRATED BRAND DESIGN 3 Credit Hours
(Slashed with VCD 53005) This course explores the design and development of a comprehensive brand program. From design strategy and identity elements through a range of tactical applications and environments, it results in the documentation of an integrated brand program.
Prerequisite: VCD 34005.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43006 BRAND EXPERIENCES 3 Credit Hours
(Slashed with VCD 53006) This course investigates the unique design opportunities of communications in the built environment. It includes interpretive storytelling, identity, wayfinding, and placemaking and promotion for a variety of communication needs. Considerations include human scale, dimension, legibility, materiality, and fabrication. It follows a process of research and analysis, strategy, ideation, design development, and design intent documentation. Projects are often site specific and sometimes executed in small teams.
Prerequisite: VCD 34005.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43007 INFORMATION DESIGN 3 Credit Hours
(Slashed with VCD 53007) This course is an introduction to data visualizations and sequence-based information visualization. Students will focus on how design principles use composition, graphics, color, and typography to create news graphics; maps, charts, tables, and diagrams. Deliverables in this course will be both static and digital-based artifacts. Students must have intermediate knowledge in visual communication design (typography, color, composition, etc.) and skills in using Adobe Creative Suite (Illustrator, Photoshop, and InDesign). It is helpful if students have experience using Adobe Affects and have web design skills.
Prerequisite: EMAT 33310 or VCD 13001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43051 TYPE HIGH PRESS 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 53051) Students will explore aspects of letterpress printing. Course content will include typesetting, printing basics, and a brief history of movable type printing and typography. Students will work on a series of projects to acclimate themselves to the equipment and various printing techniques.
Prerequisite: VCD 33000.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43060 TYPEFACE DESIGN 3 Credit Hours
(Slashed with VCD 53060) This course will serve as an introduction to the core principles of typeface design. It is a fast paced and challenging course with a requirement for a high level of engagement and research on the part of the student. Building on skills learned in other VCD classes, this is an advanced level course dealing with the underlying themes in typeface design and their relationship to the typographer's needs.
Prerequisite: VCD 23001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 43101 INTERACTION DESIGN II 3 Credit Hours
(Slashed with VCD 53101) Students will continue their study of interaction design by working on two projects and two exercises. They will work to develop the content, to compile user research, structure the information architecture, design the interface and prototype their concepts. Students are encouraged to focus on a specific context and audience while demonstrating its use in a final prototype that represents a pathway of experience. Students will focus on the designer's role in the development of interactive spaces and communities, as well as the interdisciplinary exchange with other professionals (computer programmers, software developers, and marketing professionals). We will study human-computer interaction and focus on the needs of the user to create the best user experience. When possible, students will work on real-world projects that allow for collaboration with programmers and developers.
Prerequisite: VCD 33101.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 44001 EXHIBITION DESIGN 3 Credit Hours
The study of content, narrative development, consideration of space, and the use of materials and media in environmental and exhibition design. Includes working in scale, 2D and 3D rendering, physical and digital modeling.
Prerequisite: VCD 34005.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 44006 MOTION DESIGN I 3 Credit Hours
A studio course designed to teach the fundamentals of motion graphic design. Materials and information are delivered through a series of lectures, demos and hands-on exercises.
Prerequisite: EMAT 33310 or UXD 20001 or VCD 13001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 46003 EXPERIMENTAL TYPOGRAPHY 3 Credit Hours
(Slashed with VCD 56003) This course uses typography as an instrument for conceptual and creative expression and communication. Projects emphasize typographic research, process, experimentation and interpretation. Artifacts can range from screen-based solutions, print pieces, 3D experiences and more, with a strong emphasis on type.
Prerequisite: VCD 33001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter-IP

VCD 47000 VISUAL DESIGN FOR MEDIA 3 Credit Hours
(Slashed with VCD 57000) Apply design concepts to digitally-generated communication using a layout software program. This course is a survey of the basic principles of two-dimensional design, typography, design concepts and color theory. Class projects enable the student to explore visual design principles and processes, develop critical thinking about aesthetics and reflect on the impact of design on the users' comprehension and response. This course may not be used towards degree requirements by visual communication design majors.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

VCD 48001 PHOTOGRAPHIC PROJECT 3 Credit Hours
Provides students the opportunity to conceptualize, organize and produce a semester-long photographic project of their choice under the supervision of the course instructor. Projects will augment students' existing photographic portfolios.
Prerequisite: Photography major; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48002 ADVANCED PHOTOGRAPHIC PROJECT 3 Credit Hours
Continuation of VCD 48001. Each student will conceptualize, organize and produce a semester-long photographic project of their choice under the supervision of the course instructor. Projects will augment students' existing photographic portfolios.
Prerequisite: VCD 48001.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48003 PROFESSIONAL PORTFOLIO PHOTOGRAPHY 3 Credit Hours
Students will create personal, professional portfolios (electronic and hard copy) developed through branding and identity explorations. Each portfolio will be a blend of the student's best work and career path desires and expressed through sophisticated grinding and design principles. Students will also develop and hang an exhibition of their student work in the Taylor Hall art gallery.
Prerequisite: Photography major; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48005 COLOR PHOTOGRAPHY 3 Credit Hours
This course introduces students to the technical and aesthetic considerations of color theory and practice in color photography. The main objective of the course is to combine an in-depth study of color theory with theoretical and practice-based systems and other color theory explorations. The course will also cover the technical aspects of color in photography, including management, implementation, color temperature, and digital color correction. Students will use these skills, their own research and lecture information and utilize them through a series of technical and aesthetic assignments to their own images created specifically for this course.
Prerequisite: VCD 28003 and VCD 38004.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48008 ADVANCED DIGITAL IMAGING 3 Credit Hours
This course emphasizes advanced techniques in the use of image editing software to develop workflow techniques and post-production and editing skills. Technical information will be supplemented with a series of photographic assignments that explore advanced application and usage of tools and skills covered as well as new Additional explorations into current digital technologies such as virtual reality, CGi generated imagery and compositing with made photography, Advanced compositing of multiple shoots into cohesive wholes, etc. Software used includes Photoshop, Lightroom, and Capture One Pro.
Prerequisite: VCD 28003 and VCD 38004.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48009 FASHION PHOTOGRAPHY 3 Credit Hours
Emphasis on editorial and advertising fashion photography. Students will explore: Fashion shoot protocols and techniques; Studio and Location Lighting Techniques, History and Theory of Fashion Photography, Fashion Shoot management. In partial collaboration with Fashion School BFA students along with live models on both studio and location shoots. The technical information will be supplemented with a series of photographic project assignments both in studio and on location.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48010 ARCHITECTURAL PHOTOGRAPHY 3 Credit Hours
(Slashed with VCD 58010) The course introduces and develops professional practice and techniques for expressing exterior and interior architectural space including image capture, composition, lighting, staging, technical and esthetic considerations, post-production, camera functionality, among others. Other explorations include Art in Architectural Photography and the Architectural Documentary. DSLR camera or equivalent is needed for this course. Refer to Recommended Camera List for suggestions, provided within syllabus.
Prerequisite: Junior standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 48092 PRACTICUM IN PHOTOGRAPHY (ELR) 1-3 Credit Hours
(Repeatable for a total of 10 hours) Individual or group investigation into student selected areas of photographic field.
Prerequisite: Photography or visual communication design major; and junior and senior standing.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

VCD 49198 WRITING FOR PROFESSIONAL PRACTICE (ELR) (WIC) 2 Credit Hours
Course explores writing for creative professionals, including designers, photographers and illustrators. Students define and practice writing in the academic setting and the professional arena. Students practice writing creative briefs, proposals and contracts. They also develop estimates and grant proposals in order to secure funding and determine budgets. At the end of the semester, students practice presenting ideas through writing and oral presentations. Students are encouraged to combine course efforts by writing about a senior capstone project, an individual investigation or another project in an upper-level studio course. Writing about current or recent work helps students apply writing techniques in concrete and tangible scenarios.
Prerequisite: Senior standing.
Pre/corequisite: VCD 34004.
Schedule Type: Research
Contact Hours: 2 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement, Writing Intensive Course

VCD 49199 CAPSTONE PROJECT (ELR) 3 Credit Hours
(Repeatable for credit) A capstone project in design, illustration, or photography structured by the student (with approval by faculty), culminating in a final presentation or exhibit.
Prerequisite: VCD 13001; and senior standing.
Schedule Type: Lecture, Combined Lecture and Studio, Project or Capstone, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

VCD 50053 GLYPHIX RESEARCH LABORATORY 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40053) Professional experience through a research focused an internal design studio. Involves responsibilities and procedures for the research, conceptual development and production of design communication materials for stakeholders off-campus clients including (but not limited to) businesses, on-campus nonprofit organizations, nonprofit organizations, charities, art arts groups and selected on- campus groups and select on-campus research initiatives and departments.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 50089 GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40089) Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience.
Prerequisite: Visual Communication Design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 50092 INTERNSHIP-GRAPHIC DESIGN AND ILLUSTRATION 1-6 Credit Hours
(Repeatable for credit)Experience in design studio, agency or company involving design responsibilities and procedures to broaden a student's understanding of the profession through a real job situation.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 50095 SPECIAL TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 1-3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40095) Explores topics of special interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

VCD 50193 VARIABLE TITLE WORKSHOP IN VCD 1-3 Credit Hours
(Repeatable for credit) Workshop setting dealing with intensive examination of special topics in VCD.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

VCD 50195 SELECTED TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 1-3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40195) Explores selected topics of interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

VCD 50295 SELECTED TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 40295) Explores selected topics of interest in design, illustration, and photography not covered in existing courses. Not offered every semester; the topic is announced when the course is scheduled.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52002 EDITORIAL ILLUSTRATION 3 Credit Hours
(Slashed with VCD 42002) Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52003 ADVERTISING ILLUSTRATION 3 Credit Hours
(Slashed with VCD 42003) Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52005 CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE 3 Credit Hours
(Slashed with VCD 42005) Focuses on the application of the fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, advertising, editorial illustration and book illustration. Students must demonstrate proficiency in drawing to register for this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52006 CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS 3 Credit Hours
(Slashed with VCD 42006) This course focuses on the application of fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, book illustration, advertising, and editorial illustration.
Prerequisite: Master of fine arts (MFA) or master of arts (MA) in visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 52007 GRAPHIC NARRATIVE 3 Credit Hours
(Slashed with VCD 42007) This course fuses written and visual content, allowing students to both author and illustrate visual narratives. Through readings, various genres of written form are explored and both historical and emerging narrative formats within the field of illustration are emphasized.
Prerequisite: Master of fine arts (MFA) or master of arts (MA) in visual communication design (VCD); and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53000 STUDIO PRODUCTION 3 Credit Hours
A technical lecture course designed to teach the fundamental techniques and processes of electronic prepress and printing production. This material is presented through a series of lectures, demos, written tests and field trips.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 53002 TYPOGRAPHY II 3 Credit Hours
(Slashed with VCD 43002) The use of typography (rather than visual imagery) as the primary design form in solving graphic communication problems.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53003 IDENTITY SYSTEMS 3 Credit Hours
(Slashed with VCD 43003) This course is an in-depth investigation into the development of identity systems as a foundational visual design framework for communications. This includes the study of design of type, symbols and pictorial elements as both singular marks and as a system. This is followed by the design of an overall communications program. The final product includes the documentation of design guidelines, through a rigorous process of research and analysis, creative ideation and design development.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53004 PROFESSIONAL COMMUNICATION FOR DESIGN 3 Credit Hours
(Slashed with VCD 43004) Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 53005 INTEGRATED BRAND DESIGN 3 Credit Hours
(Slashed with VCD 43005) This course explores the design and development of a comprehensive brand program. From design strategy and identity elements through a range of tactical applications and environments, it results in the documentation of an integrated brand program.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53006 BRAND EXPERIENCES 3 Credit Hours
(Slashed with VCD 43006) This course investigates the unique design opportunities of communications in the built environment. It includes interpretive storytelling, identity, wayfinding and placemaking and promotion for a variety of communication needs. Considerations include human scale, dimension, legibility, materiality, and fabrication. It follows a process of research and analysis, strategy, ideation, design development and design intent documentation. Projects are often site specific, and sometimes executed in small teams.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53007 INFORMATION DESIGN 3 Credit Hours
(Slashed with VCD 43007) This course is an introduction to data visualizations and sequence-based information visualization. Students will focus on how design principles use composition, graphics, color, and typography to create news graphics; maps, charts, tables, and diagrams. Deliverables in this course will be both static and digital-based artifacts. Students must have intermediate knowledge in visual communication design (typography, color, composition, etc.) and skills in using Adobe Creative Suite (Illustrator, Photoshop, and InDesign). It is helpful if students have experience using Adobe Affects and have web design skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53051 TYPE HIGH PRESS 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 43051) Students will explore aspects of letterpress printing. Course content will include typesetting, printing basics, and a brief history of movable type printing and typography. Students will work on a series of projects to acclimate themselves to the equipment and various printing techniques.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53060 TYPEFACE DESIGN 3 Credit Hours
(Slashed with VCD 43060) This course will serve as an introduction to the core principles of typeface design. It is a fast paced and challenging course with a requirement for a high level of engagement and research on the part of the student. Building on skills learned in other VCD classes, this is an advanced level course dealing with the underlying themes in typeface design and their relationship to the typographer's needs.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 53101 INTERACTION DESIGN II 3 Credit Hours
(Slashed with VCD 43101) Students will continue their study of interaction design by working on two projects and two exercises. They will work to develop the content, to compile user research, structure the information architecture, design the interface and prototype their concepts. Students are encouraged to focus on a specific context and audience while demonstrating its use in a final prototype that represents a pathway of experience. Students will focus on the designer's role in the development of interactive spaces and communities, as well as the interdisciplinary exchange with other professionals (computer programmers, software developers, and marketing professionals). We will study human-computer interaction and focus on the needs of the user to create the best user experience. When possible, students will work on real-world projects that allow for collaboration with programmers and developers
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 54006 MOTION DESIGN I 3 Credit Hours
(Slashed with VCD 44006) A studio course designed to teach the fundamentals of motion graphic design. Materials and information are delivered through a series of lectures, demos and hands-on exercises.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 56003 EXPERIMENTAL TYPOGRAPHY 3 Credit Hours
(Slashed with VCD 46003) This course uses typography as an instrument for conceptual and creative expression and communication. Projects emphasize typographic research, process, experimentation and interpretation. Artifacts can range from screen-based solutions, print pieces, 3D experiences, and more, with a strong emphasis on type.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter-IP

VCD 57000 VISUAL DESIGN FOR MEDIA 3 Credit Hours
(Slashed with VCD 47000) Apply design concepts to digitally-generated communication using a layout software program. This course is a survey of the basic principles of two-dimensional design, typography, design concepts and color theory. Class projects enable the student to explore visual design principles and processes, develop critical thinking about aesthetics and reflect on the impact of design on the users' comprehension and response. This course may not be used towards degree requirements by visual communication design majors.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

VCD 58010 ARCHITECTURAL PHOTOGRAPHY 3 Credit Hours
(Slashed with VCD 48010) The course introduces and develops professional practice and techniques for expressing exterior and interior architectural space including image capture, composition, lighting, staging, technical and esthetic considerations, post-production, camera functionality, among others. Other explorations include Art in Architectural Photography and the Architectural Documentary. DSLR camera or equivalent is needed for this course. Refer to Recommended Camera List for suggestions, provided within syllabus.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 60010 DESIGN RESEARCH METHODS 3 Credit Hours
Introductory course to the design research methods employed in the professional practice of visual communication design. Students will gain an understanding of research strategies, tactics and tools, and will apply their use through a combination of readings, videos, online discussion and a final cumulative project. Focus will be directed on the design process, research and ideation skills, and understanding research methods in the context of today's design profession.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

VCD 60011 TYPOGRAPHIC STRUCTURES AND SYSTEMS 3 Credit Hours
Serves as an intensive introduction to typography and its application in visual communication design. Students will learn to create successful typographic compositions by controlling hierarchy, contrast, space, and grids. The course also covers the organization of information, and facilitates discussion and creative work on the effects of type choice and style in communication. Students will be familiarized with typography for print and screen-based environments.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 60012 CONCEPT DEVELOPMENT AND IMPLEMENTATION 3 Credit Hours
Serves as an intensive introduction to conceptual development and how it is implemented with form in visual communication design.
Prerequisite: VCD 60011; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 60013 GRAPHIC DESIGN ADVANCED 3 Credit Hours
Builds on typography and concept development. Students will gain experience combining layout, concept and problem-solving methodologies through a series of exercises and problems. Projects facilitate the student's ability to employ narrative and storytelling methods, along with design research, analysis, documentation and implementation. The structure of this course is designed to foster self-initiative. Exercises will be completed outside class time and students will be given a great amount of flexibility as they frame projects and decipher solutions to problems.
Prerequisite: VCD 60010, VCD 60011 and VCD 60012; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

VCD 60020 GRADUATE STUDIO IN VISUAL COMMUNICATION DESIGN 3 Credit Hours
(Repeatable for credit) Research based, hands-on studio course providing a context for collaborative and individual projects in design, illustration and/or photography.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter-IP

VCD 60091 GRADUATE SEMINAR IN VISUAL COMMUNICATION DESIGN 3 Credit Hours
(Repeatable for credit) Focuses on design theory and research methodologies pertaining to design. Content consists mostly of readings, discussions and student presentations.
Prerequisite: Visual communication design major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

VCD 60094 PROFESSIONAL AND TEACHING DEVELOPMENT 3 Credit Hours
For VCD student teaching or who anticipate teaching in higher education. This experience also supports future careers in management, art direction and instructional roles in industry. Discussions include grading, critiques, classroom management and evaluation techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 60095 SPECIAL TOPICS IN GRAPHIC DESIGN/ILLUSTRATION 1-4 Credit Hours
(Repeatable for a maximum of 16 credit hours)To broaden course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. Used to fulfill primary studio requirements in graphic design and or illustration.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

VCD 60096 INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION 1-16 Credit Hours
(Repeatable for credit)Individual investigation related to topics of graphic design and illustration approved and under the direction of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-16 other
Grade Mode: Standard Letter-IP

VCD 60098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Independent research under the direction of a faculty member in the division of design/illustration.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

VCD 60099 MASTER OF ARTS PROJECT GRAPHIC DESIGN AND ILLUSTRATION 3 Credit Hours
A research project for M.A. students approved in consultation with the faculty adviser which culminates in a visual project exhibition and formal presentations.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Project or Capstone, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 60171 CRITICAL PRACTICES IN DESIGN RESEARCH 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 80171) This graduate seminar course introduces methods for integrating critical practices into larger communication design research agendas. The term “critical practices” includes three areas of design-centered inquiry: critical design, critical making, and design authorship.
Prerequisite: Master of fine arts (MFA) or master of arts (MA) in visual communication design major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 60191 ADVANCED RESEARCH 3 Credit Hours
Serves as the research intensive continuation of VCD 60091 Graduate Seminar. Students will focus on the development of their MFA thesis proposals by identifying a topic, investigating relevant literature and media, developing a thesis statement, and writing the full thesis proposal. Deliverables include a finished MFA thesis proposal, research schedule, and corresponding logic model.
Prerequisite: VCD 60091 and VCD 60094; and visual communication design major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

VCD 60200 DESIGN THEORY I: CULTURE, COMMUNITIES AND CONTEXT 3 Credit Hours
(Slashed with VCD 80200) Introduces students to design theory through a lens of classic and contemporary readings taken from various disciplines. This survey of perspectives assists students in developing their individual voice as a designer. Delves into issues that affect the field of graphic design and will continue to shape culture and history. Students are asked to question ideas of community and to expand on their ideas with examples through media and technology. Students critically question notions of history, psychology and social behaviors. The writing and criticism of advertising, communication, design artifacts and culture are the primary communication tool of the class, which is completed through papers and personal reflections.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 61099 GRADUATE PORTFOLIO/GRAPHIC DESIGN AND ILLUSTRATION 1 Credit Hour
A formal review of the work completed in the first 12 semester credit hours of graphic design and/or illustration courses for both Master of Fine Arts and Master of Arts.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 68199 M.A.THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours, 2-6 hours in a single semester or distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 68299 M.A.THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: VCD 68199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 69199 M.F.A. THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours; 2 -6 hours in a single semester or distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 69299 M.F.A. THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: VCD 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

VCD 80171 CRITICAL PRACTICES IN DESIGN RESEARCH 3 Credit Hours
(Repeatable for credit) (Slashed with VCD 60171) This graduate seminar course introduces methods for integrating critical practices into larger communication design research agendas. The term "critical practices" includes three areas of design-centered inquiry: critical design, critical making, and design authorship. This course is not repeatable.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VCD 80200 DESIGN THEORY I: CULTURE, COMMUNITIES AND CONTEXT 3 Credit Hours
(Slashed with VCD 60200) Introduces students to design theory through a lens of classic and contemporary readings taken from various disciplines. This survey of perspectives assists students in developing their individual voice as a designer. The class delves into issues that affect the field of graphic design and will continue to shape culture and history. Students are asked to question ideas of community and to expand on their ideas with examples through media and technology. Students critically question notions of history, psychology and social behaviors. The writing and criticism of advertising, communication, design artifacts and culture are the primary communication tool of the class, which is completed through papers and personal reflections.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Design - Minor

College of Communication and Information
School of Visual Communication Design
www.kent.edu/vcd

About This Program

The Design minor complements a variety of majors, giving students a foundation in graphic design, including design research and history, graphic software, industry standards and professional ethics.

Contact Information

- **Daniel Alenquer** | vcd@kent.edu | 330-672-7856
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Design minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
VCD 13000	VISUAL DESIGN THINKING	3
VCD 13001	INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO (min B- grade)	3
VCD 22000	DESIGN/ILLUSTRATION TECHNIQUES I	3
VCD 23001	TYPOGRAPHY I	3
Minor Electives, choose from the following:		6
VCD 33000	GRAPHIC DESIGN I	
VCD 34004	VISUAL ETHICS	
VCD 40089	GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE (DIVG) (ELR)	
VCD 47000	VISUAL DESIGN FOR MEDIA	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Students will learn how to evaluate and understand design process, artifacts and practice.
2. Students will create and apply design principles, process and applications.
3. Students will evaluate and analyze design artifacts.
4. Students will learn to provide feedback and to assess design work from two levels; informative and functional capabilities, design aesthetic and principles.
5. Students will understand the impact of ethical practices in design and reflect on design history.

Photography - B.F.A.

College of Communication and Information
School of Visual Communication Design
www.kent.edu/vcd

About This Program

In the Photography major, students develop the skills and knowledge needed to expand their artistic vision and create stunning visual content. With access to photography studio space, free-to-rent lighting equipment, cameras, lenses and more to enhance their projects, plus the expertise of our talented faculty, students are prepared to become emerging professional photographers in a range of rewarding careers. Read more...

Contact Information

- **Daniel Alenquer** | vcd@kent.edu | 330-672-7856
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- Fashion Photographer
- Wedding Photographer
- Travel Photographer
- Commercial Photographer
- Photo Editor/Retoucher
- Portrait Photographer
- Scientific Photographer
- Wildlife Photographer
- Sports Photographer

Accreditation

National Association of Schools of Art and Design (NASAD)

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CCI 12001	PHOTOGRAPHY	3
VCD 13000	VISUAL DESIGN THINKING	3
VCD 13001	INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO (min B- grade)	3
VCD 18002	PHOTOGRAPHY II	3
VCD 23001	TYPOGRAPHY I	3
VCD 28003	DIGITAL IMAGING I	3
VCD 28004	PHOTOGRAPHIC PERSPECTIVES	3
VCD 34004	VISUAL ETHICS	3
VCD 38004	ADVANCED PHOTOGRAPHY	3
VCD 38007	PHOTOGRAPHY TECHNIQUES	3
VCD 38011	EDITORIAL PHOTOGRAPHY	3
VCD 40182	INTERNSHIP PREPARATION: DESIGN, ILLUSTRATION AND PHOTOGRAPHY	2
VCD 40192	INTERNSHIP. DESIGN, ILLUSTRATION AND PHOTOGRAPHY (ELR) [1]	1
VCD 44006	MOTION DESIGN I	3
VCD 47000	VISUAL DESIGN FOR MEDIA	3
VCD 48001	PHOTOGRAPHIC PROJECT	3
VCD 48002	ADVANCED PHOTOGRAPHIC PROJECT	3
VCD 48003	PROFESSIONAL PORTFOLIO PHOTOGRAPHY	3
VCD 48005	COLOR PHOTOGRAPHY	3
VCD 48008	ADVANCED DIGITAL IMAGING	3

VCD 48009	FASHION PHOTOGRAPHY	3
VCD 49198	WRITING FOR PROFESSIONAL PRACTICE (ELR) (WIC) [2]	2
Visual Communication Design (VCD) Upper-Division Elective (30000 or 40000 level)		3
Additional Requirements (courses do not count in major GPA)		
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
or MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
UC 10001	FLASHES 101	1
College of Communication and Information Core Electives, choose from the following:		6
CCI 10095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40089	BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR)	
CCI 40095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40189	ITALIAN POP CULTURE (DIVG) (ELR)	
CCI 40289	ITALIAN CINEMA (DIVG) (ELR)	
CCI 40389	DOCUMENTARY FILMMAKING (DIVG) (ELR)	
CCI 40489	MULTIMEDIA EXPERIENTIAL LEARNING (DIVG) (ELR)	
CCI 45089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
CCI 46089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) [3]	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
EMAT 25310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS) [3]	
MDJ 21008	SOCIAL MEDIA STRATEGIES	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines) [4]		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional [4]		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [5]		6
Minimum Total Credit Hours:		**120**

1 Minimum 1 credit hour of VCD 40192 is required for the program. Students can apply a maximum 4 credit hours of VCD 40192 toward their degree program.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

3 Students can choose COMM 15000 or MDJ 20001 as a College of Communication and Information Core Elective if NOT already taken.

4 If MDJ 20001 is completed, then 3 credit hours of Kent Core Social Sciences and 6 credit hours of Kent Core Additional is required. If COMM 15000 is completed, then 6 credit hours of Kent Core Social Sciences and 3 credit hours of Kent Core Additional is required.

5 A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

Progression Requirements

- Students must receive a minimum B- in VCD 13001 before enrolling in VCD 23001. VCD 13001 may be taken a maximum three times until a minimum B- grade is achieved.
- Students must maintain a 2.500 major GPA in order to continue taking VCD courses. Failure to do so at the end of one semester will result in a written warning with the option of repeating certain VCD courses in order to meet minimum grade and GPA requirements to continue. Failure to do so at the end of two consecutive semesters will result in not being permitted to enroll in VCD courses. Students in this situation will be contacted by an academic advisor to create an alternative plan of study with a new major.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

- A minimum B- grade may be required in some courses.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	CCI 12001	PHOTOGRAPHY	3
!	VCD 13000	VISUAL DESIGN THINKING	3
!	VCD 13001	INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	COMM 15000 or MDJ 20001	INTRODUCTION TO HUMAN COMMUNICATION (KADL) or MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
!	VCD 18002	PHOTOGRAPHY II	3
!	VCD 23001	TYPOGRAPHY I	3
	VCD 47000	VISUAL DESIGN FOR MEDIA	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
!	VCD 28003	DIGITAL IMAGING I	3
!	VCD 28004	PHOTOGRAPHIC PERSPECTIVES	3
	VCD 38004	ADVANCED PHOTOGRAPHY	3

	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
	VCD 48005	COLOR PHOTOGRAPHY	3
	VCD 48008	ADVANCED DIGITAL IMAGING	3
	College of Communication and Information Core Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	VCD 34004	VISUAL ETHICS	3
!	VCD 38007	PHOTOGRAPHY TECHNIQUES	3
	VCD 40182	INTERNSHIP PREPARATION: DESIGN, ILLUSTRATION AND PHOTOGRAPHY	2
	Visual Communication Design (VCD) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Six		
	ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
!	VCD 48009	FASHION PHOTOGRAPHY	3
	Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Third Summer Term		
!	VCD 40192	INTERNSHIP: DESIGN, ILLUSTRATION AND PHOTOGRAPHY (ELR)	1
		Credit Hours	**1**
	Semester Seven		
!	VCD 38011	EDITORIAL PHOTOGRAPHY	3
	VCD 44006	MOTION DESIGN I	3
!	VCD 48001	PHOTOGRAPHIC PROJECT	3
	VCD 49198	WRITING FOR PROFESSIONAL PRACTICE (ELR) (WIC)	2
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Eight		
!	VCD 48002	ADVANCED PHOTOGRAPHIC PROJECT	3
!	VCD 48003	PROFESSIONAL PORTFOLIO PHOTOGRAPHY	3
	College of Communication and Information Core Elective		3
	General Electives		6
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the ethics (and legal issues) closely associated with fields of visual communication.
2. Demonstrate an understanding of traditional hands-on skills relative to craftsmanship.
3. Demonstrate an understanding of the basic use of digital technologies as they relate to their areas of study.
4. Demonstrate an ability to create visual response to communication problems, including understanding of photography, composition and the construction of meaningful images.

Full Description

The Bachelor of Fine Arts degree in Photography provides the student with a comprehensive program of study in digital photography. Grounded in formal, technical and conceptual skills building, the Photography major focuses on the profession of photography as it relates to commerce. The program builds a photography professional through experiential learning opportunities, as well as through required courses in design.

Programs in the College of Communication and Information are, by nature, innovative, interdisciplinary and collaborative, which is critical to both professional and scholarly disciplines. Students are educated to work at the intersections of communication, information and technology. Through a core of diverse theory- and practice-based courses, students learn basic concepts that apply across the range of college programs and develop a sense of professional expectations and build toward interdisciplinary thinking and application.

Students may apply early to the following master's degree programs and double count 9 credit hours of graduate courses toward both degree

programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

- Master of Arts degree in Communication Studies
- Master of Arts degree in Visual Communication Design
- Master of Library Information Science degree in Library and Information Science
- Master of Science degree in Emerging Media and Technology
- Master of Science degree in Health Informatics
- Master of Science degree in User Experience

There are many study abroad/away opportunities. For more information contact the Office of Global Education.

Photography - Minor

College of Communication and Information
School of Visual Communication Design
www.kent.edu/vcd

About This Program

The Photography minor offers students a working understanding of photography in commercial use. Students learn about camera manipulation, composition, lighting, digital technologies, photography used as illustration and photography as it is used in print and online publications. Read more...

Contact Information

- **Daniel Alenquer** | vcd@kent.edu | 330-672-7856
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Photography minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
CCI 12001	PHOTOGRAPHY	3
VCD 18002	PHOTOGRAPHY II	3
VCD 28003	DIGITAL IMAGING I	3
VCD 38004	ADVANCED PHOTOGRAPHY	3
Visual Communication Design (VCD) Elective, choose from the following:		3
VCD 28004	PHOTOGRAPHIC PERSPECTIVES	
VCD 38011	EDITORIAL PHOTOGRAPHY	
VCD 48005	COLOR PHOTOGRAPHY	
VCD 48008	ADVANCED DIGITAL IMAGING	
VCD 48009	FASHION PHOTOGRAPHY	
Visual Communication Design (VCD) Upper-Division Elective, choose from the following:		3
VCD 38011	EDITORIAL PHOTOGRAPHY	
VCD 48005	COLOR PHOTOGRAPHY	
VCD 48008	ADVANCED DIGITAL IMAGING	
VCD 48009	FASHION PHOTOGRAPHY	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Full Description

The Photography minor offers students a basic understanding of photography as it relates to commercial use. Subjects covered include camera manipulation, composition, lighting, digital technologies, photography used as illustration and photography as it is used in print and online publications. This minor stimulates students to learn different conceptual and technical approaches to capturing and editing photographic images. It enhances and complements students' respective majors by allowing them to use photography to better communicate their work visually.

User Experience Design - Minor

College of Communication and Information
School of Visual Communication Design
School of Emerging Media and Technology
www.kent.edu/vcd

About This Program

The User Experience Design minor teaches students to create a range of products and material that prioritize the positive, clear and fulfilling experience of the end-user. Courses focus on fundamentals, prototyping, usability, technology, software and information architecture.

Contact Information

- **Michael Beam** | emat@kent.edu | 330-672-9105
- **Daniel Alenquer** | vcd@kent.edu | 330-672-7856
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Technology Requirement

In order to be successful in the program, students must have:

- Personal laptop, preferably a MacBook Pro or a comparable PC that can handle video and animations.
- Subscription to LinkedIn Learning (Kent State supplies LinkedIn Learning campus subscription with enrollment).
- Subscription to Adobe Creative Cloud (Photoshop, Illustrator, After Effects, InDesign, XD, Muse and Edge Animate) and MS Office or Apple's iWork Suite.
- Other software may include Sketch, InVision, Transmit (or another FTP client), Text Edit, Balsamiq, Axure or Omnigraffle.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
EMAT 10010	TECHNOLOGY, EXPERIENCE DESIGN AND SOCIETY	3
EMAT 21000	INTRODUCTION TO WEB DESIGN	3
EMAT 33310	HUMAN-COMPUTER INTERACTION	3
VCD 33101	INTERACTION DESIGN I	3
Minor Electives, choose from the following:		6
EMAT 25310	CREATIVE CODING	
EMAT 41000	RESPONSIVE WEB DESIGN	
VCD 34004	VISUAL ETHICS	
VCD 43007	INFORMATION DESIGN	
VCD 43101	INTERACTION DESIGN II	
VCD 44006	MOTION DESIGN I	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.700	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Design with the user in mind, empathize with their needs and values while demonstrating an understanding of human cognitive, perceptual, and physical capabilities, limitations, and how they affect design decisions.
2. Use different models, frameworks, and approaches for UXD processes and deliverables to deconstruct, analyze, and identify problems in user experiences.
3. Design, test and present UXD research, concepts, strategies, and solutions to clients, partners, and stakeholders.

Visual Communication Design - B.A.

College of Communication and Information
School of Visual Communication Design
www.kent.edu/vcd

About This Program

Unleash your creativity with the Visual Communication Design major. Experienced faculty will help you develop a portfolio of professional design work for print, motion, video and interactive media. With a focus on design and illustration, this degree offers the flexibility to succeed in a wide variety of career fields. Enroll now and turn your passion for graphic design into a successful future. Read more...

Contact Information

- **Daniel Alenquer** | vcd@kent.edu | 330-672-7856
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- Graphic Designer
- Art/Creative Director
- UI/UX Designer
- Motion Designer/Animator
- Illustrator
- Exhibit/Wayfinding Designer
- Package Designer

Accreditation

National Association of Schools of Art and Design (NASAD)

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

The director of the School of Visual Communication Design may impose additional requirements considered reasonable and necessary. Each transfer student will be evaluated individually in terms of his or her ability to perform within the program. A transfer applicant's strengths and deficiencies will be considered and his or her transfer credits will reflect that consideration.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
VCD 13000	VISUAL DESIGN THINKING	3
VCD 13001	INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO (min B- grade)	3
VCD 20010	DESIGN RESEARCH AND METHODS	3
VCD 22000	DESIGN/ILLUSTRATION TECHNIQUES I [1]	3
VCD 22001	DESIGN/ILLUSTRATION TECHNIQUES II	3
VCD 23001	TYPOGRAPHY I (min B- grade)	3
VCD 25000	DESIGN HISTORY AND THEORY	3
VCD 33000	GRAPHIC DESIGN I	3
VCD 33001	GRAPHIC DESIGN II	3
VCD 34004	VISUAL ETHICS	3
VCD 40182	INTERNSHIP PREPARATION: DESIGN, ILLUSTRATION AND PHOTOGRAPHY	2
VCD 40192	INTERNSHIP. DESIGN, ILLUSTRATION AND PHOTOGRAPHY (ELR) [2]	1
VCD 44006	MOTION DESIGN I	3
VCD 49198	WRITING FOR PROFESSIONAL PRACTICE (ELR) (WIC) [3]	2
VCD Bachelor of Arts Guided Electives, choose from the following:		12
CCI 12001	PHOTOGRAPHY	
CCI 46089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
COMM 46091	SENIOR SEMINAR (ELR)	
EMAT 21000	INTRODUCTION TO WEB DESIGN	
EMAT 41000	RESPONSIVE WEB DESIGN	
EMAT 40999	INTERDISCIPLINARY PROJECTS (ELR)	
VCD 18002	PHOTOGRAPHY II	
VCD 28003	DIGITAL IMAGING I	
VCD 32000	ILLUSTRATION I	
VCD 32001	ILLUSTRATION II	
VCD 33101	INTERACTION DESIGN I	
VCD 34005	ELEMENTS OF BRAND DESIGN	
VCD 38004	ADVANCED PHOTOGRAPHY	
VCD 40053	GLYPHIX RESEARCH LABORATORY	
VCD 40089	GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE (DIVG) (ELR)	
VCD 42002	EDITORIAL ILLUSTRATION	
VCD 42003	ADVERTISING ILLUSTRATION	
VCD 42005	CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE	
VCD 42006	CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS	
VCD 42007	GRAPHIC NARRATIVE	
VCD 43002	TYPOGRAPHY II	
VCD 43003	IDENTITY SYSTEMS	
VCD 43005	INTEGRATED BRAND DESIGN	
VCD 43006	BRAND EXPERIENCES	
VCD 43007	INFORMATION DESIGN	
VCD 43051	TYPE HIGH PRESS	
VCD 43060	TYPEFACE DESIGN	
VCD 43101	INTERACTION DESIGN II	
VCD 44001	EXHIBITION DESIGN	
VCD 46003	EXPERIMENTAL TYPOGRAPHY	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
College of Communication and Information Core Electives, choose from the following:		9
CCI 10095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40089	BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR)	

	CCI 40095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION
	CCI 40189	ITALIAN POP CULTURE (DIVG) (ELR)
	CCI 40289	ITALIAN CINEMA (DIVG) (ELR)
	CCI 40389	DOCUMENTARY FILMMAKING (DIVG) (ELR)
	CCI 40489	MULTIMEDIA EXPERIENTIAL LEARNING (DIVG) (ELR)
	CCI 45089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)
	CCI 46089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR) [4]
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)
	COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)
	EMAT 25310	CREATIVE CODING
	EMAT 33310	HUMAN-COMPUTER INTERACTION
	LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND
	MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)
	MDJ 21008	SOCIAL MEDIA STRATEGIES
	UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [5]		24
Minimum Total Credit Hours:		**120**

[1] Students who have taken ARTS 14000 from another program may use it as a substitute for VCD 22000.

[2] Minimum 1 credit hour of VCD 40192 is required for the program. Students may apply a maximum 4 credit hours of VCD 40192 toward their degree program.

[3] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[4] May apply the course as a College of Communication and Information Core Elective if not already fulfilling a VCD Bachelor of Arts Guided Elective.

[5] A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

Progression Requirements

- VCD 13001 may be taken a maximum three times until a minimum B- grade is achieved.
- Students must maintain a 2.500 major GPA in order to continue taking VCD courses. Failure to do so at the end of one semester will result in a written warning with the option of repeating certain VCD courses in order to meet minimum grade and GPA requirements to continue. Failure to do so at the end of two consecutive semesters will result in not being permitted to enroll in VCD courses. Students in this situation will be contacted by an academic advisor to create an alternative plan of study with a new major.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

- A minimum B- grade may be required in some courses.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	VCD 13000	VISUAL DESIGN THINKING	3
!	VCD 13001	INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	VCD 20010	DESIGN RESEARCH AND METHODS	3
!	VCD 22000	DESIGN/ILLUSTRATION TECHNIQUES I [1]	3
!	VCD 23001	TYPOGRAPHY I	3
	College of Communication and Information Core Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	VCD 22001	DESIGN/ILLUSTRATION TECHNIQUES II	3
	VCD 25000	DESIGN HISTORY AND THEORY	3
!	VCD 33000	GRAPHIC DESIGN I	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	VCD 44006	MOTION DESIGN I	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Five		
	VCD 33001	GRAPHIC DESIGN II	3
!	VCD 34004	VISUAL ETHICS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Six		
	VCD 40182	INTERNSHIP PREPARATION: DESIGN, ILLUSTRATION AND PHOTOGRAPHY	2
	VCD 49198	WRITING FOR PROFESSIONAL PRACTICE (ELR) (WIC)	2
	VCD Bachelor of Arts Guided Elective		3
	College of Communication and Information Core Elective		3

	Kent Core Requirement	3
	General Elective	2
	Credit Hours	**15**
	Third Summer Term	
	VCD 40192 INTERNSHIP: DESIGN, ILLUSTRATION AND PHOTOGRAPHY (ELR)	1
	Credit Hours	**1**
	Semester Seven	
	VCD Bachelor of Arts Guided Elective	3
	College of Communication and Information Core Elective	3
	General Electives	9
	Credit Hours	**15**
	Semester Eight	
	VCD Bachelor of Arts Guided Electives	6
	General Electives	7
	Credit Hours	**13**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the ethics (and legal issues) closely associated with fields of visual communication.
2. Demonstrate an understanding of traditional hands-on skills relative to craftsmanship.
3. Demonstrate an understanding of the basic use of digital technologies as they relate to their areas of study.
4. Demonstrate an ability to create visual response to communication problems, including understanding of hierarchy, typography, aesthetics, composition and construction of meaningful images.

Full Description

The Bachelor of Arts degree in Visual Communication Design prepares students for the graphic design and illustration professions. Students develop technical understanding and design skills in the organization of imagery and typography to communicate information in two-dimensional and three-dimensional forms. Students produce work for print, motion, video, screen displays and interactive experiences, as well as package design, exhibition design and environmental wayfinding.

This program focuses on design and illustration in the context of a broad liberal arts program, giving students the flexibility to choose 20 percent of their coursework (with guidance). This provides the opportunity for students to take a variety of courses to complement their design degree. Students learn at the intersections of communication, information, and technology. The B.A. degree program is for students planning to attend a graduate program or plan to pair their visual communication design degree with another field of study.

Through a core of diverse theory- and practice-based courses, students learn basic concepts that apply across the range of college programs and develop a sense of professional expectations and build toward interdisciplinary thinking and application.

Students may apply early to the following master's degree programs and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

- Master of Arts degree in Communication Studies
- Master of Arts degree in Visual Communication Design
- Master of Fine Arts degree in Visual Communication Design
- Master of Library Information Science degree in Library and Information Science
- Master of Science degree in Emerging Media and Technology
- Master of Science degree in Health Informatics
- Master of Science degree in Knowledge Management
- Master of Science degree in User Experience

There are many study abroad/away opportunities. For more information contact the Office of Global Education or coordinator of the college's International Study Programs.

Visual Communication Design - B.F.A.

College of Communication and Information
School of Visual Communication Design

www.kent.edu/vcd

About This Program

Focused on an intensive studio arts experience, this Visual Communication Design major is the “professional degree” that will take your design skills to the next level. You’ll hone your craft solving communication challenges, while building a strong professional portfolio as a visual communicator and storyteller, preparing you for a successful career in a range of design industries. Read more...

Contact Information

- **Daniel Alenquer** | vcd@kent.edu | 330-672-7856
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- Graphic Designer
- Art/Creative Director
- UI/UX Designer
- Motion Designer/Animator
- Illustrator
- Exhibit/Wayfinding Designer
- Package Designer

Accreditation

National Association of Schools of Art and Design (NASAD)

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State’s campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State’s English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CCI 12001	PHOTOGRAPHY	3
VCD 13000	VISUAL DESIGN THINKING	3
VCD 13001	INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO (min B- grade)	3
VCD 20010	DESIGN RESEARCH AND METHODS	3
VCD 22000	DESIGN/ILLUSTRATION TECHNIQUES I [1]	3
VCD 22001	DESIGN/ILLUSTRATION TECHNIQUES II	3
VCD 23001	TYPOGRAPHY I (min B- grade)	3
VCD 25000	DESIGN HISTORY AND THEORY	3
VCD 33000	GRAPHIC DESIGN I	3
VCD 33001	GRAPHIC DESIGN II	3
VCD 33101	INTERACTION DESIGN I	3
VCD 34004	VISUAL ETHICS	3
VCD 34005	ELEMENTS OF BRAND DESIGN	3
VCD 40035	PROFESSIONAL PORTFOLIO BFA DESIGN	3
VCD 40182	INTERNSHIP PREPARATION: DESIGN, ILLUSTRATION AND PHOTOGRAPHY	2
VCD 40192	INTERNSHIP. DESIGN, ILLUSTRATION AND PHOTOGRAPHY (ELR) [2]	1
VCD 44006	MOTION DESIGN I	3
VCD 43002	TYPOGRAPHY II	3
VCD 43003	IDENTITY SYSTEMS	3
VCD 49198	WRITING FOR PROFESSIONAL PRACTICE (ELR) (WIC) [3]	2
VCD Specialization Electives, choose from the following:		12
EMAT 21000	INTRODUCTION TO WEB DESIGN	
EMAT 41000	RESPONSIVE WEB DESIGN	
VCD 40053	GLYPHIX RESEARCH LABORATORY	
VCD 40089	GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE (DIVG) (ELR)	

VCD 40095	SPECIAL TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY	
VCD 42002	EDITORIAL ILLUSTRATION	
VCD 42003	ADVERTISING ILLUSTRATION	
VCD 42005	CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE	
VCD 42006	CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS	
VCD 42007	GRAPHIC NARRATIVE	
VCD 43005	INTEGRATED BRAND DESIGN	
VCD 43006	BRAND EXPERIENCES	
VCD 43007	INFORMATION DESIGN	
VCD 43060	TYPEFACE DESIGN	
VCD 43101	INTERACTION DESIGN II	
VCD 46003	EXPERIMENTAL TYPOGRAPHY	
VCD Additional Electives, choose from the following: [4]		6
EMAT 41000	RESPONSIVE WEB DESIGN	
VCD 18002	PHOTOGRAPHY II	
VCD 28003	DIGITAL IMAGING I	
VCD 32000	ILLUSTRATION I	
VCD 32001	ILLUSTRATION II	
VCD 38004	ADVANCED PHOTOGRAPHY	
VCD 40053	GLYPHIX RESEARCH LABORATORY	
VCD 40089	GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE (DIVG) (ELR)	
VCD 40095	SPECIAL TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY	
VCD 40195	SELECTED TOPICS IN DESIGN, ILLUSTRATION AND PHOTOGRAPHY	
VCD 42002	EDITORIAL ILLUSTRATION	
VCD 42003	ADVERTISING ILLUSTRATION	
VCD 42005	CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE	
VCD 42006	CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS	
VCD 42007	GRAPHIC NARRATIVE	
VCD 43005	INTEGRATED BRAND DESIGN	
VCD 43006	BRAND EXPERIENCES	
VCD 43051	TYPE HIGH PRESS [5]	
VCD 43060	TYPEFACE DESIGN	
VCD 43101	INTERACTION DESIGN II	
VCD 46003	EXPERIMENTAL TYPOGRAPHY	
Additional Requirements (courses do not count in major GPA)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) [6]	3
or MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
UC 10001	FLASHES 101	1
College of Communication and Information Core Electives		6
CCI 10095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40089	BRANDING AND SOCIAL MEDIA STRATEGIES FOR ITALIAN LIFESTYLE (DIVG) (ELR)	
CCI 40095	SPECIAL TOPICS IN COMMUNICATION AND INFORMATION	
CCI 40189	ITALIAN POP CULTURE (DIVG) (ELR)	
CCI 40289	ITALIAN CINEMA (DIVG) (ELR)	
CCI 40389	DOCUMENTARY FILMMAKING (DIVG) (ELR)	
CCI 40489	MULTIMEDIA EXPERIENTIAL LEARNING (DIVG) (ELR)	
CCI 45089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
CCI 46089	INTERNATIONAL EXPERIENCE IN THE COLLEGE OF COMMUNICATION AND INFORMATION (DIVG) (ELR)	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) [6]	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
EMAT 25310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS) [6]	
MDJ 21008	SOCIAL MEDIA STRATEGIES	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		9
Kent Core Social Sciences (must be from two disciplines) [7]		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional [7]		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [8]		3
Minimum Total Credit Hours:		**120**

1. Students who have taken ARTS 14000 from another program may use it as a substitute for VCD 22000.
2. Minimum 1 credit hour of VCD 40192 is required for the program. However, students can apply maximum 4 credit hours of the course toward their degree program.
3. A minimum C grade must be earned to fulfill the writing-intensive requirement.
4. Courses taken as VCD Specialization Electives may not also count toward VCD Additional Electives.
5. Maximum 6 credit hours of VCD 43051 may be applied toward the VCD Additional Electives.
6. Students can apply COMM 15000 or MDJ 20001 toward College of Communication and Information Core Electives if NOT already taken toward Additional Requirements.
7. If MDJ 20001 is completed, then 3 credit hours of Kent Core Social Sciences and 6 credit hours of Kent Core Additional is required. If COMM 15000 is completed, then 6 credit hours of Kent Core Social Sciences and 3 credit hours of Kent Core Additional is required.
8. A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

Progression Requirements

- Students must earn a minimum B- grade in VCD 13001 before enrolling in VCD 23001. VCD 13001 may be taken a maximum three times until a minimum B- grade is achieved.
- Students must earn a minimum B- grade in VCD 23001 before enrolling in VCD 33000.
- Students must maintain a 2.700 major GPA in order to continue taking VCD courses. Failure to do so at the end of one semester will result in a written warning with the option of repeating certain VCD courses in order to meet minimum grade and GPA requirements to continue. Failure to do so at the end of two consecutive semesters will result in not being permitted to enroll in VCD courses. Students in

this situation will be contacted by an academic advisor to create an alternative plan of study with a new major.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.700	2.000

- A minimum B- grade may be required in some courses.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	VCD 13000	VISUAL DESIGN THINKING	3
!	VCD 13001	INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	COMM 15000 or MDJ 20001	INTRODUCTION TO HUMAN COMMUNICATION (KADL) or MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
	VCD 20010	DESIGN RESEARCH AND METHODS	3
!	VCD 22000	DESIGN/ILLUSTRATION TECHNIQUES I [1]	3
!	VCD 23001	TYPOGRAPHY I	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	VCD 22001	DESIGN/ILLUSTRATION TECHNIQUES II	3
	VCD 25000	DESIGN HISTORY AND THEORY	3
!	VCD 33000	GRAPHIC DESIGN I	3
	VCD 44006	MOTION DESIGN I	3
	CCI Core Elective		3
		Credit Hours	**15**
	Semester Four		
	VCD 33001	GRAPHIC DESIGN II	3
	VCD 33101	INTERACTION DESIGN I	3
!	VCD 34005	ELEMENTS OF BRAND DESIGN	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	VCD 34004	VISUAL ETHICS	3
	VCD 43003	IDENTITY SYSTEMS	3
	VCD 43002	TYPOGRAPHY II	3
	VCD Specialization Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	CCI 12001	PHOTOGRAPHY	3
	VCD 40182	INTERNSHIP PREPARATION: DESIGN, ILLUSTRATION AND PHOTOGRAPHY	2
	VCD Specialization Electives		6
	Kent Core Requirement		3
		Credit Hours	**14**
	Third Summer Term		
	VCD 40192	INTERNSHIP. DESIGN, ILLUSTRATION AND PHOTOGRAPHY (ELR)	1
		Credit Hours	**1**
	Semester Seven		
	VCD 49198	WRITING FOR PROFESSIONAL PRACTICE (ELR) (WIC)	2
	CCI Core Elective		3
	VCD Additional Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Eight		
	VCD 40035	PROFESSIONAL PORTFOLIO BFA DESIGN	3
	VCD Specialization Elective		3
	VCD Additional Elective		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9

Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the ethics (and legal issues) closely associated with fields of visual communication.
2. Demonstrate an understanding of traditional hands-on skills relative to craftsmanship.
3. Demonstrate an understanding of the basic use of digital technologies as they relate to their areas of study.
4. Demonstrate an ability to create visual response to communication problems, including understanding of hierarchy, typography, aesthetics, composition and construction of meaningful images.

Full Description

The Bachelor of Fine Arts degree in Visual Communication Design prepares students for design and illustration professions. Students develop technical proficiency and design expertise in the organization of imagery and typography to communicate information in two-dimensional and three-dimensional forms using interactive media, environments and motion design. Students produce work for print, video, screen and interactive experiences, as well as package design, exhibition design and environmental wayfinding.

This major leads to a professional degree and focuses on intensive work in the visual arts. The B.F.A. degree consists of approximately two-thirds of the coursework in the creation and study of the visual arts, with the remainder in liberal/general studies. Because of the greater emphasis on upper-level studio courses, the B.F.A. degree allows students an opportunity to dedicate more time to developing their portfolios. The B.F.A. degree is for students planning to pursue a career in visual communication design and graphic design.

Students may apply early to the following master's degree programs and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

- Master of Arts degree in Communication Studies
- Master of Arts degree in Visual Communication Design
- Master of Fine Arts degree in Visual Communication Design
- Master of Library Information Science degree in Library and Information Science
- Master of Science degree in Emerging Media and Technology
- Master of Science degree in Health Informatics
- Master of Science degree in Knowledge Management
- Master of Science degree in User Experience

There are many study abroad/away opportunities. For more information contact the Office of Global Education or coordinator of the college's International Study Programs.

Visual Communication Design - M.A.

College of Communication and Information
School of Visual Communication Design
www.kent.edu/vcd

About This Program

From print design and illustration to web design, 3-D design, motion graphics, interactive design, corporate identity, information architecture, interaction design and information graphics, the M.A. in Visual Communication Design offers individualized plans of study to help you enter the evolving design industry and become influential in social media, branding, digital media and other professional capacities. Read more...

Contact Information

- **Daniel Alenquer** | vcd@kent.edu | 330-672-7856
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Graphic designers

- -3.8% decline
- 281,500 number of jobs
- $53,380 potential earnings

Fine artists, including painters, sculptors, and illustrators

- 1.0% slower than the average
- 28,300 number of jobs
- $52,340 potential earnings

Additional Careers

- Digital Designer
- Multimedia Designer
- Product Designer
- User Experience Designer
- Visual Designer

Accreditation

National Association of Schools of Art and Design

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at

which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Undergraduate degree in design or closely related program
- Minimum 2.750 undergraduate major GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement
- Autobiographical statement (250 words)
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 1

Applications submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
UX 60501	INTRODUCTION TO USER EXPERIENCE	3
VCD 60011	TYPOGRAPHIC STRUCTURES AND SYSTEMS	3
VCD 60012	CONCEPT DEVELOPMENT AND IMPLEMENTATION	3
VCD 60091	GRADUATE SEMINAR IN VISUAL COMMUNICATION DESIGN	3
VCD 61099	GRADUATE PORTFOLIO/GRAPHIC DESIGN AND ILLUSTRATION [1]	1
Major Electives, choose from the following: [2]		15
Illustration		
VCD 52002	EDITORIAL ILLUSTRATION	
VCD 52003	ADVERTISING ILLUSTRATION	
VCD 52005	CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE	
VCD 52006	CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS	
VCD 52007	GRAPHIC NARRATIVE	
Motion and Interaction Design		
EMAT 51000	RESPONSIVE WEB DESIGN	
VCD 53007	INFORMATION DESIGN	
VCD 53101	INTERACTION DESIGN II	
VCD 54006	MOTION DESIGN I	
Typography, Identity and Environmental Graphic Design		
VCD 53002	TYPOGRAPHY II	
VCD 53003	IDENTITY SYSTEMS	
VCD 53005	INTEGRATED BRAND DESIGN	
VCD 53006	BRAND EXPERIENCES	
VCD 53060	TYPEFACE DESIGN	
VCD 56003	EXPERIMENTAL TYPOGRAPHY	
Other Topics		
VCD 50053	GLYPHIX RESEARCH LABORATORY	
VCD 53051	TYPE HIGH PRESS	
Other courses with advisor approval		
Culminating Requirement		
VCD 60099	MASTER OF ARTS PROJECT GRAPHIC DESIGN AND ILLUSTRATION [3]	3
Minimum Total Credit Hours:		**31**

[1] Successful completion of VCD 61099 is a requirement in every School of Visual Communication Design graduate program for both M.A. and M.F.A. degrees after either the first semester or 12 credit hours of course completion.

[2] Major electives are shown grouped according to general interest areas; however, students are not limited to one interest area. Students may take electives from other programs in consultation with their academic advisor. Students may also register for independent investigations with graduate faculty, as appropriate.

[3] VCD 60099 is a visual project exhibition and formal presentation. The project topic should be one that will further the student's knowledge and ability by demonstrating skill as a professional designer/illustrator. At this stage, students work in close consultation with their project advisor.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Develop a body of creative work at a level appropriate for a graduate designer, illustrator and/or photographer.
2. Develop aesthetic, technical and professional skills necessary for success in design industry.
3. Develop skills for collaborative engagement with strategic partners, team members and peers.
4. Develop deeper awareness of issues related to the cultural, technological and economic contexts of design.
5. Develop enhanced comprehension of design thinking and design process

6. Develop understanding of design's use as both a tactical and strategic tool for business and social applications.

Full Description

The Master of Arts degree in Visual Communication Design is recommended for students who already hold an undergraduate degree and are looking to enter the design industry or related fields and wish to advance their studio skills in print design, illustration, web design, 3-D design, motion graphics, interactive design, corporate identity, information architecture, interaction design or information graphics. The program offers individualized plans of study, experiential learning, design history and research. Interdisciplinary study is encouraged.

Visual Communication Design - M.F.A.

College of Communication and Information
School of Visual Communication Design
www.kent.edu/vcd

About This Program

Ready to take on leadership roles in the design industry? The M.F.A. degree in Visual Communication Design focuses on field research methods, design thinking and social innovation, augmented by a practical university teaching experience. As a graduate, you'll be able to pursue careers in design education, but you'll also stand out in the industry for your ability to solve problems from a research-based design perspective. Read more...

Contact Information

- **Daniel Alenquer** | vcd@kent.edu | 330-672-7856
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

- Brand Manager
- Creative Director
- Design Director
- Design Educator
- Design Researcher
- Design Strategist
- Digital Designer
- Multimedia Designer
- Professor of Design
- Product Designer
- Senior Designer
- User Experience Designer
- Visual Designer

Accreditation

National Association of Schools of Art and Design

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Undergraduate degree in design or closely related program
- Minimum 2.750 undergraduate major GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement *(starting with spring 2026 admission term, statement is no longer required)*
- Autobiographical statement (250 words) *(starting with spring 2026 admission term, statement is no longer required)*
- Statement of intent *is required starting with spring 2026 admission term* addressing the following items:
  - Prior educational and work experiences
  - Future career objectives
  - Reasons for pursuing graduate study
  - Relevance of the above three items to this M.F.A. degree
- Portfolio[1]
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] For applicants without a visual communication design undergraduate degree, a portfolio may be defined as any creative, problem-solving endeavor. It may include drawing, painting, illustration, photography, web related solutions, interactions, writing or other types of solutions not listed here.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: March 1
- **Spring Semester**
  - Application deadline: October 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
UX 60501	INTRODUCTION TO USER EXPERIENCE	3
VCD 60020	GRADUATE STUDIO IN VISUAL COMMUNICATION DESIGN	3
VCD 60091	GRADUATE SEMINAR IN VISUAL COMMUNICATION DESIGN	3
VCD 60094	PROFESSIONAL AND TEACHING DEVELOPMENT	3
VCD 60171	CRITICAL PRACTICES IN DESIGN RESEARCH	3
VCD 60191	ADVANCED RESEARCH	3
VCD 60200	DESIGN THEORY I: CULTURE, COMMUNITIES AND CONTEXT	3
VCD 61099	GRADUATE PORTFOLIO/GRAPHIC DESIGN AND ILLUSTRATION [1]	1
Major Elective, choose from the following:		3
VCD 60096	INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION	
Emerging Media and Technology (EMAT) Graduate Course (60000 level)		
User Experience (UX) Graduate Course (60000 level)		
Personal Focus Electives, choose from the following: [2]		29
Illustration		
VCD 52002	EDITORIAL ILLUSTRATION	
VCD 52003	ADVERTISING ILLUSTRATION	
VCD 52005	CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE	
VCD 52006	CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS	
VCD 52007	GRAPHIC NARRATIVE	
Motion and Interaction Design		
EMAT 51000	RESPONSIVE WEB DESIGN	
VCD 53007	INFORMATION DESIGN	
VCD 53101	INTERACTION DESIGN II	
VCD 54006	MOTION DESIGN I	
Typography, Identity and Environmental Graphic Design		
VCD 53002	TYPOGRAPHY II	
VCD 53003	IDENTITY SYSTEMS	
VCD 53005	INTEGRATED BRAND DESIGN	
VCD 53006	BRAND EXPERIENCES	
VCD 53060	TYPEFACE DESIGN	
VCD 56003	EXPERIMENTAL TYPOGRAPHY	
Other Topics		
VCD 50053	GLYPHIX RESEARCH LABORATORY	
VCD 53051	TYPE HIGH PRESS	
Other courses with advisor approval		
Culminating Requirement		
VCD 69199	M.F.A. THESIS I [3]	6
Minimum Total Credit Hours:		**60**

1. Successful completion of VCD 61099 is a requirement in every School of Visual Communication Design graduate program for both M.A. and M.F.A. degrees after either the first semester or 12 credit hours of course completion.
2. The Personal Focus Electives are grouped according to general interest areas; however, students are not limited to one interest area. Students may take electives from other programs in consultation with their academic advisor and/or thesis advisor.
3. The thesis is a significant project or body of work done independently of other coursework. Students are expected to demonstrate the ability to conduct research or produce an original project in a discriminating and disciplined manner. The thesis topic should be one that will further the student's knowledge and ability in the specialty by demonstrating skill as a researcher or professional designer/illustrator. The outcome should be an effort that serves as a foundation for the pursuit of independent work when the graduate program is completed. At this stage, students are expected to work in close consultation with their thesis advisor.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- The Master of Fine Arts program requires the successful completion of 60 credit hours of graduate credit and a thesis.
- The final examination is at the completion of the studio or research thesis. The final examination is the presentation and defense of the thesis and is also an examination of the graduate student's general comprehension of visual communication design. Graduate students are expected to follow the university schedule of deadlines for taking the final examination and presenting thesis materials.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Develop leadership abilities necessary for success in the design industry or higher education.
2. Develop skills for collaborative engagement with strategic partners, team members and peers.
3. Develop deeper awareness of issues related to the cognitive, social, theoretical, cultural, technological, educational and economic contexts of design.
4. Develop understanding of design's use as a strategic tool and medium for business and social applications, through the integration of practice and research.
5. Develop enhanced comprehension of design thinking, design process and metacognition.
6. Develop capabilities in the planning, application and synthesis of field research methods and their use in design process.

Full Description

As a terminal degree, the Master of Fine Arts degree in Visual Communication Design serves students with a strong undergraduate

and/or professional experience in design who wish to advance into leadership roles. Classes have been developed to create an educational experience in design highlighted by field research methods, design thinking, and social innovation, augmented by practical university teaching experience.

The M.F.A. degree allows graduates to pursue careers in design education; they also stand out in the industry for their ability to solve problems from a research-based design perspective. The program offers individualized plans of study, experiential learning, design history and research. Interdisciplinary study is encouraged.

College of Education, Health and Human Services

College of Education Health and Human Services
408 White Hall
Kent Campus
330-672-2202
ehhsdean@kent.edu
www.kent.edu/ehhs

Schools

- School of Foundations, Leadership and Administration
- School of Health Sciences
- School of Lifespan Development and Educational Sciences
- School of Teaching, Learning and Curriculum Studies

Undergraduate Programs

- American Sign Language/English Interpreting - B.S.
- Career and Community Studies - non-degree
- Career and Community Studies-College Preparation (Non-degree)
- Career and Community Studies-Employment Readiness (Non-degree)
- Community Health Education - B.S.
- Early Childhood Education - B.S.E.
- Earth Science - B.S.E.
- Exercise Science - B.S.
- Hospitality and Event Management - B.S.
- Human Development and Family Science - B.S.
- Integrated Health Studies - B.S.
- Integrated Language Arts - B.S.E.
- Integrated Mathematics -B.S.E.
- Integrated Science - B.S.E.
- Integrated Social Studies - B.S.E.
- Life Science - B.S.E.
- Life Science/Chemistry - B.S.E
- Long-Term Care Administration - B.S.
- Middle Childhood Education - B.S.E.
- Nutrition - B.S.
- Physical Education and Sport Performance - B.S.
- Physical Science - B.S.E.
- Professional Studies - B.S.
- Recreation, Park and Tourism Management - B.S.
- School Health Education - B.S.E.
- Special Education - B.S.E.
- Speech Pathology and Audiology - B.S.
- Sport Administration - B.S.
- Sport, Exercise and Performance Psychology - B.S.
- Sports Medicine - B.S.

Minors

- Athletic Coaching
- Autism Spectrum Disorders
- Child and Youth Practice
- Community Health Education
- Disability Studies and Community Inclusion
- Early Intervention
- Education
- Esports
- Event Planning
- Gerontology
- Hospitality and Event Management
- Human Development and Family Science
- Human Sexuality
- International Family Science
- Mild to Moderate Special Education
- Nonprofit Studies
- Park Management
- Recreation Management
- Speech Pathology and Audiology
- Sport Administration
- Sport, Exercise and Performance Psychology
- Sports Medicine: Administration
- Sports Medicine: General Medical and Emergency Care
- Sports Medicine: Orthopedic Patient Care
- Teaching and Learning with Technology
- Tourism Management

Graduate Programs

- Athletic Training - M.S.
- Audiology - M.A.
- Audiology - Au.D.
- Audiology - Ph.D.
- Career - Technical Teacher Education - M.Ed.
- Clinical Mental Health Counseling - M.Ed.
- Clinical Rehabilitation Counseling - M.Ed.
- Communication Sciences and Disorders - Ph.D.
- Counseling - Ed.S.
- Counselor Education and Supervision - Ph.D.
- Cultural Foundations - M.A.
- Cultural Foundations - M.Ed.
- Cultural Foundations - Ph.D.
- Curriculum and Instruction - M.Ed.
- Curriculum and Instruction - Ed.S.
- Curriculum and Instruction - Ph.D.

- Early Childhood Education - M.A.T.
- Early Childhood Education - M.Ed.
- Educational Leadership K-12 - M.Ed.
- Educational Leadership K-12 - Ed.S.
- Educational Leadership K-12 - Ph.D.
- Educational Psychology - M.Ed.
- Educational Technology - M.Ed.
- Exercise Physiology - M.S.
- Exercise Physiology - Ph.D.
- Health Education and Promotion - M.Ed.
- Health Education and Promotion - Ph.D.
- Higher Education Administration - Ph.D.
- Higher Education Administration and Student Affairs - Ed.S.
- Higher Education Administration and Student Affairs - M.Ed.
- Hospitality and Tourism Management - M.S.
- Human Development and Family Science - M.A.
- Interprofessional Leadership - Ed.D.
- Learning Science - M.A.
- Learning Science - Ph.D.
- Nutrition - M.S.
- Reading Specialization - M.Ed.
- Research, Measurement and Statistics - M.Ed.
- Research, Measurement and Statistics - Ph.D.
- School Counseling - M.Ed.
- School Psychology - M.Ed.
- School Psychology - Ed.S.
- School Psychology - Ph.D.
- Secondary Education - M.A.T.
- Special Education - M.Ed.
- Special Education - Ed.S.
- Special Education - Ph.D.
- Speech Language Pathology - M.A.
- Sport Administration - M.A.

Certificates

Undergraduate Certificates

- Addictions Counseling
- Alcohol, Tobacco and Other Drug Prevention
- Career-Technical Teacher Education
- Deaf Education Multiple Disabilities
- Event Management
- Hospitality Management
- Teaching and Learning with Technology

Graduate Certificates

- Addictions Counseling
- Autism Spectrum Disorders
- Behavioral Intervention Specialist
- Career and Academic Advising
- Career-Technical Teacher Education
- College Teaching
- Community College Leadership
- Deaf Education Multiple Disabilities
- Disability Studies and Community Inclusion
- Early Intervention
- Gerontology
- Institutional Research and Assessment
- Internationalization of Higher Education
- Nursing Home Administration
- Ohio Superintendent's Licensure
- Online and Blended Learning
- Qualitative Research

Licensure/Endorsement Programs - Non-Degree

Undergraduate

- Middle Childhood Generalist Science (4-6) Endorsement Preparation
- Middle Childhood Generalist Social Studies (4-6) Endorsement Preparation

Graduate

- Adapted Physical Education Endorsement Preparation
- Alternative Licensure Professional Development Institute, English/Language Arts
- Alternative Licensure Professional Development Institute, Mathematics
- Alternative Licensure Professional Development Institute, Science
- Alternative Licensure Professional Development Institute, Social Studies
- American Sign Language/English Interpreting Licensure Preparation
- Career-Based Intervention Endorsement Preparation
- Computer Science Endorsement Preparation
- Computer Technology Endorsement Preparation
- Early Childhood Education (P-5) Additional Licensure Preparation
- Early Childhood Education Pre-Kindergarten (3-5 years) Endorsement Preparation
- Gifted Education Endorsement Preparation
- Integrated Language Arts Additional Licensure Preparation
- Integrated Mathematics Additional Licensure Preparation
- Integrated Science Additional Licensure Preparation
- Integrated Social Studies Additional Licensure Preparation
- Middle Childhood Education (4-9) Language Arts/Reading and Mathematics Initial Licensure Preparation
- Middle Childhood Education (4-9) Language Arts/Reading and Science Initial Licensure Preparation
- Middle Childhood Education (4-9) Mathematics and Science Initial Licensure Preparation
- Middle Childhood Education (4-9) Mathematics and Social Studies Initial Licensure Preparation
- Middle Childhood Education (4-9) Social Studies and Language Arts/Reading Initial Licensure Preparation
- Middle Childhood Education (4-9) Social Studies and Science Initial Licensure Preparation
- Middle Childhood Education–Language Arts and Reading (4-9) Additional Licensure Preparation

- Middle Childhood Education–Mathematics (4-9) Additional Licensure Preparation
- Middle Childhood Education–Science (4-9) Additional Licensure Preparation
- Middle Childhood Education–Social Studies (4-9) Additional Licensure Preparation
- Principal Grades 4-9 Licensure Preparation
- Principal Grades 5-12 Licensure Preparation
- Principal Grades PK-6 Licensure Preparation
- Reading Endorsement Preparation
- School Health Education (P-12) Additional Licensure Preparation
- Special Education Deaf Education Additional Licensure Preparation
- Special Education Deaf Education Initial Licensure Preparation
- Special Education Early Childhood (PK-5) Additional Licensure Preparation
- Special Education Early Childhood (PK-5) Initial Licensure Preparation
- Special Education Mild/Moderate Needs Additional Licensure Preparation
- Special Education Mild/Moderate Needs Initial Licensure Preparation
- Special Education Moderate/Intensive Needs Additional Licensure Preparation
- Special Education Moderate/Intensive Needs Initial Licensure Preparation
- Special Education Pre-K Special Needs Endorsement Preparation
- Special Education Transition-to-Work Endorsement Preparation

College Policies

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

EHHS General

The non-degree EHHS General category is intended for students who are exploring programs in EHHS and are not yet ready to declare a major or do not meet the criteria for their intended major. Because a degree cannot be earned while in EHHS General, it is important that students declare a major before earning 45 credit hours to facilitate timely progress toward a degree. Students will not be permitted to continue in EHHS General after accumulating 45 credit hours.

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic

reasons. Grades of C- or below are not counted toward completion of the certificate.

- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity
- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:
  - MATH 14001 (or equivalent)
  - MATH 14002
- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following courses (i.e., both courses must be completed with a minimum C grade for graduation):
  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration (minimum C grade) to be eligible for advanced study. Students should meet with their advisor.
- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science, Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.
- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas: pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified

windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

College of Education, Health and Human Services Faculty

School of Foundations, Leadership and Administration Faculty

- Boske, Christa A. (2008), Professor, Ed.D., Northern Illinois University, 2006
- Chuang, Ning Kuang (2005), Associate Professor, Ph.D., Texas Tech University, 2005
- Clark, Debra L. (1995), Professor, Ph.D., Kent State University, 2003
- Damrow, Amy (2014), Associate Professor, Ph.D., Michigan State University, 2011
- Daniels, Michael A. (2024), Assistant Professor, Ph.D., Kent State University, 2022
- Dees, David M. (1991), Associate Professor, Ph.D., Kent State University, 2000
- Devine, Mary Ann (1997), Professor, Ed.D., University of Georgia, 1997
- Eckert, Erica L. (2003), Assistant Professor, Ph.D., Kent State University, 2012
- Eith, Andrew S. (2014), Associate Lecturer, New England Culinary Institute, 2013
- Hall, Kayon (2022), Assistant Professor, Ph.D., Michigan State University, 2021
- Hudson, Tara D. (2017), Associate Professor, Ph.D., North Carolina State, 2015
- Israeli, Aviad A. (2020), Professor, Ph.D., Kent State University , 1997
- Kosmidis, Aryn C. (2010), Associate Professor, Ph.D., The Ohio State University, 2010
- Lee, Kiwon (2017), Associate Professor, Ph.D., Penn State University, 2013
- Lepp, Andrew P. (2004), Professor, Ph.D., University of Florida, 2004
- Levinson, Natasha (1997), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 2001
- Li, Ji-Ann (2012), Professor, Ph.D., The Ohio State University, 2012
- Lyberger, Mark R. (1996), Professor, Ph.D., The Ohio State University, 1996
- Mulrooney, Aaron L. (1992), Associate Professor, J.D., University of Akron, 1990
- Niesz-Kutsch, Tricia (2004), Professor, Ph.D., University of Pennsylvania, 2003
- Parr, Mary G. (1992), Professor, Ph.D., University of Illinois-Urbana, Champaign, 1992
- Porter, Christa J. (2017), Associate Professor, Ph.D., University of Georgia, 2013
- Pringle, Eboni J. (1998), Assistant Professor, Ph.D., Kent State University, 2014
- Ray-Tomasek, Jennifer L. (1998), Associate Professor, Ph.D., Kent State University, 2004
- Sambolin Morales, Astrid N. (2022), Assistant Professor
- Schenker, Jason D. (2000), Professor, Ph.D., Kent State University, 2007

- Walton-Fisette, Theresa A. (2003), Professor, Ph.D., University of Iowa, 2002
- Wang, Philip C. (1990), Associate Professor, Ph.D., Pennsylvania State University, 1991
- Yim, Hyong Il (2015), Associate Professor, Ph.D., University of Georgia, 2015

School of Health Sciences Faculty

- Anderson, Alyssa (2023), Assistant Professor, Ph.D., University of North Carolina at Raleigh, 2023
- Arnold, Hayley S. (2010), Associate Professor, Ph.D., Vanderbilt University, 2007
- Axiotis, Irene R. (1985), Professor, Ph.D., Kent State University, 1996
- Backus, Angela S. (2003), Professor, Ph.D., Kent State University, 2010
- Baker, Emily A. (2012), Associate Lecturer, M.S., Case Western Reserve, 2001
- Barikoo, Ali (2017), Associate Professor, Ph.D., University of Florida, 2017
- Barkley, Jacob E. (2006), Professor, Ph.D., University at Buffalo, SUNY, 2007
- Berk, Lynn V. (2008), Senior Lecturer, M.A., Cleveland State University, 1981
- Bernert, Donna J. (2007), Associate Professor, Ph.D., Southern Illinois University, 2005
- Blakely, Carmen M. (2007), Associate Professor, Ed.D., AT Still University, 2020
- Bolden, William (2024), Lecturer, M.A., Kent State University, 2014
- Caine-Bish, Natalie L. (1997), Associate Professor, Ph.D., Kent State University, 2002
- Ding, Kele (2005), Professor, Ph.D., Indiana University-Bloomington, 2000
- Durant, Kathleen M. (2019), Assistant Professor, Ph.D., University Of Memphis, 2017
- Falcone, Tanya R. (2007), Senior Lecturer, M.S., Kent State University, 2009
- Forbes, Myrna A. (1998), Senior Lecturer, Au.D., University of Florida, 2005
- Glickman, Ellen L. (1995), Professor, Ph.D., University of Pittsburgh, 1988
- Ha, Eun-Jeong (2004), Professor, Ph.D., The Ohio State University, 1999
- Hale, Catherine C. (2000), Senior Lecturer, M.S., Indiana University, Bloomington, 1995
- Harnar, Hannah M. (2011), Associate Professor, M.S., Kent State Unviersity, 2013
- Huston, Jeffery L. (2007), Professor, Ed.D., Capella University, 2017
- Huyck, Julia J. (2013), Associate Professor, Ph.D., Northwestern University, 2010
- Jajtner, Adam (2016), Associate Professor, Ph.D., University of Central Florida, 2016
- Jonas, Jay C. (2006), Professor, Ph.D., Kent State University, 2018
- Kingsley, J. Derek (2013), Professor, Ph.D., Florida State University, 2009
- Kolonich, Erin M. (2017), Associate Lecturer, George Washington University, 2001
- Krumm, Mark P. (2005), Associate Professor, Ph.D., Wichita State University, 1990
- Magee, Meghan K. (2023), Assistant Professor, Ph.D., George Mason University, 2023
- Malone, Megan (2012), Senior Lecturer, M.A., Case Western Reserve University, 2000
- Matthews, Jamie C. (2014), Associate Lecturer, M.S., Kent State University, 2004
- McDaniel, John (2011), Professor, Ph.D., University of Utah, 2009
- Miracle, Amy L. (2012), Associate Professor, Ph.D., University of Nevada-Las Vegas, 2013
- O'Flannigan, Cara M. (2016), Associate Lecturer, M.A., Case Western Reserve University, 2007
- Peer, Kimberly S. (1999), Professor, Ed.D., University of Akron, 2001
- Ridgel, Angela L. (2008), Professor, Sc.D., Marshall University, 2000
- Roche, Jennifer M. (2014), Associate Professor, Ph.D., University of Memphis, 2011
- Visker, Jennifer N. (2016), Associate Lecturer, M.A., Case Western Reserve University, 2001
- Wagner, Laurie M. (1997), Associate Professor, Ph.D., Kent State University, 2008

School of Lifespan Development and Educational Sciences Faculty

- Alexander, Donna C. (2008), Associate Lecturer, M.B.A., Ashland University, 2004
- Anhalt, Karla (2003), Professor, Ph.D., West Virginia University, 2000
- Balan, Christine M. (1986), Professor, Ph.D., Kent State University, 1994
- Barber, Brian R. (2013), Associate Professor, Ph.D., University of Florida, 2013
- Bedesem, Pena L. (2010), Associate Professor, Ph.D., University of Central Florida, 2010
- Bergh, Kathleen A. (2000), Senior Lecturer, M.Ed., University of Akron, 1985
- Blankemeyer, Maureen S. (1996), Associate Professor, Ph.D., Oklahoma State University, 1996
- Borriello, Giulia A. (2023), Assistant Professor, Ph.D., Pennsylvania State University, 2018
- Bruns, Kristin L. (2024), Assistant Professor, Ph.D., Kent State University, 2014
- Burgess, Sloane R. (2008), Associate Professor, Ph.D., Case Western Reserve University, 2007
- Chen, Ching-I (2014), Associate Professor
- Cichy, Kelly E. (2008), Professor, Ph.D., Pennsylvania State University, 2007
- Cimera, Robert E. (2007), Professor, Ph.D., University of Illinois-Urbana, Champaign, 1998
- Cowan, Richard J. (2003), Associate Professor, Ph.D., University of Nebraska, 2003
- Cureton, Jenny (2016), Associate Professor, Ph.D., University of Northern Colorado, 2016
- Erby, Adrienne (2021), Assistant Professor, Ph.D., University of North Carolina-Charlotte, 2014
- Guillot-Miller, Lynne M. (2003), Associate Professor, Ph.D., University of New Orleans, 2003

- Harjusola-Webb, Sanna M. (2006), Associate Professor, Ph.D., University of Kansas, 2006
- Herman McMillan, Emily R. (2024), Assistant Professor, Ph.D., The Ohio State University, 2021
- Jencius, Martin J. (2000), Associate Professor, Ph.D., University of South Carolina, 1996
- Jones, Samantha K. (2020), Assistant Professor, M.A., Kent State University, 2015
- Kenyon, Cynthia (2009), Associate Professor, Ph.D., Kent State University, 2018
- Krise, Olivia B. (2003), Lecturer, M.Ed., Kent State University, 2012
- Kritzer, Karen (2007), Associate Professor, Ph.D., University of Pittsburgh, 2007
- Liou, Chih-Ling (2014), Associate Professor, Ph.D., Virginia Polytechnic Institute and State University, 2011
- Lockwood, Adam B. (2021), Associate Professor, Ph.D., Northern Arizona University, 2015
- Lockwood, Adam B. (2024), Associate Professor, Ph.D., Northern Arizona University, 2015
- Manring, Danielle E. (2013), Lecturer, M.Ed., Kent State University, 2019
- McCartney, Jamie L. (2007), Associate Professor, Ph.D., University of Akron, 2004
- Miller, Jennifer L. (2016), Associate Lecturer, M.Ed., Kent State University, 2019
- Moore, Alma J. (2012), Assistant Professor, Ph.D., Kent State University, 2019
- Morris, Bradley J. (2012), Professor, Ph.D., The Ohio State University, 1998
- Oldham, Bryn (2024), Assistant Professor, M.Ed., Kent State University, 2007
- Osborn, Cynthia J. (1997), Professor, Ph.D., Ohio University, 1996
- Salpietro, Lena (2023), Assistant Professor, Ph.D., University of Toledo, 2020
- Sansosti, Frank J. (2006), Professor, Ph.D., University of South Florida, 2005
- Smith, Gregory C. (2001), Professor, Ph.D., University of Rochester, 1983
- Stevenson, Nathan (2015), Associate Professor, Ph.D., Michigan State University, 2015
- Storlie, Cassandra A. (2013), Professor, Ph.D., University of Iowa, 2013
- Tankersley, Melody J. (1993), Professor, Ph.D., University of Virginia, 1992
- Tobias, Scott A. (2009), Associate Professor, D.Sci., University of Missouri, 2009
- Toepfer, Steven M. (2004), Associate Professor, Ph.D., The Ohio State University, 2001
- Unger, Darlene D. (2016), Professor, Ph.D., Virginia Commonwealth University, 2001
- Walker, Kathleen K. (2002), Associate Professor, Ph.D., Kansas State University, 2002
- Waugh, Jennifer A. (2012), Assistant Professor, Ph.D., Kent State University, 2019
- Wiley, Andrew L. (2008), Associate Professor, Ed.D., University of Virginia, 2008
- Zhang, Jing (2018), Associate Professor, Virgina Tech, 2012

School of Teaching, Learning and Curriculum Studies Faculty

- Bintz, William P. (2004), Professor
- Borgerding, Lisa (2007), Professor, Ph.D., Indiana University, Bloomington, 2007
- Caniglia, Joanne C. (2008), Professor, Ph.D., Kent State University, 1994
- Courtney, Scott A. (2010), Associate Professor, Ph.D., Arizona State University, 2010
- Crowe, Alicia R. (2001), Professor, Ph.D., Vanderbilt University, 2001
- Dever, Robin M. (2018), Associate Professor, Ph.D., Kent State University, 2008
- Durham, Brian S. (2022), Assistant Professor, Ph.D., Michigan State University, 2021
- Eckert, Kevin (2015), Associate Lecturer, M.Ed., Kent State University, 2017
- Ellison, Douglas (2017), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 2016
- Ferdig, Richard E. (2009), Professor, Ph.D., Michigan State University, 2000
- Gandolfi, Enrico (2015), Associate Professor, Ph.D., Sapienza University of Rome, 2014
- Gruhler, Danielle M. (1999), Professor, Ph.D., Kent State University, 2004
- Guivernau, Marta (2007), Assistant Professor, Ph.D., Purdue University, 1999
- Hannon, James C. (2017), Professor
- Hawley, Todd (2008), Professor, Ph.D., University of Georgia, 2008
- Heron, Michele L. (2004), Associate Professor, Ph.D., Kent State University, 2010
- Hollstein, Matthew S. (2015), Associate Professor, Ph.D., Ohio University, 2015
- Hutchins, Pamela K. (1993), Associate Lecturer, M.Ed., Kent State University, 1992
- Irving, Sonya E. (2013), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 2014
- Kamberelis, George (2023), Professor
- Kenyon, Elizabeth (2015), Associate Professor, Ph.D., Michigan State University, 2015
- Kim, Insook (2012), Professor, Ph.D., The Ohio State University, 2011
- Kirin, Melanie D. (2019), Lecturer, M.Ed., Kent State University, 2015
- Knapp, Kathryn A. (2007), Associate Professor, Ph.D., Kent State University, 2013
- Kosko, Karl W. (2012), Professor, Ph.D., Virginia Polytechnic Institute and State University, 2010
- Kroeger, Janice (2002), Professor, Ph.D., University of Wisconsin, Madison, 2003
- Kuo, Chia Ling (2005), Professor, Ph.D., Ohio University, 2005
- Lampe, Jennifer K. (2014), Lecturer, Bowling Green State University, 2010
- McCreight, Jennifer A. (2024), Assistant Professor, University of Georgia, 2012
- Miller Marsh, Monica A. (2012), Associate Professor, Ph.D., University of Wisconsin-Madison, 1997
- Mitchell, Stephen A. (1992), Professor, Ph.D., Syracuse University, 1992

- Monobe, Gumiko (2010), Associate Professor
- Mulvey, Bridget K. (2012), Associate Professor, Ph.D., University of Virginia-Main Campus, 2012
- Mupinga, Davison M. (2008), Professor, Ph.D., Louisiana State University-Baton Rouge, 1999
- Navy, Shannon L. (2017), Associate Professor, Ph.D., University of Georgia, 2014
- Novak, Elena (2015), Associate Professor, Ph.D., Florida State University, 2012
- Pech, Sandra (2000), Associate Professor, Ph.D., Kent State University, 2010
- Porto, Adonia F. (2006), Assistant Professor, Ph.D., Kent State University, 2017
- Potenza-Radis, Cheryl L. (2009), Assistant Professor, M.Ed., Miami University, 1993
- Pytash, Kristine E. (2006), Professor, Ph.D., Kent State University, 2009
- Ridley, Jacqueline N. (2020), Assistant Professor, Ph.D., Ohio University, 2020
- Roginski, Dawn R. (2017), Assistant Professor, Ph.D., Kent State University, 2020
- Sethna, Kim C. (2010), Assistant Professor, Ed.D., Walden University, 2022
- Stoll, Julia A. (2000), Professor, Ph.D., Kent State University, 2015
- Testa, Elizabeth A. (2013), Associate Professor, Ph.D., University of Akron, 2014
- Torres, Francisco L. (2021), Assistant Professor, Ph.D., University of Colorado-Boulder, 2020
- Walker, Amy (2022), Assistant Professor, Ph.D., Indiana University, 2022
- Walton-Fisette, Jennifer L. (2008), Professor, Ed.D., University of Massachusetts-Amherst, 2008
- Wang, Jiahui (2018), Assistant Professor, Ph.D., University of Florida, 2018
- Wilfong, Lori G. (2002), Associate Professor, Ph.D., Kent State University, 2006
- Wisdom, Sonya L. (2012), Professor, Ph.D., Kent State University, 2010
- Zolfaghari, Maryam (2018), Assistant Professor, Ph.D., Kent State University, 2023

College of Education, Health and Human Services

Education, Health and Human Services (EHHS)

EHHS 10095 SPECIAL TOPICS IN EDUCATION, HEALTH AND HUMAN SERVICES 1-4 Credit Hours
(Repeatable for credit) Selected topics intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of faculty within the College of Education, Health and Human Services.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

EHHS 10729 ACHIEVING ACADEMIC SUCCESS 1 Credit Hour
The purpose of this course is to help students who are on academic probation to develop and apply critical thinking skills, and continue to clarify their purpose, meaning, and direction. The goal of this course is to help students improve their academic standing as quickly as possible.
Prerequisite: Any major in the College of Education, Health and Human Services (EHHS).
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

EHHS 12017 EXPLORING PROFESSIONAL LITERACY PRACTICES 3 Credit Hours
Students will explore and develop the literacy practices necessary for success in college and careers in education, health and human services.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHHS 20092 PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES (ELR) 1-12 Credit Hours
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-36 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EHHS 40092 PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES (ELR) 1-6 Credit Hours
Supervised work experiences that are integrated with academic instruction and related to student's occupational goal.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EHHS 49592 STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION (ELR) 10 Credit Hours
Full-time student teaching, which includes a balanced experience in elementary and secondary health and physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: School Health Education or Physical Education and Sport Performance majors; and admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 45 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EHHS 50092 PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES 1-6 Credit Hours
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EHHS 50093 VARIABLE TOPIC WORKSHOP IN EDUCATION, HEALTH AND HUMAN SERVICES 1-3 Credit Hours
(Repeatable for credit) Variable topics; designed to respond to specialized needs of various groups within the context of trends issues and problems in the area education, health and human services.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

EHHS 75001 SYSTEMS THINKING IN PERSONAL AND PROFESSIONAL LEADERSHIP 3 Credit Hours
The development of personal and professional leadership characteristics and traits through a self-examination and in-depth examination of the literature. Students will develop an understanding of the role leadership plays in complex systems through the application of systems thinking concepts. The course will focus on the importance of personal and professional leadership in systems thinking and organizational change.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHHS 75501 THEORY AND PRACTICE OF LEADERSHIP 3 Credit Hours
Theoretical perspectives on leadership as a foundation for effective practice in a range of educational settings. Contemporary, evidence-based research will support the integration and synthesis of leadership theory in practice. Leadership theory, myths, traits, models, strategies and assessment tools for leadership will be infused for a historical and comprehensive approach to leadership as an essential construct in education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHHS 75502 ETHICAL LEADERSHIP IN EDUCATION 3 Credit Hours
Education is constantly undergoing change and ethical leadership in uncertain times is paramount. This course will discuss ethical elements of educational leadership in all settings in a case approach to connect ethical leadership theory to educational practice. It will blend ethical theory, leadership theory and case-analysis in a critical thinking based framework to position educational leaders to grapple with the complexities of contemporary ethical issues. Political, cultural, societal, organizational, and other forces on education will be evaluated through an ethical lens.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHHS 75515 CONTEMPORARY ISSUES IN EDUCATIONAL LEADERSHIP DEVELOPMENT 3 Credit Hours
This course will address contemporary issues in educational leadership development through the critical analysis and application of relevant literature to everyday challenges faced in educational organizations. Due to the dynamic nature of the content, key issues are likely to change, but will focus on, but not be limited to, culture and diversity issues, activism and advocacy, strategic planning, systemic and global impacts, assessment, technology, and leadership behaviors. Contemporary, peer-reviewed literature will guide the student through reflective, analytical considerations for successfully addressing these challenges in educational leadership.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHHS 75516 GROUP DYNAMICS IN EDUCATIONAL LEADERSHIP 3 Credit Hours
This course will connect educational leadership group dynamics theory to practice. Providing a foundation through contemporary literature, educational leadership will be contextualized in the study, formation, facilitation and dynamics of group behavior. Educational leadership group dynamics will be situated in the complex and changing educational cultures of learning organizations.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHHS 75517 DEMOCRACY AND LEADERSHIP: PHILOSOPHIES AND PRACTICES FOR DEMOCRATIC EDUCATION. 3 Credit Hours
This course examines leadership philosophies and practices that support and promote various methodological approaches to democratic education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHHS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EHHS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: EHHS 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EHHS 81099 CAPSTONE I 1-9 Credit Hours
(Repeatable for credit) The capstone will operate as a "dissertation in practice," focusing on a problem of practice and using either action research or improvement science as a methodology. Students' research will be aligned with the needs of their organizations, useful to their organizations and intended to effect positive change in their organizations. The research will culminate in a scholarly, comprehensive paper or project that integrates knowledge attained through coursework and research. Registration of course is required in at least two semesters, first of which will be the semester in which capstone work is began, and continuing until completion of 18 credit hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EHHS 82099 CAPSTONE II 1-9 Credit Hours
(Repeatable for credit) Continuation of EHHS 81099. Continuous registration required for students who have completed 18 credit hours of EHHS 81099 and until all degree requirements are met.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

School of Foundations, Leadership and Administration

Cultural Foundations (CULT)

CULT 10001 EXPLORING THE VALUE OF DIVERSITY: FINDING YOURSELF AND APPRECIATING DIFFERENCE IN OTHERS 1 Credit Hour
This course will focus on introducing lower-division students to the concept of self-identity development and how place-, cultural- and self-identity influences one's perceptions and assumptions of others who may not share similar experiences. Students will explore and reflect on their personal identity and how their race/ethnicity, beliefs, personality, expressions and cultural practices influence their perceptions of diverse populations; they will also explore the complexity of diversity in the United States and actively consider their place and role in our diverse society, as adults.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CULT 20091 PREPROFESSIONAL SEMINAR IN EDUCATIONAL STUDIES 2-4 Credit Hours
(Repeatable for credit) Introduction to the nature and scope of educational service delivery across settings, and to the social and cultural foundations of educational policies and programs. Open to any university student and to those considering alternative careers in education.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 2-4 other
Grade Mode: Standard Letter

CULT 26001 INTRODUCTION TO DISABILITY STUDIES 3 Credit Hours
Interdisciplinary exploration of conceptual theoretical, philosophical and legal aspects related to inclusion of individuals with disabilities in community life.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY 3 Credit Hours
This introductory course explores the purposes, organizations and outcomes of schooling from the perspectives of the field of social foundations of education. Candidates undertake critical inquiry into teaching as a profession. Licensure requirements, teachers' legal responsibilities and the accountability of public schools are also explored.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Education, TAG Education

CULT 39595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 2-4 Credit Hours
(Repeatable for credit) Directed reading and/or research of special interest or need to small groups of students in cultural foundations. Planned with and directed by a faculty member.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter-IP

CULT 39596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student program. Planned with and directed by a faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 40093 VARIABLE TITLE WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours
(Repeatable for credit) (Slashed with CULT 50093 and CULT 70093) Variable topics; designed to respond to specialized needs of various groups within the context of trends issues and problems in the educational foundations disciplines.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

CULT 46001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION 3 Credit Hours
(Slashed with CULT 56001 and CULT 76001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal considerations to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life.
Prerequisite: CULT 26001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 49570 SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION 3 Credit Hours
Explores the history, social context, and issues in multicultural education (formal PK-12) in the U.S. Students gain an appreciation of the challenges of equalizing opportunity of educational achievement, an understanding that is essential for 21st century educational leadership.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 50093 VARIABLE TITLE WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours
(Repeatable for credit) (Slashed with CULT 40093 and CULT 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

CULT 56001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION 3 Credit Hours
(Slashed with CULT 46001 and CULT 76001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal consideration to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 59570 SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION 3 Credit Hours
Explores the history, social context, and issues in multicultural education (formal PK-12) in the U.S. Students gain an appreciation of the challenges of equalizing opportunity of educational achievement, an understanding that is essential for 21st century educational leadership.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60011 SEMINAR IN EDUCATIONAL FOUNDATIONS: PRINCIPLES AND PRACTICES 3 Credit Hours
Through this course, students will learn about the field of social foundations of education and about the program. Students will be introduced to university and college resources that will help them find success in the program. They will also begin using perspectives from the field of social foundations of education to identify and explore problems of practice in their communities and their educational and cultural organizations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60030 SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY 3 Credit Hours
(Slashed with CULT 80030) The course will explore contemporary social contexts of education through the lenses of major sociological perspectives, including seminal theoretical works and emerging contemporary scholarship. Students will become familiar with the uses of classic and current sociological theories in order to understand contemporary educational issues.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60040 APPROACHES TO COMMUNITY ENGAGED INQUIRY 3 Credit Hours
(Slashed with CULT 80040) This course will focus on methods, tools and practices to engage in collaborative research/inquiry with communities, including non-profits, schools, families and/or practice settings (i.e., research with communities rather than about communities). Discussions and assignments will prompt students to identify research questions and appropriate methods to answer the questions. Students will also address issues of ethics, relationship-building and trust.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60050 HUMANITIES-ORIENTED RESEARCH IN EDUCATION 3 Credit Hours
(Slashed with CULT 80050) Course is designed to give students an understanding of humanities-oriented approaches to research in education. This includes disciplinary approaches to the study of education (philosophy, history, literary theory) as well as humanities oriented theoretical work in the social sciences. Students will develop facility with key concepts as well as approaches to method and research design within these approaches.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60199 THESIS I 2-6 Credit Hours
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met. Graduate standing.
Prerequisite: CULT 60199.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 65530 FOUNDATIONS OF EDUCATION AND HUMAN SERVICES 3 Credit Hours
Inquiry into the assumptions and implications of educational policies and practices in education and human service settings through the application of historical, philosophical and sociological perspectives.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 67015 DISABILITY, SOCIETY AND CULTURE 3 Credit Hours
(Slashed with CULT 77015) Provides students with the learning outcomes related to the cultural, political and social perspectives of disability. It will prepare students to have an in-depth global understanding of the nature, meaning and consequences of disability as it relates to social and environmental justice and barriers they experience. Perspectives will be examined through several theoretical lenses for greater understanding of the breadth of marginalization experienced by persons with disabilities. The course will culminate in identifying steps to address barriers in multiple contexts, decrease stigmas and promote greater societal inclusion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69510 CLASSICS IN PHILOSOPHY OF EDUCATION 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with CULT 79510) Philosophical exploration of the relationship between education and society and the dynamics of education through close reading and discussion of a selection of influential philosophical texts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69521 MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY 3 Credit Hours
Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69522 ETHICS IN PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with CULT 89522) An examination of ethics in schooling and other educational settings through foundational study and issue analysis; strong case study and professional application emphasis.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69530 MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION 3 Credit Hours
(Slashed with CULT 79530) An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69560 CONTEMPORARY PHILOSOPHY OF EDUCATION 3 Credit Hours
(Repeatable for credit) (Slashed with CULT 79560) Explores a range of contemporary philosophical perspectives on the moral and political dimensions of education. Students will be introduced to the philosophical frameworks through which these questions are discussed within the field of philosophy of education and they will have opportunity to engage these debates in the course of carefully structured writing assignments.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69564 HISTORY OF AMERICAN EDUCATION 3 Credit Hours
(Cross-listed with CULT 79564) European origins and American innovations in colonial education, rise of common school, completion of education ladder. Emphasis is on present status and recent developments.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69567 HISTORY OF HIGHER EDUCATION 3 Credit Hours
(Slashed with CULT 79567) (Cross-listed with HIED 66600 and HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American Higher Education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69569 INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES 3 Credit Hours
(Slashed with CULT 79569) An introductory seminar to explore current foundational issues and challenges in education worldwide (nonformal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69570 MULTICULTURAL EDUCATION: THEORY AND POLICY 3 Credit Hours
(Slashed with CULT 79570) Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69571 GLOBALIZATION AND EDUCATION 3 Credit Hours
(Slashed with CULT 79571) A multi-disciplinary exploration of the impact of globalization/localization on the delivery and uses of education and the dynamics of power and resistance in globalized education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69575 ANTHROPOLOGY AND EDUCATION 3 Credit Hours
(Slashed with CULT 79575) Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographies, students explore the myriad ways in which "culture" has been theoretically conceptualized as well as the implications of those conceptualizations for educational inquiry and practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69582 SOCIAL THEORIES IN EDUCATION 3 Credit Hours
(Slashed with CULT 89582) This course examines both classic and contemporary social theories in education. Students will become familiar with different social theories, specifically focusing on strengths and limitations of various theoretical approaches. Students will also analyze the role social theories have had upon educational research, and examine different conceptual issues within various social theoretical traditions.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69591 SEMINAR IN CULTURAL FOUNDATIONS 1-5 Credit Hours
(Repeatable for credit) (Slashed with CULT 89591) Variable topic seminar for advanced study of specialized topics and areas; in cultural foundations; emphasis on theory and research findings as related to educational practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

CULT 69592 ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS 2-6 Credit Hours
(Repeatable for credit) (Slashed with CULT 89592) Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 69595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 1-3 Credit Hours
(Repeatable for credit) (Slashed with CULT 89595) Specific topic course offering in response to emerging student or program needs in cultural foundations of education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CULT 69596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours
(Repeatable for credit) (Slashed with CULT 89596) Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 69598 RESEARCH IN CULTURAL FOUNDATIONS 1-6 Credit Hours
(Repeatable for credit) (Slashed with CULT 89598) Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 69691 VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION 3 Credit Hours
(Repeatable for credit) (Slashed with CULT 89691) This course explores a great idea in education from multiple disciplinary perspectives (philosophical, sociological, historical) and looks at the ways in which the idea in question has shaped or could transform educational practice at multiple levels.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69999 CAPSTONE 3 Credit Hours
In this course, students complete a culminating project for their M.Ed. degree. Each student's project will address a problem of practice within a cultural or educational organization that they have investigated in partnership with stakeholders.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

CULT 70093 VARIABLE TOPIC WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours
(Repeatable for credit) (Slashed with CULT 40093 and CULT 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. May be repeated once for total maximum credit of six hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

CULT 76001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION 3 Credit Hours
(Slashed with CULT 46001 and CULT 56001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal consideration to making adaptations and accommodations. Students complete a service-learning component that focuses on inclusion of people with disabilities in community life.
Prerequisite: CULT 77015; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 77015 DISABILITY, SOCIETY AND CULTURE 3 Credit Hours
(Slashed with CULT 67015)To provide students with the learning outcomes related to the cultural, political, and social perspectives of disability. It will prepare students to have an in-depth global understanding of the nature, meaning and consequences of disability as it relates to social and environmental justice and barriers they experience. Perspectives will be examined through several theoretical lenses for greater understanding of the breadth of marginalization experienced by persons with disabilities. The course will culminate in identifying steps to address barriers in multiple contexts, decrease stigmas and promote greater societal inclusion.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79510 CLASSICS IN PHILOSOPHY OF EDUCATION 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with CULT 69510) Philosophical exploration of the relationship between education and society and the dynamics of education through close reading and discussion of a selection of influential philosophical texts.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79530 MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION 3 Credit Hours
(Slashed with CULT 69530) An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79560 CONTEMPORARY PHILOSOPHY OF EDUCATION 3 Credit Hours
(Repeatable for credit) (Slashed with CULT 69560) Explores a range of contemporary philosophical perspectives on the moral and political dimensions of education. Students will be introduced to the philosophical frameworks through which these questions are discussed within the field of philosophy of education and they will have opportunity to engage these debates in the course of carefully structured writing assignments.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79564 HISTORY OF AMERICAN EDUCATION 3 Credit Hours
(Slashed with CULT 69564) European origins and American innovations in colonial education, rise of common school, completion of education ladder. Emphasis is on present status and recent developments.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79567 HISTORY OF HIGHER EDUCATION 3 Credit Hours
(Slashed with CULT 69567) (Cross-listed with HIED 66600 and HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American Higher Education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79569 INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES 3 Credit Hours
(Slashed with CULT 69569) An introductory seminar to explore current foundational issues and challenges in education worldwide (nonformal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability. Gaining a broad understanding of the place of education in a rapidly changing world is essential for 21st century educational leadership and the formation of constructive policies for the future of both developed and developing countries.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79570 MULTICULTURAL EDUCATION: THEORY AND POLICY 3 Credit Hours
(Slashed with CULT 69570) Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79571 GLOBALIZATION AND EDUCATION 3 Credit Hours
(Slashed with CULT 69571) A multi-disciplinary exploration of the impact of globalization/localization on the delivery and uses of education and the dynamics of power and resistance in globalized education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79575 ANTHROPOLOGY AND EDUCATION 3 Credit Hours
(Slashed with CULT 69575) Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographies, students explore the myriad ways in which "culture" had been theoretically conceptualized, as well as the implications of those conceptualizations for educational inquiry and practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 80030 SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY 3 Credit Hours
(Slashed with CULT 80030) The course will explore contemporary social contexts of education through the lenses of major sociological perspectives, including seminal theoretical works and emerging contemporary scholarship. Students will become familiar with the uses of classic and current sociological theories in order to understand contemporary educational issues.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 80040 APPROACHES TO COMMUNITY ENGAGED INQUIRY 3 Credit Hours
(Slashed with CULT 60040) This course will focus on methods, tools and practices to engage in collaborative research/inquiry with communities, including non-profits, schools, families and/or practice settings (i.e., research with communities rather than about communities). Discussions and assignments will prompt students to identify research questions and appropriate methods to answer the questions. Students will also address issues of ethics, relationship-building and trust.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 80050 HUMANITIES-ORIENTED RESEARCH IN EDUCATION 3 Credit Hours
(Slashed with CULT 60050) Course is designed to give students an understanding of humanities-oriented approaches to research in education. This includes disciplinary approaches to the study of education (philosophy, history, literary theory) as well as humanities oriented theoretical work in the social sciences. Students will develop facility with key concepts as well as approaches to method and research design within these approaches.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CULT 80091 SEMINAR: GREAT ISSUES IN EDUCATION 1-3 Credit Hours
(Repeatable for credit) Interdisciplinary review of current great issues in education that are catalogs for presentation after discussion with membership of the course.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

CULT 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: CULT 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 85535 INTERPROFESSIONAL STUDIES 3 Credit Hours
Comprehensive analysis of issues affecting professional practice in education and human service resource settings. Examination of questions related to interprofessional collaboration on policy, research and practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89521 MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY 3 Credit Hours
Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89522 ETHICS IN PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with CULT 69522) An examination of ethics in schooling and other educational settings through foundational study and issue analysis; strong case study and professional application emphasis.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89571 COMPARATIVE AND INTERNATIONAL EDUCATION 3 Credit Hours
Comparative analysis of contemporary educational policies and structures in large-and small scale societies throughout the world.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89581 PROSEMINAR IN CULTURAL FOUNDATIONS 3 Credit Hours
Doctoral seminar to familiarize Ph.D. students with cultural and social foundations of education as a field of study so that they may locate their inquiry within the relevant knowledge base and academic disciplines that comprise the cultural foundations of education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89582 SOCIAL THEORIES IN EDUCATION 3 Credit Hours
(Slashed with CULT 69582) This course examines both classic and contemporary social theories in education. Students will become familiar with different social theories, specifically focusing on strengths and limitations of various theoretical approaches. Students will also analyze the role social theories have had upon educational research, and examine different conceptual issues within various social theoretical traditions.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89591 SEMINAR IN CULTURAL FOUNDATIONS 1-5 Credit Hours
(Repeatable for credit) (Slashed with CULT 69591) Variable topic seminar for advanced study of specialized topics and areas in cultural foundations; emphasis on theory and research findings as related to educational practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

CULT 89592 ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS 2-6 Credit Hours
(Repeatable for credit) (Slashed with CULT 69592) Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 89595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 1-3 Credit Hours
(Repeatable for credit) (Slashed with CULT 69595) Specific topic course offering in response to emerging student or program needs in cultural foundations of education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CULT 89596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours
(Repeatable for credit) (Slashed with CULT 69596) Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 89598 RESEARCH IN CULTURAL FOUNDATIONS 1-6 Credit Hours
(Repeatable for credit) (Slashed with CULT 69598) Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 89691 VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION 3 Credit Hours
(Repeatable for credit) (Slashed with CULT 69691) This course explores a great idea in education from multiple disciplinary perspectives (philosophical, sociological, historical) and looks at the ways in which the idea in question has shaped or could transform educational practice at multiple levels.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Educational Leadership K-12 (EDLE)

EDLE 40093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with EDLE 50093 and EDLE 70093)
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

EDLE 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with EDLE 40093 and EDLE 70093) Variable title workshop in educational administration.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

EDLE 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: EDLE 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 66492 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 3-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EDLE 76492) A field-based internship utilizing an inquiry-based learning model, requiring projects as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 66515 FACILITIES PLANNING AND ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 76515) Overview of facilities planning and administration, including architectural/ construction management, the educational program, restoration and maintenance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66517 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION 3 Credit Hours
(Slashed with EDLE 76517) Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state and national level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66518 SCHOOL AND SPECIAL EDUCATION LAW 3 Credit Hours
(Slashed with EDLE 76518) Constitutional, statutory, and case law involving schools, special and regular education students, administrators, parents and others are studied.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66520 SCHOOL LAW FOR TEACHERS AND PRINCIPALS 3 Credit Hours
(Slashed with EDLE 76520) Selected principles of constitutional, statutory case and common law affecting the administration of schools generally and Ohio schools specifically.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66522 PUBLIC SCHOOL FINANCE AND ECONOMICS 3 Credit Hours
(Slashed with EDLE 76522) Analysis of national, state and local problems of collection custody and expenditure of public school funds.
Prerequisite: EDLE 66526; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66525 THE EDUCATIONAL PRINCIPALSHIP 3 Credit Hours
(Slashed with EDLE 76525) Organizing and administering elementary, middle level and secondary schools.
Prerequisite: EDLE 66526 or EDLE 76526; 16 hrs of EDLE; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66526 FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 76526) Examines theory and practice essential for administration. Skills and understanding are developed in theory goal setting staff development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66527 SCHOOL FINANCE FOR BUILDING ADMINISTRATORS 3 Credit Hours
(Slashed with EDLE 76527) Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process and fund raising and school groups.
Prerequisite: Major in Educational Leadership K-12, Higher Education Administration and Student Affairs or Higher Education Administration; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66529 LEADING FOR SOCIAL JUSTICE 3 Credit Hours
(Slashed with EDLE 76529) Centers on investigating a broad research agenda on leading for social justice within educational leadership. Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century schools. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary schools.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

EDLE 66531 INSTRUCTIONAL LEADERSHIP 3 Credit Hours
(Slashed with EDLE 76531) Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

EDLE 66533 CENTRAL OFFICE ADMINISTRATION: CURRICULUM AND PUPIL SERVICES 3 Credit Hours
(Slashed with EDLE 76533) Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 66534 THE SUPERINTENDENCY 3 Credit Hours
(Slashed with EDLE 76534) Focuses on major responsibilities of board of education and superintendent.
Prerequisite: EDLE 66526 or EDLE 76526; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66536 THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT 3 Credit Hours
(Slashed with EDLE 76536) Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district school classroom curriculum.
Prerequisite: Major in Educational Leadership K-12, Higher Education Administration and Student Affairs or Higher Education Administration; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66538 ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORMS 3 Credit Hours
(Slashed with EDLE 76538) Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micropolitics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 66540 WOMEN IN LEADERSHIP 3 Credit Hours
(Slashed with EDLE 76540) An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66542 PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION 3 Credit Hours
(Slashed with EDLE 76542) Principles and techniques needed by administrative specialists and supervisors (curriculum, pupil services, special education) are given. Research findings include changing human relations, change leadership, legal implications, group process, communication, coordination, management, observations, and conferencing skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66543 SCHOOL ADMINISTRATION IN URBAN SETTINGS 3 Credit Hours
(Slashed with EDLE 76543) This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city schools. Issues of focus include transportation, staffing, extracurricular support for students and more.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66544 COMMUNITY RELATIONS AND COMMUNICATION SKILLS 3 Credit Hours
(Slashed with EDLE 76544) Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 66591 SEMINAR IN EDUCATIONAL ADMINISTRATION 1-4 Credit Hours
(Repeatable for credit) Seminar in educational administration.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

EDLE 66595 SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with EDLE 76595) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EDLE 66596 INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION 2-4 Credit Hours
(Repeatable for credit) (Slashed with EDLE 76596) Projects as assigned.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 66598 RESEARCH IN EDUCATIONAL ADMINISTRATION 2-8 Credit Hours
(Repeatable for credit) Projects as assigned.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 66602 TECHNOLOGY LEADERSHIP IN EDUCATION 3 Credit Hours
(Slashed with EDLE 76602) Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tools for teaching, learning, assessment, management, planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.25 lecture, .75 other
Grade Mode: Standard Letter

EDLE 66747 PERSONNEL 3 Credit Hours
(Slashed with EDLE 76747) Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities and development of evaluation techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66750 COACHING AND MENTORING FOR TEACHER LEADERS 3 Credit Hours
Focuses on developing the knowledge, skills, and dispositions necessary for teacher leaders to provide high levels of effective coaching and mentoring for improving teaching practices and learning for all students. Specific approaches related to mentoring, coaching and per assistance will be examined and practiced.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66751 INSTRUCTIONAL LEADERSHIP FOR TEACHER LEADERS 3 Credit Hours
This course provides the tools that teacher leaders need to engage in the development, production, monitoring and evaluation of instructional methods and strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 70093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with EDLE 40093 and EDLE 50093) Variable title workshop in EDAD.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

EDLE 76492 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 3-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EDLE 76492) A field-based internship utilizing an inquiry-based learning model, requiring projects as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 76515 FACILITIES PLANNING AND ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 66515) Overview of facilities planning and administration, including architectural/ construction management, the educational program, restoration and maintenance.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76517 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION 3 Credit Hours
(Slashed with EDLE 66517) Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state, and national level.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76518 SCHOOL AND SPECIAL EDUCATION LAW 3 Credit Hours
(Slashed with EDLE 66518) Constitutional, statutory, and case law involving schools, special and regular education students, administrators, parents and others are studied.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76520 SCHOOL LAW FOR TEACHERS AND PRINCIPALS 3 Credit Hours
(Slashed with EDLE 66520) Selected principles of constitutional, statutory, case and common law affecting the administration of schools generally and Ohio schools specifically.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76522 PUBLIC SCHOOL FINANCE AND ECONOMICS 3 Credit Hours
(Slashed with EDLE 66522) Analysis of national, state and local problems of collection custody and expenditure of public school funds.
Prerequisite: EDLE 76526; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76525 THE EDUCATIONAL PRINCIPALSHIP 3 Credit Hours
(Slashed with EDLE 66525) Organizing and administering elementary, middle level and secondary schools.
Prerequisite: EDLE 66526 or EDLE 76526; 16 credit hours of EDLE; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76526 FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 66526) Examines theory and practice essential for administration. Skills and understanding are developed in theory goal setting staff development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76527 SCHOOL FINANCE FOR BUILDING ADMINISTRATORS 3 Credit Hours
(Slashed with EDLE 66527) Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process, and fund raising and school groups.
Prerequisite: Major in Educational Leadership K-12 or Higher Education Administration; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76529 LEADING FOR SOCIAL JUSTICE 3 Credit Hours
(Slashed with EDLE 66529) Centers on investigating a broad research agenda on leading for social justice within educational leadership. Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century schools. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary schools.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

EDLE 76531 INSTRUCTIONAL LEADERSHIP 3 Credit Hours
(Slashed with EDLE 66531) Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

EDLE 76533 CENTRAL OFFICE ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 66533) Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 76534 THE SUPERINTENDENCY 3 Credit Hours
(Slashed with EDLE 66534) Focuses on major responsibilities of board of education and superintendent.
Prerequisite: EDLE 66526 or EDLE 76526; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76536 THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT 3 Credit Hours
(Slashed with EDLE 66536) Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district/school/classroom curriculum.
Prerequisite: Major in Educational Leadership K-12; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76538 ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORM 3 Credit Hours
(Slashed with EDLE 66538) Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micropolitics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 76540 WOMEN IN LEADERSHIP 3 Credit Hours
(Slashed with EDLE 66540) An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76542 PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION 3 Credit Hours
(Slashed with EDLE 66542) Principles and techniques needed by administrative specialists and supervisors (curriculum, pupil services, special education) are given. Research findings include changing human relations, change leadership, legal implications, group process, communication, coordination, management, observations, and conferencing skills.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76543 SCHOOL ADMINISTRATION IN URBAN SETTINGS 3 Credit Hours
(Slashed with EDLE 66543) This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city schools. Issues of focus include transportation, staffing, extracurricular support for students and more.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76544 COMMUNITY RELATIONS AND COMMUNICATION SKILLS 3 Credit Hours
(Slashed with EDLE 66544) Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 76595 SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with EDLE 66595) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EDLE 76596 INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION 2-4 Credit Hours
(Repeatable for credit) (Slashed with EDLE 66596) Projects as assigned.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 76602 TECHNOLOGY LEADERSHIP IN EDUCATION 3 Credit Hours
(Slashed with EDLE 66602) Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tools for teaching, learning, assessment, management, planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.25 lecture, .75 other
Grade Mode: Standard Letter

EDLE 76747 PERSONNEL 3 Credit Hours
(Slashed with EDLE 66747) Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities and development of evaluation techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 80080 DISSERTATION PREPARATION SEMINAR 3 Credit Hours
Gain an in-depth understanding of the dissertation-writing process. Complete a dissertation proposal.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: EDLE 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 86591 SEMINAR IN EDUCATIONAL ADMINISTRATION 1-4 Credit Hours
(Repeatable for credit) Seminar in EDAD.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

EDLE 86598 RESEARCH IN EDUCATIONAL ADMINISTRATION 2-8 Credit Hours
(Repeatable for credit) Projects as assigned.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 2-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Higher Education (HIED)

HIED 46525 CAREERS IN HIGHER EDUCATION 3 Credit Hours
Familiarize students with the history of higher education; philosophies of higher education, financial, legal and political issues facing higher education; and the careers available in colleges and universities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 60093 VARIABLE TOPIC WORKSHOP IN HIGHER EDUCATION ADMINISTRATION 1-6 Credit Hours
(Slashed with HIED 70093) Variable topics; designed to respond to specialized needs of various groups with the contexts of trends, issues and problems in the various higher education disciplines.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66492 INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION 3-6 Credit Hours
(Slashed with HIED 76492)(Repeatable for a maximum of 12 credit hours) Field-based internship, minimum 150 clock hours, as approved by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66521 EMPLOYMENT LAW 3 Credit Hours
(Slashed with HIED 76521) Study of public and private sector bargaining law and all terms and conditions of employment.
Prerequisite: Higher education administration and student affairs; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66558 ADVANCED EDUCATIONAL LEADERSHIP 3 Credit Hours
(Slashed with HIED 86558) Course provides the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research writing and teaching skills# to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers.
Prerequisite: HIED 66657; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66592 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours
(Repeatable for credit) (Slashed with HIED 76592) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.
Prerequisite: At least 12 hours in higher education; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66594 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours
(Repeatable for credit) (Slashed with HIED 76594) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.
Prerequisite: At least 12 hours in higher education; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66595 SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 76595)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66596 INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HIED 76596) Individual projects as agreed upon by the instructor and student.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66598 RESEARCH IN HIGHER EDUCATION ADMINISTRATION 2-8 Credit Hours
(Repeatable for credit) Projects as assigned.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66600 HISTORY OF HIGHER EDUCATION 3 Credit Hours
(Cross-listed with CULT 69567 and CULT 79567)(Slashed with HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American higher education from the 17th through the 20th century. Students explore changes in student body curricula and purposes of higher education in the United States in the context of American culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66601 THE PRIVATE LIBERAL ARTS COLLEGE 3 Credit Hours
(Slashed with HIED 76601) Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions as well as the nature of specific examples of institutions.
Prerequisite: Higher education administration and student affairs major; and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66651 STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76651) Study of the history, philosophy, practices and organization of student affairs functions in higher education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66652 LAW AND HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76652) Provides for the examination of major legal aspects of the administration of institutions of higher learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66653 COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE 3 Credit Hours
(Slashed with HIED 76653) Study of theories concerning the development of college students and other adults, and the principles for translating theory into practice. Ed or Ed.S. Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Prerequisite: M.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66654 STUDENTS AND THE COLLEGE ENVIRONMENT 3 Credit Hours
(Slashed with HIED 76654) Study of the impact of different types of students and college environments on each other and within the context of a changing society.
Prerequisite: HIED 66653; and graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66655 CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 76655) Study of management responsibilities and leadership issues of student affairs administrators.
Prerequisite: HIED 66652 and HIED 66653 and HIED 66657; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66656 HIGHER EDUCATION CURRICULUM 3 Credit Hours
(Slashed with HIED 76656) Introduces perspectives on curriculum development, implementation and assessment in higher education. Course addresses theoretical, historical, political and contemporary perspectives on higher education curriculum.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66657 LEADERSHIP IN EDUCATION ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 76657) By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness. Ed or Ed.S. Higher Education Administration and Student Affairs major or Sport Administration major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education.
Prerequisite: M.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66658 THE COMMUNITY COLLEGE 3 Credit Hours
(Slashed with HIED 76658) A study of the foundations, structure, programs and issues of community college education in the United States.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66660 FACULTY ROLES AND RESPONSIBILITIES 3 Credit Hours
(Slashed with HIED 76660) A study of faculty roles and responsibilities in American higher education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66662 POLITICS AND POWER IN ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 76662) Course is designed to provide a conceptual framework for understanding the multifaceted processes of policy-making that take place in both internal and external settings in organizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66663 STATUS OF WOMEN IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76663) Provides a comprehensive overview of the historical, contemporary and scholarly perspectives on women students, faculty, administrators and staff. Students explore why and how women and men experience higher education differently, by drawing on scholarly contributions, feminist theoretical and research perspectives and historical, cultural and psychological contexts. The course considers how the context, recognition of power, other dimensions of identities and desire to change society and the academy have fueled and shaped feminist study of the history and condition of women in higher education. Students explore these issues through various media, and they also have the opportunity to investigate a real-life problem of their choice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66665 TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 76665) Exploration of technology, systems and data analysis essential to the practice of higher education administration. Students examine and apply tools used for the organization, analysis and dissemination of information, including, but not limited to, ERP systems, learning management systems, web applications for data collection and office productivity software. Students perform tasks typically requested of administrators related to budget or workload management, managing lists and or rosters, exploring trend data for decision-making and generating charts, tables and other data for reporting needs. Survey design and construction using online applications are a significant component of this course. It is strongly advised that students taking the course have moderate experience with office productivity software.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66666 FINANCIAL MANAGEMENT IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76666) Course covers financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66667 BUSINESS ADMINISTRATION IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76667) Course introduces students to the administrative and business management of institutions of higher education. Covers topics on institutional planning, space management, insurance matters, personnel administration and purchasing and facility management.
Prerequisite: HIED 66657; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66669 ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76669) Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66670 INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS 3 Credit Hours
(Slashed with HIED 76670) Students study the historical and current development of the internationalization of higher education institutions. They explore higher education administrative leadership characteristics; social, political and economic factors; and national and international relationships that have affected various countries and regions. They also examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions. Ed or Ed.S. Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Prerequisite: M.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66671 THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76671) Course covers racial, ethnic and inclusive diversity and multiculturalism in U.S. higher education settings. Diversity is discussed from a historical perspective, providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; curriculum and pedagogy matters; research issues; law and policy issues; and strategic planning for institution diversity in higher education.
Prerequisite: Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66672 INTERNATIONAL STUDENTS AND AMERICAN COLLEGES 3 Credit Hours
(Slashed with HIED 76672) Course bridges theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level.
Prerequisite: Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66673 RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76673) Examines and analyzes research related to higher education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad is discussed thoroughly.
Prerequisite: Higher education administration and student affairs major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66674 COMPARATIVE HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76674) Students learn the differences between comparative, international and cross-border education. They reflect on how the U.S. higher education system grew out of specific historical, cultural and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate.
Prerequisite: Higher education administration and student affairs major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66675 DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS 3 Credit Hours
(Slashed with HIED 76675) Students examine the many critical aspects of designing, planning and implementing an education abroad program. Students analyze components an education abroad program and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities and safety issues. Students also develop skills in conducting needs assessments and program evaluations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66676 INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS 3 Credit Hours
(Slashed with HIED 76676) Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyze cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning (particularly in higher education contexts) are reviewed, with implications for program design in education abroad, work with international students and other international education contexts.
Prerequisite: Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66677 WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES 3 Credit Hours
(Slashed with HIED 76677) Course examines the role of the community college in workforce, economic and community development and within the context of social, economic and technology shifts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66678 ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION 3 Credit Hours
(Slashed with HIED 76678) Course addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66679 CAREER ADVISING: THEORY AND PRACTICE 3 Credit Hours
(Slashed with HIED 76679) Develop practical skills in providing developmentally appropriate theory based academic and career advising to assist individuals in adding meaningful and purposeful work into their lives.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIED 66680 ADMINISTRATION OF CAREER AND ADVISING SERVICES 1 Credit Hour
(Slashed with HIED 76680) Examines contemporary issues in administration of career and academic advising services. Challenges students to rethink the models and methods used to prepare individuals to enter the workforce and navigate their careers.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HIED 66681 ADMINISTRATION OF ADVISING SERVICES 3 Credit Hours
(Slashed with HIED 76681) Examines contemporary issues in administration of academic advising services. Challenges students to rethink models and methods used to prepare individuals to enter the workforce and navigate their careers.
Prerequisite: HIED 66653; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66733 INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 76733) Students working in task groups learn about interpersonal, group and inter-group dynamics in organizations through lectures, discussions and analysis of their in-group experiences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66745 EQUITY, JUSTICE AND U.S. HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76745) Examines issues of equity and justice in the U.S. higher education, including historical origins, access to higher education, students' experiences within colleges and universities and outcomes of higher education. Course also focuses on the role of higher education as a social institution, including higher education as a public good and the intersection of higher education with current social issues such as labor and free speech.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66749 ASSESSMENT AND ACCREDITATION IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76749) Course provides an understanding of current assessment and evaluation methods in higher education settings. Topics span from individual course assessment through institutional accreditation processes.
Prerequisite: Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, Internationalization of Higher Education or Institutional Research and Assessment.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66755 ADMINISTRATION OF INTERCOLLEGIATE ATHLETICS 3 Credit Hours
(Slashed with HIED 86755) The purpose of this course is to analyze the various administrative roles in intercollegiate athletics within the context of higher education and examine the theory and practice associated with academic integrity and student-athlete wellbeing. In addition, this course will provide an overview of "best practices" pertaining to institutional control as governed by national, conference and institutional regulations.
Prerequisite: Higher Education Administration and Student Affairs major; and graduate standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66789 PLANNING AND IMPLEMENTING STUDY ABROAD WHILE STUDYING ABROAD 3 Credit Hours
(Slashed with HIED 76789) Students learn the principles and practice of designing and delivering effective study- abroad programs through Kent State locations. Students observe summer programs; study the principles of developing effective study abroad experiences; and meet with university program officials, faculty, facility support staff, private third-party providers of study abroad and the community, in addition to such onsite support services as legal advisors, health professionals and housing offices.
Prerequisite: Graduate standing.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

HIED 70093 VARIABLE TOPIC WORKSHOP IN HIGHER EDUCATION ADMINISTRATION 1-6 Credit Hours
(Slashed with HIED 60093) Variable topics# designed to respond to specialized needs of various groups with the contexts of trends, issues and problems in the various higher education disciplines.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76492 INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION 3-6 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Slashed with HIED 66492) Field-based internship of at least 150 clock hours, as approved by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76521 EMPLOYMENT LAW 3 Credit Hours
(Slashed with HIED 66521) Study of public and private sector bargaining law and all terms of employment.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76592 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours
(Repeatable for credit) (Slashed with HIED 66592) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.
Prerequisite: At least 12 hours in higher education; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76595 SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 66595) (Repeatable for credit) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76596 INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HIED 66596) Individual projects as agreed upon by the instructor and student.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76598 RESEARCH IN HIGHER EDUCATION ADMINISTRATION 2-8 Credit Hours
(Repeatable for credit) Projects as assigned.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 2-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76600 HISTORY OF HIGHER EDUCATION 3 Credit Hours
(Cross-listed with CULT 69567 and CULT 79567)(Slashed with HIED 66600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American higher education from the 17th through the 20th century. Students explore changes in student body curricula and purposes of higher education in the United States in the context of American culture.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76601 THE PRIVATE LIBERAL ARTS COLLEGE 3 Credit Hours
(Slashed with HIED 66601) Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions as well as the nature of specific examples of institutions.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76651 STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66651) Study of the history, philosophy, practices and organization of student affairs functions in higher education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76652 LAW AND HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66652) Provides for the examination of major legal aspects of the administration of institutions of higher learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76653 COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE 3 Credit Hours
(Slashed with HIED 66653) Study of theories concerning the development of college students and other adults, and the principles for translating theory into practice.
Prerequisite: PhD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76654 STUDENTS AND THE COLLEGE ENVIRONMENT 3 Credit Hours
(Slashed with HIED 66654) Study of the impact of different types of students and college environments on each other and within the context of a changing society.
Prerequisite: HIED 76653; and doctoral standing; and special approval of the instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76655 CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 66655) Study of management responsibilities and leadership issues of student affairs administrators.
Prerequisite: HIED 76652 and 76653 and 76657; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76656 HIGHER EDUCATION CURRICULUM 3 Credit Hours
(Slashed with HIED 66656) Introduces perspectives on curriculum development, implementation and assessment in higher education and addresses theoretical, historical, political and contemporary perspectives on higher education curriculum.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76657 LEADERSHIP IN EDUCATION ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 66657) By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness.
Prerequisite: PHD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, Internationalization of Higher Education, or Institutional Research and Assessment; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76658 THE COMMUNITY COLLEGE 3 Credit Hours
(Slashed with HIED 66658) A study of the foundations, structure, programs and issues of community college education in the United States.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76660 FACULTY ROLES AND RESPONSIBILITIES 3 Credit Hours
(Slashed with HIED 66660) A study of faculty roles and responsibilities in American higher education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76662 POLITICS AND POWER IN ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 66662) Course is designed to provide a conceptual framework for understanding the multifaceted processes of policy-making that take place in both internal and external settings in organizations.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76663 STATUS OF WOMEN IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66663) Provides a comprehensive overview of the historical, contemporary and scholarly perspectives on women students, faculty, administrators and staff. Students explore why and how women and men experience higher education differently, by drawing on scholarly contributions, feminist theoretical and research perspectives and historical, cultural and psychological contexts. The course considers how the context, recognition of power, other dimensions of identities and desire to change society and the academy have fueled and shaped feminist study of the history and condition of women in higher education. Students explore these issues through various media, and they also have the opportunity to investigate a real-life problem of their choice.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76665 TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours

(Slashed with HIED 66665) Exploration of technology, systems and data analysis essential to the practice of higher education administration. Students examine and apply tools used for the organization, analysis and dissemination of information, including, but not limited to, ERP systems, learning management systems, web applications for data collection and office productivity software. Students perform tasks typically requested of administrators related to budget or workload management, managing lists and or rosters, exploring trend data for decision-making and generating charts, tables and other data for reporting needs. Survey design and construction using online applications are a significant component of this course. It is strongly advised that students taking the course have moderate experience with office productivity software.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76666 FINANCIAL MANAGEMENT IN HIGHER EDUCATION 3 Credit Hours

(Slashed with HIED 66666) Course covers financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76667 BUSINESS ADMINISTRATION IN HIGHER EDUCATION 3 Credit Hours

(Slashed with HIED 66667) Course introduces students to the administrative and business management of institutions of higher education. Covers topics on institutional planning, space management, insurance matters, personnel administration and purchasing and facility management.
Prerequisite: HIED 76657; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76669 ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION 3 Credit Hours

(Slashed with HIED 66669) Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76670 INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS 3 Credit Hours

(Slashed with HIED 66670) Students study the historical and current development of the internationalization of higher education institutions. They explore higher education administrative leadership characteristics; social, political and economic factors; and national and international relationships that have affected various countries and regions. They also examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions.
Prerequisite: PhD in Higher Education Administration major or EdS in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76671 THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION 3 Credit Hours

(Slashed with HIED 66671) Course covers racial, ethnic and inclusive diversity and multiculturalism in U.S higher education settings. Diversity is discussed from a historical perspective providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; administrator and leadership issues; curriculum and pedagogy matters; research issues; law and policy issues and strategic planning for institutional diversity in higher education.
Prerequisite: PHD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76672 INTERNATIONAL STUDENTS AND AMERICAN COLLEGES 3 Credit Hours

(Slashed with HIED 66672) Course bridges theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level.
Prerequisite: PHD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76673 RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66673) Examines and analyzes research related to higher education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad is discussed thoroughly.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76674 COMPARATIVE HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66674) Students learn the differences between comparative, international and cross-border education. They reflect on how the United States higher education system grew out of specific historical, cultural and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76675 DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS 3 Credit Hours
(Slashed with HIED 66675) Students examine the many critical aspects of designing, planning and implementing an education abroad program. Students analyze components an education abroad program and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities and safety issues. Students also develop skills in conducting needs assessments and program evaluations.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76676 INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS 3 Credit Hours
(Slashed with HIED 66676) Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyze cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning (particularly in higher education contexts) are reviewed, with implications for program design in education abroad, work with international students and other international education contexts.
Prerequisite: PHD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76677 WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES 3 Credit Hours
(Slashed with HIED 66677) Course examines the role of the community college in workforce, economic and community development and within the context of social, economic and technology shifts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76678 ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION 3 Credit Hours
(Slashed with HIED 66678) Course addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76679 CAREER ADVISING: THEORY AND PRACTICE 3 Credit Hours
(Slashed with HIED 66679) Develop practical skills in providing developmentally appropriate theory based academic and career advising to assist individuals in adding meaningful and purposeful work into their lives.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIED 76680 ADMINISTRATION OF CAREER AND ADIVISING SERVICES 1 Credit Hour
(Slashed with HIED 66680) Examines contemporary issues in administration of career and academic advising services. Challenges students to rethink the models and methods used to prepare individuals to enter the workforce and navigate their careers.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HIED 76681 ADMINISTRATION OF ADVISING SERVICES 3 Credit Hours
(Slashed with HIED 66681) Examines contemporary issues in administration of academic advising services. Challenges students to rethink models and methods used to prepare individuals to enter the workforce and navigate their careers.
Prerequisite: HIED 76653; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76733 INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 66733) Students working in task groups learn about interpersonal, group and inter-group dynamics in organizations through lectures, discussions and analysis of their in-group experiences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76745 EQUITY, JUSTICE AND U.S. HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66745) Examines issues of equity and justice in U.S. higher education, including historical origins, access to higher education, students' experiences within colleges and universities, and outcomes of higher education. Course also focuses on the role of higher education as a social institution, including higher education as a public good and the intersection of higher education with current social issues such as labor and free speech.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76749 ASSESSMENT AND ACCREDITATION IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66749) This course is designed to provide an understanding of current assessment and evaluation methods in higher education settings. Topics will span from course assessment through institutional accreditation processes.
Prerequisite: Higher Education Administration major or Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, Internationalization of Higher Education or Institutional Research and Assessment.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76789 PLANNING AND IMPLEMENTING STUDY ABROAD WHILE STUDYING ABROAD 3 Credit Hours
(Slashed with HIED 76789) Students learn the principles and practice of designing and delivering effective study-abroad programs through Kent State locations. Students observe summer programs; study the principles of developing effective study abroad experiences; and meet with university program officials, faculty, facility support staff, private third-party providers of study abroad and the community, in addition to such onsite support services as legal advisors, health professionals and housing offices.
Prerequisite: Doctoral standing.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

HIED 80080 DISSERTATION PREPARATION SEMINAR 3 Credit Hours
Students gain an in-depth understanding of the dissertation writing process to complete their dissertation proposal.
Prerequisite: PHD in Higher Education Administration major; and doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, the first of which is a semester in which dissertation work is begun and continuation of 30 hours.
Prerequisite: PHD in Higher Education Administration major; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. D. in higher education administration major; and doctoral Standing.
Prerequisite: HIED 80199; and Ph.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 86558 ADVANCED EDUCATIONAL LEADERSHIP 3 Credit Hours
(Slashed with HIED 66558) Course provides the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research writing and teaching skills# to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers.
Prerequisite: HIED 76657; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 86559 ADVANCED STUDENT AND ADULT DEVELOPMENT 3 Credit Hours
Students develop an in-depth understanding of one or more current theories of student or adult development. They gain additional knowledge in student development theory and theory creation.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 86755 ADMINISTRATION OF INTERCOLLEGIATE ATHLETICS 3 Credit Hours
(Slashed with HIED 66755) The purpose of this course is to analyze the various administrative roles in intercollegiate athletics within the context of higher education and examine the theory and practice associated with academic integrity and student-athlete wellbeing. In addition, this course will provide an overview of "best practices" pertaining to institutional control as governed by national, conference and institutional regulations.
Prerequisite: Higher Education Administration and Student Affairs major or Higher Education Administration major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Hospitality and Event Management (HEM)

HEM 13022 SANITATION AND SAFETY PRINCIPLES AND PRACTICES 3 Credit Hours

This course is designed to prepare future hospitality managers to plan for and react to potentially dangerous situations that occur in the hospitality industry including food borne illness identification and prevention, safe alcohol service and management and CPR and First Aid administration. As part of the curriculum, students will train and become certified with the following regulatory authorities: ServSafe Manager/Ohio Level II food safety training, TIPs On Premise alcohol safety training and CPR/AED/1st Aid training.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service, ITAG Culinary and Food Service

HEM 13023 FUNDAMENTALS OF FOOD PRODUCTION 3 Credit Hours

This course focuses on basic to intermediate culinary fundamentals in the commercial kitchen, as well as kitchen management practices and procedures.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service

HEM 13024 INTRODUCTION TO HOSPITALITY MANAGEMENT 3 Credit Hours

An in-depth study of the career possibilities and opportunities in the hospitality and food service industries: including the aptitudes, skills, and knowledge needed to be successful. In a student's career venture and search for job satisfaction, the most rewarding decisions come from being aware of all the available options and career paths. The Hospitality Industry is vast in scope and volume of business. It is a growing, dynamic, and electrifying industry which will be examined initially through this intro course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service

HEM 20040 THE BUSINESS OF EVENT MANAGEMENT 3 Credit Hours

The course is designed as an introduction of the complex event management industry. The event planning cycle is the foundation for discovering the role of social life cycle events, non-profit and corporate events in our global economy.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 20160 SAFETY AND SECURITY RISK MANAGEMENT 3 Credit Hours

Students gain an understanding of the concepts related to risk management including duty of care, risk assessment, planning and evaluative of risk techniques used within the hospitality event management field. Focus will be on how to manage, reduce and transfer risks in order to provide a safe and secure environment for events.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 20201 FOOD AND BEVERAGE MANAGEMENT 3 Credit Hours

This class is designed to provide students with key concepts and practical skills that they need to be effective foodservice managers. Emphasis is placed on the role of food and beverage in the hospitality industry, types of food and beverage, menu development and analysis, marketing, personnel management, supply chain management, corporate social responsibility.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 20250 ADVANCED FOOD PRODUCTION 3 Credit Hours

A continuation of Fundamentals of Food Production. This course focuses on the integration of students' prior culinary training, academic studies and experience in the field with high quality ingredients, advanced cooking techniques and contemporary food preparation and stylings. In building on fundamentals previously learned, the students will examine the details of cuisine including food science, regionality, history, seasoning and flavoring techniques, plating and presentation methods.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter

HEM 21095 SPECIAL TOPICS IN HOSPITALITY AND EVENT MANAGEMENT 1-4 Credit Hours

(Repeatable for credit) Discussion of a major discipline or subject within the hospitality industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HEM 23030 HOTEL OPERATIONS 3 Credit Hours

The purpose of this course is to give students a basic understanding of the overall hotel operations. Students will be introduced to the principles and practices of managerial functions relating to the operation of hotels and other accommodations.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service

HEM 23212 INTRODUCTORY FOOD SCIENCE 3 Credit Hours
(Cross-listed with NUTR 23012) Principles of food preparation and quality evaluation, with an emphasis on food science concepts, nutrition, food consumption trends and government regulation.
Prerequisite: NUTR 23511.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: TAG Health

HEM 23335 HOSPITALITY EXPERIENCE MANAGEMENT 3 Credit Hours
A significant element in the service industry is managing customers' experiences. In order to provide a comprehensive, inter- and multi-disciplinary view, the course will be constructed in three modules. The first module will present the characteristics and dynamics of the service encounter. The second module will focus on successful service encounters (service quality) and its outcome (customer experience). The third module will present the dynamics of service delivery process, including service failure and service recovery issues. The three modules of this course will provide an opportunity to understand the dynamics of the service encounter, to manage service quality and to learn how to better deliver service experience to customers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 23336 CLUB MANAGEMENT 3 Credit Hours
Introduction to private club management and operations. Strategic planning, marketing, human resources, service excellence, legal issues and financial management will be emphasized within the context of food and beverage, golf and recreation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 23510 QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY 3 Credit Hours
(Cross-listed with NUTR 23510) The application of management principles in quantity food production and service systems, including safety and sanitation; production forecasting and management; distribution; and service, commercial equipment and physical facilities. Introduction to inventory, recipe standardization and considerations of nutrition, quality and sustainability in quantity production.
Prerequisite: NUTR 23112.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HEM 30110 FUNDRAISING AND PHILANTHROPIC EVENT MANAGEMENT 3 Credit Hours
This course will explore the role fundraising and philanthropy can play in the success of the non-profit and voluntary segments of the event and hospitality industry. The focus will center on sponsorship opportunities, grants, campaigns (capital and annual), planned giving and corporate partnerships and the intersection of events that support those components.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 30120 WEDDINGS AND SPECIAL EVENT PROTOCOL 3 Credit Hours
The course provides an in-depth analysis of weddings and special event protocol. Coursework will include client detailing, site selection, contract negotiation, etiquette, budgeting, vendor relations, marketing, timeline development and public relations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 30280 FUNDAMENTALS OF FOOD AND BEVERAGE SERVICE 3 Credit Hours
This course provides students with skills in service techniques, effective merchandising, guest relations, customer service, restaurant operations and service of beer, wine and spirits. Students will gain knowledge about equipment and use of equipment related to several styles of service, proper dress and sanitation, organization and responsibilities within the dining room.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 33020 LEGAL ISSUES IN THE HOSPITALITY AND EVENT INDUSTRY 3 Credit Hours
Overview and analysis of legal issues of concern to the hospitality operation. Topics include employment law, food and beverage liabilities, patron civil rights, local, state, and federal regulations; and franchising.
Prerequisite: HEM 13022 and HEM 13024 and MGMT 24163.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 33050 PROFESSIONAL PRACTICE IN HOSPITALITY AND EVENT MANAGEMENT 2 Credit Hours
Prepares students for professional work experiences in hospitality management. Career development and professional workplace issues are addressed. Etiquette, resume writing and interview techniques are topics that will be covered, along with workplace relationships, networking and ethical dilemmas in hospitality management. Students must have documentation of 400 work hours.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HEM 33129 CATERING AND BANQUET MANAGEMENT 3 Credit Hours
The course includes an in-depth analysis of all components of the catering profession including management, legal aspects, getting started in business, catering contracts, menu planning, beverage service, catering equipment, catering logistics, personnel, marketing, pricing, sanitation and safety practices, purchasing, accessory services, accounting and control practices.
Prerequisite: HEM 13022 and HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 33140 CONVENTION SALES AND MANAGEMENT 3 Credit Hours
From a sales and convention management perspective, the convention and meetings industry is examined. Students are introduced to all facets of the conventions and meetings industry.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 33145 BAKING AND PASTRY FUNDAMENTALS 3 Credit Hours
Building on the theoretical and practical foundations of Baking and Pastry Fundamentals, this course will help students develop advanced skills and knowledge in the production and selection of quality handcrafted and purchased products. Scientific principles and experimental methods will be explored and addition emphasis will be placed on advanced decorating and finishing techniques, yeast breads, sweet doughs, cakes, tortes, chocolate work.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service

HEM 33270 GLOBAL CUISINE 3 Credit Hours
Prepare, taste, serve, and evaluate traditional, regional dishes of Europe, Asia, and the Americas. Emphasis will be placed on history, ingredients, flavor profiles, preparations, and techniques representative of the cuisines.
Prerequisite: Sophomore standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter

HEM 37377 CASINO MANAGEMENT AND GAMING OPERATIONS 3 Credit Hours
Introduction to the various aspects of the casino and gaming industry. Students study the structure of casino organizations, gain basic understanding of gaming operations and responsible gaming. Casino environments are experienced through on-site visitations. Funds for travel are the student's responsibility, all students must be legal age of 21 prior to on-site class visitations.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 lecture, 1 lab
Grade Mode: Standard Letter

HEM 41093 VARIABLE TOPIC WORKSHOP IN HOSPITALITY AND EVENT MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Workshop setting dealing with a topic or topics in hospitality and event management. Learning experiences are provided in a wide range of areas.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HEM 41095 SPECIAL TOPICS IN HOSPITALITY AND EVENT MANAGEMENT 1-4 Credit Hours
(Repeatable for credit) Discussion of a major topic within a specific field of hospitality and event management.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HEM 41096 INDIVIDUAL INVESTIGATION IN HOSPITALITY AND EVENT MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Independent study in hospitality and event management.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HEM 43027 HOSPITALITY AND EVENT MANAGEMENT: HUMAN RESOURCE STRATEGIES (WIC) 3 Credit Hours
Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management focused case studies are incorporated.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024 and HEM 23030 and HRM 34180 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HEM 43030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours
(Slashed with HTM 53030)(Cross-listed with NUTR 43030 and NUTR 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.
Prerequisite: HEM 23212 or NUTR 23012; and HEM 23510 or NUTR 23510.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Health

HEM 43031 LAYOUT AND DESIGN OF HOSPITALITY OPERATIONS 3 Credit Hours
Analysis and planning for the layout and design of hospitality operations. Includes basic principles of design; space analysis; human factors; and equipment use, care, selection and layout for hospitality facilities based on the financial performance of the operation; codes and related regulations. An appreciation for cost effective engineering and architecture concerns pertaining to hospitality operations is developed.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024 and HEM 23030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43092 PRACTICUM IN HOSPITALITY AND EVENT MANAGEMENT (ELR) 1-6 Credit Hours
(Repeatable for credit) Supervised professional experience in the hospitality industry including operations such as restaurants, hotels, clubs, health care, theme parks and food distribution. Course assignments are included.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024 and HEM 23030 and HEM 33050; and junior or senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-36 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

HEM 43099 CAPSTONE: STRATEGIC HOSPITALITY AND EVENT MANAGEMENT (ELR) 2 Credit Hours
This capstone course provides a comprehensive view of the business setting of hospitality and tourism organizations. The course includes a review of the competitive business environments, competitive advantage, above-average performance and competitive strategies as they pertain to hospitality and tourism management. The course will highlight current strategic issues in hospitality and tourism management referring to the most recent literature (practitioners' literature and academic journals). The course concludes a capstone group case analysis of a business problem in hospitality management, food and beverage management or event management.
Prerequisite: HEM 13024 and HEM 23030 and MGMT 24163 and MKTG 25010; and senior standing.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HEM 43143 HOSPITALITY MEETINGS AND EVENT MANAGEMENT 3 Credit Hours
Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of association meetings, conventions and corporate events held in hospitality venues requiring food and beverage and/or lodging.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43226 FOOD AND BEVERAGE COST MANAGEMENT 3 Credit Hours
This course provides a comprehensive study of the cost control aspects of food and beverage operations that, when managed effectively, lead to profitability and ultimately success. Topics include purchasing, labor, beverage and food cost management (prime costs), budgeting, forecasting, cost analysis, inventory control and the overall factors that lead to the financial success of a food and beverage service operation.
Prerequisite: HEM 13024 and HEM 23030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43231 FOOD, WINE AND BEVERAGE PAIRING 3 Credit Hours
Provides knowledge of the sensory relationship of food, wine, beer and other spirits and the important role this process has on hospitality operations. Topics include developing an understanding of wine, beer and food pairing as a hierarchical process. Menu development and cooking the food play an important role in this class; food is chosen first then paired with the appropriate beverage. Students must be 21 years old to enroll in the class. Students must be 21 years old to enroll in the class.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

HEM 43325 HOSPITALITY AND EVENT MARKETING 3 Credit Hours
Application of marketing principles, practices and theories relevant to hospitality organizations. Case studies drawn from the hospitality industry are incorporated.
Prerequisite: HEM 13024 and HEM 23030 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43329 HOSPITALITY FINANCIAL POLICY 3 Credit Hours
Developing financial analysis skills and decision-making capabilities for short- and long-term financial management problems in the unique setting of service industries with a specific focus on hospitality organizations, restaurants, clubs, and resorts, through case analysis.
Prerequisite: HEM 13024 and HEM 23030 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43377 REVENUE MANAGEMENT 3 Credit Hours
Introduction to both the theory and the practice of revenue management. Through optimization techniques and data analytics, this class examines how hospitality firms manage resources and production capacity as well as make financial decisions in order to maximize performance and profitability.
Prerequisite: HEM 13024 and HEM 23030 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43388 LEADERSHIP AND ORGANIZATIONAL BEHAVIOR IN THE HOSPITALITY INDUSTRY 3 Credit Hours
This course provides students both study and practice in the latest concepts related to leadership and organizational behavior in the field of hospitality and to examine the factors that contribute to an ever-changing business world.
Prerequisite: HEM 13024 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Hospitality and Tourism Management (HTM)

HTM 51092 HOSPITALITY AND TOURISM MANAGEMENT PROFESSIONAL PRACTICUM 3 Credit Hours
(Repeatable for credit) Supervised professional experience in the hospitality and-or tourism industry including operations such as restaurants, hotels, clubs, resorts, theme parks and casinos. Minimum of 405 hours in the field.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HTM 53025 HOSPITALITY MARKETING 3 Credit Hours
Application of marketing principles, practices and theories relevant to hospitality organizations. Internet marketing in hospitality. Case studies drawn from the hospitality industry are incorporated.
Prerequisite: Graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53027 HOSPITALITY HUMAN RESOURCE MANAGEMENT 3 Credit Hours
Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management focused case studies and current controversies are incorporated.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53029 HOSPITALITY FINANCIAL POLICY 3 Credit Hours
Developing financial analysis skills and decision making capabilities for short-and long-term financial management problems in the unique setting of service industries with a specific focus on hospitality organizations, restaurants, clubs and resorts, through case analysis.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours
(Slashed with HEM 43030)(Cross-listed with NUTR 43030 and NUTR 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53035 HOSPITALITY SERVICE QUALITY MANAGEMENT 3 Credit Hours
Tourism and hospitality are service industries. A significant element in these industries is management of the service encounters which will be the focus this course. In order to provide a comprehensive, inter- and multi-disciplinary view, the course will be constructed in three modules. The first module will present the characteristics and dynamics of the service encounter. The second module will focus on successful service encounters (service quality) and its outcome (customer satisfaction). The third module will present the dynamics of service failure and service recovery. The three modules of this course will provide an opportunity to understand the dynamics of the service encounter, to manage service quality and to learn how to identify service failure and plan for service recovery.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53040 STRATEGIC HOTEL MANAGEMENT 3 Credit Hours
The hotel manager's role as a strategic thinker is emphasized. Techniques such as co-alignment model, brand strategy, competitor analysis, market research, risk management and finance options are used to develop strategic plans in hotels.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

HTM 53043 HOSPITALITY MEETINGS MANAGEMENT 3 Credit Hours
Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of social association and corporate events, weddings, reunions, award banquets, receptions and annual meetings held in hospitality venues requiring food and beverage and/or lodging.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 55047 GLOBAL ISSUES OF TOURISM TRADE 3 Credit Hours
(Slashed with RPTM 45047) An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in tourism policy making. The course has an emphasis on reading and discussion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 56000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours
(Slashed with RPTM 46000) Investigation of travel and tourism development using an interdisciplinary social science approach.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 61098 RESEARCH IN HOSPITALITY MANAGEMENT 1-15 Credit Hours
(Repeatable for credit) Research for master's-level graduate students. Credit earned may be applied toward meeting degree requirements if school approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

HTM 61099 MASTERS PROJECT IN HOSPITALITY MANAGEMENT 2-6 Credit Hours
(Repeatable for credit) Completion and successful defense of master's project. Master's project students must register for a total of 6 credit hours, 2-6 in a single semester; distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HTM 61199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students register for a total of 6 credit hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HTM 61299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis II students must continue registration each semester until all degree requirements are met.
Prerequisite: HTM 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HTM 63022 CURRENT ISSUES IN HOSPITALITY AND TOURISM MANAGEMENT 3 Credit Hours
Current research and management issues in hospitality operations are explored through the peer-reviewed and professional literature. Management or revenue topics with implications for hospitality managers are included.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 63024 MANAGEMENT OF FOOD AND NUTRITION SERVICES 3 Credit Hours
Management issues in healthcare, food and nutrition services, child nutrition programs and other noncommercial food services will be examined. The impact of quality standards, public policy and current societal trends upon management of noncommercial operations will be studied.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 63091 RESEARCH SEMINAR 1 Credit Hour
(Repeatable for credit) Presentation and discussion of research and projects by students and faculty. 1 credit hour to be applied toward degree requirements.
Prerequisite: Graduate standing.
Corequisite: SPAD 63098 or SPAD 63199 or SPAD 63299 or HTM 61098 or HTM 61199 or HTM 61299.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HTM 63095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Specialized offering of a major topic within hospitality management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HTM 64099 HOSPITALITY AND TOURISM MANAGEMENT CAPSTONE 3 Credit Hours
This capstone course provides a comprehensive view of the business setting of hospitality and tourism organizations. The course includes a review of the competitive business environments, competitive advantage, above-average performance and competitive strategies as they pertain to hospitality and tourism management. The course will highlight current strategic issues in hospitality and tourism management referring to the most recent literature (practitioners' literature and academic journals). The course concludes with a capstone group case analysis of a business problem in hospitality and, or tourism.
Prerequisite: HTM 56000 or HTM 53025; and BA 64005 or RMS 65510; and HTM 63022, HTM 55047 and HTM 65041; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

HTM 65041 TOURISM AND HOSPITALITY REVIEW 3 Credit Hours
Reviews academic tourism and hospitality literature to provide students with a theoretical and empirical understanding of the tourism phenomenon. Issues include tourist motivations; the social, cultural and environmental impacts of tourism; tourism and development; and the impact of hospitality services on tourism.
Prerequisite: HTM 56000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Professional Studies (PROS)

PROS 40095 SPECIAL TOPICS IN PROFESSIONAL STUDIES 1-3 Credit Hours
(Repeatable for credit) Selected topics in Professional Studies dependent upon interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PROS 40096 INDIVIDUAL INVESTIGATION IN PROFESSIONAL STUDIES 1-3 Credit Hours
(Repeatable for credit) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member required prior to registration.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

PROS 44003 CAREER DEVELOPMENT IN PROFESSIONAL STUDIES 3 Credit Hours
In this course students will have the opportunity to integrate educational, work and field experiences as they prepare for their future career path. This course will help students consider career options, including future professions and post-graduate education. Practical exercises to support preparation for the job market are part of the experience.
Prerequisite: Senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

PROS 44004 RESEARCH AND WRITINGS IN PROFESSIONAL STUDIES (WIC) 3 Credit Hours
This course presents and integrates the role of professionals in the education, health and human services fields as they attempt to meet the needs of individuals in diverse environments.
Prerequisite: Senior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP
Attributes: Writing Intensive Course

PROS 44005 EXPLORATION AND APPLICATION OF LEADERSHIP SKILLS FOR VARIED PROFESSIONAL SETTINGS 3 Credit Hours
Leadership skills, for both personal and professional life, are explored and practiced. Topics include leadership concepts, including important qualities, skills and attributes. Activities, presentations and readings aid in the exploration and practice of those qualities and skills for a variety of career paths.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PROS 44092 PRACTICUM IN PROFESSIONAL STUDIES (ELR) 1-12 Credit Hours
(Repeatable for credit) A culminating experiential learning opportunity near the end of students' formal academic studies. Students investigate and propose a placement at a work site that is congruent with their career interests and aspirations. Work sites are approved by the practicum advisor. Practicum is often completed in one semester, although two semesters of practicum are also possible.
Prerequisite: Professional Studies major; and senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-36 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

Recreation, Park, and Tourism Management (RPTM)

RPTM 16000 FOUNDATIONS OF RECREATION AND LEISURE 3 Credit Hours
Historical examination of the park and recreation movement, sociological, economic, psychological and political considerations for the delivery of leisure and recreation services in contemporary society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 16001 CAREER EXPLORATION IN RECREATION, PARK, AND TOURISM MANAGEMENT 1 Credit Hour
Introduction to career opportunities in Recreation, Park, and Tourism Management. Includes public, non-profit, and commercial settings and site visits.
Pre/corequisite: RPTM 16000.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RPTM 26010 COMMUNITY DEVELOPMENT IN RECREATION 3 Credit Hours
Explores the contemporary and historical roles, organization and services of public and non-profit leisure service providers. Includes various theoretical perspectives on community organization and development as well as methods available to the recreation practitioner to facilitate the development of recreation services in communities.
Prerequisite: RPTM 16000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 26030 LEADERSHIP IN RECREATION, PARKS AND TOURISM 3 Credit Hours
Leadership concepts, principles, methods and techniques necessary for facilitating beneficial recreation activities for diverse populations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 26060 INTRODUCTION TO GLOBAL TOURISM (DIVG) 3 Credit Hours
(Cross-listed with GEOG 22040) Introduction to travel and tourism around the world. Students study tourism technologies and cultural and natural environments as attractions, benefits of travel, travel ethics and sustainable development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

RPTM 26071 MAINTENANCE AND OPERATION OF AREAS AND FACILITIES 3 Credit Hours
A systems approach for the effective maintenance and operation of areas and facilities.
Prerequisite: RPTM 16000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 26081 PRINCIPLES OF OUTDOOR RECREATION 3 Credit Hours
Introduction to outdoor recreation including historical and cultural perspectives, outdoor recreation resources, environmental aspects, trends and management.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36010 RECREATION, LEISURE AND AGING 3 Credit Hours
Knowledge and understanding of leisure and aging. Planning and implementing recreation programs and activities for enriching the lives of older persons.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36040 INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD) 3 Credit Hours
An examination of attitudes toward people with disabilities, characteristics of various disability groups, the role and responsibility of leisure service providers to be inclusive of all individuals and techniques for adapting programs.
Prerequisite: RPTM 26030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

RPTM 36060 ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES 3 Credit Hours
Principles of commercial recreation and tourism services, including entrepreneurship, economic concepts of the for-profit recreation industries and management skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36075 EXPERIENCE DESIGN IN RECREATION, PARK AND TOURISM SETTINGS 3 Credit Hours
Programming leisure experiences within a socio-cultural context, involving understanding and assessing client behavior and needs, proficiency in experience design and implementation, and knowledge of evaluation methods reflective of a service-centered and benefits approach.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36081 ADVENTURE EDUCATION 3 Credit Hours
Introduction to adventure education, the history and philosophy, initiatives, ropes courses, adventure curricula and the basics of outdoor leadership and process facilitation.
Prerequisite: RPTM 26030 and RPTM 26081.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36082 INTERPRETATION OF NATURAL AND CULTURAL RESOURCES 3 Credit Hours
Interpretation is the art of creating intellectual and emotional bonds between people and natural and cultural resources. Interpretation is commonly practiced in parks and other protected areas, zoos, museums and a variety of tourist attractions. This course provides students with the philosophies, concepts and practical techniques necessary to plan and present effective interpretation of natural and cultural resources.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36083 ENVIRONMENTAL EDUCATION AND CONSERVATION 3 Credit Hours
Environmental education helps people better understand the natural world and to develop attitudes and behaviors conducive to environmental conservation. Teaches students the foundations, principles and techniques of environmental education thus enabling students to prepare and present effective environmental education programs. Prerequisite: None
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36085 LEISURE AND CULTURE (DIVD) 3 Credit Hours
Leisure behaviors and beliefs for people from diverse cultures, factors perpetuating inequity in the United States and strategies for leisure programming in a pluralistic society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

RPTM 36911 WILDERNESS AND REMOTE FIRST AID FOR PROFESSIONALS AND EDUCATORS 3 Credit Hours
Students build first aid knowledge skills and behaviors through a variety of learning strategies to individually help in an emergency. A key focus is on how to work in limited resource environments or remote environments (i.e., foreign countries, wilderness, air travel). Then students learn and demonstrate how to prepare others, and be a leader during emergencies through practical experiences. Course is taught and assessed in a cognitively, physically, and emotionally stressed manner. This course includes three weekends and include outdoors experiences. Successful completion of the course may result in American Red Cross certification and Instructor status.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter

RPTM 45031 SPORT TOURISM 3 Credit Hours
(Cross-listed with SPAD 45031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 45047 GLOBAL ISSUES OF TOURISM TRADE 3 Credit Hours
(Slashed with HTM 55047) An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in tourism policy making. The course has an emphasis on reading and discussion.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours
(Cross-listed with GEOG 42040)(Slashed with HTM 56000) Investigation of travel and tourism development using an interdisciplinary social science approach.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46030 DYNAMICS OF LEISURE BEHAVIOR (WIC) 3 Credit Hours
(Slashed with RPTM 56030) This is a writing intensive course with a focus on reading, discussing and writing about science examining leisure behavior and related phenomenon.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

RPTM 46060 ADMINISTRATION OF LEISURE SERVICES 3 Credit Hours
(Slashed with RPTM 56060) Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns are examined.
Prerequisite: RPTM 36040 and RPTM 36075.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46070 PARK PLANNING 3 Credit Hours
(Slashed with RPTM 56070) Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places.
Prerequisite: RPTM 26081.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46091 SEMINAR FOR INTERNSHIP PREPARATION 1 Credit Hour
(Repeatable for credit) Planning and preparation for the internship experience in leisure service settings. Students should register for this course two semesters before enrolling in the internship course.
Prerequisite: Recreation, Park, and Tourism Management (RPTM) major and junior standing.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

RPTM 46092 INTERNSHIP IN RECREATION (ELR) 9 Credit Hours
(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved leisure setting.
Prerequisite: RPTM 46091; and senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 30 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

RPTM 46095 SELECTED TOPICS IN RECREATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours)Selected topics dependent upon interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46096 INDIVIDUAL INVESTIGATION IN RECREATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours)Independent study completed under the supervision of a faculty member. Written approval of the supervising faculty member and school director required prior to registration.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

RPTM 56030 DYNAMICS OF LEISURE BEHAVIOR 3 Credit Hours
(Slashed with RPTM 46030) This is a writing-intensive course with a focus on reading, discussing and writing about science examining leisure behavior and related phenomenon.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 56060 ADMINISTRATION OF LEISURE SERVICES 3 Credit Hours
(Slashed with RPTM 46060) Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 56070 PARK PLANNING 3 Credit Hours
(Slashed with RPTM 46070) Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 65047 GLOBAL ISSUES OF TOURISM TRADE 3 Credit Hours
An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in tourism policy making. The course has an emphasis on reading and discussion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 65061 PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT 3 Credit Hours
(Slashed with RPTM 75061) Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 75061 PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT 3 Credit Hours
(Slashed with RPTM 65061) Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives are examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Research, Measurement and Statistics (RMS)

RMS 45610 CLASSROOM ASSESSMENT 3 Credit Hours
(Slashed with RMS 55610 and RMS 75610) Instruction on contemporary and classic theories and issues in classroom assessment. Students learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 50093 VARIABLE TOPIC WORKSHOP EVALUATION AND MEASUREMENT 1-4 Credit Hours
(Repeatable once for a maximum of 6 credit hours) (Slashed with RMS 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

RMS 55610 CLASSROOM ASSESSMENT 3 Credit Hours
(Slashed with RMS 45610 and RMS 75610) Instruction on contemporary and classic theories on and issues in classroom assessment. Students will learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students will examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 60199 THESIS I 2-6 Credit Hours
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: RMS 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 65510 STATISTICS I FOR EDUCATIONAL SERVICES 3 Credit Hours
(Slashed with RMS 75510) Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlations and simple regression); hypothesis testing; non-parametric techniques. Ordinarily taken in graduate course sequence.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65511 RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours
Introduction to purposes and practice of qualitative and quantitative research related to educational services. Emphasis on elements of doing research and using products of research to support and enhance practice. Authentic examples used as illustration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65515 QUANTITATIVE RESEARCH DESIGN AND ANALYSIS 3 Credit Hours
(Slashed with RMS 85515) Introduction to quantitative research design and analysis in the social sciences. Students are introduced to various concerns and issues that arise in conducting quantitative research, as well as various quantitative research designs, including experimental, quasi-experimental, and non-experimental research approaches. Students will also learn to critically examine quantitative research reports in terms of reliability and validity. Additionally, students will be introduced to analysis of variance (ANOVA) procedures for analyzing quantitative research designs.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65516 QUALITATIVE RESEARCH DESIGN 3 Credit Hours
(Slashed with RMS 85516) Introduction to qualitative research approaches, design, and methods. Students learn about the theoretical underpinnings, nature, characteristics, and methods of qualitative research. Students are introduced to several types of qualitative research designs. They learn to engage in critical reading of qualitative research reports. Students also learn to design qualitative research studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65522 BASICS OF QUALITATIVE INTERVIEWING 1 Credit Hour
(Slashed with RMS 75522) Specialized interviewing methods and techniques prior to engaging in qualitative research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RMS 65530 PRACTITIONER INQUIRY 3 Credit Hours
(Slashed with RMS 85530) This course prepares students to engage in practitioner research. It provides an overview of the history, theoretical, ethical, and practical issues related to engaging in practitioner work in a variety of fields. Research design, data collection and analysis are explored and practiced. Students will critique practitioner research and design their own practitioner research study.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65533 INTRODUCTION TO NARRATIVE INQUIRY AND ANALYSIS 1 Credit Hour
(Slashed with RMS 75533) This course will introduce students to the "rapidly maturing" methodology, providing a foundational exploration of narrative techniques, the craft of good academic writing, and a practice of narrative analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter-IP

RMS 68710 INTRODUCTION TO MEASUREMENT 3 Credit Hours
(Slashed with RMS 78710) This course provides an introduction to the field of measurement/psychometrics. The theoretical foundations are those of Classical Test Theory and construct-based measure development. Some general topics include Classical Test Theory, Reliability and the calculation of reliability indices, Validity and the meaning and types of evidence for Validity, methods of scale construction and test bias.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68711 MODERN TEST THEORY: ITEM RESPONSE THEORY 3 Credit Hours
(Slashed with RMS 78711) The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68713 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 78713) Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge and skills necessary to conduct multivariate analyses using various statistical packages (SPSS, SAS) and to develop knowledge and skills necessary for interpreting results of multivariate analysis.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68714 FACTOR ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 78714) This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68715 SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION 3 Credit Hours
(Slashed with RMS 78715) Designed to be an introduction to survey design including the use of online survey applications data collection and will focus on applied quantitative research using SPSS. Open to any graduate students with appropriate prerequisite courses and an interest in applied quantitative research. The project-based course has two major components: survey construction and applied research. Students will perform tasks typically requested of data analysts, institutional researchers, and program evaluators including but not limited to SPSS data management, data transformations, descriptive and inferential analysis, and interpretation of results.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68716 STATISTICS II: ANOVA AND NONPARAMETRIC TESTS 3 Credit Hours
The primary objective of the course is to develop students' understanding of statistical concepts and procedures sufficient for both conducting appropriate statistical analysis and interpreting the results. Authentic research examples are used throughout the course as illustrations of the different methods of conducting statistical analyses for the social sciences. This course is designed to lead students to become informed consumers of intermediate level statistical analyses, specifically analysis of variance (ANOVA) procedures, used in the social sciences.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68728 MULTIPLE REGRESSION 3 Credit Hours
(Slashed with RMS 78728) The purpose of this course is to develop an understanding of use of multiple regression in the social sciences and related issues, including examining assumptions, diagnosis of outliers and influential data points, determining statistical power, testing for moderation and mediation, etc. The course begins with an introduction to simple models with two predictor variables, and continues to more advanced models, including those with three or more variables, categorical predictors, interactions, non-linear models, and logistic regression.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68735 STRUCTURAL EQUATION MODELING 3 Credit Hours
(Slashed with RMS 78735) The purpose of this course is to develop an understanding of the basic concepts of structural equation modeling and the use of path analysis, confirmatory factor analysis, bi-factor and second-order CFA, multitrait-multimethod analysis, multiple sample-multiple group SEM, latent class model, and latent growth modeling covered under the theoretical framework of structural equation modeling. The course familiarizes students with these methods in order to (a) critique a research study with respect to the statistical analysis, and (b) select an appropriate model and be able to apply it.
Prerequisite: RMS 65510 and RMS 68728; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68745 HIERARCHICAL LINEAR MODELING 3 Credit Hours
(Slashed with RMS 78745) This course introduces methods for the analysis of multilevel data and emphasizes practical, hands-on development, analysis and interpretation of hierarchical linear models. Applications will be drawn from education, psychology, other social sciences, and health-related disciplines. Topic coverage includes development of multilevel models, estimation, hypothesis testing, statistical inference, model assessment and residual diagnostics, centering options and impact, treatment of heterogeneity, and introduction to longitudinal analysis via multilevel models.
Prerequisite: RMS 65510 and RMS 68728; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68791 SEMINAR IN EVALUATION AND MEASUREMENT 1-5 Credit Hours
(Repeatable for credit) Variable topic seminar for advance study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

RMS 68795 SPECIAL TOPICS IN EVALUATION AND MEASUREMENT 1-3 Credit Hours
(Repeatable for credit)Specific topic course offering in response to emerging student or program needs in evaluation and measurement.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

RMS 68796 INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT 1-3 Credit Hours
(Repeatable for credit)Specific topic course offering in response to emerging student or program needs in evaluation and measurement.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 68798 RESEARCH IN EVALUATION AND MEASUREMENT 1-15 Credit Hours
(Repeatable for credit) Students pursue an individual research project on a specific topic in evaluation and measurement with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 68806 HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 78806) This course is designed to be an overview of institutional research function and practice, introducing students to the purpose and history of IR, IR terminology and metrics, and IR application to a variety of university areas. The target audiences for this course are: 1) students with an evaluation and measurement background who are interested in applying their skills in a higher education context and 2) students from a higher education and or student affairs background who are looking to better understand higher education data and the applied research that occurs within an institution.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68807 PROGRAM EVALUATION 3 Credit Hours
(Slashed with RMS 78807) Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 70093 VARIABLE TOPIC WORKSHOP IN EVALUATION AND MEASUREMENT 1-4 Credit Hours
(Repeatable for credit) (Slashed with RMS 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

RMS 75510 STATISTICS I FOR EDUCATIONAL SERVICES 3 Credit Hours
(Slashed with RMS 65510) Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlations and simple regression); hypothesis testing; non-parametric techniques. Ordinarily taken in graduate course sequence.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 75522 BASICS OF QUALITATIVE INTERVIEWING 1 Credit Hour
(Slashed with RMS 65522) Specialized interviewing methods and techniques prior to engaging in qualitative research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RMS 75533 INTRODUCTION TO NARRATIVE INQUIRY AND ANALYSIS 1 Credit Hour
(Slashed with RMS 65533) This course will introduce students to the "rapidly maturing" methodology, providing a foundational exploration of narrative techniques, the craft of good academic writing, and a practice of narrative analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter-IP

RMS 75550 INTRODUCTION TO QUANTITATIVE RESEARCH IN EDUCATION 3 Credit Hours
This course provides an introduction to the purposes, practices, and applications of quantitative research in the field of education. The course focuses on foundational knowledge related to the methods used for conducting quantitative research, evaluating quantitative research, and using products of research to support and enhance practice. Authentic examples are used as illustrations throughout the course. The course is designed to allow students to become informed consumers of quantitative research in education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 75610 CLASSROOM ASSESSMENT 3 Credit Hours
(Slashed with RMS 45610 and RMS 55610) Instruction on contemporary and classic theories and issues in classroom assessment. Students will learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students will examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78710 INTRODUCTION TO MEASUREMENT 3 Credit Hours
(Slashed with RMS 68710) This course provides an introduction to the field of measurement/psychometrics. The theoretical foundations are those of Classical Test Theory and construct-based measure development. Some general topics include Classical Test Theory, Reliability and the calculation of reliability indices, Validity and the meaning and types of evidence for Validity, methods of scale construction and test bias.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78711 MODERN TEST THEORY: ITEM RESPONSE THEORY 3 Credit Hours
(Slashed with RMS 68711) The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78713 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 68713) Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge and skills necessary to conduct multivariate analyses using various statistical packages (SPSS, SAS) and to develop knowledge and skills necessary for interpreting results of multivariate analysis.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78714 FACTOR ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 68714) This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78715 SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION 3 Credit Hours
(Slashed with RMS 68715) Designed to be an introduction to survey design including the use of online survey applications data collection and will focus on applied quantitative research using SPSS. Open to any graduate students with appropriate prerequisite courses and an interest in applied quantitative research. The project-based course has two major components: survey construction and applied research. Students will perform tasks typically requested of data analysts, institutional researchers, and program evaluators including but not limited to SPSS data management, data transformations, descriptive and inferential analysis, and interpretation of results.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78716 STATISTICS II: ANOVA AND NONPARAMETRIC TESTS 3 Credit Hours
(Slashed with RMS 68716) The primary objective of the course is to develop students' understanding of statistical concepts and procedures sufficient for both conducting appropriate statistical analysis and interpreting the results. Authentic research examples are used throughout the course as illustrations of the different methods of conducting statistical analyses for the social sciences. This course is designed to lead students to become informed consumers of intermediate level statistical analyses, specifically analysis of variance (ANOVA) procedures, used in the social sciences.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78728 MULTIPLE REGRESSION 3 Credit Hours
(Slashed with RMS 68728) The purpose of this course is to develop an understanding of use of multiple regression in the social sciences and related issues, including examining assumptions, diagnosis of outliers and influential data points, determining statistical power, testing for moderation and mediation, etc. The course begins with an introduction to simple models with two predictor variables, and continues to more advanced models, including those with three or more variables, categorical predictors, interactions, non-linear models, and logistic regression.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78735 STRUCTURAL EQUATION MODELING 3 Credit Hours
(Slashed with RMS 68735) The purpose of this course is to develop an understanding of the basic concepts of structural equation modeling and the use of path analysis, confirmatory factor analysis, bi-factor and second-order CFA, multitrait-multimethod analysis, multiple sample and multiple group SEM, latent class model, and latent growth modeling covered under the theoretical framework of structural equation modeling. The course familiarizes students with these methods in order to (a) critique a research study with respect to the statistical analysis, and (b) select an appropriate model and be able to apply it.
Prerequisite: RMS 75510 and RMS 78728; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78745 HIERARCHICAL LINEAR MODELING 3 Credit Hours
(Slashed with RMS 68745) This course introduces methods for the analysis of multilevel data and emphasizes practical, hands-on development, analysis and interpretation of hierarchical linear models. Applications will be drawn from education, psychology, other social sciences, and health-related disciplines. Topic coverage includes development of multilevel models, estimation, hypothesis testing, statistical inference, model assessment and residual diagnostics, centering options and impact, treatment of heterogeneity, and introduction to longitudinal analysis via multilevel models.
Prerequisite: RMS 75510 and RMS 78728; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78806 HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 68806) This course is designed to be an overview of institutional research function and practice, introducing students to the purpose and history of IR, IR terminology and metrics, and IR application to a variety of university areas. The target audiences for this course are: 1) students with an evaluation and measurement background who are interested in applying their skills in a higher education context and 2) students from a higher education and or student affairs background who are looking to better understand higher education data and the applied research that occurs within an institution.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78807 PROGRAM EVALUATION 3 Credit Hours
(Slashed with RMS 68807) Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation programs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78898 COMPARATIVE RESEARCH DESIGN 3 Credit Hours
(Repeatable for credit)The course develops the ability of the student to conceptualize the design elements of educational research and to write results of studies.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

RMS 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

RMS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: RMS 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 85515 QUANTITATIVE RESEARCH DESIGN AND ANALYSIS 3 Credit Hours
(Slashed with RMS 65515) Introduction to quantitative research design and analysis in the social sciences. Students are introduced to various concerns and issues that arise in conducting quantitative research, as well as various quantitative research designs, including experimental, quasi-experimental, and non-experimental research approaches. Students will also learn to critically examine quantitative research reports in terms of reliability and validity. Additionally, students will be introduced to analysis of variance (ANOVA) procedures for analyzing quantitative research designs.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85516 QUALITATIVE RESEARCH DESIGN 3 Credit Hours
(Slashed with RMS 65516) Introduction to qualitative research approaches, design, and methods. Students learn about the theoretical underpinnings, nature, characteristics, and methods of qualitative research. Students are introduced to several types of qualitative research designs. They learn to engage in critical reading of qualitative research reports. Students also learn to design qualitative research studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85517 ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours
Advanced quantitative research design and application in educational services. Statistical packages of instructional strategies with methodological principles focus, theoretical models and practical application of experimental and multivariate research design.
Prerequisite: RMS 85515; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85518 ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours
Utilizes qualitative data in educational services. Applications in qualitative methodology (video techniques) and protocol analysis are applied and evaluated. Generate findings; develop applications to theory; reliability and validity considerations.
Prerequisite: RMS 85516; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85520 MIXED METHODS RESEARCH 3 Credit Hours
This course provides an overview of theoretical and practical issues pertaining to mixed methods research in educational settings. This overview includes the history and philosophy of mixed methods research, types of mixed methods designs, and various strategies for mixed methods data collection and analysis. Course outcomes include the development of a rationale for mixed methods approaches, critique of published mixed methods educational research, and the design and preliminary implementation of a mixed methods research project.
Prerequisite: RMS 85515 and RMS 85516; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85530 PRACTITIONER INQUIRY 3 Credit Hours
(Slashed with RMS 65530) This course prepares students to engage in practitioner research. It provides an overview of the history, theoretical, ethical, and practical issues related to engaging in practitioner work in a variety of fields. Research design, data collection and analysis are explored and practiced. Students will critique practitioner research and design their own practitioner research study.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85540 GROUNDED THEORY AND PHENOMENOLOGICAL RESEARCH 3 Credit Hours
This course prepares students to engage in and argue for phenomenological research and grounded theory research. It provides an overview of the history, theoretical, and practical background related to various forms of phenomenological and grounded theory research. Research design, data collection and analysis are explored and practiced. Students will critique phenomenological and grounded theory research and design their own study or pilot a study of one of the two types.
Prerequisite: RMS 85516; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85550 ETHNOGRAPHY AND CASE STUDY RESEARCH 3 Credit Hours
The purpose of this course is to provide doctoral students advanced instruction in two approaches to qualitative inquiry: ethnography and case study research. In addition to providing students with an understanding of the theoretical perspectives which underlie the methodological approach to case study and ethnographic research, the course is designed to provide numerous opportunities for students to learn and practice techniques for generating, analyzing, writing-up, and using both ethnographic and case study data.
Prerequisite: RMS 85516; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85560 CRITICAL SOCIAL RESEARCH 3 Credit Hours
Critical social research refers to a diverse set of approaches to research that employ a critical ontological and epistemological lens. Critical researchers work from sets of assumptions about power in the social world articulated by some form of critical theory. This graduate course surveys a range of approaches to critical social research, engaging students in learning about the theoretical foundations and inquiry methods of these diverse approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 88791 SEMINAR: EVALUATION AND MEASUREMENT 1-5 Credit Hours
(Repeatable for credit) Variable topic seminar for advance study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

RMS 88795 SPECIAL TOPICS: EVALUATION AND MEASUREMENT 1-3 Credit Hours
(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

RMS 88796 INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT 1-3 Credit Hours
(Repeatable for credit)Specific topic course offering in response to emerging student or program needs in evaluation and measurement.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 88798 RESEARCH IN EVALUATION AND MEASUREMENT 1-15 Credit Hours
(Repeatable for credit) Students pursue an individual research project on a specific topic in evaluation and measurement of education with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Sports Administration (SPAD)

SPAD 15000 INTRODUCTION TO SPORT ADMINISTRATION 3 Credit Hours
This course is designed to introduce students to the field of sport administration. Students will be made aware of the career options available to them in the sport management profession. All course materials, assignments and class discussions will emphasize both the understanding and application of key concepts across various aspects of the sport industry. Students will also be introduced to the sport administration major curriculum and requirements. Recommend first course in the sport administration program sequences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 25000 SPORT IN SOCIETY (DIVD) 3 Credit Hours
Analysis of how sport relates to the social relations and cultural values of United States society. The course is framed by a critical evaluative perspective, examining how social class, ethnicity, race and gender relations contour sport practices.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SPAD 25092 PRACTICUM I IN SPORT ADMINISTRATION (ELR) 1-3 Credit Hours
(Repeatable for credit) A 105-hour (per credit) field experience in a sport administration setting.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 25192 PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT I (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) A cumulative 105-hour (per credit) on-campus seminar and field experience in a professional golf management setting.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 35021 GOVERNANCE IN SPORT 3 Credit Hours
Issues of governance in amateur and professional sports.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 35025 FACILITY MANAGEMENT 3 Credit Hours
Overview of planning, staffing, marketing and managing sport facilities and complexes. The primary emphasis in this course is on management, personnel and operations issues.
Prerequisite: Junior; or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 35065 HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) 3 Credit Hours
Historical and philosophical foundations of sport and physical education; a study of factors influencing pedagogical, curricular and evaluation decisions in sport and physical education programs today.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

SPAD 35092 PRACTICUM II IN SPORT ADMINISTRATION (ELR) 1-3 Credit Hours
(Repeatable for credit) A 105-hour (per credit) field experience in a sport management setting.
Prerequisite: SPAD 25092.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 35192 PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT II (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) A cumulative 105-hour (per credit) on-campus seminar and field experience in a professional golf management setting.
Prerequisite: SPAD 25192; and special approval.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 43018 ETHICS IN SPORT 3 Credit Hours
(Slashed with SPAD 53018 and SPAD 73018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45020 ORGANIZATION, ADMINISTRATION AND LEADERSHIP IN SPORT 3 Credit Hours
Leadership is crucial in the sport industry. This course presents a wide array topics pertinent to leadership and administration in sport that will give students a better understanding of how to lead, serve and motivate the various constituent groups within the sport industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45022 EVENT PLANNING AND PRODUCTION 3 Credit Hours
(Slashed with SPAD 55022) Students learn the proper planning process that all sport events undergo. Students apply these concepts in actual events that they develop and hold.
Prerequisite: MKTG 25010; and junior or senior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

SPAD 45023 SPORT MARKETING 3 Credit Hours
The course, which is designed around market planning, examines how to formulate market ideas, incorporate market research, select segmentation, targeting and positioning strategies, implement sales and promotion strategies and assess control procedures within the sport and entertainment industry.
Prerequisite: MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45024 SPORT IN GLOBAL PERSPECTIVE 3 Credit Hours
(Slashed with SPAD 55024) Students critically analyze how sport relates to general features of globalization and provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics). The underlying assumption is that sport is part of a growing network of global inter-dependencies that bind human beings together.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45026 SPORT AND THE MEDIA 3 Credit Hours
(Slashed with SPAD 55026) Course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality and disability; an examination of the structure of sports journalism and production; and an analysis of the role of mediated sport in culture more generally. The roles of institutions, producers, texts and audiences and their relationships to each other are examined.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45027 PUBLIC RELATIONS AND PROMOTION IN SPORT 3 Credit Hours
Issues in public relations and promotion of sport such as advertising, crisis management, sales promotion and atmospherics.
Prerequisite: MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45029 HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS 3 Credit Hours
(Slashed with SPAD 55029) Examination of the historical development of athletics within American institutions of higher learning, with an emphasis upon concepts and ideals that underlie the developments and the major problems affecting contemporary intercollegiate athletics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45030 SPORT ENTERPRISE (WIC) 3 Credit Hours
This is a capstone course for sport administration majors. The course which is designed around business planning for sport, examines how to formulate business ideas, select a legal form of organization, locate financing sources, assess the market, develop a human resource management system and establish budget control.
Prerequisite: Senior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

SPAD 45031 SPORT TOURISM 3 Credit Hours
(Cross-listed with RPTM 45031) (Slashed with SPAD 55031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45032 SALES MANAGEMENT IN SPORT AND ENTERTAINMENT 3 Credit Hours
(Slashed with SPAD 55032) Students are introduced to the area of sales-force management in sport and entertainment. Historical, theoretical and conceptual frameworks are examined thoroughly, as well as functions, activities and skills of the professional salesperson in the age of information and technology.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45033 CHANGE YOUR MIND, GAME AND LIFE 1 Credit Hour
(Slashed with SPAD 55033) Course focuses students on mental training to enhance sport performance and have personal growth experiences. Course assists students to tap into their inner potential by refocusing their mind, to learn they are responsible for their own life experiences, to learn that the things they want most in their lives are found within themselves and to take responsibility for their upsets.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPAD 45034 ESPORT MANAGEMENT 3 Credit Hours
(Slashed with SPAD 55034) Students will learn about the esport industry, its consumer and constituents. Also, students will investigate the steps and components necessary to manage esport teams and esport events.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45035 SPORTS WAGERING 3 Credit Hours
(Slashed with SPAD 55035) This course investigates the sports wagering industry. Students will learn about the different forms of wagering, the statutes and cases impacting sports wagering as well as impact on society of increased access to sports wagering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45050 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours
(Slashed with SPAD 55050 and SPAD 75050) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45091 SEMINAR FOR INTERNSHIP PREPARATION 1 Credit Hour
(Repeatable for credit) This course prepares the students for the internship experience in sport administration. Students must successfully complete this course prior to registering for internship.
Prerequisite: Minimum 2.500 overall GPA; Senior standing and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

SPAD 45092 INTERNSHIP IN SPORT ADMINISTRATION (ELR) 3-12 Credit Hours
(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved sport management setting. 50 contact hours per credit hour.
Prerequisite: SPAD 35092 and SPAD 45091; minimum 2.500 overall GPA; and special approval.
Schedule Type: Practical Experience
Contact Hours: 10-40 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 45096 INDIVIDUAL INVESTIGATION IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Individual investigation in sport administration. Faculty approval is required.
Prerequisite: Sport administration major; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

SPAD 45192 INTERNSHIP IN PROFESSIONAL GOLF MANAGEMENT (ELR) 2-12 Credit Hours
(Repeatable for credit)Supervised full-time experience providing knowledge of overall agency operation in approved sport administration, professional golf management setting. 100 contact hours per credit hour with seminar interactive requirements.
Prerequisite: SPAD 15015 and SPAD 25192; and special approval.
Schedule Type: Practical Experience
Contact Hours: 13-80 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 46028 SPORT IN FILM 3 Credit Hours
(Slashed with SPAD 56028) Critically evaluates the role of sport in film as it relates to a variety of issues in society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 46080 LEGAL ISSUES IN SPORT AND RECREATION 3 Credit Hours
(Slashed with SPAD 56080) A discussion of legal issues as they apply to the sport and recreation industries.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 46095 SPECIAL TOPICS IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Special topics in Sport Administration.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPAD 50020 HIGH PERFORMANCE ATHLETES IN SPORT 3 Credit Hours
(Slashed with SEPP 40020) This course provides an understanding of various aspects of training, coaching, and best practices in working with athletes in a high-performance environment along with an emphasis on the social-psychological factors related to the successful performance of elite level athletes and teams.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 50221 EXERCISE PSYCHOLOGY 3 Credit Hours
(Slashed with SEPP 40221) This course is designed to examine the science and practice of exercise psychology from both a theoretical and applied perspective. Students will be engaged in a comprehensive inquiry into behaviors and lifestyles that influence physical and mental health from physical activity, exercise, and psychological lenses. Students will explore topics such as stress, anxiety, cognitive functioning, mood, body image, personality, emotion, and childhood inactivity/obesity as they relate to exercise behaviors and contexts. Students will gain a general understanding of issues in exercise psychology related to theory, practice, and research. In addition, students will develop practical skills to promote exercise adherence and create an exercise intervention program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 53018 ETHICS IN SPORT 3 Credit Hours
(Slashed with SPAD 43018 and SPAD 73018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 53093 VARIABLE TITLE WORKSHOP IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Topics vary in sport studies. Maximum 4 credit hours may be applied to degree.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SPAD 55007 PRINCIPLES AND APPLICATION OF SPORT PSYCHOLOGY 3 Credit Hours
(Slashed with SEPP 45007) This course encompasses the most current developments in the field of psychology with a strong foundation of the principles of human behavior in the sport and movement sciences. It incorporates sound practical theory with a focus on the application of that knowledge to be readily used by students in a range of sport and movement science careers; such as athletic training, coaching, sport management, consulting, physical education teachers and related areas with the goal to improve the sport performance and experience for all.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55022 EVENT PLANNING AND PRODUCTION 3 Credit Hours
(Slashed with SPAD 45022) Students learn the proper planning process that all sport events undergo. Students apply these concepts in actual events that they develop and hold.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

SPAD 55024 SPORT IN GLOBAL PERSPECTIVE 3 Credit Hours
(Slashed with SPAD 45024) Students critically analyze how sport relates to general features of globalization and provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics). The underlying assumption is that sport is part of a growing network of global inter-dependencies that bind human beings together.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55026 SPORT AND THE MEDIA 3 Credit Hours
(Slashed with SPAD 45026) Course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality and disability; an examination of the structure of sports journalism and production; and an analysis of the role of mediated sport in culture more generally. The roles of institutions, producers, texts and audiences and their relationships to each other are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55029 HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS 3 Credit Hours
(Slashed with SPAD 45029) Examination of the historical development of athletics within American institutions of higher learning, with an emphasis upon concepts and ideals that underlie the developments and the major problems affecting contemporary intercollegiate athletics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55031 SPORT TOURISM 3 Credit Hours
(Cross-listed with RPTM 45031) (Slashed with SPAD 45031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55032 SALES MANAGEMENT IN SPORT AND ENTERTAINMENT 3 Credit Hours
(Slashed with SPAD 45032) Students are introduced to the area of sales-force management in sport and entertainment. Historical, theoretical and conceptual frameworks are examined thoroughly, as well as functions, activities and skills of the professional salesperson in the age of information and technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55033 CHANGE YOUR MIND, GAME AND LIFE 1 Credit Hour
(Slashed with SPAD 45033) Course focuses students on mental training to enhance sport performance and have personal growth experiences. Course assists students to tap into their inner potential by refocusing their mind, to learn they are responsible for their own life experiences, to learn that the things they want most in their lives are found within themselves and to take responsibility for their upsets.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPAD 55034 ESPORT MANAGEMENT 3 Credit Hours
(Slashed with SPAD 45034) Students will learn about the esport industry, its consumer and constituents. Also, students will investigate the steps and components necessary to manage esport teams and esport events.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55035 SPORTS WAGERING 3 Credit Hours
(Slashed with SPAD 45035) This course investigates the sports wagering industry. Students will learn about the different forms of wagering, the statutes and cases impacting sports wagering as well as impact on society of increased access to sports wagering. Prerequisite: Graduate Standing
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SPAD 55050 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours
(Slashed with SPAD 45050 and SPAD 75050) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55300 MOTIVATION IN SPORT, PERFORMANCE, AND MOVEMENT SETTINGS 3 Credit Hours
(Slashed with SEPP 45300) This course provides an in-depth and wide-ranging look at motivational theories and its application to sport, performance and physical activity. It combines the many theoretical concepts of the diverse frameworks and principles with a survey of motivational interventions performed in the sport domain. Students will leave the class with a rigorous and comprehensive knowledge of constructs, cutting-edge research, effective interventions and future outlook of motivation in sport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 56028 SPORT IN FILM 3 Credit Hours
(Slashed with SPAD 46028) Critically evaluates the role of sport in film as it relates to a variety of issues in society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 56080 LEGAL ISSUES IN SPORT AND RECREATION 3 Credit Hours
(Slashed with SPAD 46080) A discussion of legal issues as they apply to the sport and recreation industries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 58225 SPORT PERFORMANCE PSYCHOLOGICAL INTERVENTIONS 3 Credit Hours
(Slashed with SEPP 48225) This course combines the theoretical concepts of sport and performance psychology with applied skill development to enhance performance. Students will gain knowledge of psychological skills training, learn techniques and develop confidence in their skills to work with athletes and performers. The focus of this course in on both, educational psychological interventions for personal development as well as teaching athletes strategies to enhance mental skill. Learning will be done hands-on, via case studies or scenario-based activities. Through the course of this class this course, students will create and present their individual program for an athlete or performer. This course will include learning and understanding the APA/AASP ethics' code to develop awareness of the boundaries of ethical conduct of the profession.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 63091 RESEARCH SEMINAR 1 Credit Hour
(Slashed with SPAD 73091) Presentation and discussion of research by faculty and students. Maximum 2 credit hours may be applied toward degree requirements.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

SPAD 63096 INDIVIDUAL INVESTIGATION IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for maximum 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

SPAD 63098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

SPAD 63195 SPECIAL TOPICS IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Selected and varied topics of relevance in sport administration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPAD 63199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Highly-individualized investigative study resulting in developing and writing a scholarly, comprehensive paper. Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPAD 63299 THESIS II 2 Credit Hours
Highly-individualized investigative study resulting in developing and writing a scholarly, comprehensive paper. Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SPAD 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPAD 65006 CONTEMPORARY ISSUES IN SPORT MANAGEMENT 3 Credit Hours
(Slashed with SPAD 75006) A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65008 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY 3 Credit Hours
(Slashed with SPAD 75008) Sociological analysis of sport from a theoretical and empirical perspective.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65021 ORGANIZATION AND MANAGEMENT OF SPORTS PROGRAMS 3 Credit Hours
A study of the pragmatic understanding necessary in the organization and management of a sports program at the high school, college or professional level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65033 SPORT LAW 3 Credit Hours
Course provides students with a basic understanding of tort, contract and constitutional law in relation to sport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65034 CONTEMPORARY SPORT LAW 3 Credit Hours
(Slashed with SPAD 75034) Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports.
Prerequisite: SPAD 65033; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65036 SPORT IN HIGHER EDUCATION 3 Credit Hours
Identification of contemporary problems and issues in collegiate sport, their history and the role of sport in colleges and universities now and in the future.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65037 NATIONAL COLLEGIATE ATHLETIC ASSOCIATION COMPLIANCE ADMINISTRATION 3 Credit Hours
This course introduces students to basic NCAA compliance principles and the NCAA rules that affect the administration of a college athletic department. This course offers an understanding of the structure and function of a Division I compliance operation and explores compliance at the Divisions II & III level. The governing principles of institutional control and ethical conduct will be explored from a compliance perspective.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65038 SPORT PROMOTION AND FUNDRAISING 3 Credit Hours
(Slashed with SPAD 75038) Analysis of contemporary sports promotions strategies, as well as promotion of fundraising tactics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65039 FINANCIAL ASPECTS OF SPORT 3 Credit Hours
Review of basic accounting, sources and uses of funds, capital budgeting, leasing and investments as they apply in a sports context. Students are introduced to financial software used in the sport industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65040 SPORT ECONOMICS 3 Credit Hours
Course provides students with key economic theories and principles as applied to the sport industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65042 LEADERSHIP OF SPORT 3 Credit Hours
Study of theoretical and applied constructs foundational to the leadership behavior applied to sport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65045 SPORT MARKETING 3 Credit Hours
Students develops an understanding of strategic marketing concepts and principles as they apply to the context of sport and entertainment. Students examine a variety of topics related to the marketing mix, consumer/fan behavior and research methodology. They also explore sport, entertainment and business organization relationships.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65046 FACILITY MANAGEMENT AND OPERATIONS 3 Credit Hours
Analysis of management competencies necessary to operate sport facilities. Conceptual and technical aspects of planning and design are introduced.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65048 INTRAMURAL AND CLUB SPORT ADMINISTRATION 3 Credit Hours
Students focus on developing an understanding of how these programs work and what role they play in various recreational environments. Course emphasizes decision-making techniques and communication skills leading to effective planning, organizing and managing a recreational sports-related service or product.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65092 INTERNSHIP IN SPORT ADMINISTRATION 2-4 Credit Hours
(Repeatable for credit) Field experience involving supervised contact with sport administrators. Students work as an understudy with these administrators in all phases of their positions.
Prerequisite: Graduate standing and special approval.
Schedule Type: Practical Experience
Contact Hours: 13-27 other
Grade Mode: Standard Letter-IP

SPAD 73018 ETHICS IN SPORT 3 Credit Hours
(Slashed with SPAD 43018 and SPAD 53018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 73091 RESEARCH SEMINAR 1 Credit Hour
(Slashed with SPAD 63091) Presentation and discussion of research by faculty and students. Maximum 2 credit hours may be applied toward degree requirements.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

SPAD 75006 CONTEMPORARY ISSUES IN SPORT MANAGEMENT 3 Credit Hours
(Slashed with SPAD 65006) A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 75008 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY 3 Credit Hours
(Slashed with SPAD 65008) Sociological analysis of sport from a theoretical and empirical perspective.
Prerequisite: SPAD 75006; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 75034 CONTEMPORARY SPORT LAW 3 Credit Hours
(Slashed with SPAD 65034) Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 75038 SPORT PROMOTION AND FUNDRAISING 3 Credit Hours
(Slashed with SPAD 65038) Analysis of contemporary sports promotions strategies, as well as promotion of fundraising tactics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 75050 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours
(Slashed with SPAD 45050 and SPAD 55050) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

School of Health Sciences

Athletic Training (ATTR)

ATTR 15003 CAREERS IN HEALTH AND MEDICAL SCIENCES 2 Credit Hours
(Cross-listed with EXSC 15003 and IHS 15003) An overview of the profession of healthcare and medical professional associated including employment opportunities, academic preparation and clinical preparation. This course will address the qualities and skills required for a comprehensive list of professional opportunities in the healthcare and medical fields with an emphasis on professionalism, cultural competencies, ethics and self care. Students will be required to work with faculty and health care and medical professionals to outline a personalized program to assist in their professional development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ATTR 15012 DOCUMENTATION IN HEALTH CARE 2 Credit Hours
Addresses clinical writing skills associated with documentation in health care. Addresses the legal, ethical, and practical needs for proper documentation in health care. Focus is on reading, writing and interpreting various forms of medical documentation including but not limited to SOAP notes, progress notes, treatment notes, clinical record keeping, and facility records. Electronic medical record techniques and other clinical record methods will be addressed.
Prerequisite: Sports medicine major or sports medicine: administration minor or sports medicine: general medical and emergency care or sports medicine: orthopedic patient care minor.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ATTR 20001 SOCIOCULTURAL ASPECTS OF HEALTH CARE 3 Credit Hours
Advanced examination of the sociocultural aspects of healthcare careers. Specific emphasis will be placed of the recognition of diverse patient populations and effectively addressing their unique needs. Cultural competence will be the focus of of the course and will address various aspects of sociocultural diversity; including but not limited to racial, ethnic, religious, socioeconomic, regional beliefs, and alternative approaches to healthcare.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 25036 RESPONDING TO EMERGENCIES 3 Credit Hours
Principles of emergency care including prevention, management, and administrative aspects associated with injury and trauma. Practical competency in emergency care and first aid; American Red Cross Professional Rescuer Certification for CPR and AED.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lab, 2 other
Grade Mode: Standard Letter

ATTR 25037 PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE 3 Credit Hours
Anatomical, clinical assessment and kinesiology related to injuries and illnesses common in athletic training and sports medicine. Emphasis on orthopedic assessment and kinesiology concepts of the Lower extremity and spine.
Prerequisite: ATTR 25036; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 25038 PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE UPPER EXTREMITY, HEAD AND NECK 3 Credit Hours
Anatomical, clinical assessment and kinesiology realted to injuries and illnesses common in athletic training and sports medicine. Emphasis on orthopedic assessment and kinesiology concepts of the Upper Extremity, Health and neck.
Prerequisite: ATTR 25036 and ATTR 25037; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours
(Cross-listed with EXSC 25057) Comprehensive examination of anatomy and physiology related to the organization of the body and basic cell and tissue types. Specific structure and function of the muscular, skeletal, integumentary and nervous systems are addressed.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

ATTR 25058 HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 4 Credit Hours
(Cross-listed with EXSC 25058) Comprehensive examination of anatomy and physiology related to the human body under rest and exercise conditions. Specific structure and function of the metabolic, endocrine, lymphatic, digestive, urinary and reproductive systems are addressed. Advanced coverage of neurological, cardiovascular and respiratory systems are also addressed.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

ATTR 35037 ADVANCED PHYSICAL ASSESSMENT TECHNIQUES 3 Credit Hours
Anatomical, medical and clinical assessment techniques for injuries and illnesses common to the physically active. Emphasis on neurological and non-orthopedic assessment strategies for proper referral and care.
Prerequisite: ATTR 25037; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 35040 STRENGTH AND CONDITIONING 2 Credit Hours
Demonstrate didactic understanding and clinical application of energy systems, anatomy and proper techniques for strength and conditioning exercises for practical applications with athletes.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and athletic training or exercise science, or physical education and sport performance or sports medicine majors or sports medicine: administration or sports medicine: general medical and emergency care or sports medicine: orthopedic patient care minors.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 35045 EMERGENCY MEDICAL TECHNICIAN-BASIC 5 Credit Hours
Preparing for Emergency Medical Technician certification including patient assessment, airway and cardiac management, trauma management, medical patient management and clinical experience. Prepares students to challenge the National Registry Examination for the State of Ohio for EMT-Basic. Clinical hours are required for this course through Hudson EMS.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

ATTR 35050 NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours
Advanced cognitive content in the areas of normal and pathological function of the nervous system and its components. Specific emphasis on the neurophysiological basis for motor learning, special senses, and memory serves to address the central and peripheral nervous system structure and function. Growth and Development and pathological responses to hypoxia, microbiologic agents, genetic derangements, nutritional deficiencies, chemicals, drugs and aging are addressed.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 35054 BIOMECHANICS 3 Credit Hours
(Cross-listed with EXSC 35054) Anatomical and mechanical bases of human movement. Emphasis is placed on tools and techniques for motion analysis, mechanical concepts, forces and performance analysis. Lecture and laboratory.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 35062 EVIDENCE-BASED RESEARCH IN HEALTH CARE 3 Credit Hours
An examination of evidence-based practice and evidence-based research in health care. The focus of the course will include understanding literature, research questions, methods of research, and how evidence-based research and evidence-based practice play a vital role in the delivery or modern day healthcare. Emphasis will be placed upon the process of evidence-based research, utilizing the outcomes of evidence-based research and the utilization of outcomes assessment in healthcare.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 43018 ETHICAL LEADERSHIP FOR HEALTH CARE (WIC) 3 Credit Hours
(Slashed with ATTR 53018) Examination of specific situations in healthcare from an ethical sensitivity, reasoning and decision making perspective. A problem-oriented case study approach based on contemporary moral issues and moral theory related to clinical and academic health professions. An examination and assessment of leadership styles and methods as they pertain to healthcare and healthcare administration.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ATTR 45019 PROFESSIONAL RESPONSIBILITY AND MANAGEMENT IN HEALTH CARE 3 Credit Hours
An investigation of the issues affecting the entry level healthcare providers. Professional development issues and career advancement are included. Investigation into current philosophies and legal aspects of healthcare management. Organization and administrative concepts and models will focus on the advancement of patient based healthcare.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 45040 PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS 3 Credit Hours
(Slashed with ATTR 55040) Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatment and physiologic effects for various afflictions.
Prerequisite: ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 45041 ADVANCED THERAPEUTIC INTERVENTIONS 3 Credit Hours
Addresses the physiological considerations of specific injuries and conditions commonly encountered in the athletic training profession. Focus is on contemporary rehabilitative programming for all of the major body regions. Specific units on Aquatic therapy and rehabilitation, Neurological considerations for rehabilitation, Return to Running Considerations, and Return to Throwing protocols are included.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020; and ATTR 35054 and ATTR 45039.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 1 lab
Grade Mode: Standard Letter

ATTR 45091 SENIOR SEMINAR IN ATHLETIC TRAINING 1 Credit Hour
(Repeatable for credit) Contemporary issues related to preparing students for entry-level careers in the athletic training profession including development of the foundational behaviors of professional practice. Specific emphasis on employment preparation or graduate school preparation.
Prerequisite: Athletic Training major; and senior standing.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ATTR 45492 INTER-PROFESSIONAL INTERNSHIP IN SPORTS MEDICINE (ELR) 3 Credit Hours
(Repeatable for credit) Inter-professional internship experience in a sports medicine discipline. An internship experience in a sports medicine facility focusing on inter-professional dynamics and aspects of the discipline. A comprehensive clinical experience will be supported by engagement in the inter-professional environment through projects and professional development experiences. Integration of professionalism, professional development, and transition to practice in a sports medicine discipline drives this internship.
Prerequisite: Sports medicine major; and senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ATTR 53018 ETHICAL LEADERSHIP FOR HEALTH CARE 3 Credit Hours
(Slashed with ATTR 43018) Examination of specific situations in healthcare from an ethical sensitivity, reasoning and decision making perspective. A problem-oriented case study approach based on contemporary moral issues and moral theory related to clinical and academic health professions. An examination and assessment of leadership styles and methods as they pertain to health care and health care administration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 55038 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING 3 Credit Hours
(Slashed with ATTR 45038) Investigation into current philosophies and legal aspects of athletic training. Organization and administration of all aspects of athletic training programs.
Prerequisite: ATTR 25036; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 55039 THERAPEUTIC REHABILITATION 3 Credit Hours
(Slashed with ATTR 45039) The study and clinical application of rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration and guidelines for program progression.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 55040 PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS 3 Credit Hours
Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatments and physiologic effects for various afflictions.
Prerequisite: ATTR 25058 or EXSC 25058.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 60000 CADAVER ANATOMY AND APPLIED ASSESSMENT 6 Credit Hours
Cadaver dissection with emphasis on the systems of the body to understand structure and function of the anatomical structures. Applied assessment components integrate functional assessment and diagnostic signs and symptoms of common athletic training conditions and injuries. Evidence-based assessment will be infused throughout the course.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 6 lab
Grade Mode: Standard Letter

ATTR 61000 ACUTE INJURY DIAGNOSIS, TREATMENT AND MANAGEMENT 3 Credit Hours
Mechanisms of acute injuries will provide the foundation for the integration of evidence-based knowledge in the diagnosis, treatment and management of athletic training injuries. Contemporary clinical guidelines and management strategies will provide a framework for critical thinking and practical application.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 62010 CONTEMPORARY ISSUES AND EXAM PREP IN ATHLETIC TRAINING 3 Credit Hours
The purpose of this course is to prepare student to successfully transition to practice through rigorous investigation of contemporary issue in athletic training. Understanding the dynamic issues facing the profession will better prepare students for the challenges facing the profession and how to function effectively in the healthcare environment as an athletic trainer. Passing the Board of Certification (BOC) examination is the threshold for entry level practice into the profession. This course will provide exam taking strategies, ACES programming, and post workshop self directed strategies to position the students to successfully challenge the BOC examination upon graduation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 62012 EDUCATION AND SUPERVISION PROCESSES IN ATHLETIC TRAINING 3 Credit Hours
A comprehensive examination of educational learning theories, curriculum design, evaluation and supervision strategies in athletic training education programs from didactic and clinical perspectives. Additional applications for continuing education programs will be included.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 62014 ADVANCED CLINICAL PROCEDURES IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours
Advanced clinical practice theory and skills as they relate to the profession of athletic training and sports medicine. Emphasis on contemporary clinical practice issues for a variety of athletic training and sports medicine professional settings.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 62015 ORTHOPEDIC ASSESSMENT FOR THE ATHLETIC TRAINER 3 Credit Hours
This course will provide a holistic approach to evidence based practice (EBP) information regarding the role of the athletic trainer in performing orthopedic examinations. This course builds upon the anatomic and injury pathology information in previous courses and broadens students knowledge and skill set regarding diagnostic skills and tools necessary to develop a more effective and efficient differential diagnosis of common and uncommon orthopedic injuries that fall within the scope of practice for an Athletic Trainer.
Prerequisite: Athletic Training major; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 62016 CLINICAL INQUIRY IN ATHLETIC TRAINING 3 Credit Hours
Principles of athletic training research methodologies with a focus on clinical athletic training research. Completion of a clinical research project will be required in this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 63091 RESEARCH SEMINAR 1 Credit Hour
(Slashed with ATTR 73091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

ATTR 63094 COLLEGE TEACHING IN HEALTH SCIENCES 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Guided teaching experiences in the Health Sciences. Specific emphasis on establishing and implementing a teaching philosophy in an instructional setting in the Health Sciences. Development of Professional Teaching Behaviors will be addressed. A comprehensive teaching experience rooted in contemporary teaching literature will guide this course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Seminar
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter

ATTR 63096 INDIVIDUAL INVESTIGATION IN ATHLETIC TRAINING 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and School director required prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

ATTR 63098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

ATTR 63193 VARIABLE TITLE WORKSHOP IN ATHLETIC TRAINING 1-3 Credit Hours
(Repeatable for credit) Workshop in athletic training; topics vary. Maximum 4 hours applied to the degree.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ATTR 63195 SPECIAL TOPICS IN ATHLETIC TRAINING 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Selected and varied topics of relevance in athletic training.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ATTR 63199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ATTR 63299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ATTR 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ATTR 65001 CLINICAL PRACTICE I: PREVENTION AND WELLNESS 3 Credit Hours
Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to prevention of injuries and medical conditions and overall wellness will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Students must complete a minimum of 180 hours in clinicals.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter

ATTR 65002 CLINICAL PRACTICE II: ADVANCED HEAD, NECK AND ORTHOPEDIC 3 Credit Hours
Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to Head, Neck, and Orthopedic conditions and overall wellness will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hours in clinicals.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter

ATTR 65003 CLINICAL PRACTICE III: GENERAL MEDICAL 3 Credit Hours
Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to general medical conditions will be the primary focus. Engagement in an inter-professional environment including rotations with physicians and-or nurse practitioners with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hour in clinicals.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter

ATTR 65004 BIOMECHANICS 3 Credit Hours
(Cross-listed with EXPH 75004) Survey of biomechanics, with particular emphasis on skeletal muscle mechanics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 65005 CLINICAL PRACTICE IV: ADVANCED COMPETENCIES 3 Credit Hours
Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to advanced competencies and skills in athletic training will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hours in clinicals.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter

ATTR 65036 GENERAL MEDICAL CONDITIONS IN ATHLETIC TRAINING 3 Credit Hours
The purpose of this course is to provide a holistic approach to evidence based practice (EBP) information regarding the role of the athletic trainer in the initial assessment and referral of common general medical conditions that fall within the scope of practice for athletic training. The course provides an overview of pathology, etiology, signs and symptoms, diagnosis and treatments that follow established national and international professional standards of care. This course will include, but is not limited to dermatologic, respiratory, cardiovascular, endocrine, urogenital, neurological, musculoskeletal and digestive general medical conditions.
Prerequisite: Athletic Training major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 65037 PHYSICAL AGENTS IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours
The study and practical application of physical modalities including physical principles, physiologic effects, indications-contradictions, and standard application procedures. Safety and legal issues of modality usage are also addressed.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 65038 ADMINISTRATION CONCEPTS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours
Investigation into current philosophies and legal aspects of athletic training and sports medicine programs. Organization and administration of all aspects of athletic training and sports medicine programs with specific emphasis on policy and regulation of programs anchored in contemporary healthcare practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 65039 PHYSICAL REHABILITATION IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours
The study and clinical application of evidence based rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration, and guidelines for program progression. This course will address the comprehensive concepts related to the rehabilitation of including but not limited to modality selection, pharmacological considerations, record keeping, program design and implementation, and safety aspects. The psychology of rehabilitation including goal setting and motivation will also be addressed. Current literature and techniques in the field will support the content of this course.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 65040 PATHOPHARMACOLOGY FOR HEALTHCARE PROVIDERS 3 Credit Hours
Advanced investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatment and physiologic effects for various afflictions anchored in evidence-based practice in health care.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 65050 NEUROLOGICAL CONCEPTS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours
Advanced cognitive content in normal and pathological function of the nervous system and its components. Specific emphasis on the neurophysiological basis for motor learning, special senses, and memory serves to address the central and peripheral nervous system structure and function. Growth and Development and pathological responses to hypoxia, microbiologic agents, genetic derangements, nutritional deficiencies, chemicals, drugs and aging are addressed. Evidence-based practice concepts will guide the integration from anatomy and physiology to effective interventions for selected neurological conditions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 69999 CLINICAL CAPSTONE IN ATHLETIC TRAINING 6 Credit Hours
Clinical Capstone is an intensive, immersion experience in the clinical setting under the direct supervision of a certified, licensed health care professional. Students will invest a minimum of 360 in the clinical setting working with inter-professional health care providers. Clinical capstone expectations include performance evaluations by supervisors and patient management to promote active clinical engagement and critical thinking. A portfolio will include professional skill assessments, performance assessment, case studies, mock interview, and formal evidence-based presentation to health care providers on an athletic training domain.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 24 other
Grade Mode: Standard Letter

ATTR 73091 RESEARCH SEMINAR 1 Credit Hour
(Slashed with ATTR 63091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

ATTR 75001 EVIDENCE BASED INTERVENTIONS IN ATHLETIC TRAINING 3 Credit Hours
This course will examine the use of Evidence Based Interventions (EBI) in Athletic Training Education. This course will examine the implementation of EBI constructs across the curriculum and program. Specific emphasis on designing and implementing EBI into didactic and clinical experiences in Athletic Training. Implementation of EBI into the development, implementation and dissemination of research will also be addressed. Through an extensive examination of the critical literature, students will gain an understanding of how to broadly integrate EBI constructs in their professional practice.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 75002 ACADEMIC AND ADMINISTRATIVE LEADERSHIP IN ATHLETIC TRAINING 3 Credit Hours
This course will address the key academic leadership constructs needed to navigate the higher education culture as a faculty and/or clinical faculty member. Human resources, politics, administrative processes and organizational factors related to successful higher education and clinical leadership will be the focus. Leadership and advocacy strategies for professional organizations will also be developed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 75003 CONTINUOUS QUALITY IMPROVEMENT AND ASSESSMENT IN ATHLETIC TRAINING 3 Credit Hours
The focus of the course includes the fundamental constructs associated with quality improvement through an academic program in athletic training. The development of inter-professional practice, engaging curriculum, creation of educational and administrative policy, and leading change within Athletic Training organizations. The course will assist students in developing action plans for their organization pertaining to organizational improvement.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 75004 TEACHING AND CLINICAL EDUCATION LEADERSHIP IN ATHLETIC TRAINING 3 Credit Hours
This course focuses on the comprehensive and integrated elements in athletic training education. An in-depth analysis of curriculum design and implementation, didactic and clinical education, program assessments, and accreditation policies and standards will be addressed. A framework rooted in the context of inter-professional education promote organizational and programmatic improvements related dynamic trends in HC education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Exercise Physiology (EXPH)

EXPH 50612 EXERCISE LEADERSHIP FOR THE OLDER ADULT 3 Credit Hours
(Cross-listed with EXSC 40612) Designed to provide the students with a knowledge base in exercise leadership in the senior population and includes special populations. Students participate in the leading supervision and evaluation of the participant within the exercise program. They also assist in the collection of functional fitness data.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 53093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE AND EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with EXSC 43093) Workshop in exercise science or physiology, topics vary.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

EXPH 55040 ADVANCED STRENGTH AND CONDITIONING 3 Credit Hours
(Slashed with EXSC 45040) Advanced principles in strength and conditioning. Learn and understand the energy systems, anatomy, physiology and proper lifting technique of strength, speed, agility and conditioning exercises for practical application with athletes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 55065 EXERCISE TESTING 3 Credit Hours
(Cross-listed with EXSC 45065) Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 55070 ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST 3 Credit Hours
(Cross-listed with EXSC 45070) Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 55081 ADVANCED PHYSIOLOGY OF EXERCISE 3 Credit Hours
(Slashed with EXSC 45081) This course is designed to provide an augmented understanding of acute and chronic responses to exercise. Focus is placed on understanding the physiological responses at both the systems and the cellular levels. Emphasis is placed on muscle bioenergetics, environmental physiology, ergogenic aids, sex differences, extreme sports, children and adolescents in sport and exercise and a greater understanding of muscle and cardiorespiratory responses to exercise.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 60610 PHYSIOLOGY OF AGING: IMPLICATIONS FOR HUMAN BEHAVIOR 3 Credit Hours
(Cross-listed with EXPH 70610) Examine physiological changes which accompany advancing age. Special attention is paid to the effect of these changes on sensory motor and cognitive behavior.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 63050 RESEARCH PROCESS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours
(Slashed with EXPH 73050) The research process and statistical concepts applied to those in athletic training and exercise physiology.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 63051 QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours
(Slashed with EXPH 73051) Research design and statistical methods applied to exercise, physiology and athletic training.
Prerequisite: EXPH 63050; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 63091 RESEARCH SEMINAR 1 Credit Hour
(Repeatable for credit) (Slashed with EXPH 73091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

EXPH 63096 INDIVIDUAL INVESTIGATION IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 73096) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

EXPH 63098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

EXPH 63193 VARIABLE TITLE WORKSHOP IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for credit) Workshop in exercise physiology; topics vary. Maximum 4 hours applied to the degree.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

EXPH 63195 SPECIAL TOPICS IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with EXPH 73195) Selected and varied topics of relevance in exercise physiology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EXPH 63199 THESIS I 2-6 Credit Hours
(Repeatable for credit)Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 63299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: EXPH 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 65075 MUSCLE FUNCTION AND EXERCISE 3 Credit Hours
(Slashed with EXPH 75075) Characteristics of skeletal muscle related to contraction during exercise, strength, elasticity, fatigue, and training. Electromyograph analysis of muscle function emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 65076 ENVIRONMENTAL STRESS AND EXERCISE 3 Credit Hours
(Slashed with EXPH 75076) Effects of heat, cold, pressure, pollution and psychological stress upon physiological responses to exercise. Lecture and laboratory.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65080 PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT 3 Credit Hours
(Slashed with EXPH 75080) Application of physiological concepts to human performance. Includes role of testing, training strength and endurance, nutritional considerations, environmental influences and, adapted exercise programs.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65081 ENERGY METABOLISM AND BODY COMPOSITION 3 Credit Hours
(Slashed with EXPH 75081) Measurement of metabolic response to exercise. Topics include ergometry spirometry energy expenditure body composition and performance correlates of strength power and endurance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 65082 CARDIO-RESPIRATORY FUNCTION 3 Credit Hours
(Slashed with EXPH 75082) Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 65083 EXERCISE ENERGY METABOLISM 3 Credit Hours
(Slashed with EXPH 75083) Energy transformations during exercise. Emphasis on controlling mechanisms that regulate the anabolic and catabolic responses to both acute and chronic exercise.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65084 CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE 3 Credit Hours
(Slashed with EXPH 75084) Responses of the cardiovascular and respiratory systems to exercise. Use of noninvasive methods to measure cardio-respiratory function emphasized. Lecture and laboratory.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65086 NEUROBIOLOGY OF MOVEMENT AND EXERCISE 3 Credit Hours
(Slashed with EXPH 75086) Provide students with knowledge to understand the role of the muscular and nervous systems in human movement and exercise. Motor disorders and rehabilitation techniques will also be discussed. Lecture and laboratory.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65192 INTERNSHIP IN EXERCISE PHYSIOLOGY 1-9 Credit Hours
(Repeatable for a maximum of 9 credit hours) Field experience in exercise physiology programs and testing in Kent State University adult fitness program or cooperating agencies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 70610 PHYSIOLOGY OF AGING:IMPLICATIONS FOR HUMAN BEHAVIOR 3 Credit Hours
(Slashed with EXPH 60610) Examine physiological changes which accompany advancing age. Special attention is paid to the effect of these changes on sensory motor and cognitive behavior.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 73050 RESEARCH PROCESSES IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours
(Slashed with EXPH 63050) The research process and statistical concepts applied to athletic training and exercise physiology.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 73051 QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours
(Slashed with EXPH 63051) Research design and statistical methods applied to exercise physiology and athletic training.
Prerequisite: EXPH 73050; and doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 73091 RESEARCH SEMINAR 1 Credit Hour
(Repeatable for credit) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

EXPH 73096 INDIVIDUAL INVESTIGATION IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 63096) Independent student completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

EXPH 73195 SPECIAL TOPICS IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 63195) Selected and varied topics of relevance in exercise physiology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EXPH 75004 BIOMECHANICS 3 Credit Hours
(Cross-listed with ATTR 65004) Survey of biomechanics, with particular emphasis on skeletal muscle mechanics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 75075 MUSCLE FUNCTION AND EXERCISE 3 Credit Hours
(Slashed with EXPH 65075) Characteristics of skeletal muscle related to contraction during exercise, strength, elasticity, fatigue and training. Electromyograph analysis of muscle function emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 75076 ENVIRONMENTAL STRESS AND EXERCISE 3 Credit Hours
(Slashed with EXPH 65076) Effects of heat, cold, pressure, pollution and psychological stress upon physiological responses to exercise. Lecture and laboratory.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75080 PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT 3 Credit Hours
(Slashed with EXPH 65080) Application of physiological concepts to human performance. Includes role of testing, training, strength and endurance, nutritional considerations, environmental influences, and adapted exercise programs.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75081 ENERGY METABOLISM AND BODY COMPOSITION 3 Credit Hours
(Slashed with EXPH 65081) Measurement of metabolic response to exercise. Topics include ergometry, spirometry, energy expenditure, body composition and performance correlates of strength, power and endurance.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 75082 CARDIO-RESPIRATORY FUNCTION 3 Credit Hours
(Cross-listed with EXPH 65082) Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 75083 EXERCISE ENERGY METABOLISM 3 Credit Hours
(Slashed with EXPH 65083) Energy transformations during exercise. Emphasis on controlling mechanisms that regulate the anabolic and catabolic responses to both acute and chronic exercise.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75084 CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE 3 Credit Hours
(Slashed with EXPH 65084) Responses of the cardiovascular and respiratory systems to exercise. Use of noninvasive methods to measure cardio-respiratory function emphasized. Lecture and laboratory.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75086 NEUROBIOLOGY OF EXERCISE AND MOVEMENT 3 Credit Hours
(Slashed with EXPH 65086) Provides students with knowledge to understand the role of the muscular and nervous systems in human movement and exercise. Motor disorders and rehabilitation techniques will also be discussed. Lecture and laboratory.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75192 INTERNSHIP IN EXERCISE PHYSIOLOGY 1-9 Credit Hours
(Repeatable for a maximum of 9 credit hours) Field experience in exercise physiology programs and testing in Kent State University adult fitness program or cooperating agencies.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 83098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

EXPH 83199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 83299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: EXPH 83199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Exercise Science (EXSC)

EXSC 15003 CAREERS IN HEALTH AND MEDICAL SCIENCES 2 Credit Hours
(Cross-listed with ATTR 15003 and IHS 15003) An overview of the profession of Healthcare and Medical Professional associated including employment opportunities, academic preparation, and clinical preparation. This course will address the qualities and skills required for a comprehensive list of professional opportunities in the healthcare and medical fields with an emphasis on professionalism, cultural competencies, ethics and self care. Students will be required to work with faculty and health care and medical professionals to outline a personalized program to assist in their professional development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EXSC 23093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE 1-3 Credit Hours
(Repeatable for credit) Workshop to develop mastery and application of knowledge and skills that address issues in exercise science; topics vary. Satisfactory/unsatisfactory (S/U) graded.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

EXSC 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours
(Cross-listed with ATTR 25057) Comprehensive examination of anatomy and physiology related to the organization of the body and basic cell and tissue types. Specific structure and function of the muscular, skeletal, integumentary, and nervous systems are addressed.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

EXSC 25058 HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 4 Credit Hours
(Cross-listed with ATTR 25058) Comprehensive examination of anatomy and physiology related to the human body under rest and exercise conditions. Specific structure and function of the metabolic, endocrine, lymphatic, digestive, urinary and reproductive systems are addressed. Advanced coverage of neurological, cardiovascular and respiratory systems are also addressed.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

EXSC 34000 EXERCISE SCIENCE FOR ESPORTS 3 Credit Hours
This course examines topics within the field of exercise science and relates them to esports performance. Topics will include physical activity, sedentary behavior, mental and physical health and exercise physiology. By relating these topics to esports, students will gain an understanding of what may enhance and also diminish esport performance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXSC 35040 PRACTICAL AND APPLIED CONCEPTS OF STRENGTH AND CONDITIONING 3 Credit Hours
(Equivalent to ATTR 35040) This course will discuss the practical and applied concepts related to strength and conditioning. Specifically, the course will focus on how to improve muscle strength, power, speed, agility, endurance, stamina, stability and muscle hypertrophy. Emphasis will be placed on the ability to create and administer safe and effective periodized training programs while ensuring safe and effective techniques fundamental to improvements in athletic performance.
Prerequisite: ATTR 25057 (and ATTR 25058) or BSCI 10020 (and BSCI 11010) or BSCI 21010 or BSCI 21020 or EXSC 25057 (and EXSC 25058).
Corequisite: ATTR 35054 (or EXSC 35054) and ATTR 35080 (or EXSC 35080).
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 35054 BIOMECHANICS 3 Credit Hours
(Cross-listed with ATTR 35054) Anatomical and mechanical bases of human movement. Emphasis is placed on tools and techniques for motion analysis, mechanical concepts, forces and performance analysis. Lecture and laboratory.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 35068 STATISTICS FOR THE EXERCISE SCIENTIST 3 Credit Hours
Measurement and statistics applied to physical education and exercise/sport sciences; laboratory experiences in statistics test construction and administration and evaluation.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 35075 EXERCISE PROGRAMMING 3 Credit Hours
Problems and issues in developing exercise programs in institutional and commercial settings.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 35080 PHYSIOLOGY OF EXERCISE 4 Credit Hours
Response of the human to acute and chronic exercise with emphasis on the underlying physiological mechanisms.
Prerequisite: ATTR 25057 or BSCI 11010 or BSCI 21010 or EXSC 25057; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 40612 EXERCISE LEADERSHIP FOR THE OLDER ADULT 3 Credit Hours
(Cross-listed with EXPH 50612) Designed to provide students with a knowledge base in exercise leadership in the older adult population, including special populations. Students participate in the leading, supervision and evaluation of participants within the exercise program. The also assist in the collection of functional fitness data.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 43093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE AND EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with EXPH 53093) Workshop in exercise science or physiology, topics vary.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 lecture
Grade Mode: Satisfactory/Unsatisfactory

EXSC 43098 RESEARCH IN EXERCISE SCIENCE (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Research project completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EXSC 45022 EXERCISE LEADERSHIP 2 Credit Hours
Designed to provide the students with the knowledge base in exercise leadership. Topic areas and competencies using a variety of techniques in leading and demonstrating safe and effective methods of applying the fundamental principles of exercise science. The exercise leader will demonstrate all forms of group exercise, flexibility and balance training. The final exam is the American College of Sports Medicine Certified Exercise Physiologist certification (ACSM-EP). To take this certification requires that you be in the last semester of your senior year.
Prerequisite: ATTR 25057 or BSCI 11010 or BSCI 21010 or EXSC 25057; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058; and EXSC 35080; and senior standing.
Pre/corequisite: EXSC 45081.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EXSC 45023 PROFESSIONAL CERTIFICATE PREPARATION 2 Credit Hours
This course is designed to prepare students to take the the National Strength and Conditioning Association Certified Strength and Conditioning Specialist (NSCA CSCS). Material covered will include basic exercise science, training adaptations, and methods of resistance-exercise training.
Prerequisite: ATTR 25057 or BSCI 11010 or BSCI 21010 or EXSC 25057; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058; and EXSC 35080; and senior standing.
Pre/corequisite: ATTR 35040 and EXSC 45081.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EXSC 45040 ADVANCED STRENGTH AND CONDITIONING 3 Credit Hours
(Slashed with EXPH 55040) Advanced principles in strength and conditioning. Learn and understand the energy systems, anatomy, physiology and proper lifting technique of strength, speed, agility and conditioning exercises for practical application with athletes.
Prerequisite: ATTR 25057 or BSCI 11010 or BSCI 21010 or EXSC 25057; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058; and ATTR 21020; and EXSC 35040; and EXSC 35080.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXSC 45065 EXERCISE TESTING 3 Credit Hours
(Cross-listed with EXPH 55065) Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Exercise Science

EXSC 45070 ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST 3 Credit Hours
(Cross-listed with EXPH 55070) Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXSC 45081 ADVANCED PHYSIOLOGY OF EXERCISE (WIC) 3 Credit Hours
(Slashed with EXPH 45081) This course is designed to provide an augmented understanding of acute and chronic responses to exercise. Focus is placed on understanding the physiological responses at both the systems and the cellular levels. Emphasis is placed on muscle bioenergetics, environmental physiology, ergogenic aids, sex differences, extreme sports, children and adolescents in sport and exercise and a greater understanding of muscle and cardiorespiratory responses to exercise.
Prerequisite: ATTR 25057 (and ATTR 25058) or BSCI 11010 (and BSCI 11020) or BSCI 21010 or BSCI 21020 or EXSC 25057 (and EXSC 25058); and EXSC 35080.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

EXSC 45096 INDIVIDUAL INVESTIGATION IN EXERCISE SCIENCE (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EXSC 45480 INTERNSHIP SEMINAR IN EXERCISE SCIENCE 1 Credit Hour
Overview of the internship possibilities that are available for the exercise science major. The American College of Sports Medicine (ACSM) certification workshops and the scope of the practice for the exercises specialist is discussed in detail.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

EXSC 45481 SEMINAR IN EXERCISE PHYSIOLOGY 1 Credit Hour
Provides an overview of the research possibilities and the internship possibilities that are available for the exercise science major. The Institutional Review Board, research methodology and the risks and benefits of research in the area of exercise science are discussed in detail. Also covers The American College of Sports Medicine (ACSM) certification workshops and the scope of the practice for the exercises specialist.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

EXSC 45492 INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR) 1-9 Credit Hours
(Repeatable for a maximum of 9 credit hours) Supervised experience providing practical experience in administration and operation of programs in physical fitness, health enhancement and or cardiac rehabilitation. 45 clock hours per credit hour.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EXSC 46095 SPECIAL TOPICS IN EXERCISE SCIENCE 1-3 Credit Hours
(Repeatable for credit) Selected topics in exercise science dependent upon interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

Health Education (HED)

HED 11570 PERSONAL HEALTH 3 Credit Hours
This course examines the leading causes of death and disability in the United States with an emphasis on the application of knowledge and skills to reduce risk and enhance the quality of life.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 11590 COMMUNITY HEALTH EDUCATION 3 Credit Hours
Identification of community health problems and measures for control. Emphasizes principles, objectives and methods of community health education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 13510 WINNING COMBINATION:HEALTH AND ATHLETES 1 Credit Hour
An exploration of strategies for promoting healthy lifestyles for athletes. The course is reserved for varsity athletes.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

HED 14020 MEDICAL TERMINOLOGY 3 Credit Hours
Identification of the meaning of various roots and terms and combining forms that are components of medical words, including anatomical physiological and pathological therapeutic terminology and implications for health literacy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Medical Terminology, TAG Health

HED 21030 INTRODUCTION TO HEALTH EDUCATION 3 Credit Hours
This course introduces the student to the health education profession. Roles and responsibilities of health educators in a variety of occupational settings are described.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 21050 HEALTH EDUCATION THEORIES 3 Credit Hours
Application of various attitude and behavior models to health and illness behavior in order to develop a framework for educational intervention.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 30000 TEACHING HEALTH TO YOUNG LEARNERS 3 Credit Hours
Investigate current health issues relevant to children in primary grades, and identify educational strategies to increase student health knowledge, foster positive health attitudes and promote healthy behaviors.
Prerequisite: None.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 1.5 other
Grade Mode: Standard Letter

HED 32530 DRUG USE AND MISUSE 3 Credit Hours
Introduction to the study of drug/alcohol abuse. Basic pharmacology of drug actions is reviewed. Common myths misconceptions about drug alcohol use are examined. Current drug problems and related prevention treatment issues are analyzed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 32542 METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC) 5 Credit Hours
Analysis observation, demonstration and experience in the teaching-learning process utilizing methods, materials and resources appropriate to the preparation of professional health educators. This course includes 50 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: HED 11570.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HED 32544 HUMAN SEXUALITY 3 Credit Hours
A study of the role and meaning of human sexuality throughout the life cycle for self and society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 32565 MARKETING IN HEALTH EDUCATION 3 Credit Hours
Examines the basic elements of marketing processes as they relate to promoting health in communities. Emphasis on application of marketing planning, concepts and practices for service providers involved with health education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 32575 CONSUMER HEALTH 3 Credit Hours
An overview of the health marketplace including health products, services, financing, promotional practices and consumer protection laws.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 34050 PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION 3 Credit Hours
Provides students with the knowledge and skills to assess health resources and needs, develop health programs to meet specific needs in particular populations and determine appropriate measures to evaluate the effectiveness of health programs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 34060 SMALL GROUP PROCESS 2 Credit Hours
(Cross-listed with CES 37800) Students learn to understand the dynamics of problem solving groups and how to become effective leaders and members. Topics include climate, goals, decision making, communication, leadership, membership. Experience-based learning combined with conceptualizing.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 40093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 50093 and 70093) Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop.
Prerequisite: HED 11590; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HED 42041 HEALTH COACHING 3 Credit Hours
(Slashed with HED 52041) Techniques of health coaching and motivational interviewing applied to health education. Individual and group approaches relative to personal, family and societal health issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 42222 ADULTING 101: SEVEN DIMENSIONS TO A HEALTHY ADULTHOOD 2 Credit Hours
The transition from college to post-college life can be uncertain. A design for the initial post-college years can alleviate the anxiety and stress that are often experienced. This course will examine issues related to a 7 dimensional model of health-financial, environmental, emotional, intellectual, physical, social, occupational-and apply those dimensions to a post-college life design process.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 42392 STUDENT TEACHING IN HEALTH EDUCATION (ELR) 9 Credit Hours
Provides a twelve week student teaching experience. See student teaching section of catalog. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Eligibility for admission to student teaching and admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

HED 42575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS 3 Credit Hours
(Slashed with HED 52575) Focus on health issues/education/environment policy and practice/community strategies to respond to threats confronting students utilizing a coordinated school/community strategy to promote health to improve academic outcomes. CPR and first aid certification required for completion of course.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 42779 HAPPINESS AND HEALTH 2 Credit Hours
(Slashed with HED 52779) Happiness is a common life goal, yet how to achieve or maintain can be a challenge. The things people think should make them happy don't; and the things that have been proven to increase happiness are often a surprise. In this class, students explore proven methods to increase happiness, confront the common myths and misperceptions around it and discover how happiness is defined by cultures outside the United States. Students also explore how happiness is related to academic performance, immune function, diet, stress, heart disease and life expectancy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 44025 WOMEN'S HEALTH ISSUES 3 Credit Hours
(Slashed with HED 54025) Traditional and feminist analysis of women's health issues and the health educational responses to those issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44030 GAMBLING, GAMING AND HEALTH 3 Credit Hours
(Slashed with HED 54030) This course will provide information related to gambling, gaming, and their convergence to facilitate insight into personal decision-making and health outcomes. Emerging gambling and gaming trends will be investigated along with exploration of attitudes toward these activities that influence personal and community health. There is an emphasis on the application of knowledge and skills to assess and reduce personal risk.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44091 SCHOOL HEALTH EDUCATION VARIABLE CONTENT SEMINAR 1 Credit Hour
(Slashed with HED 54091) This course is designed to provide content for the K-12 health education topics required by the Ohio Department of Education to prepare students seeking school health licensure.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HED 44092 INTERNSHIP IN COMMUNITY HEALTH EDUCATION (ELR) 9 Credit Hours
(Repeatable for credit) Participation for one academic semester in the health education and promotion activities of an approved agency, organization or industry.
Prerequisite: Senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

HED 44095 SPECIAL TOPICS: HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 54095) Selected topics related to public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HED 44096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 54096 and 74096) Independent reading and/or research directed by a HED faculty member.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 44543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS 3 Credit Hours
(Slashed with HED 54543) Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44544 SEXUALITY EDUCATION PROGRAMS 3 Credit Hours
(Slashed with HED 54544) This course prepares students to develop, implement, and evaluate sexuality education programs in school and community settings.
Prerequisite: HED 32544.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS 3 Credit Hours
(Slashed with HED 54550) Drug abuse and violence prevention from theoretical, philosophical, empirical and practical perspectives. Application of theories to plan, implement, and evaluate drug and violence education programs.
Prerequisite: HED 32530.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 46052 STRESS: RECOGNITION AND MANAGEMENT 2 Credit Hours
(Slashed with HED 56052) An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 46057 ADVANCED HUMAN SEXUALITY 3 Credit Hours
(Slashed with HED 56057) Selected aspects of human sexuality; history, cross-cultural perspectives, medical/surgical conditions and sex therapy and counseling.
Prerequisite: HED 32544.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 47070 AIDS: ISSUES, EDUCATION AND PREVENTION 3 Credit Hours
(Slashed with HED 57070) This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to aids education and prevention issues and strategies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 47091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 57091 and 77091) Public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: Junior or senior standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE 3 Credit Hours
Interdisciplinary inquiry into teaching as a professional practice in health education; emphasis on teacher as disciplined investigator. Utilization of teaching and learning technology.
Prerequisite: School Health Education or Physical Education and Sport Performance majors; and admission to advanced study.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HED 50093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 40093 and 70093) Discussion of major issues in health and safety education. Content emphasis vary depending on workshop.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HED 52041 HEALTH COACHING 3 Credit Hours
(Slashed with HED 42041) Techniques of health coaching and motivational interviewing applied to health education. Individual and group approaches relative to personal, family and societal health issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 52575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS 3 Credit Hours
(Slashed with HED 42575) Focus on health issues/education/environment policy and practice/community strategies to respond to threats confronting students, utilizing a coordinated school community strategy to promote health and improve academic outcomes. CPR first aid certification required for completion of course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 52779 HAPPINESS AND HEALTH 2 Credit Hours
(Slashed with HED 42779) Happiness is a common life goal, yet how to achieve or maintain can be a challenge. The things people think should make them happy don't; and the things that have been proven to increase happiness are often a surprise. In this class, students explore proven methods to increase happiness, confront the common myths and misperceptions around it and discover how happiness is defined by cultures outside the United States. Students also explore how happiness is related to academic performance, immune function, diet, stress, heart disease and life expectancy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 54025 WOMEN'S HEALTH ISSUES 3 Credit Hours
(Slashed with HED 44025) Traditional and feminist analysis of women's health issues and the health educational responses to those issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54030 GAMBLING, GAMING AND HEALTH 3 Credit Hours
(Slashed with HED 44030) This course will provide information related to gambling, gaming, and their convergence to facilitate insight into personal decision-making and health outcomes. Emerging gambling and gaming trends will be investigated along with exploration of attitudes toward these activities that influence personal and community health. There is an emphasis on the application of knowledge and skills to assess and reduce personal risk.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 44051) The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54091 SCHOOL HEALTH EDUCATION VARIABLE CONTENT SEMINAR 1 Credit Hour
(Slashed with HED 44091) This course is designed to provide content for the K-12 health education topics required by the Ohio Department of Education to prepare students seeking school health licensure.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HED 54095 SPECIAL TOPICS:HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 44095) Selected topics related to public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HED 54096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 44096 and 74096) Independent reading and/or research directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 54543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS 3 Credit Hours
(Slashed with HED 44543) Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54544 SEXUALITY EDUCATION PROGRAMS 3 Credit Hours
(Slashed with HED 44544) This course prepares students to develop, implement, and evaluate sexuality education programs in school and community settings.
Prerequisite: HED 64063; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS 3 Credit Hours
(Slashed with HED 44550) Drug abuse and violence prevention from theoretical, philosophical, empirical, and practical perspectives. Application of theories to plan, implement, and evaluate drug and violence education programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 56052 STRESS: RECOGNITION AND MANAGEMENT 2 Credit Hours
(Slashed with HED 46052) An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 56057 ADVANCED HUMAN SEXUALITY 3 Credit Hours
(Slashed with HED 46057) Selected aspects of human sexuality: history, cross-cultural perspectives, medical/surgical therapy and counseling.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 57070 AIDS:ISSUES, EDUCATION AND PREVENTION 3 Credit Hours
(Slashed with HED 47070) This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to AIDS education and prevention issues and strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 57091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 47091 and 77091) Public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: HED 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 64030 INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64050 HEALTH BEHAVIOR 3 Credit Hours
(Slashed with HED 84050) Analysis of a broad range of theoretical and empirical models of health and illness behavior.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64055 NEEDS ASSESSMENT AND EVALUATION IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 84055) Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs.
Prerequisite: HED 64050; and HED 64061; and HED 64063; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64057 PROGRAM PLANNING AND IMPLEMENTATION IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 84057) Students will develop, implement, and evaluate a health education and promotion program plan specific to a target audience and health issue.
Prerequisite: HED 64050 and HED 64055 and HED 64061 and HED 64063; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64059 COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 84059) Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion.
Prerequisite: HED 64050 and HED 64061; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64061 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 84061) Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/ leadership, government initiatives, standards of practice and accreditations are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64062 ADMINISTRATION AND GRANT WRITING IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 84062) Basic concepts in the administration of health education promotion programs and grant writing. Coordination of program services, consultative relationships, management of human and fiscal resources, and organizational leadership are addressed as well as grant writing skills.
Prerequisite: HED 64061 and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64063 STRATEGIES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 84063) Health education and promotion methods and strategies are presented to develop programs and lesson plans for a variety of audiences, learning environments, and intervention levels.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64080 ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 84080) Emphasizes the advocacy role of health educators. Includes use of research results to develop, analyze and influence health policy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64094 COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION 2 Credit Hours
(Repeatable for credit) (Cross-listed with HED 84094) Guided experiences in teaching selected undergraduate courses.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

HED 64096 INDIVIDUAL INVESTIGATION: READINGS IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Slashed with HED 84096) Independent study of approved topics in health and safety education related to the student's special interests. Adviser's permission required to repeat registration one time.
Prerequisite: Health Education or Public Health major; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-S/U

HED 64098 PROJECT IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 84098) Research or individual investigation for master's level graduate students.
Prerequisite: Grading standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 68092 DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION 3 Credit Hours
Develop and implement standards based, culturally sensitive, developmentally appropriate, and ability centered health education unit and lesson plans with K-12 school populations. Students complete ODHE required field experience hours in this course for additional licensure in school health.
Prerequisite: HED 54544 and HED 64063; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

HED 70093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 40093 and 50093) Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HED 74096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 44096 and 54096) Independent reading and/or research directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 77091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 47091 and 57091) Public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 80292 PRACTICUM IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Repeatable for credit) In this course, students obtain permission to work with an individual faculty member on research, community projects, or other professional activities in various health education settings (school, community, medical care, worksite). Assignments are individualized to meet the needs of the practicum experience.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 81100 RESIDENCY SEMINAR: SYNTHESIS OF LITERATURE IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Exploration of philosophical, theoretical and empirical issues in health education and promotion. Students synthesize courses, research and practice in preparation for comprehensive examinations.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 81150 SEMINAR: PROFESSIONAL DEVELOPMENT IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Focuses on the process, practice and documentation of professional development in health education and promotion in the areas of instruction, program development, research and evaluation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

HED 81200 RESIDENCY SEMINAR: RESEARCH PROPOSAL, DEVELOPMENT AND PRESENTATION 3 Credit Hours
Review of the role of research and scholarly pursuits in the professorate, the professional health education literature, and in the development and dissemination of a range of scholarly products. Identification of requisite elements of a dissertation in health education and promotion. Refinement of a professional vita, updating of doctoral program prospectus, specification of dissertation topic, identification of potential dissertation committee members, development and presentation of draft dissertation proposal.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 81300 HEALTH EDUCATION PRACTICE 3 Credit Hours
Investigation of various health education settings including analysis of agency programming efforts and comparison to evidence-based practice. Application of community assessment, socioecological model, and community-based participatory research principles. Analysis of how health education theory and research are implemented in various practice settings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 81400 RESEARCH DISSEMINATION AND TECHNICAL WRITING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Examination and practice of technical writing for research proposals, technical reports, and journal publications in health education and promotion. Other methods of disseminating research such as preparation and submission of conference presentation applications and writing as part of consultative relationships with community agencies is explored.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 81450 ADVANCED PROGRAM EVALUATION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
A review of evaluation methods used in health education programs. Emphasis is placed on data collection procedures, linking program activities to outcomes, participant attrition and reporting of the results.
Prerequisite: HED 64055 and HED 64057; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 81550 APPLIED THEORY IN HEALTH EDUCATION RESEARCH AND PRACTICE 3 Credit Hours
Examination of theory/models/hypotheses applied to specific health behaviors. Emphasis on operationalization of theoretical constructs.
Prerequisite: HED 64050 or HED 84050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84030 INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84050 HEALTH BEHAVIOR 3 Credit Hours
(Slashed with HED 64050) Analysis of a broad range of theoretical and empirical models of health and illness behavior.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84055 NEEDS ASSESSMENT AND EVALUATION IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 64055) Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs.
Prerequisite: HED 64050 or 84050; and HED 64061 or 84061; and HED 64063 or 84063; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84057 PROGRAM PLANNING AND IMPLEMENTATION IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 64057) Students will develop, implement, and evaluate a health education and promotion program plan specific to a target audience and health issue.
Prerequisite: HED 64050 or 84050; and HED 64055 or 84055; and HED 64061 or 84061; and HED 64063 or 84063; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84059 COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 64059) Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion.
Prerequisite: HED 64050 or 84050; and HED 64061 or 84061; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84061 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 64061) Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/ leadership, government initiatives, standards of practice and accreditations are examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84062 ADMINISTRATION AND GRANT WRITING IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 64062) Basic concepts in the administration of health education promotion programs and grant writing. Coordination of program services, consultative relationships, management of human and fiscal resources, and organizational leadership are addressed as well as grant writing skills.
Prerequisite: HED 64061 or 84061; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84063 STRATEGIES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 64063) Health education and promotion methods and strategies are presented to develop programs and lesson plans for a variety of audiences, learning environments, and intervention levels.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84066 HEALTH IN THE DEVELOPING NATIONS 3 Credit Hours
Overview of national development, review of problems process and strategy of health development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84080 ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 64080) Emphasizes the advocacy role of health educators. Includes use of research results to develop analyze and influence health policy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84094 COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION 2 Credit Hours
(Repeatable for credit) (Slashed with HED 64094) Guided experiences in teaching selected undergraduate courses.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

HED 84096 INDIVIDUAL INVESTIGATION: READINGS IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Slashed with HED 64096) Independent study of approved topics in health and safety education related to the student's special interests. Adviser's permission required to repeat registration one time.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-S/U

HED 84098 PROJECT IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 64098) Research or individual investigation for doctoral level graduate students.
Prerequisite: Doctoral standing and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 88092 DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION 3 Credit Hours
Develop and implement standards based, culturally sensitive, developmentally appropriate, and ability centered health education unit and lesson plans with K-12 school populations. Students complete ODHE required field experience hours in this course for additional licensure in school health.
Prerequisite: HED 54544 and HED 84063; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

Integrated Health Studies (IHS)

IHS 15003 CAREERS IN HEALTH AND MEDICAL SCIENCES 2 Credit Hours
(Cross-listed with ATTR 15003 and EXSC 15003) An overview of the profession of Healthcare and Medical professions including employment opportunities, academic preparation, and clinical preparation. This course will address the qualities and skills required for a comprehensive list of professional opportunities in the healthcare and medical fields with an emphasis on professionalism, cultural competencies, ethics and self care. Students will be required to work with faculty and health care and medical professionals to outline a personalized program to assist in their professional development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

IHS 40091 SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES 2 Credit Hours
(Repeatable for credit) Seminar focuses on applying concepts from previous educational experiences to the practicum work experience.
Prerequisite: ATTR 15003 or EXSC 15003 or IHS 15003.
Corequisite: IHS 44092.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

IHS 44010 RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS 3 Credit Hours
Fundamental concepts and procedures for systematic collection, analysis and interpretation of qualitative and quantitative data in health related fields includes group and single-subject designs and use of parametric and nonparametric statistics.
Prerequisite: PSYC 21621.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IHS 44091 PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC) 3 Credit Hours
(Repeatable for credit)This course presents and integrates the role of scientists, practitioners and administrators in the health care and human service professions as they attempt to meet the needs of the individual in diverse environments. Current issues will be addressed. 400 hours observation/work experience in health/human service-related fields required prior to registration for this course.
Prerequisite: Senior standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

IHS 44092 PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR) 3-10 Credit Hours
(Repeatable for credit) Practicum focuses on providing supervised practical experience in a health science, health care and human services organization which allows students to apply theoretical knowledge and skills learned in their coursework.
Prerequisite: Integrated health studies majors; and senior standing; and special approval.
Corequisite: IHS 40091.
Schedule Type: Practical Experience
Contact Hours: 9-30 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

IHS 44095 SPECIAL TOPICS IN INTEGRATED HEALTH STUDIES 1-3 Credit Hours
(Repeatable for credit) Selected topics in integrated health dependent upon interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

IHS 44096 INDIVIDUAL INVESTIGATION IN INTEGRATED HEALTH 1-3 Credit Hours
(Repeatable for credit) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

Nutrition (NUTR)

NUTR 10011 NUTRITIONAL OUTREACH: A HOW-TO FOR LIFE-LONG HEALTHY EATING 1 Credit Hour
Teaches basic nutrition information for healthy eating, including the important nutritional aspects of cooking, shopping, dining and disease prevention related to dietary intake.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 23012 INTRODUCTORY FOOD SCIENCE 3 Credit Hours
(Cross-listed with HEM 23212) Principles of food preparation and quality evaluation, with an emphasis on food science concepts, nutrition, food consumption trends and government regulation.
Prerequisite: NUTR 23511.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

NUTR 23016 WORLD FOOD CUSTOMS AND NUTRITION 3 Credit Hours
The course explores cultural foods of diverse populations and focuses on understanding the interrelationship between food and agricultural practices of racial, ethnic and religious populations within the United States and globally.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 23112 INTRODUCTION TO THE PROFESSION: NUTRITION AND DIETETICS 1 Credit Hour
Discusses academic requirements for the Nutrition major, the history of the nutrition profession as well as current credentialing and licensing requirements. Explores the opportunities within the field of dietetics. Teaches methods to document academic, personal and professional skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 23510 QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY 3 Credit Hours
(Cross-listed with HM 23510) The application of management principles in quantity food production and service systems, including safety and sanitation; production forecasting and management; distribution; and service, commercial equipment and physical facilities. Introduction to inventory, recipe standardization and considerations of nutrition, quality and sustainability in quantity production.
Prerequisite: NUTR 23112.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

NUTR 23511 SCIENCE OF HUMAN NUTRITION (KBS) 3 Credit Hours
Basic concepts and principles in the science of human nutrition, energy balance and weight control, individual nutrient needs, diet selection, nutrition related metabolism and physiological functions, nutritional diseases and current human nutrition controversies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Health

NUTR 23520 SPORTS NUTRITION 3 Credit Hours
Teaches basic sports nutrition as well as practical applications of sports nutrition principles for students majoring in various healthcare related fields.
Prerequisite: NUTR 23511.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 33512 INTERMEDIATE NUTRITION SCIENCE 3 Credit Hours
Functions, sources, utilization and interactions of essential nutrients and associated physiology. Principles of designing a healthy diet using dietary standards and guidelines while considering nutrient needs of different populations.
Pre/corequisite: CHEM 20481 or CHEM 30481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 33522 INTRODUCTION TO NUTRITION ASSESSMENT 3 Credit Hours
Application of nutrition principles, including nutrition-focused physical assessment, dietary intake assessment, nutrition surveys, introduction to medical records, nutrition interviewing, dietary standards and food exchange lists.
Prerequisite: NUTR 23511; and nutrition major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

NUTR 33532 BUSINESS AND MANAGEMENT OF NUTRITION SERVICES 3 Credit Hours
Course explores the business management side of dietetics. Covers application of management theories, from dietetic programs and services to budgeting, billing and coding, in addition to quality improvement in dietetics programs and departments.
Prerequisite: NUTR 23511.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 35319 NUTRITION, HEALTH AND SOCIETY 3 Credit Hours
Course explores the role of environment, food, nutrition and lifestyle choices in promoting health and preventing disease. Focus is on the fundamentals of public policy, including legislative and regulatory basis of nutrition and dietetics practices.
Prerequisite: NUTR 23511.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 41095 SPECIAL TOPICS IN NUTRITION 1-4 Credit Hours
(Repeatable for credit)(Slashed with NUTR 51095) Discussion of a major topic within a specific field in nutrition and dietetics. Topic varies per curse offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

NUTR 41096 INDIVIDUAL INVESTIGATION IN NUTRITION 1-3 Credit Hours
(Repeatable for credit) Students undertake an independent study in an area of nutrition and dietetics that is not covered by a regular course offering, with the guidance of a Kent State faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

NUTR 43013 RESEARCH AND STATISTICAL METHODS IN NUTRITION AND DIETETICS (WIC) 3 Credit Hours
(Slashed with NUTR 53013) Student gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing.
Prerequisite: NUTR 33512.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

NUTR 43030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours
(Slashed with HTM 53030 and NUTR 53030)(Cross-listed with HEM 43030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.
Prerequisite: HEM 23212 or NUTR 23012; and HEM 23510 or NUTR 23510.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43512 MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours
(Slashed with NUTR 53512) Course explores the mechanisms through which the macronutrients meet biological needs and how these related to applied human nutrition.
Prerequisite: (ATTR 25057 (or EXSC 25057) and ATTR 25058 (or EXSC 25058)) or (BSCI 21010 and BSCI 21020); and NUTR 33512; and NUTR 33522; and CHEM 20481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43513 MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours
(Slashed with NUTR 53513) Course explores the mechanisms through which micronutrients meet human biological needs in the relationship to underlying applied human nutrition.
Prerequisite: (EXSC 25057 and EXSC 25058) or (ATTR 25057 and ATTR 25058) or (BSCI 21010 and BSCI 21020); and CHEM 20481; and NUTR 33512; and NUTR 33522.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43515 COMMUNITY NUTRITION (ELR) 3 Credit Hours
(Slashed with NUTR 53515) Introduction to nutrition problems and practices in the community. Principles and techniques of effective education, learning and behavior change theories and techniques. Includes an experiential laboratory component with a focus on planning, implementation, evaluation and outcomes in nutrition education, as well as nutrition communication, programming and counseling techniques.
Prerequisite: NUTR 33512 and NUTR 33522 and NUTR 33532.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NUTR 43518 LIFECYCLE NUTRITION 3 Credit Hours
(Slashed with NUTR 53518) Explores the nutrition needs through growth, development and aging. Focus is on nutritional needs and issues during conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood and older adulthood.
Prerequisite: NUTR 33512.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43522 INTEGRATIVE AND FUNCTIONAL NUTRITION 2 Credit Hours
(Slashed with NUTR 53522) Introduces the foundations of integrative and functional medicine as it relates to nutrition. Includes personalized nutrition, nutrigenomics, complementary and alternative therapies, nutraceuticals and functional foods, in addition to the interaction of food on supplement and drug efficacy.
Prerequisite: NUTR 33512.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NUTR 43523 NUTRITION AND DIETETICS: PROFESSIONAL PRACTICE 1 Credit Hour
Development of professional awareness. Evaluation of professional growth and formulation of plans for continued growth.
Prerequisite: Nutrition major; and senior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 43524 NUTRITION AND DIETETICS: PROFESSIONAL PRACTICE 2 Credit Hours
Development of professional awareness, leadership and career goals. Evaluation of professional growth and formulation of plans for continued growth in the profession of nutrition and dietetics.
Prerequisite: Nutrition major; and senior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NUTR 43532 METHODS AND EXPERIENCES IN NUTRITION OUTREACH 3 Credit Hours
(Slashed with NUTR 53532) Students learn methods for development and evaluation techniques used for nutrition outreach programming; the role of community nutrition education in public health; and the impact of nutrition programming on disease prevention and management. Students engage in service learning opportunities in community nutrition education.
Prerequisite: Special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 4 other
Grade Mode: Standard Letter

NUTR 43540 MEDICAL NUTRITION THERAPY I 3 Credit Hours
(Slashed with NUTR 53540) Exploration of the nutrition care process, including documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs. Students engage in case studies and nutrition assessment exercises.
Prerequisite: (ATTR 25057 and ATTR 25058) or (BSCI 21010 and BSCI 21020) or (EXSC 25057 AND EXSC 25058); and CHEM 20481; and NUTR 33512; and NUTR 33522; and senior standing.
Corequisite: NUTR 43541.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43541 MEDICAL NUTRITION THERAPY I LABORATORY 1 Credit Hour
(Slashed with NUTR 53541) Simulated laboratory experiences of the nutrition care process, including documentation, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs related to behavioral nutrition, gastrointestinal disorders, obesity, diabetes, cardiovascular disease and anemia. Students will engage in simulated case studies.
Prerequisite: CHEM 20481; and NUTR 33512; and NUTR 33522; and senior standing.
Corequisite: NUTR 43540.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

NUTR 43542 MEDICAL NUTRITION THERAPY II 3 Credit Hours
(Slashed with NUTR 53542) Continued exploration of the nutrition care process, including relevant documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutritional needs. Students engage in case studies and nutritional assessments.
Prerequisite: NUTR 43540.
Corequisite: NUTR 43543.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43543 MEDICAL NUTRITION THERAPY II LABORATORY 1 Credit Hour
(Slashed with NUTR 53543) Simulated laboratory experiences of the nutrition care process, including documentation, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs related to wounds and burns, renal diseases, immune disorders, oncology, eating disorders, pediatrics and those requiring nutrition support. Students will engage in simulated case studies.
Prerequisite: NUTR 43511; and senior standing.
Corequisite: NUTR 43542.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

NUTR 45092 PRACTICUM IN NUTRITION (ELR) 1-3 Credit Hours
Application of education in pre-professional experience in clinical, community and nutrition foodservice environments. Combination of nutrition experiences throughout the semester.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NUTR 45098 RESEARCH IN NUTRITION (ELR) 1-3 Credit Hours
Students engage in research under the supervision of a nutrition faculty member. Students may develop a research idea or work on faculty-led research.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NUTR 51095 SPECIAL TOPICS IN NUTRITION 1-4 Credit Hours
(Repeatable for credit)(Slashed with NUTR 41095) Discussion of a major topic within a specific field in nutrition and dietetics. Topic varies per curse offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

NUTR 51096 INDIVIDUAL INVESTIGATION IN NUTRITION 1-3 Credit Hours
(Repeatable for credit) Students undertake an independent study in an area of nutrition and dietetics that is not covered by a regular course offering, with the guidance of a Kent State faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

NUTR 53013 RESEARCH AND STATISTICAL METHODS IN NUTRITION 3 Credit Hours
(Slashed with NUTR 43013) Students gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours
(Slashed with NUTR 43030)(Cross-listed with HEM 43030 and HTM 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53512 MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours
(Slashed with NUTR 43512) Course explores the mechanisms through which the macronutrients meet biological need and how these related to applied human nutrition.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53513 MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours
(Slashed with NUTR 43513) Course explores the mechanisms through which micronutrients meet human biological needs in the relationship to underlying applied human nutrition.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53515 COMMUNITY NUTRITION 3 Credit Hours
(Slashed with NUTR 43515) Introduction to nutrition problems and practices in the community. Principles and techniques of effective education, learning and behavior change theories and techniques. Includes an experiential laboratory component with a focus on planning, implementation, evaluation and outcomes in nutrition education, as well as nutrition communication, programming and counseling techniques.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

NUTR 53518 LIFECYCLE NUTRITION 3 Credit Hours
(Slashed with NUTR 43518) Explores the nutrition needs through growth, development and aging. Focus is on nutritional needs and issues during conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood and older adulthood.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53522 INTEGRATIVE AND FUNCTIONAL NUTRITION 2 Credit Hours
(Slashed with NUTR 43522) Introduces the foundations of integrative and functional medicine as it relates to nutrition. Includes personalized nutrition, nutrigenomics, complementary and alternative therapies, nutraceuticals and functional foods, in addition to the interaction of food on supplement and drug efficacy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NUTR 53532 METHODS AND EXPERIENCES IN NUTRITION OUTREACH 3 Credit Hours
(Slashed with NUTR 43532) Students learn methods for development and evaluation techniques used for nutrition outreach programming; the role of community nutrition education in public health; and the impact of nutrition programming on disease prevention and management. Students engage in service learning opportunities in community nutrition education.
Prerequisite: Nutrition major; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 4 other
Grade Mode: Standard Letter

NUTR 53540 MEDICAL NUTRITION THERAPY I 3 Credit Hours
(Slashed with NUTR 43540) Exploration of the nutrition care process, including documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs. Students engage in case studies and nutrition assessment exercises.
Prerequisite: Graduate standing.
Corequisite: NUTR 53541.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53541 MEDICAL NUTRITION THERAPY I LABORATORY 1 Credit Hour
(Slashed with NUTR 43541) Simulated laboratory experiences of the nutrition care process, including documentation, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs related to behavioral nutrition, gastrointestinal disorders, obesity, diabetes, cardiovascular disease and anemia. Students will engage in simulated case studies.
Prerequisite: Graduate standing.
Corequisite: NUTR 53540.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

NUTR 53542 MEDICAL NUTRITION THERAPY II 3 Credit Hours
(Slashed with NUTR 43542) Continued exploration of the nutrition care process, including relevant documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutritional needs. Students engage in case studies and nutritional assessments.
Prerequisite: Graduate standing.
Corequisite: NUTR 53543.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53543 MEDICAL NUTRITION THERAPY II LABORATORY 1 Credit Hour
(Slashed with NUTR 43543) Simulated laboratory experiences of the nutrition care process, including documentation, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs related to wounds and burns, renal diseases, immune disorders, oncology, eating disorders, pediatrics, and those requiring nutrition support. Student will engage in simulated case studies.
Prerequisite: Graduate standing.
Corequisite: NUTR 53542.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

NUTR 61015 NUTRITION AND DISEASE 3 Credit Hours
This course will overview the physiologic and metabolic process of organ systems that are integral to diseases related to nutrition. The treatment methods for these diseases will also be introduced.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 61016 RESEARCH METHODS IN NUTRITION I 3 Credit Hours
Introduces the foundations of research methods and statistics in nutrition sciences. Students are exposed to basic research methods related to quantitative and qualitative methods with an emphasis on quantitative methods. Basic statistical concepts are introduced with a focus on descriptive and inferential statistic common in nutrition science research. During the course, students start developing their thesis or research project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 61017 RESEARCH METHODS IN NUTRITION II 3 Credit Hours
Course builds upon NUTR 61016 and develops understanding on important aspects of research methods and statistical tests used in nutrition and dietetics.
Prerequisite: NUTR 61016; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 61098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's-level students. Credit earned may be applied toward meeting degree requirements with school approval.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

NUTR 61099 MASTER'S PROJECT 2-6 Credit Hours
(Repeatable for credit) (Cross-listed with HDFS 61099) Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NUTR 63199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NUTR 63299 THESIS II 2 Credit Hours
Students must continue registration each semester until all degree requirements are met.
Prerequisite: NUTR 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NUTR 63518 ADVANCED SPORTS NUTRITION 3 Credit Hours
Course focuses on nutritional concepts and principles related to athletic performance including energy needs, metabolism, and utilization in sports, macronutrient needs and metabolism, micronutrient needs of athletes, nutrient timing considerations, hydration needs and practices and other special considerations.
Prerequisite: Graduation standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63519 ADVANCED STUDY OF MICRONUTRIENTS 3 Credit Hours
Course covers intake, digestion and absorption of nutrients.
Prerequisite: Nutrition major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63520 MACRONUTRIENT NUTRITION 3 Credit Hours
Course covers metabolic utilization of macronutrients for body processes.
Prerequisite: Nutrition major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63521 NUTRITION AND DISEASE: CLINICAL APPLICATIONS 3 Credit Hours
Recent trends and concepts in research and practice of therapeutic dietetics.
Prerequisite: NUTR 61015; and nutrition major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63522 COMMUNICATION, MANAGEMENT AND PROFESSIONALISM IN DIETETICS 3 Credit Hours
Explores the importance of communication in a variety of medias as it relates to leadership and management and overall professionalism in nutrition. The areas of management focus include foodservice, community and clinical nutrition management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63524 PERSPECTIVE ON PREVENTION AND PRACTICE IN COMMUNITY NUTRITION 3 Credit Hours
Explores the relationship between nutritional epidemiology and the research, policies and programs for the successful treatment and prevention of nutrition related disease in the United States. Focuses on the behavioral and learning theories used in successful nutrition interventions and grant writing to sustain community programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63525 DIETETIC PRACTICE: COMMUNITY 1 Credit Hour
Discussion focusing on nutrition care in the community setting. Evaluation and interpretation of the scientific literature.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 63526 DIETETIC PRACTICE: MANAGEMENT 1 Credit Hour
Discussion focusing on the management of food and nutrition services. Evaluation and interpretation of the scientific literature.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 63527 DIETETIC PRACTICE: CLINICAL 1 Credit Hour
Discussion focusing on nutrition care in the acute practice setting. Evaluation and interpretation of the scientific literature.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 63591 NUTRITION SEMINAR 1-3 Credit Hours
(Repeatable for credit) Evaluation and interpretation of recent literature in an area of nutrition. Topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

NUTR 63592 DIETETIC INTERNSHIP 1-4 Credit Hours
(Repeatable for credit) Supervised practice component of dietetic internship.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 12-48 other
Grade Mode: Satisfactory/Unsatisfactory

Speech Pathology and Audiology (SPA)

SPA 10002 INTRODUCTION TO COMMUNICATION DISORDERS AND DIFFERENCES 3 Credit Hours
An introduction to communication disorders and differences using a) case studies via film and video review and critique, b) lecture, and c) class discussions. Covers speech, language, swallowing and hearing disorders and cultural and linguistic differences in communication.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 14500 INTRODUCTION TO PSYCHOLINGUISTICS FOR COMMUNICATION SCIENCES AND DISORDERS 3 Credit Hours
Examines current theory and research specific to typical language — with a significant focus on the cognitive processes that inform our understanding of social, psychological and linguistic aspects of language use and understanding in the context of communication sciences and disorders.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 33101 HEARING AND SPEECH SCIENCE 3 Credit Hours
Acoustics, psychoacoustics, and acoustics of speech production and perception.
Prerequisite: Admittance into the SPA professional phase (minimum 3.000 overall GPA at 60 credits).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34102 APPLIED PHONETICS 3 Credit Hours
Basic principles of speech production and phonetic transcriptions of English with the international phonetic alphabet; emphasis on general American dialect.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34103 ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING 3 Credit Hours
Functional anatomy and physiology of the respiratory, phonatory, articulatory, neural, and auditory systems as they are used with normal and abnormal speech and hearing.
Prerequisite: SPA 34104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34104 SPEECH AND LANGUAGE ACQUISITION 3 Credit Hours
Normal development and linguistic analysis of language systems including phonology, morphology, syntax, semantics, and pragmatics.
Pre/corequisite: SPA 34102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34106 ARTICULATORY AND PHONOLOGICAL DISORDERS 3 Credit Hours
Assessment and remediation of disorders of articulation and phonology.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 34102 and SPA 34104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34107 LANGUAGE DISORDERS IN CHILDREN AND ADOLESCENTS 3 Credit Hours
Introduction to assessment and intervention procedures associated with language disorders in children and adolescents.
Prerequisite: SPA 34104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34210 SPEECH AND LANGUAGE DEVELOPMENT 3 Credit Hours
Normal development and linguistic analysis of language systems including phonology, morphology, syntax, semantics, and pragmatics. This course is for non-speech pathology and audiology majors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 43402 AUDIOMETRY 3 Credit Hours
(Slashed with SPA 53402) Measurement of human hearing by pure-tone and speech audiometry; evaluation of middle ear function by immittance audiometry; screening techniques; pathologies of the conductive and sensorineural systems.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 33101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 43404 AURAL REHABILITATION 3 Credit Hours
Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing-impaired individuals.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 33101 and SPA 34102 and SPA 43402.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 43405 CLINICAL PREPARATION IN AUDIOLOGY (ELR) 2 Credit Hours
Exercises and practical experiences in audiometric procedures, test interpretation, and Audiological diagnosis.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 hours).
Corequisite: SPA 43402.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

SPA 44010 SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS 3 Credit Hours
Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores the use of assistive technology to enhance social communicative functioning in those with ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44020 MEDICAL ASPECTS OF AUTISM SPECTRUM DISORDERS 3 Credit Hours
(Cross-listed with SPED 44020) Description of medical issues facing individuals with autism spectrum disorders (ASD) and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours
(Slashed with SPA 54030, SPA 74030 and SPED 54030) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents and young adults with autism spectrum disorders (ASD). Students learning skills necessary to evaluate and develop programs designed to meet the changing and long term needs of those with ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY (DIVG) (ELR) 1-4 Credit Hours
(Slashed with SPA 54089 and SPA 74089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP
Attributes: Diversity Global, Experiential Learning Requirement

SPA 44096 INDEPENDENT STUDY: SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours
(Repeatable for credit) Readings and/or research on problems approved by chairman of department in consultation with student's adviser and project director.
Prerequisite: Speech pathology and audiology major and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

SPA 44110 SPEECH SCIENCE 3 Credit Hours
Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 34102 and SPA 34106.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44111 NEURAL PROCESSES 3 Credit Hours
(Slashed with SPA 54111) Anatomy and physiology of the nervous system underlying human neuromotor movements. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function, and neural maturation and learning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44112 AGE-RELATED CHANGES IN COMMUNICATION 3 Credit Hours
Nonpathological age-related changes in speech, language and voice. Topics include structural changes in orofacial, laryngeal and respiratory mechanism; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44130 COMMUNICATION DISORDERS OF THE AGING 2 Credit Hours
Hearing, speech and language disorders in geriatric population. Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 44310 CLINICAL PROCEDURES IN SPEECH PATHOLOGY 3 Credit Hours
This course addresses evaluation and intervention procedures in the field of speech-language pathology across the lifespan.
Prerequisite: Admittance into the admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits) professional phase (minimum 3.000 overall GPA at 60 credits); and Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44311 CLINICAL PREPARATION IN SPEECH-LANGUAGE PATHOLOGY (ELR) (WIC) 2 Credit Hours
The course covers the essential professional written communication associated with evaluation and intervention methodology for individuals with communication disorders.
Prerequisite: Admittance into the speech pathology and audiology professional phase (3.000 overall GPA at 60 hours).
Corequisite: SPA 44310.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPA 53402 AUDIOMETRY 3 Credit Hours
(Slashed with SPA 43402) Measurement of human hearing by puretone and speech audiometry# evaluation of middle ear function by immittance audiometry# screening techniques# pathologies of the conductive and sensorineural systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 53404 AURAL REHABILITATION 3 Credit Hours
Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing-impaired individuals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54010 SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS 3 Credit Hours
(Slashed with SPA 44010) Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores the use of assistive technology to enhance social communicative functioning in those with ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours
(Cross-listed with SPED 54030) (Slashed with SPA 44030 and SPA 74030) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents and young adults with autism spectrum disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with SPA 44089 and SPA 74089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Graduate standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPA 54096 INDEPENDENT STUDY: SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours
(Repeatable for credit) Readings and/or research on problems approved by chair of department in consultation with student's adviser and project director.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

SPA 54110 SPEECH SCIENCE 3 Credit Hours
Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders.
Prerequisite: SPA 34102 and 34106; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54111 NEURAL PROCESSES IN SPEECH AND LANGUAGE 3 Credit Hours
Anatomy and physiology of the nervous system underlying speech and language. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function and neural maturation and learning.
Prerequisite: SPA 34103 or special approval of the instructor; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54112 AGE-RELATED CHANGES IN COMMUNICATION 3 Credit Hours
Nonpathological age-related changes in speech, language and voice. Topics include: structural changes in orofacial, laryngeal and respiratory mechanisms; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54130 COMMUNICATION DISORDERS OF THE AGING 2 Credit Hours
Hearing, speech and language disorders in geriatric population. Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 54309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours
(Cross-listed with SPED 54309) (Slashed with SPED 44309 and SPA 74309) Provides an overview of autism spectrum disorders (ASD). Examines the history, characteristics, and prevalence of ASD. The different theoretical models for understanding ASD are explored as they relate to assessment and intervention.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 60708 CRITICAL ANALYSIS OF RESEARCH 2 Credit Hours
(Slashed with SPA 70708) Development of a reading knowledge of research and the ability to evaluate the quality of research studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 63691 SEMINAR IN AUDIOLOGY 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPA 64091 SEMINAR IN COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Special topics seminar for advanced students in speech-language pathology and audiology. Presentations and discussion of research projects are required.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64093 WORKSHOP IN COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for credit)Variable topic workshop offered when need arises, either on or off campus to update training in a particular area of speech pathology.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 64096 INDIVIDUAL INVESTIGATION:SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours) Independent study of topics to be selected in consultation with graduate faculty.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64191 SEMINAR:NEUROGENIC COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia.
Prerequisite: SPA 64301; and graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64291 SEMINAR:CHILD LANGUAGE 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Topics are selected for class investigation from the areas of child language development or disorders.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SPA 64199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64301 APHASIA 3 Credit Hours
Neuroanatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia in adults.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64302 LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD 3 Credit Hours
Methods of language assessment and intervention for infants, toddlers and preschoolers who are either at risk or diagnosed as presenting language delays or disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64303 DISORDERS OF ARTICULATION AND PHONOLOGY 3 Credit Hours
Diagnosis and remediation of children's articulation and phonological disorders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64304 ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS 3 Credit Hours
Cognitive functions and etiologies, symptomologies, evaluation and treatment methods related to adults with cognitive communicative disorders subsequent to right hemisphere damage, traumatic brain injury, dementia and related impairments.
Prerequisite: Speech language pathology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64305 FLUENCY DISORDERS 3 Credit Hours
Nature, theories and their derived therapeutic approaches to the treatment of fluency disorders.
Prerequisite: Speech language pathology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64306 VOICE DISORDERS 2 Credit Hours
Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 64308 LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS 3 Credit Hours
Theoretical background knowledge and practical assessment and intervention techniques for school-age children who demonstrate language disorders.
Prerequisite: SPA 34107; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64311 AUTISM SPECTRUM DISORDERS 2 Credit Hours
Provides an overview of the social, communication, and language needs of those with autism spectrum disorder. Reviews contemporary assessment and intervention strategies. This course is designed to prepare preservice speech language pathologists with foundational information about autism spectrum disorders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 64312 MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS 3 Credit Hours
(Slashed with SPA 74312) Anatomic and physiologic bases of congenital and acquired motor speech disorders. Etiology, symptomatology, evaluation and treatment techniques related to variety of motor speech disorders in children and adults.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64354 PEDIATRIC MEDICAL ISSUES 2 Credit Hours
Nature and rehabilitative procedures for speech-language pathology practice with pediatric medical issues, including dysphagia, maxillofacial anomalies, and resonance disorders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 64356 ADULT DYSPHAGIA 3 Credit Hours
(Slashed with SPA 74356) Anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to swallowing disorders in adults.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64391 SEMINAR:SEMINAR: ARTICULATION AND PHONOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64491 SEMINAR:ORGANIC SPEECH DISORDERS 1-3 Credit Hours
(Repeatable for credit)A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64492 CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-12 Credit Hours
(Repeatable for credit) Supervised clinical practice with patients who have speech, hearing or language problems.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-12 other
Grade Mode: Standard Letter-IP

SPA 64500 NORMAL LANGUAGE PROCESSES 3 Credit Hours
Examines current theory and research specific to normal human development from birth to age 21. Significant neurological, cognitive, social, linguistic, emotional, literacy, and motor developmental changes are explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64501 SOCIAL COMMUNICATION ASPECTS OF AUTISM SPECTRUM DISORDER 3 Credit Hours
(Slashed with SPA 74501) Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores use of assistive technology to enhance social communicative functioning in those with ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64504 ADVANCED SPEECH AND VOICE SCIENCE 3 Credit Hours
Application of normal and disordered speech, swallowing, and voice production and perception; survey of literature; theories of production and perception.
Prerequisite: SPA 54110; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64525 PUBLIC SCHOOL TECHNIQUES IN COMMUNICATION DISORDERS:INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech language pathologist or audiologist as disciplined investigator. Combination of themes including organizational procedures, therapy techniques, collaboration, ethics and research.
Prerequisite: Graduate standing; and special approval.
Corequisite: SPA 64592.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64591 SEMINAR:FLUENCY DISORDERS 1-3 Credit Hours
(Repeatable for a maximum 9 credit hours)Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64592 STUDENT TEACHING IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 8 Credit Hours
Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech language pathologist or audiologist as disciplined investigator. Combination of themes including organization, procedures, therapy techniques, collaboration, ethics and research. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing; and special approval.
Corequisite: SPA 64525.
Schedule Type: Practical Experience
Contact Hours: 40 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 64600 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 3 Credit Hours
Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech language pathology and audiology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64691 SEMINAR:VOICE DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment.
Prerequisite: SPA 6/74306; and graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64791 SEMINAR:SPEECH SCIENCE 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception.
Prerequisite: SPA 4/54110 and SPA 6/74504; graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64891 SEMINAR: COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY 2 Credit Hours
(Slashed with SPA 74891) (Repeatable for credit) Nature, etiologies and correlates of speech/language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication, language, learning and literacy.
Prerequisite: SPA 64302 and SPA 64500; and graduate standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

SPA 64991 SEMINAR:CRITICAL TOPICS IN SPEECH LANGUAGE 1-3 Credit Hours
(Repeatable for credit) Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework.
Prerequisite: Speech pathology and audiology major only; and graduate standing; and instructor special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 65092 CLINICAL PRACTICUM I IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 75092) (Repeatable twice for credit) Supervised, introductory clinical experience in assessment and intervention with populations within the Scope of Practice of speech language pathology per the current practice policy of the American Speech Language Hearing Association. To facilitate clinical competency and accrual of required clinical clock hours per current ASHA standards, students are expected to enroll in Clinical Practicum each semester that they are not enrolled in Externship or Student Teaching. A grade of B or better in this course is required for permission to register in SPA 65192.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 65192 CLINICAL PRACTICUM II IN SPEECH AND LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 75192) (Repeatable twice for credit) This course includes additional supervised, hands on clinical experience with clients in on campus clinics. Student clinicians are provided with opportunities to demonstrate increased independence in clinical decision making and performance. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for registration in SPA 65292.
Prerequisite: SPA 65092 with a minimum C grade; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 65292 CLINICAL PRACTICUM III IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 75292) (Repeatable twice for credit) Includes additional supervised, hands on clinical experience with clients in on campus clinics and or off-campus, supervised clinical experience in sites such as schools or long term care facilities. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that reflect readiness for Externship or Student Teaching experiences. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for permission to register in the following courses: Clinical Practicum IV in Speech Language Pathology SPA 65392, Externship in Speech Language Pathology: Adult SPA 65492, Externship in Speech Language Pathology: Pediatric SPA 65592, Student Teaching in Speech Language Pathology SPA 64528.
Prerequisite: SPA 65192 with a minimum B grade; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 65392 CLINICAL PRACTICUM IV IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 75392) (Repeatable twice for credit) This supervised, hands on clinical experience with clients in on campus clinics or off campus sites is for second year graduate students who are not yet scheduled for externship or student teaching. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that are reflective of readiness for externship or student teaching experiences. A grade of B or better in this course is required for permission to register in the following courses: Externship in speech language pathology: adult SPA 65492, externship in speech language pathology: pediatric SPA 65592, student teaching in speech language pathology SPA 64528.
Prerequisite: SPA 65292 with a minimum B grade; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 65492 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: ADULT 4-8 Credit Hours
(Slashed with SPA 75492) (Repeatable once for credit) Considered a culminating clinical experience. Includes supervised, hands-on clinical experience with patients in adult care settings such as hospitals, rehabilitation and long term care facilities.
Prerequisite: SPA 65292 or SPA 65392 with a minimum B grade; and graduate standing; and permission.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Standard Letter-IP

SPA 65592 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: PEDIATRIC 4-8 Credit Hours
(Slashed with SPA 75592) (Repeatable once for credit) Considered a culminating clinical experience. Students may choose this course as an alternative to student teaching in speech-language pathology. Includes supervised, hands-on clinical experience with children and adolescents in pediatric care settings such as hospitals and other habilitation and rehabilitation facilities.
Prerequisite: SPA 65292 or SPA 65392 with a minimum B grade; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Standard Letter-IP

SPA 70192 GRADUATE AUDIOLOGIST I 3 Credit Hours
Supervised clinical practicum in audiology which encompasses audiologic assessments and audiologic habilitation.
Prerequisite: SPA 70792; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

SPA 70292 GRADUATE AUDIOLOGIST II 3 Credit Hours
Supervised clinical practicum in audiology requiring the independent performance of audiologic assessment procedures, audiologic rehabilitation and vestibular assessment and rehabilitation.
Prerequisite: SPA 70192; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

SPA 70392 GRADUATE AUDIOLOGIST III 6 Credit Hours
Supervised clinical practicum in audiology which encompasses the entire range of audiologic procedures including neurophysiological based procedures.
Prerequisite: Passing score of 600 or higher on the PRAXIS examination; and SPA 70292; and doctoral standing; and special approval.
Corequisite: SPA 70791.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 70492 GRADUATE AUDIOLOGIST IV 8 Credit Hours
Full-time clinical practicum in audiology at an off-campus site. Students taking the course must have successfully completed the Praxis Examination.
Prerequisite: SPA 70392; and doctoral standing.
Corequisite: SPA 70791.
Schedule Type: Practical Experience
Contact Hours: 24 other
Grade Mode: Standard Letter

SPA 70592 GRADUATE AUDIOLOGIST V 8 Credit Hours
Full-time external audiology clinical placement with a licensed and appropriately credentialed preceptor who provides clinical teaching. This experience provides a capstone learning experience in the full scope of practice in the profession of audiology.
Prerequisite: SPA 70492; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 24 other
Grade Mode: Standard Letter

SPA 70615 CENTRAL AUDITORY PROCESSING EVALUATION AND MANAGEMENT 2 Credit Hours
Study of audiologic evaluation and (re)habilitation procedures for people central auditory processing disorders.
Prerequisite: SPA 70705 and SPA 70706; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70616 HEARING AID FITTING AND SELECTION ACROSS THE LIFESPAN 4 Credit Hours
Examination of the theory and practice of fitting hearing aids across the lifespan. Emphasis on special clinical procedures, research needs and evolving technology in hearing instruments.
Prerequisite: Admission to the audiology major; and SPA 70713; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70618 IMPLANTABLE TECHNOLOGY 4 Credit Hours
Study of implantable devices in children and adults including equipment, candidacy, programming, fitting, and troubleshooting.
Prerequisite: Admisstion to the audiology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70627 MULTICULTURAL ISSUES IN AUDIOLOGY 2 Credit Hours
An introduction to varying cultures and the audiologist's roles and responsibilities in planning treatment with a member of these cultures.
Prerequisite: Admission to the audiology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70630 PRACTICE MANAGEMENT IN AUDIOLOGY 3 Credit Hours
Study of issues which impact the management of audiological practices, including establishing a private practice, reimbursement, marketing, record keeping and professional liability.
Prerequisite: Admission to the audiology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70691 SEMINAR IN AUDIOLOGY 2 Credit Hours
(Repeatable for credit)Selected current topics in audiology with emphasis on review of current literature.
Prerequisite: Admission to the AUD program or special approval of the instructor; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

SPA 70692 INTERNSHIP IN AUDIOLOGY 2 Credit Hours
(Repeatable for credit) Supervised practicum in audiology requiring the independent performance of basic audiologic procedures, including hearing aid management.
Prerequisite: SPA 70744; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 70701 BASIC AND APPLIED PHYSICAL ACOUSTICS FOR AUDIOLOGY 4 Credit Hours
Study of physical acoustics, basic electricity and electronics, as well as principles, methodology, calibration and maintenance of audiologic equipment.
Prerequisite: Admission to the AUD program or special approval of instructor; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70702 ANATOMY AND PHYSIOLOGY OF PERIPHERAL AUDITORY AND VESTIBULAR SYSTEMS 4 Credit Hours
A study of the anatomy, biophysics and physiology of the auditory and vestibular systems.
Prerequisite: Admission to the Audiology program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70703 SPEECH ACOUSTICS AND SPEECH PERCEPTION 2 Credit Hours
Study of the nomenclature, acoustics, measurement, and perception of speech sounds and their impact and interpretation in audiology.
Prerequisite: Admission to the audiology program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70704 CRITICAL ANALYSIS OF RESEARCH IN AUDIOLOGY 2 Credit Hours
General introduction to the research process with an emphasis on acquiring a reading knowledge of research and an ability to evaluate research.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70705 AUDITORY DISORDERS 2 Credit Hours
Study of conditions/diseases that can affect the auditory system.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70706 ANATOMY AND PHYSIOLOGY UNDERLYING NEURO-OTOLOGY 4 Credit Hours
An in-depth study of the anatomy and physiology of the central auditory and vestibular nervous system (includes 1 hour lab.)
Prerequisite: SPA 70702; and doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

SPA 70707 PSYCHOACOUSTICS 3 Credit Hours
Study of the principles, procedures and research of psychoacoustics; the relationships between the physical dimensions of auditory stimuli and the resultant perceptual experience with normal and impaired hearing.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70708 CRITICAL ANALYSIS OF RESEARCH 2 Credit Hours
Development of a reading knowledge of research and the ability to evaluate the quality of research studies.
Prerequisite: SPA 70704; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70709 AUDIOLOGIC ASSESSMENT 3 Credit Hours
Theoretical basis for tests underlying basic audiologic assessments.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70710 INDUSTRY AND COMMUNITY NOISE 3 Credit Hours
Theoretical principles of noise measurement; etiology of noise-induced hearing loss and acoustic trauma; industrial hearing conservation programs; occupational safety and health act; community and recreational noise evaluation and management.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70712 DIAGNOSIS OF AUDITORY DISORDERS 3 Credit Hours
Underlying theory and principles of administration and interpretation of site-of-lesion tests.
Prerequisite: SPA 70709; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70713 HEARING AID TECHNOLOGY 4 Credit Hours
Study of amplification systems for the hearing impaired.
Prerequisite: SPA 70701; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70714 GERONTOLOGICAL ISSUES IN AUDIOLOGY 3 Credit Hours
Physiological, psychological and sociological theories of aging with a focus on the etiology, symptomatology, assessment and rehabilitation of older adults with hearing impairments.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70717 PEDIATRIC AUDIOLOGY 3 Credit Hours
Study of audiologic diagnostic and auditory habilitative protocols for the birth to 3 population. Both assessment and management strategies will be emphasized.
Prerequisite: SPA 70709; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70719 COUNSELING IN AUDIOLOGY 3 Credit Hours
Focus on interviewing, counseling and interacting with individuals with hearing impairments their families and significant others.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70721 EVALUATION AND MANAGEMENT OF BALANCE DISORDERS 3 Credit Hours
Study of the balance mechanism; differential diagnostic assessment of balance disorders including electronystagmography, posturography and rotational testing; rehabilitation of the balance disordered patient (1 hour lab included.)
Prerequisite: Admission to the AUD program or special approval of instructor; and doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SPA 70725 MEDICAL MANAGEMENT OF AUDITORY DISORDERS 2 Credit Hours
A study of the multidisciplinary approach to medical/surgical management of patients with auditory and vestibular disorders.
Prerequisite: SPA 70712; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70726 ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY 3 Credit Hours
Study of evoked responses used in diagnostic audiology, including ABR, MLR,ECHOCHG, ENOG, ALR, P300, VER, and SSER.
Prerequisite: SPA 70706; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70732 AUDIOLOGIC TREATMENT ACROSS THE LIFESPAN 4 Credit Hours
Study of current methodologies employed in the audiologic treatment of people with hearing loss across the lifespan. Implementation of remedial strategies is emphasized.
Prerequisite: Admission to the audiology major; and SPA 70616; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70733 ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES 4 Credit Hours
Advanced considerations in balance function assessment and management and in the study of evoked responses used in diagnostic audiology.
Prerequisite: Admission into the audiology program; and SPA 70726 and SPA 70721; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70734 PRINCIPLES IN PRECEPTING 1 Credit Hour
Examination of the concepts and practices essential to the preceptor role. Emphasis on professional standards, adult learning theories, communication styles, ethical principles, and the multiple roles of a preceptor (educator, role model, mentor, facilitator and evaluator).
Prerequisite: Admission into the audiology major; and SPA 70748; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPA 70753 LABORATORY FOR ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY 1 Credit Hour
Laboratory exercises for the assessment of auditory disorders including electrocochleography, the auditory brainstem response and auditory steady state responses.
Prerequisite: Audiology major; and doctoral standing.
Corequisite: SPA 70726.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

SPA 70754 LABORATORY FOR EVALUATION AND MANAGEMENT OF BALANCE DISORDERS 1 Credit Hour
Laboratory exercises for the assessment of balance disorders including videonystagmography, posturography and informal evaluations; approaches for the rehabilitation and treatment of the balance disordered patient.
Prerequisite: Audiology major; and doctoral standing.
Corequisite: SPA 70721.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

SPA 70755 LABORATORY FOR ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES 1 Credit Hour
Laboratory exercises for the assessment, management and treatment of auditory and vestibular disorders including early, middle and late auditory evoked potentials and advanced vestibular measures.
Prerequisite: Audiology major; and doctoral standing.
Corequisite: SPA 70733.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

SPA 70791 FOURTH YEAR SEMINAR 1 Credit Hour
(Repeatable for credit) In-depth consideration of topics/issues in the practice of audiology with emphasis upon issues related to clinical rotation.
Prerequisite: Doctoral standing; and special approval.
Corequisite: SPA 70750 or SPA 70751.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

SPA 70792 INTERNSHIP IN AUDIOLOGY 2 Credit Hours
(Repeatable for credit) Supervised clinical practicum in audiology requiring the independent performance of diagnostic, hearing aids and audiologic rehabilitation procedures. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which student teaching/internship will take place.
Prerequisite: SPA 70692; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 70798 RESEARCH PROJECT IN AUDIOLOGY 3 Credit Hours
(Repeatable for credit) Completion of a doctoral research project including data collection, analysis write- up and oral presentation.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

SPA 70892 INTERNSHIP III 2 Credit Hours
Clinical practicum in audiology during which students perform discrete tasks under supervision.
Prerequisite: Admission to the audiology major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 70992 INTERNSHIP IV 2 Credit Hours
Clinical practicum in audiology during which students perform discrete tasks under supervision.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 73691 SEMINAR IN AUDIOLOGY 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPA 74030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours
(Slashed with SPA 44030, SPA 54030 and SPED 54030) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents and young adults with autism spectrum disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with SPA 44089 and SPA 54089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Doctoral standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPA 74093 WORKSHOP IN COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for credit)Variable topic workshop offered when need arises, either on or off campus to update training in a particular area of speech pathology.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 74191 SEMINAR:NEUROGENIC COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia.
Prerequisite: SPA 64301; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74291 SEMINAR:CHILD LANGUAGE 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Topics are selected for class investigation from the areas of child language, development or disorders.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74301 APHASIA 3 Credit Hours
Neuroanatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia in adults.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74302 LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD 3 Credit Hours
Methods of language assessment and intervention for infants, toddlers and preschoolers who are either at risk or diagnosed as presenting language delays or disabilities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74303 DISORDERS OF ARTICULATION AND PHONOLOGY 3 Credit Hours
Diagnosis and remediation of children's articulation and phonological disorders.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74304 ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS 3 Credit Hours
Cognitive functions and etiologies, symptomologies, evaluation and treatment methods related to adults with cognitive communicative disorders subsequent to right hemisphere damage, traumatic brain injury, dementia and related impairments.
Prerequisite: Speech language pathology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74305 FLUENCY DISORDERS 3 Credit Hours
Nature, theories and their derived approaches to the assessment and treatment of fluency disorders.
Prerequisite: Speech language pathology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74306 VOICE DISORDERS 2 Credit Hours
Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 74308 LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS 3 Credit Hours
Theoretical background knowledge and practical assessment and intervention techniques for school-age children who demonstrate language disorders.
Prerequisite: SPA 34107; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours
(Slashed with SPA 54309, SPED 44309 and SPED 54309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74312 MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS 3 Credit Hours
(Slashed with SPA 64312) Anatomic and physiologic bases of congenital and acquired motor speech disorders. Etiology, symptomatology, evaluation and treatment techniques related to variety of motor speech disorders in children and adults.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74354 PEDIATRIC MEDICAL ISSUES 2 Credit Hours
Nature and rehabilitative procedures for speech-language pathology practice with pediatric medical issues, including dysphagia and maxillofacial anomalies and resonance disorders.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 74356 ADULT DYSPHAGIA 3 Credit Hours
Anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to swallowing disorders in adults.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74391 SEMINAR:ARTICULATION AND PHONOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 74491 SEMINAR:ORGANIC SPEECH DISORDERS 1-3 Credit Hours
(Repeatable for credit)A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74492 CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-12 Credit Hours
(Repeatable for credit) Supervised clinical practice with patients who have speech, hearing or language problems.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-12 other
Grade Mode: Standard Letter-IP

SPA 74500 NORMAL LANGUAGE PROCESSES 3 Credit Hours
Examines current theory and research specific to normal human development from birth to age 21. Significant neurological, cognitive, social, linguistic, emotional, literacy, and motor developmental changes are explored..
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74501 SOCIAL COMMUNICATION ASPECTS OF AUTISM SPECTRUM DISORDER 3 Credit Hours
Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores use of assistive technology to enhance social communicative functioning in those with ASD.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74504 ADVANCED SPEECH AND VOICE SCIENCE 3 Credit Hours
Application of normal and disordered speech, swallowing, and voice production and perception; survey of literature; theories of production and perception.
Prerequisite: SPA 4/54110; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74591 SEMINAR:FLUENCY DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74592 CLERKSHIP I 1 Credit Hour
Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.
Prerequisite: Admission to the audiology major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 74600 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY 3 Credit Hours
Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech language pathology and audiology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74691 SEMINAR:VOICE DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment.
Prerequisite: SPA 6/74306; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74692 CLERKSHIP II 1 Credit Hour
Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.
Prerequisite: Admission to the audiology major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 74791 SEMINAR:SPEECH SCIENCE 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception.
Prerequisite: SPA 4/54110 or SPA 6/74504; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74891 SEMINAR: COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY 2 Credit Hours
(Slashed with SPA 64891) (Repeatable for credit) Nature, etiologies and correlates of speech language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication language, learning and literacy.
Prerequisite: Speech language pathology major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

SPA 74991 SEMINAR:CRITICAL TOPICS IN SPEECH LANGUAGE PATHOLOGY 1-3 Credit Hours
(Repeatable for credit) Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework.
Prerequisite: Speech pathology and audiology major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 75092 CLINICAL PRACTICUM I IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 65092) (Repeatable twice for credit) Supervised, introductory clinical experience in assessment and intervention with populations within the scope of practice of speech language pathology per the current practice policy of the american speech language hearing association. To facilitate clinical competency and accrual of required clinical clock hours per current ASHA standards, students are expected to enroll in clinical practicum each semester that they are not enrolled in externship or student teaching. A grade of B or better in this course is required for permission to register in CLIN PR II SPE LANG PATH-SPA 65192.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 75192 CLINICAL PRACTICUM II IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 65192) (Repeatable twice for credit) This course includes additional supervised hands on clinical experience with clients in on campus clinics. Student clinicians are provided with opportunities to demonstrate increased independence in clinical decision making and performance. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for permission to enroll in Clinical Practicum III in Speech Language Pathology SPA 75292.
Prerequisite: SPA 75092 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 75292 CLINICAL PRACTICUM III IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 65292) (Repeatable twice for credit) Includes additional supervised, hands-on clinical experience with clients in on campus clinics and or off campus, supervised clinical experience in sites such as schools or long-term care facilities. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision-making and performance that reflect readiness for externship or student teaching experiences. Practicum requirements may include attendance at a weekly clinical colloquium. A grade of B or better in this course is required for permission to register in the following courses: clinical practicum IV in speech language pathology SPA 75392, externship in speech language pathology: adult SPA 75492, externship in speech language pathology: pediatric SPA 75592, student teaching in speech language pathology SPA 64528.
Prerequisite: SPA 75192 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 75392 CLINICAL PRACTICUM IV IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Repeatable for credit) This supervised, hands on clinical experience with clients in on campus clinics or off campus sites is for second year graduate students who are not yet scheduled for externship or student teaching. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that are reflective of readiness for externship or student teaching experiences. A grade of B or better in this course is required for permission to register in the following courses: externship in speech language pathology: adult SPA 75492, externship in speech language pathology: pediatric SPA 75592, student teaching in speech language pathology SPA 64528.
Prerequisite: SPA 75292 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 75492 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: ADULT 4-8 Credit Hours
(Cross-listed with SPA 65492) (Repeatable once for credit) Considered a culminating clinical experience. Includes supervised, hands on clinical experience with patients in adult care settings such as hospitals, rehabilitation and long term care facilities.
Prerequisite: SPA 75292 or SPA 75392 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Standard Letter-IP

SPA 75592 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: PEDIATRIC 4-8 Credit Hours
(Slashed with SPA 65592) (Repeatable once for credit) Considered a culminating clinical experience. Students may choose this course as an alternative to Student Teaching in Speech Language Pathology. Includes supervised, hands on clinical experience with children and adolescents in pediatric care settings such as hospitals and other habilitation and rehabilitation facilities.
Prerequisite: SPA 75292 or SPA 75392 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Standard Letter-IP

SPA 75792 INTERNSHIP I 1 Credit Hour
Clinical practicum in audiology during which students perform discrete tasks under supervision.
Prerequisite: Admission to the audiology major; and doctoral standing; and special approval.
Corequisite: SPA 70709.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 76792 INTERNSHIP II 1 Credit Hour
Supervised clinical practicum in audiology during which students will perform discrete clinical tasks while under supervision.
Prerequisite: Admission to the audiology major; and SPA 75792; and doctoral standing and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 84091 SEMINAR IN COMMUNICATION DISORDERS 2 Credit Hours
(Repeatable for a maximum 9 credit hours)Special topics seminar for advanced students in speech-language pathology and audiology. Presentations and discussion of research projects are required.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

SPA 84096 INDIVIDUAL INVESTIGATION-SPEECH PATHOLOGY AND AUDIOLOGY 1-3 Credit Hours
(Repeatable for credit) Independent study of topics to be selected in consultation with graduate faculty.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 84098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research opportunities for doctoral students who have not yet passed their candidacy examination.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-S/U-IP

SPA 84199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 84299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: SPA 84199; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

School of Lifespan Development and Educational Sciences

American Sign Language/English Interpreting (ASEI)

ASEI 30095 SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING 1-4 Credit Hours
(Repeatable for credit) Special topics courses to be offered on as-needed basis when the content cannot be covered in the traditional curriculum.
Prerequisite: ASL 29201 and ASEI 43102; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ASEI 40092 ADVANCED PRACTICUM: AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING-COMMUNITY SETTING INTERPRETING (ELR) 9 Credit Hours
(Repeatable for credit) This course is required for students who do not wish to apply for K-12 Licensure to interpret in Ohio Schools. Field-based practicum experience provides pre-service interpreters with an opportunity to learn from currently practicing master community interpreters. Advanced practicum includes a minimum of 405 total hours during a 15- week placement. University supervisor and teacher mentor observe and assess student's skill. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks may be required based on community placement. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. A 3.000 major GPA is required for registration.
Prerequisite: Minimum B- grade in ASEI 43104; and minimum C grades in ASEI 43112 and ASL 49108; and ASL/English Interpreting major; and admission to professional phase; and 2.750 overall GPA; and passing score on the SLPI (Intermediate) or ASLPI (Level 2); and special approval.
Corequisite: ASEI 49625.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ASEI 43092 DEAF CULTURE IMMERSION EXPERIENCE (ELR) 1 Credit Hour
(Repeatable for credit) Intensive week-long practicum at a school for the deaf or camp where students interact with deaf children and/or adults. Conduct, interaction, sign language skills, maturity, responsibility, and performance are evaluated by staff at the school or camp administrators.
Prerequisite: ASL/English interpreting major.
Pre/corequisite: Minimum grade of C in ASL 39201.
Schedule Type: Practical Experience
Contact Hours: 8.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ASEI 43100 SURVEY OF THE INTERPRETING PROFESSION 3 Credit Hours
(Slashed with ASEI 53100) Introduction to the field of ASL-English interpreting. The following will be discussed: the history of the interpreting profession; the varied roles and responsibilities of interpreters; issues and concerns facing interpreters; legal mandates and constraints governing the provision of interpreters; diversity issues; ethical guidelines and their application to educational environments. Since interpreters are expected to be fluent in both English and ASL, this course will strive to enhance students' facility with both languages.
Prerequisite: Minimum C grade in ASL 19202.
Pre/corequisite: Minimum C grade in ASL 29201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43102 INTERPRETING PROCESSES I 3 Credit Hours
(Slashed with ASEI 53102) Beginning level interpreting course that examines the models of interpreting and their application to practice. Consecutive and simultaneous interpreting strategies are used to develop processing skills for both English to ASL and ASL to English interpretations. Samples of narrative genre are the texts used for interpretations as students examine the linguistic and cultural differences between ASL and English narratives. There will be 30 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum C grade in ASL 29201; and minimum B- grade in ASEI 43100; and ASL English Interpreting major.
Pre/corequisite: Minimum grade of C in ASL 29202.
Corequisite: ASL 39401 and ASEI 43113.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43103 INTERPRETING PROCESSES II 3 Credit Hours
(Slashed with ASEI 53103) Intermediate level interpreting course that challenges students to interpret the more complex genres including expository, procedural, and argumentative texts. Students will study and apply contextualization strategies. Discourse that is common to both the adult deaf community and educational settings will be interpreted and transliterated. There will be 45 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum C grade in the following courses: ASL 29202 and ASEI 43102; and ASL English Interpreting major; and admission to professional phase with a passing score on the entrance assessment.
Pre/corequisite: Minimum C grade in ASL 39201.
Corequisite: ASEI 43106, ASEI 43111 and ASEI 43114.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43104 INTERPRETING PROCESSES III 3 Credit Hours
(Slashed with ASEI 53104) Advanced level interpreting course focused on enhancing students' English to ASL and ASL to English skills in a variety of settings. Complex texts are selected from a variety of disciplines from both community and educational settings. Students build on previously developed self-assessment skills to create detailed and analytical diagnostic charts of their interpreted work. There will be 45 clinical application hours that students will need to accrue in this course. Students must pass the SLPI (Intermediate) or ASLPI (Level 2) prior to first semester senior year classes.
Prerequisite: Minimum C grade in ASL 39202 and ASEI 43107; and ASL English Interpreting major; and passing score of Intermediate on the SLPI or Level 2 on the ASLPI; and admission to professional phase.
Corequisite: ASEI 43112, ASEI 43118 and ASL 49108.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43105 TRANSLITERATING 3 Credit Hours
(Slashed with ASEI 53105) Receptive and expressive use of English-based sign language systems; ASL root words, prefix suffix use, simultaneous speaking and signing. Explanation and demonstration of Cued speech; exploration of the research related to individuals who use Cued speech.
Prerequisite: Minimum C grade in ASEI 43103 and in ASL 39201; and ASL English Interpreting (ASEI) major; and admission to professional phase.
Pre/corequisite: Minimum C grade in ASL 39201.
Corequisite: ASEI 43107, ASEI 43110, ASEI 43092 and ASL 39202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43106 SCHOOL SETTING INTERPRETING 3 Credit Hours
(Slashed with ASEI 53106) Issues, challenges, roles, responsibilities, and ethics of classroom-based educational interpreting are explored. Students are exposed to the variety of classroom designs where interpreters work such us mainstreaming, inclusion, resource room, and self-contained classrooms. K-12 settings place additional expectations for interpreter participation including IEP meetings, counseling, school assemblies and performing arts presentations.
Prerequisite: Minimum grade of C in ASL 29202; and American Sign Language/English Interpreting major; and special approval.
Pre/corequisite: Minimum grade of C in ASL 39201.
Corequisite: ASEI 43103, ASEI 43111 and ASEI 43114.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43107 COMMUNITY SETTING INTERPRETING 3 Credit Hours
(Slashed with ASEI 53107) This course explores the various venues that interpreters can work in the community. Emphasis will be given to the development of specialized vocabulary. Students participate in mock interpreting situations common to community interpreting in order to identify ethical dilemmas, demands and controls. There will be 30 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum C grade in the following courses: ASEI 43103, ASEI 43111, ASEI 43114 and ASL 39201; and ASL English Interpreting major; and admission to professional phase.
Pre/corequisite: Minimum grade of C in ASL 39202.
Corequisite: ASEI 43092, ASEI 43105, ASEI 43110 and ASEI 43119.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43110 DISCOURSE ANALYSIS FOR INTERPRETERS 3 Credit Hours
(Slashed with ASEI 53110) This course will explore the field of discourse analysis and its relation to the work of an interpreter. Students will complete the course with an understanding of terminology specific to discourse analysis, a better understanding of one's own discourse style and a better idea of how English and ASL use various discourse features. These features include the following: Turn-taking, Conversational Repair-false starts, Discourse Markers, Constructing Dialogue and Action, Cohesion, Rhythm, Rhyme and Repetition.
Prerequisite: Minimum grade of C in ASL 39201; and ASEI 43103 and ASEI 43111; and admission to the professional phase.
Pre/corequisite: Minimum grade of C in ASL 39202.
Corequisite: ASEI 43105, ASEI 43107 and ASEI 43119.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43111 THE PROFESSIONAL INTERPRETER 3 Credit Hours
(Slashed with ASEI 53111) Covers current trends in the field regarding situational and ethical issues. Demand-control schema and the RID Code of Professional Conduct are key components of the students' investigation and application. Students receive guidance in preparing for the RID NIC and participate in practicing for the RID performance test.
Prerequisite: Minimum grade of C in ASEI 43102 and ASL 39401; and ASL English Interpreting major; and admission to professional phase.
Pre/corequisite: Minimum grade of C in ASL 39201.
Corequisite: ASEI 43103 and ASEI 43106.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43112 INTERACTIVE INTERPRETING 3 Credit Hours
(Slashed with ASEI 53112) Guides students through a process of examining the complex nature of interpreting interactive discourse. Discussions will focus on managing this multi-layered process when participants' roles, assumptions, and goals can be congruent or adversarial. Student will learn to navigate contrasting cultural, linguistic, and discourse expectations. This course will present numerous interactive scenarios for students to interpret typical of a variety of settings with different participant configurations.
Prerequisite: Minimum grade of C in the following courses: ASL 29202, ASL 39401, ASEI 43102, ASEI 43103 and ASEI 43106; and minimum grade of B- in ASEI 43100; and ASL English Interpreting major; passing score of intermediate on the SLPI or Level 2 on the ASLPI; and admission to professional phase.
Pre/corequisite: ASL 39201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43113 ASL TO ENGLISH INTERPRETING PROCESSES (WIC) 3 Credit Hours
(Slashed with ASEI 53113) Guides students in developing interpreting skills from their L2 (ASL) to their L1 (English). Students will learn strategies for increasing their ASL and English vocabularies for the purposes of understanding equivalents when applying English vocabulary to ASL signs. Students will examine their ability to apply this proficiency to various registers of ASL. Course will also emphasize incorporating Academic English into written scholarly papers to increase students' abilities to apply this to their interpretations.
Prerequisite: Minimum C grade in ASL 29201; and minimum B- in ASEI 43100; and ASL English Interpreting major.
Pre/corequisite: Minimum C grade in ASL 29202.
Corequisite: ASEI 43102 and ASL 39401.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ASEI 43114 SOCIAL MEDIA AND CURRENT EVENTS INTERPRETING 3 Credit Hours
(Slashed with ASEI 53114) This course introduces students to a wide variety of media sources that highlight current events and happenings within the Deaf and interpreting communities. In this course, students will develop linguistic, analytical and interpretation skills. Students will discuss current events related to topics including but not limited to culture, mental health, politics, economics and education.
Prerequisite: ASEI 43102, ASEI 43113 and ASL 29202; and American Sign Language/English Interpreting major; and Admission to Professional Phase.
Corequisite: ASEI 43103, ASEI 43111 and ASL 39201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43118 MEDICAL INTERPRETING 3 Credit Hours
(Slashed with ASEI 53118) This course provides students with the opportunity to explore medical topics, terminologies, and areas of practice to enable them to more effectively meet the needs of deaf patients in a variety of health care settings. This course is designed to equip students with basic skills and knowledge to meet the demands of this setting. Students in this course will become familiar with body systems structures, functions, and common conditions-diseases affecting these systems. Students will be exposed to a variety of medical protocols, scripts, testing procedures, and areas of medical practice. As a result, students will be able to interpret medical information into ASL appropriate structures. They will specifically be able to apply strategies of depiction and spatial mapping.
Prerequisite: Minimum C grade in ASEI 43103; and American Sign Language/English Interpreting major; and passing score of Intermediate on the SLPI or Level 2 on the ASLPI.
Corequisite: ASEI 43104, ASEI 43112 and ASL 49108.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43119 MENTAL HEALTH INTERPRETING 3 Credit Hours
(Slashed with ASEI 53119) This course will provide students with a foundation of common diagnoses, mental health professionals and their various roles, common mental health settings interpreters may work, and terminology paired with ASL equivalents. This course will also emphasize the relationship between interpreter and mental health professional, providing skill sets in which to pre-and-post conference to ensure an accurate interpretation is rendered, and the goals of the therapist-professional have been met.
Prerequisite: Minimum C grade in ASEI 43103; and American Sign Language/English Interpreting major.
Pre/corequisite: Minimum C grade in ASL 39202.
Corequisite: ASEI 43092, ASEI 43105, ASEI 43107 and ASEI 43110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43192 ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING (ELR) 9 Credit Hours
(Repeatable for credit) This course is required for students who want to apply for K-12 Licensure to interpret in Ohio Schools. Advanced practicum provides pre-service interpreters with an opportunity to learn from currently practicing master interpreters. Advanced practicum includes a minimum of 405 total hours during a 15- week placement with a minimum of 300 hours in educational settings to qualify for Ohio license for educational interpreters. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. Students must pass the SLPI (Intermediate) or ASLPI (Level 2) prior to first semester senior year classes. A 3.000 major GPA is required.
Prerequisite: Minimum B- grade in ASEI 43104; and minimum C grade in ASEI 43112 and ASL 49108; and ASL English Interpreting major; and admission to professional phase; and 2.750 overall GPA; and a passing score on the SLPI (Intermediate) or ASLPI (Level 2); and special approval.
Corequisite: ASEI 49625.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ASEI 43996 INDIVIDUAL INVESTIGATION IN AMERICAN SIGN LANGUAGE/ENGLISH INTERPRETING 1-3 Credit Hours
(Repeatable for credit) A student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of an ASL-English Interpreting approved instructor. The student is expected to complete pre-determined assignments, which may include a final research paper and a presentation on the findings of the study.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ASEI 49625 INQUIRY SEMINAR FOR AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING 3 Credit Hours
(Slashed with ASEI 59625) Final semester course to coincide with the advanced practice. Students present a professional description of their interpreting site analyzing students' needs, school and instructor expectations or barriers, application of the Demand – Control Schema, and ethical challenges. Current research in the field of interpreting is examined and a diagnostic chart of a work sample is created. Students explore the EIPA exam, its theoretical foundations and participate in practicing for the EIPA.
Prerequisite: Minimum B- in ASEI 43104; and minimum C grade in the following courses ASEI 43112 and ASEI 43118 ASL 49108 and COMM 35852.
Corequisite: ASEI 43092 or ASEI 43192.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ASEI 50092 ADVANCED PRACTICUM: AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING-COMMUNITY SETTING INTERPRETING 9 Credit Hours
(Repeatable for credit) This course is required for students who do not wish to apply for K-12 Licensure to interpret in Ohio Schools. Field-based practicum experience provides pre-service interpreters with an opportunity to learn from currently practicing master community interpreters. Advanced practicum includes a minimum of 405 total hours during a 15- week placement. University supervisor and teacher mentor observe and assess student's skill. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks may be required based on community placement. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. A major GPA of 3.000 is required.
Prerequisite: Minimum B- grade in ASEI 53104; and ASEI 53112 and ASL 49108; and enrolled in the ASL/English Interpreting Licensure Preparation program; and admission to professional phase; and 2.750 overall GPA; and passing score on the SLPI (Intermediate) or ASLPI (Level 2); and graduate standing; and special approval.
Corequisite: ASEI 59625.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ASEI 53092 DEAF CULTURE IMMERSION EXPERIENCE 1 Credit Hour
Intensive week-long practicum at a school for the deaf or camp where students interact with deaf children and/or adults. Conduct, interaction, sign language skills, maturity, responsibility and performance are evaluated by staff at the school or camp administrators.
Prerequisite: Graduate standing.
Pre/corequisite: Minimum grade of C in ASL 39201.
Schedule Type: Practical Experience
Contact Hours: 8.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ASEI 53100 SURVEY OF THE INTERPRETING PROFESSION 3 Credit Hours
(Slashed with ASEI 43100) Introduction to the field of ASL-English interpreting. The following will be discussed: the history of the interpreting profession; the varied roles-responsibilities of interpreters; issues and concerns facing interpreters; legal mandates and constraints governing the provision of interpreters; ethical guidelines and their application to educational environments. Since interpreters are expected to be fluent in both English and ASL, this course will strive to enhance students' facility with both languages.
Prerequisite: ASL 19202; and graduate standing.
Pre/corequisite: ASL 29201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53102 INTERPRETING PROCESSES I 3 Credit Hours
(Slashed with ASEI 43102) Beginning level interpreting course that examines the models of interpreting and their application to practice. Consecutive and simultaneous interpreting strategies are used to develop processing skills for both English to ASL and ASL to English interpretations. Samples of narrative genre are the texts used for interpretations as students examine the linguistic and cultural differences between ASL and English narratives. There will be 30 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum of a B- in ASEI 53100; and graduate standing.
Pre/corequisite: ASL 29202.
Corequisite: ASL 39401 and ASEI 53113.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53103 INTERPRETING PROCESSES II 3 Credit Hours
(Slashed with ASEI 43103) Intermediate level interpreting course that challenges students to interpret the more complex genres including expository, procedural, and argumentative texts. Students will study and apply contextualization strategies. Discourse that is common to both the adult deaf community and educational settings will be interpreted and transliterated. There will be 45 clinical application hours that students will need to accrue in this course.
Prerequisite: ASL 29202 and ASEI 53102; and admission to the professional phase with a passing score on the entrance assessment; and graduate standing.
Pre/corequisite: ASL 39201.
Corequisite: ASEI 53106, ASEI 53111 and ASEI 53114.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53104 INTERPRETING PROCESSES III 3 Credit Hours
(Slashed with ASEI 43104) Advanced level interpreting course focused on enhancing students' English to ASL and ASL to English skills in a variety of settings. Complex texts are selected from a variety of disciplines from both community and educational settings. Students build on previously developed self-assessment skills to create detailed and analytical diagnostic charts of their interpreted work. There will be 45 clinical application hours that students will need to accrue in this course. Students must pass the SLPI (Intermediate) or ASLPI (Level 2) prior to first semester senior year classes.
Prerequisite: Minimum C grade in ASL 39202; and ASEI 53107; and ASL/English Interpreting Licensure Preparation program; and passing score of Intermediate on the SLPI or Level 2 on the ASLPI; and graduate standing.
Corequisite: ASEI 53112, ASEI 53118 and ASL 49108.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53105 TRANSLITERATING 3 Credit Hours
(Slashed with ASEI 43105) Students are exposed to the various English-based sign systems that are used in the education of deaf students as well as variations of sign communication in the deaf community. Focus is placed on developing transliterating skills utilizing conceptually accurate signed English. Students examine the implications of a diverse sign continuum and the professional expectation of identifying and meeting the language preferences of deaf consumers.
Prerequisite: Minimum B- grade in ASEI 53100; and a minimum C grade in ASL 29202; and graduate standing.
Corequisite: ASL 39201 and ASEI 53102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53106 SCHOOL SETTING INTERPRETING 3 Credit Hours
(Slashed with ASEI 43106) Issues, challenges, roles, responsibilities, and ethics of classroom-based educational interpreting are explored. Students are exposed to the variety of classroom designs where interpreters work such us mainstreaming, inclusion, resource room, and self-contained classrooms. K-12 settings place additional expectations for interpreter participation including IEP meetings, counseling, school assemblies and performing arts presentations.
Prerequisite: ASL 29201; and ASL/English Interpreting Licensure Preparation program; graduate standing; and special approval.
Pre/corequisite: Minimum grade of C in ASL 39201.
Corequisite: ASEI 53103, ASEI 53111 and ASEI 53114.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53107 COMMUNITY SETTING INTERPRETING 3 Credit Hours
(Slashed with ASEI 43107) This course explores the various venues that interpreters can work in the community. Emphasis will be given to the development of specialized vocabulary. Students participate in mock interpreting situations common to community interpreting on order to identify ethical dilemmas, demands and controls. There will be 30 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum C grade in the following courses: ASEI 53103, ASEI 53111, ASEI 53114 and ASL 39201; and ASL/English Interpreting Licensure Preparation; and graduate standing.
Pre/corequisite: Minimum grade of C in ASL 39202.
Corequisite: ASEI 53092, ASEI 53105, ASEI 53110 and ASEI 53119.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53110 DISCOURSE ANALYSIS FOR INTERPRETERS 3 Credit Hours
(Slashed with ASEI 43110) This course will explore the field of discourse analysis and its relation to the work of an interpreter. Students will complete the course with an understanding of terminology specific to discourse analysis, a better understanding of one's own discourse style, and a better idea of how English and ASL use various discourse features. These features include the following: Turn-taking, Conversational Repair - false starts, Discourse Markers, Constructing Dialogue & Action, Cohesion, Rhythm, Rhyme, and Repetition.
Prerequisite: Minimum grade of C in ASL 39201; and ASEI 53103 and ASEI 53111.
Pre/corequisite: Minimum grade of C in ASL 39202.
Corequisite: ASEI 53105, ASEI 53107 and ASEI 53119.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53111 THE PROFESSIONAL INTERPRETER 3 Credit Hours
(Slashed with ASEI 53111) Covers current trends in the field regarding situational and ethical issues. Demand-Control Schema and the RID Code of Professional Conduct are key components of the students' investigation and application. Students receive guidance in preparing for the RID performance test.
Prerequisite: Minimum grade of C in ASL 29202; and ASEI 53100 and ASEI 53107; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53112 INTERACTIVE INTERPRETING 3 Credit Hours
(Slashed with ASEI 43112) Guides students through a process of examining the complex nature of interpreting interactive discourse. Discussions will focus on managing this multi-layered process when participants' roles, assumptions, and goals can be congruent or adversarial. Student will learn to navigate contrasting cultural, linguistic, and discourse expectations. This course will present numerous interactive scenarios for students to interpret typical of a variety of settings with different participant configurations.
Prerequisite: ASL 29202 with a minimum C grade; and ASEI 53100 and ASEI 53103; passing score of intermediate on the SLPI or level 2 on the ASLPI.
Corequisite: ASEI 53102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53113 ASL TO ENGLISH INTERPRETING PROCESSES 3 Credit Hours
(Slashed with ASEI 43113) Guides students in developing interpreting skills from their L2 (ASL) to their L1 (English). Students will learn strategies for increasing their ASL and English vocabularies for the purposes of understanding equivalents when applying English vocabulary to ASL signs. Students will examine their ability to apply this proficiency to various registers of ASL. Course will also emphasize incorporating Academic English into written scholarly appears to increase students' abilities to apply this to their interpretations.
Prerequisite: ASL 29202 and ASEI 53100; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53114 SOCIAL MEDIA AND CURRENT EVENTS INTERPRETING 3 Credit Hours
(Slashed with ASEI 43114) This course introduces students to a wide variety of media sources that highlight current events and happenings within the Deaf and interpreting communities. In this course, students will develop linguistic, analytical, and interpretation skills. Students will discuss current events related to topics including but not limited to culture, mental health, politics, economics and education.
Prerequisite: ASEI 53102, ASEI 53113 and ASL 29202; and American Sign Language/English Interpreting Licensure Preparation program; and admission to professional phase.
Corequisite: ASEI 53103, ASEI 53111, ASEI 53106 and ASL 39201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53118 MEDICAL INTERPRETING 3 Credit Hours
(Slashed with ASEI 43118) This course provides students with the opportunity to explore medical topics, terminologies, and areas of practice to enable them to more effectively meet the needs of deaf patients in a variety of healthcare settings. This course is designed to equip students with basic skills and knowledge to meet the demands of this setting. Students in this course will become familiar with body systems structures, functions, and common conditions-diseases affecting these systems. Students will be exposed to a variety of medical protocols, scripts, testing procedures, and areas of medical practice. As a result, students will be able to interpret medical information into ASL-appropriate structures. They will specifically be able to apply strategies of depiction and spatial mapping.
Prerequisite: ASEI 53102; passing score of Intermediate on the SLPI or Level 2 on the ASLPI; and graduate standing.
Corequisite: ASEI 53104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53119 MENTAL HEALTH INTERPRETING 3 Credit Hours
(Slashed with ASEI 43119) This course will provide students with a foundation of common diagnoses, mental health professionals and their various roles, common mental health settings interpreters may work, and terminology paired with ASL equivalents. This course will also emphasize the relationship between interpreter and mental health professional, providing skill sets in which to pre- and -post conference to ensure an accurate interpretation in rendered, and the goals of therapist-professional have been met.
Prerequisite: ASEI 53103; and graduate standing.
Corequisite: ASEI 53107 and ASEI 53110 and ASEI 53105.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53192 ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING 9 Credit Hours
(Repeatable for credit) This course is required for students who want to apply for K-12 Licensure to interpret in Ohio Schools. Advanced practicum provides pre-service interpreters with an opportunity to learn from currently practicing master interpreters. Advanced practicum includes a minimum of 405 total hours during a 15- week placement with a minimum of 300 hours in educational settings to qualify for Ohio license for educational interpreters. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. Students must pass the SLPI (Intermediate) or ASLPI (Level 2) prior to first semester senior year classes. A 3.000 major GPA is required.
Prerequisite: Minimum B- grade in ASEI 53104; and ASEI 53112 and ASL 49108; and ASL English Interpreting Licensure Preparation non-degree; and admission to professional phase; and 2.750 overall GPA; passing score on the SLPI (Intermediate) or ASLPI (Level 2); and graduate standing; and special approval.
Corequisite: ASEI 59625.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory

ASEI 59625 INQUIRY SEMINAR FOR AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING 3 Credit Hours
(Slashed with ASEI 49625) Final semester course to coincide with the advanced practicum. Students present a professional description of their interpreting site analyzing student needs, school and instructor expectations or barriers, application of the Demand Control Schema, and ethical challenges. Current research in the field of interpreting is examined and a diagnostic chart of the work sample is created. Students explore the Educational Interpreter Performance Assessment (EIPA) exam, its theoretical foundations, and participate in practicing for the EIPA.
Prerequisite: Minimum B- in ASEI 53104; and minimum C grade in the following: COMM 35852, ASL 49108 and ASEI 53112; and graduate standing.
Corequisite: ASEI 53192.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Career and Community Services (CCS)

CCS 00010 INDEPENDENT LIVING SKILLS I 3 Credit Hours
This class helps students identify their strengths, preferences, interests and needs regarding independent living. Students set goals and practice skills that will help them be more successful in managing their adult lives. This class focus is on areas of independent living related to personal health and nutrition.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00015 SELF-ADVOCACY: DISABILITY AWARENESS AND THE LAWS 3 Credit Hours
This course promotes development of self-awareness through identifying characteristics of a person's disability, and how it affects a person academically, socially, and at work.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00020 APPLYING TECHNOLOGY 1 Credit Hour
This course is an introduction to the uses of Flashline, Canvas or other Learning Management System (LMS), and applications such as Microsoft Word to enhance student skills with technology applications.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00025 MANAGING MONEY IN COLLEGE 1 Credit Hour
This introductory course will provide the student with an opportunity to develop attitudes and skills to manage their money and expenses while in college. Topics include how to set up a budget, considering where one might save money in daily living, managing expenses, understanding Flashcash, Meal Swipes and Spend Down Accounts.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00035 SELF-ADVOCACY: COMMUNICATION SKILLS 3 Credit Hours
Effective communication enhances personal, family, and community health. Select personal and social skills are presented in order to improve the health of the student. The student will participate in activities that allow them to practice and perform skills in work and in their personal lives.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00105 INTRODUCTION TO JOB EXPLORATION 1 Credit Hour
The student will be introduced to the world of work and begin the first step towards finding employment that will be rewarding for them and that will match their strengths, preferences, interests and needs.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00110 INDEPENDENT LIVING SKILLS II 3 Credit Hours
Students will identify independent living skills required to set and reach short- and long-term goals. Students will reflect on and apply their strengths, preferences, interests, and needs as they make plans for adult life.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00115 SELF-ADVOCACY AND SELF-DETERMINATION 3 Credit Hours
This course will provide students with opportunities to recognize and develop skills that can help them to increase success in all areas of their lives. Persons who are more self-determined often experience academic, employment, community living and personal satisfaction.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00120 PERSON-CENTERED PLANNING: FRESHMAN 1 Credit Hour
Students will create and present a Person-Centered Plan (PCP). A PCP is an individualized way of helping the student to achieve their goals, get the life they want for themselves, identify supports that may be needed, and help them reach their vision of a good life.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00135 SELF-ADVOCACY: HUMAN RELATIONSHIPS 3 Credit Hours
Students will learn of different types of relationships and how to advocate and communicate wants and needs in various types of relationships.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00145 DEVELOPING PROFESSIONAL SKILLS: FRESHMAN 3 Credit Hours
(Repeatable for credit) This course is designed to teach students how to successfully manage all areas of one's life. It is important to know how to prioritize social and personal responsibilities to complete tasks in a competent manner.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00205 JOB EXPLORATION I 3 Credit Hours
This course begins the process of the student identifying an employment pathway by completing interest inventories to identify occupational interests, establishing membership to job exploration tools, researching local labor market information, exploring Job Seekers Guide on OhioEmploymentFirst.org or other tools that aid the student as they make important employment decisions.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00206 JOB EXPLORATION II 3 Credit Hours
The purpose of this course is to help the student to narrow employment possibilities and to identify the occupation of their choice. The course provides information regarding work settings, work duties, personnel, shifts, expectations, accommodations, and appropriate behaviors at work. The student will begin to identify their network of people who can help them achieve future employment goals.
Prerequisite: CCS 00205; and Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00220 PERSON-CENTERED PLANNING: SOPHOMORE 1 Credit Hour
Each year a student completes a person-centered planning presentation to share with their support team. The student provides information on what they are or have learned this academic year, goals being worked on or accomplished and future plans. The student creates a Microsoft Power Point, or other form of presenting in order to connect knowledge and learning experiences for student success.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00235 SELF-ADVOCACY: INDEPENDENT LIVING AND INJURY PREVENTION 3 Credit Hours
Students will learn independent living skills related to injury prevention and safety in adult life.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00245 DEVELOPING PROFESSIONAL SKILLS: SOPHOMORE 3 Credit Hours
(Repeatable for credit) This course is designed to teach strategies to successfully manage all areas of one's life. It is important to know how to prioritize work, social and personal responsibilities so one can make connections and communicate appropriately to those with whom they work, live and interact with.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00292 WORK EXPERIENCE: SOPHOMORE 3 Credit Hours
(Repeatable for credit) This course provides the student with the opportunity to identify supports needed to achieve more independence in a work environment.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CCS 00306 EMPLOYMENT READINESS I 3 Credit Hours
This course prepares the student for entering the work force by addressing professional skills such as teamwork, networking, safety, personal skills, work ethic, responsibility, time management, interview skills, creating a resume and filling out a job application.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00307 EMPLOYMENT READINESS II 3 Credit Hours
This course is designed to continue to prepare the student for entering into the work force by expanding interview skills, creating documents used to acquire employment and learning how to fill out a job application.
Prerequisite: CCS 00306; and Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00320 PERSON-CENTERED PLANNING: JUNIOR 1 Credit Hour
Each year a student completes a person-centered planning presentation to share with their support team. The student provides updated information on what they are learning, goals being worked on or accomplished and future plans. The student creates a Microsoft Power Point, or other form of presenting in order to connect knowledge and learning experiences for student success.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00335 SELF-ADVOCACY: HEALTHY LIVING 3 Credit Hours
This course will support behavior that encourages students to make responsible choices for lifelong health, wellness, and life satisfaction.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00345 DEVELOPING PROFESSIONAL SKILLS: JUNIOR 3 Credit Hours
(Repeatable for credit) This course supports the student as they advance skills in learning strategies, critical thinking, problem-solving, and study skills; and as they apply skills to tasks that prepares for a specific employment interest. The student practices effective communicate through reading, writing, and speaking while completing tasks and projects.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00392 WORK EXPERIENCE: JUNIOR 4 Credit Hours
(Repeatable for credit) This course provides the student with opportunities to gain skills in the occupation of choice in order to prepare for satisfying employment as an adult. This allows for the student to evaluate the fit to help to ensure that they have chosen wisely.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Standard Letter

CCS 00410 EMPLOYMENT CERTIFICATIONS 3 Credit Hours
This course guides the student as they prepare for employment by completing online employment certifications that apply to employment interests. The student will set goals on skills development, research and completion of certificates.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00425 MANAGING MONEY AFTER COLLEGE 1 Credit Hour
This course will provide the student with a more detailed opportunity to reflect on one's desire and ability to manage money in adult life to achieve personal financial wellness and satisfaction. Topics include earning and saving money, how to calculate wages and understanding federal, state and local taxes and establishing a realistic budget that will help the student to transition into adult life.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00445 DEVELOPING PROFESSIONAL SKILLS: SENIOR 1 Credit Hour
This course supports the student as they advance skills in learning strategies, critical thinking, problem-solving, and study skills; and as they apply skills to coursework that prepares for a specific career interest. The student practices effective communicate through reading, writing and speaking while completing assignments and projects.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00492 WORK EXPERIENCE: SENIOR 1-12 Credit Hours
(Repeatable for credit) The work experience internship occurs in on- or off-campus settings and provides an environment to practice specific occupational knowledge, skills and professional behaviors.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Practical Experience
Contact Hours: 3-36 other
Grade Mode: Standard Letter

CCS 00499 PERSON-CENTERED PLANNING: SENIOR 3 Credit Hours
(Repeatable for credit) The student will develop two valuable resources to aid in the transition back to their community. One is a portfolio that contains projects that will serve as resource guides. The second is a Person-Centered Plan that identifies past, present and future skills and goal development.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

CCS 01095 SPECIAL TOPICS: FRESHMAN LECTURE 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCS 01195 SPECIAL TOPICS: FRESHMAN LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Laboratory
Contact Hours: 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 01295 SPECIAL TOPICS: FRESHMAN COMBINED LECTURE AND LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-4 lecture, 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 02095 SPECIAL TOPICS: SOPHOMORE LECTURE 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCS 02195 SPECIAL TOPICS: SOPHOMORE LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Laboratory
Contact Hours: 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 02295 SPECIAL TOPICS: SOPHOMORE COMBINED LECTURE AND LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-4 lecture, 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 03095 SPECIAL TOPICS: JUNIOR LECTURE 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCS 03195 SPECIAL TOPICS: JUNIOR LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Laboratory
Contact Hours: 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 03295 SPECIAL TOPICS: JUNIOR COMBINED LECTURE AND LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-4 lecture, 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 04095 SPECIAL TOPICS: SENIOR LECTURE 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCS 04195 SPECIAL TOPICS: SENIOR LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Laboratory
Contact Hours: 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 04295 SPECIAL TOPICS: SENIOR COMBINED LECTURE AND LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-4 lecture, 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

Counselor Education and Supervision (CES)

CES 20092 FIELD EXPERIENCE I: MIDDLE CHILDHOOD (ELR) 1 Credit Hour
(Repeatable for credit) Course augments from an experiential perspective knowledge of early adolescence period of development. Placement in school settings (30 hrs.).
Corequisite: HDFS 24013.
Schedule Type: Field Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CES 34650 PRACTICES AND THEORIES IN ADDICTIONS COUNSELING 3 Credit Hours
Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.
Prerequisite: CES 37662.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 34654 EVIDENCE-BASED APPROACHES IN ADDICTIONS COUNSELING 3 Credit Hours
Intensive study of a select number of evidence-based or empirically-supported approaches in addictions counseling, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.
Prerequisite: CES 37665.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 37662 INTRODUCTION TO ADDICTIONS COUNSELING 3 Credit Hours
Introduction to fundamental concepts and recommended practices in addictions counseling today, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 37665 PLANNING CARE IN ADDICTIONS COUNSELING 3 Credit Hours
Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative and coordinated care.
Prerequisite: CES 34650.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 37668 INTRODUCTION TO MOTIVATIONAL INTERVIEWING 3 Credit Hours
Introduction to motivational interviewing (MI), a strengths-based and evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 37692 ADDICTIONS COUNSELING PRACTICUM (ELR) 4-9 Credit Hours
(Repeatable for credit) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six or seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.
Prerequisite: CES 34654 or CES 37665.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 21-56 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

CES 37800 SMALL GROUP PROCESS 2 Credit Hours
(Cross-listed with HED 34060) Students learn to understand the dynamics of problem-solving groups and how to become effective leaders and members. Topics include climate, goals, decision making, communication, leadership, membership. Experience- based learning combined with conceptualizing.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CES 40093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) Topics of special interest to students who desire to increase their knowledge in counseling and related areas. Kent faculty and experts from other institutions and agencies. Topics will be announced in the schedule of classes booklet.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

CES 44084 BEHAVIORAL SCIENCE IN HEALTH PROFESSIONS 1-3 Credit Hours
(Repeatable for a maximum of 12 hours) Behavioral science perspective on individual and social issues affecting medical care delivery. Individually arranged. May include field projects participation in health related investigations and presentations and personal development programs.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 50093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours
(Repeatable for credit) (Slashed with CES 70093) Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of college of continuing studies. Limit of 6 hours with adviser's permission toward any degree program.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 60193 VARIABLE TITLE WORKSHOP IN CLINICAL REHABILITATION COUNSELING 1-4 Credit Hours
(Repeatable for credit)(Slashed with CES 70193) Variable topic workshop designed to respond to emerging or specialized needs in clinical rehabilitation counseling.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CES 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 64084 BEHAVIORAL SCIENCE IN THE HEALTH PROFESSIONS 1-3 Credit Hours
Behavioral science perspective on individual and social issues that affect medical care delivery. Individually arranged.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

CES 65511 RESEARCH IN COUNSELING 3 Credit Hours
Introduction to purposes and practice of qualitative and quantitative research related to counseling. There will be emphasis on elements of conducting research and using products of research to support and enhance practice. Authentic examples from counseling will be used as illustration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67492 PRACTICUM I: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
Students begin supervised practice of counseling with clients, primarily in The Counseling Center. Individual supervision and seminar discussion are used for the development of counseling skills, strategies and professional role.
Prerequisite: CES 67530 and CES 67531 and CES 67580 and CES 67628 and CES 67663 and CES 68126; and Clinical Mental Health Counseling major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Standard Letter

CES 67530 COUNSELING THEORIES 3 Credit Hours
(Slashed with CES 77530) A survey of counseling practice that examines the nature of counseling process and relationships as described from major theoretical perspectives.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67531 COUNSELING SKILLS AND TECHNIQUES 3 Credit Hours
(Slashed with CES 77531) Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67580 MULTICULTURAL COUNSELING 3 Credit Hours
(Slashed with CES 77580) Seminar focused on sensitivities needed to work effectively with diverse clients. Consideration given to racism, oppression, poverty, ageism, gender, and relational affinity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67591 SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) Variable topic seminars considering problems, research and current practices for counselors and personnel workers. Topic to be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

CES 67592 PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Repeatable for credit) (Slashed with CES 77592) Involves individual counseling and group work with appropriate populations. Caseload geared toward preparation for internship.
Prerequisite: CES 67492; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Standard Letter

CES 67595 SPECIAL TOPICS IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 87595) Presentation of topics of special interest to students in counselor education and supervision. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 67596 INDIVIDUAL INVESTIGATION IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 87596) Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 67628 DIAGNOSIS IN COUNSELING 3 Credit Hours
(Slashed with CES 77628) Students develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67662 FOUNDATIONS OF ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77662) Introduction to fundamental concepts and recommended practices in addictions counseling, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67663 ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Slashed with CES 77663) Attention is given to the identity, ethics, professional standards and organizations, and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67664 THEORIES AND PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77664) Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.
Prerequisite: CES 67662; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67665 TREATMENT PLANNING IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77665) Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative, coordinated, and ethical care.
Prerequisite: CES 67664; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67666 EVIDENCE-BASED PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77666) Intensive study of a select number of evidence-based practices (EBPs) in addictions counseling for individuals, groups, and families, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.
Prerequisite: CES 67665; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67668 MOTIVATIONAL INTERVIEWING 3 Credit Hours
(Slashed with CES 77668) Introduction to motivational interviewing (MI), a strengths-based evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67692 PRACTICUM IN ADDICTIONS COUNSELING 3-6 Credit Hours
(Slashed with CES 77692) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six to seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and counselor self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.
Prerequisite: CES 67665 or CES 67666; and graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter-IP

CES 67695 SPECIAL TOPICS IN CLINICAL MENTAL HEALTH COUNSELING 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 77695) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 67698 INDIVIDUAL RESEARCH IN CLINICAL MENTAL HEALTH COUNSELING 1-9 Credit Hours
(Repeatable for credit) Student pursues research project on selected aspect of clinical mental health counseling under supervision of instructor. Arrangements with instructor must be made prior to registration. Credit hours to be fixed at registration time.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-9 other
Grade Mode: Satisfactory/Unsatisfactory

CES 67712 ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Slashed with CES 77712) Introductory course surveys philosophy, history and legislation in rehabilitation, which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67723 MEDICAL INFORMATION FOR CLINICAL REHABILITATION COUNSELORS 3 Credit Hours
(Slashed with CES 77723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours
(Slashed with CES 77725) Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours
(Slashed with CES 77732) An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67776 RESEARCH IN CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Slashed with CES 77776) Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Course acquaints students with current research. Evaluation of design statistical analysis and conclusions.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 67792 INTERNSHIP I: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Repeatable for credit) Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders.
Prerequisite: Clinical Mental Health Counseling major; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 67795 SPECIAL TOPICS IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours
(Repeatable for credit)(Slashed with CES 77795) Presentation of special interest to students. Topics vary per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 67796 INDIVIDUAL INVESTIGATION IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours
(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

CES 67798 INDIVIDUAL RESEARCH IN CLINICAL REHABILITATION COUNSELING 1-6 Credit Hours
(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of an instructor. Students must make arrangements with the instructor prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 67820 GROUP WORK: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 77820) This is an experiential and didactic course designed to provide both an overview of groups and a basic group experience. Involvement in a group is part of this course as is practice of group leadership skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67858 SEMINAR: GROUP COUNSELING 2 Credit Hours
(Slashed with CES 77858) Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

CES 67892 INTERNSHIP II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Repeatable for credit) Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders.
Prerequisite: Clinical Mental Health Counseling major; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 68011 FOUNDATIONS OF SCHOOL COUNSELING 3 Credit Hours
(Slashed with CES 78011) Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel and on the development of comprehensive school counseling programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68066 COUNSELING ADOLESCENTS 3 Credit Hours
(Slashed with CES 78066) A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans and referral procedures for youth will be covered.
Prerequisite: CES 67530 and 67531; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68067 COUNSELING CHILDREN 3 Credit Hours
(Slashed with CES 78067) Seminar focusing on intra and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play media.
Prerequisite: CES 67530 or 77530 and 67531 or 77531; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68068 SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP 3 Credit Hours
(Slashed with CES 78068) Focuses on the management, leadership and implementation of comprehensive school counseling program including developmental counseling approaches, management systems and outcome research.
Prerequisite: CES 68011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68069 ORIENTATION AND ETHICS: SCHOOL COUNSELING 3 Credit Hours
(Slashed with CES 78069) Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards, roles and functions of school counselors, and ethical standards and legal issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68070 COLLEGE AND CAREER READINESS 3 Credit Hours
This course will provide students with a knowledge base of the role of school counselors in college and career readiness and counseling. This course is designed to promote college and career advisement knowledge and skills to enable them to effectively work with students and stakeholders in post-secondary options.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68095 SPECIAL TOPICS IN SCHOOL COUNSELING 1-3 Credit Hours
(Repeatable for credit) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 68126 INTRODUCTION TO ASSESSMENT IN COUNSELING 3 Credit Hours
(Slashed with CES 78126) Instruction and experience in utilizing observational, measurement and appraisal methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68128 CLINICAL ASSESSMENT IN COUNSELING 3 Credit Hours
(Slashed with CES 78128) Experience in selecting, administering and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology.
Prerequisite: CES 68126 and 67628; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68130 PSYCHOPATHOLOGY FOR COUNSELORS 3 Credit Hours
(Slashed with CES 78130) This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment and psychopharmocological aspects of treatment are considered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68167 CASE CONCEPTUALIZATION AND TREATMENT PLANNING 3 Credit Hours
(Slashed with CES 88167) Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used.
Prerequisite: CES 67628 and CES 67492; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68168 ADVANCED COUNSELING THEORIES 3 Credit Hours
(Repeatable twice for credit) (Slashed with CES 88168) Consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used.
Prerequisite: CES 67492 with a minimum S grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68182 CAREER COUNSELING 3 Credit Hours
(Slashed with CES 78182) The world of work, theories of career choice, techniques in career counseling. An introductory course in the career area for practitioners in education, helping services, human resources and personnel.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68192 INTERNSHIP I: SCHOOL COUNSELING 3 Credit Hours
(Repeatable for credit) Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the implementation of advocacy, leadership, collaboration, and systemic change is highlighted. This course meets specific CACREP standards.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 68284 SUPERVISION IN COUNSELING I 3 Credit Hours
(Repeatable twice for credit) (Slashed with CES 88284) Focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences.
Prerequisite: CES 67592 or 77592 with a minimum S grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68292 INTERNSHIP II: SCHOOL COUNSELING 3 Credit Hours
(Repeatable for credit) Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the application of advocacy, leadership, collaboration and systemic change are highlighted in this course. This course meets specific CACREP standards.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 68392 SCHOOL COUNSELING PRACTICUM 3 Credit Hours
Students begin supervised practice of counseling with clients, primarily in a K-12 school. Direct observation, audio video recording, individual supervision, and seminar discussion are used for the development of counseling skills, strategies, and professional role. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the practicum will take place.
Prerequisite: CES 67530 and CES 67531 and CES 67820 and CES 68069; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 68529 COUPLES THERAPY:THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 78529) Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68533 FAMILY THERAPY: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 78533) Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic experiential and applied atmosphere.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68538 ADVANCED MULTICULTURAL COUNSELING 3 Credit Hours
(Slashed with CES 78538) This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided.
Prerequisite: CES 67580 or CES 77580 and CES 67531 or CES 77531; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 69192 PRACTICUM: CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Repeatable for credit) Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.
Prerequisite: CES 67492 and CES 67628 and CES 67725; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 69792 INTERNSHIP IN CLINICAL REHABILITATION COUNSELING 3,6 Credit Hours
(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor.
Prerequisite: CES 69192; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 23-43 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 70093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours
(Repeatable for credit) (Slashed with CES 50093) Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of College of Continuing Studies. Limit of 6 hours with adviser's permission toward any degree program.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 70193 VARIABLE TITLE WORKSHOP IN CLINICAL REHABILITATION COUNSELING 1-4 Credit Hours
(Repeatable for credit)(Slashed with CES 60193) Variable topic workshop designed to respond to emerging or specialized needs in clinical rehabilitation counseling.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 77530 COUNSELING THEORIES 3 Credit Hours
(Slashed with CES 67530) A survey of counseling practice that examines the nature of counseling process and relationships as described from major theoretical perspectives.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77531 COUNSELING SKILLS AND TECHNIQUES 3 Credit Hours
(Slashed with CES 67531) Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77580 MULTICULTURAL COUNSELING 3 Credit Hours
(Slashed with CES 67580) Seminar focused on sensitivities needed to work effectively with diverse clients. Consideration given to racism, oppression, poverty, ageism, gender and relational affinity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77584 WRITING FOR PROFESSIONAL PUBLICATIONS 3 Credit Hours
Seminar experience designed to prepare professionals to publish research findings, conceptualizations and professional field experiences in refereed journals and books. Elements of grant writing also treated.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77592 PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Repeatable for credit) (Slashed with CES 67592) Involves individual counseling and group work with appropriate populations. Caseload geared toward preparation for internship. Controlled registration.
Prerequisite: CES 77628; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Standard Letter

CES 77628 DIAGNOSIS IN COUNSELING 3 Credit Hours
(Slashed with CES 67628) Students develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77662 FOUNDATIONS OF ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 67662) Introduction to fundamental concepts and recommended practices in addictions counseling, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77663 ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Slashed with CES 67663) Attention is given to the identity, ethics, professional standards and organizations and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77664 THEORIES AND PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77664) Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.
Prerequisite: CES 67662 or CES 77662; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77665 TREATMENT PLANNING IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 67665) Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative, coordinated, and ethical care.
Prerequisite: CES 67664 or CES 77664; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77666 EVIDENCE-BASED PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 67666) Intensive study of a select number of evidence-based practices (EBPs) in addictions counseling for individuals, groups, and families, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.
Prerequisite: CES 77665; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77668 MOTIVATIONAL INTERVIEWING 3 Credit Hours
(Slashed with CES 67668) Introduction to motivational interviewing (MI), a strengths-based evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77692 PRACTICUM IN ADDICTIONS COUNSELING 3-6 Credit Hours
(Slashed with CES 67692) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six to seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and counselor self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.
Prerequisite: CES 67665 or CES 77665 or CES 67666 or CES 77666; and doctoral standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter-IP

CES 77695 SPECIAL TOPICS IN CLINICAL MENTAL HEALTH COUNSELING 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 67695) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 77712 ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Slashed with CES 67712) Introductory course surveys philosophy, history and legislation in rehabilitation, which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77723 MEDICAL INFORMATION FOR CLINICAL REHABILITATION COUNSELORS 3 Credit Hours
(Slashed with CES 67723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours
(Slashed with CES 67725) Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours
(Slashed with CES 67732) An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77776 RESEARCH IN CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Slashed with CES 67776) Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Course acquaints students with current research. Evaluation of design statistical analysis and conclusions.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 77795 SPECIAL TOPICS IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours
(Repeatable for credit)(Slashed with CES 67795) Presentation of special interest to students. Topics vary per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 77796 INDIVIDUAL INVESTIGATION IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours
(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

CES 77798 INDIVIDUAL RESEARCH IN CLINICAL REHABILITATION COUNSELING 1-6 Credit Hours
(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of an instructor. Students must make arrangements with the instructor prior to registration.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 77820 GROUP WORK: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 67820) This is an experiential and didactic course designed to provide both an overview of groups and a basic group experience. Involvement in a group is part of this course as is practice of group leadership skills.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77858 SEMINAR: GROUP COUNSELING 2 Credit Hours
(Slashed with CES 67858) Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 78011 FOUNDATIONS OF SCHOOL COUNSELING 3 Credit Hours
(Slashed with CES 68011) Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel and on the development of comprehensive school counseling program.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78066 COUNSELING ADOLESCENTS 3 Credit Hours
(Slashed with CES 68066) A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans and referral procedures for youth will be covered.
Prerequisite: CES 67530 or CES 77530 and CES 67531 or CES 77531; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78067 COUNSELING CHILDREN 3 Credit Hours
(Slashed with CES 68067) Seminar focusing on intra and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play media.
Prerequisite: CES 67530 or CES 77530 and CES 67531 or CES 77531; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78068 SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP 3 Credit Hours
(Slashed with CES 68068) Focuses on the management, leadership and implementation of comprehensive school counseling program including developmental counseling approaches, management systems and outcome research.
Prerequisite: CES 68011 or CES 78011; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78069 ORIENTATION AND ETHICS: SCHOOL COUNSELING 3 Credit Hours
(Slashed with CES 68069) Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards roles and functions of school counselors and ethical standards and legal issues.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78126 INTRODUCTION TO ASSESSMENT IN COUNSELING 3 Credit Hours
(Slashed with CES 68126) Instruction and experience in utilizing observational, measurement and appraisal methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78128 CLINICAL ASSESSMENT IN COUNSELING 3 Credit Hours
(Slashed with CES 68128) A laboratory experience in selecting, administering and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology.
Prerequisite: CES 68126 or CES 78126; and CES 67628 or CES 77628; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78130 PSYCHOPATHOLOGY FOR COUNSELORS 3 Credit Hours
(Slashed with CES 68130) This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment, and psychopharmocological aspects of treatment are considered.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78182 CAREER COUNSELING 3 Credit Hours
(Slashed with CES 68182) The world of work, theories of career choice, techniques in career counseling. An introductory course in the career area for practitioners in education, helping services, human resources and personnel.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78529 COUPLES THERAPY:THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 68529) Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78533 FAMILY THERAPY: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 68533) Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic experiential and applied atmosphere.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78538 ADVANCED MULTICULTURAL COUNSELING 3 Credit Hours
(Slashed with CES 68538) This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided.
Prerequisite: CES 67580 or CES 77580; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78592 PRACTICUM IN COUPLES AND FAMILY THERAPY 3 Credit Hours
(Repeatable for credit) Supervised experience in the practice of couples and family counseling. Students meet for individual supervision and seminar groups to assess their effectiveness in helping relationships.
Prerequisite: Doctoral standing in Counselor Education and Supervision major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 14 other
Grade Mode: Standard Letter

CES 79192 PRACTICUM II: CLINICAL REHABILITATION COUNSELING 3 Credit Hours
Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 79792 INTERNSHIP IN CLINICAL REHABILITATION COUNSELING 6 Credit Hours
(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor.
Prerequisite: CES 69192 or CES 79192; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 43 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 80090 DOCTORAL RESIDENCY SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours
Focus on professional identity, current issues and trends and involvement in professional activities.
Prerequisite: Doctoral standing in Counselor Education and Supervision major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral candidates work on dissertation research in consultation with their advisors. Doctoral candidates will register for two consecutive semesters of CES 80199 Dissertation I for 15 hours each semester, immediately following successful completion of doctoral comprehensive exams. Thereafter, students will register for CES 80299 Dissertation II each semester, including summer, until all degree requirements have been met.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 80200 FUNDAMENTALS OF WRITING AND RESEARCH IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours
Didactic and experiential training in the fundamentals of academic or scholarly writing and research in the counseling profession. Emphasis on reading practices; elements, principles, and processes of academic or scholarly writing; and generativity and systematic methodology in applied research in counseling and counselor education and supervision.
Prerequisite: Doctoral standing in the Counselor Education and Supervision major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of Dissertation I and continuing until all degree requirements are met. Satisfactory/unsatisfactory (S/U) graded. In-progress (IP) mark permissible.
Prerequisite: CES 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 80300 LEADERSHIP AND ADVOCACY IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours
This course is designed to assist doctoral level CES students to become knowledgeable and skillful professionals in leadership and advocacy efforts. Students will learn aspects of leadership and advocacy, such as applications in various settings and with diverse populations, to enable them to develop ethical and culturally relevant practices. Students must have completed one semester in the Counselor Education and Supervision doctoral program to enroll in this course.
Prerequisite: Doctoral standing in the Counselor Education and Supervision major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 87392 ADVANCED INDIVIDUAL COUNSELING PRACTICUM 3 Credit Hours
(Repeatable for credit) Supervised experience in counseling. Students meet for individual supervision and in seminar groups to assess their effectiveness in helping relationships.
Prerequisite: Doctoral standing in the Counselor Education and Supervision major.
Schedule Type: Practical Experience
Contact Hours: 14 other
Grade Mode: Standard Letter

CES 87595 SPECIAL TOPICS IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) Presentation of topics of special interest to students in counselor education and supervision. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 87596 INDIVIDUAL INVESTIGATION IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 67596) Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 88167 CASE CONCEPTUALIZATION AND TREATMENT PLANNING 3 Credit Hours
(Slashed with CES 68167) Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used.
Prerequisite: CES 67628 or CES 77628; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 88168 ADVANCED COUNSELING THEORIES 3 Credit Hours
(Repeatable twice for credit) (Slashed with CES 68168) Consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 88281 RESEARCH SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours
Topics or problems of current concern in counselor education and supervision services. Review of significant studies, design strategies, instrumentation, data analysis and research issues. Topic to be announced in schedule of classes booklet.
Prerequisite: CES 80200, EVAL 75510, EVAL 85515 and EVAL 85516; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 88284 SUPERVISION IN COUNSELING I 3 Credit Hours
(Repeatable twice for credit) (Slashed with CES 68284) This seminar focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 88292 INTERNSHIP IN COUNSELOR EDUCATION AND SUPERVISION 3-6 Credit Hours
(Repeatable for credit) Opportunity to integrate learning and skills in Counseling, Teaching, Research and Scholarship, Leadership, and Supervision. Each experience requires supervision. Completion of program course requirements is necessary prior to registration. Limited to 12 students.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience, Seminar
Contact Hours: 23-46 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 88294 COLLEGE TEACHING IN COUNSELOR EDUCATION AND SUPERVISION I 3 Credit Hours
(Repeatable for credit) An overview of teaching counseling at a graduate college level. The course consists of foundations, structural, and process components of college teaching. Students will be involved in activities that address each of these areas. Students will develop a reflective process that will support continual improvement in teaching.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 88298 INDIVIDUAL RESEARCH IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) Individual research on selected aspect of counseling and human development services under supervision of instructor. Arrangements with instructor must be made prior to registration. Satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CES 88392 COLLEGE TEACHING IN COUNSELOR EDUCATION AND SUPERVISION II 3 Credit Hours
(Repeatable for credit) Supervised experience in the practice of college teaching in Counselor Education and Supervision. Students will teach a master's level course in Counselor Education and Supervision and then meet for group supervision to assess their effectiveness in college teaching. Live and recorded supervisory processes will be utilized to assist with skill development.
Prerequisite: CES 88294; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CES 88492 SUPERVISION IN COUNSELING II 3 Credit Hours
(Repeatable for credit) This practicum focuses on the application of theoretical perspectives and practices of counseling supervision. It includes multiple supervisory experiences, including facilitation of individual and group supervision of counseling students in master's practicums or internships.
Prerequisite: CES 88284; and doctoral standing in the Counselor Education and Supervision major.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

Educational Psychology (EPSY)

EPSY 29525 EDUCATIONAL PSYCHOLOGY 3 Credit Hours
Examines major theories of human development and learning, motivation, instructional strategies, assessment; similarities and differences in learners. The role of factors in the students' learning and development is considered. Participation in the educational psychology research participant pool or an alternative research assignment is required.
Prerequisite: CULT 29535.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

EPSY 49525 RELATIONAL LEARNING IN EDUCATION 3 Credit Hours
(Repeatable for credit) Seminar focuses on national and international relational learning approaches to education. Current literature on relational learning is critiques. Professional identity is supported through engages learning opportunities in per mentoring experiences and faculty-let research. Course may be repeated for maximum 9 credit hours.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

EPSY 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EPSY 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

EPSY 63531 CURRICULUM DEVELOPMENT FOR GIFTED LEARNERS 3 Credit Hours
Focus on design/development of curriculum for gifted learners; adapt/modify existing curricula; design curricular materials through predetermined process assessment of suitability of materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 63532 GIFTED PROGRAM DESIGN, ASSESSMENT AND ADMINISTRATION 3 Credit Hours
Fundamentals of designing gifted programs are reviewed. Topics include student identification, assessment, advocacy, program evaluation, compliance with state standards, and teacher preparation.
Prerequisite: EPSY 63540 and EPSY 63545; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 63535 SOCIAL AND EMOTIONAL ASPECTS OF THE GIFTED AND SPECIAL SUBPOPULATIONS 3 Credit Hours
The affective needs and characteristics of gifted learners and special subpopulations are examined with consideration of the implications for instruction and socio-emotional supports.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 63540 NATURE AND NEEDS OF GIFTED 3 Credit Hours
Personal characteristics, abilities and potentialities of gifted through review of related research. Evaluation of research findings and implications for psycho-educational development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 63545 INSTRUCTIONAL PROCESSES FOR GIFTED CHILDREN 3 Credit Hours
Education and guidance of gifted students, K-12. Classroom strategies for instruction and accommodation including selection of appropriate instructional strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 64892 ADVANCED PRACTICUM: GIFTED AND TALENTED EDUCATION 3 Credit Hours
This course is designed to provide an opportunity to practice skills and demonstrate appropriate dispositions for meeting the needs of students who are gifted and talented.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

EPSY 65520 CHILD AND ADOLESCENT DEVELOPMENT 3 Credit Hours
(Slashed with EPSY 75520) Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 65523 LIFE SPAN DEVELOPMENT 3 Credit Hours
(Slashed with EPSY 75523) Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 65524 LEARNING THEORIES 3 Credit Hours
(Slashed with EPSY 75524) Theories of learning with special emphasis on application to professional practice. A critical examination of research on human learning processes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 65529 EDUCATIONAL MOTIVATION 3 Credit Hours
Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 68901 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credit Hours
(Slashed with EPSY 78901) Overview of human development, particularly adolescence, and implications for educational policy and programming, generally and specifically for secondary schools.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 68905 EDUCATIONAL PSYCHOLOGY 3 Credit Hours
(Slashed with EPSY 78905) Analysis and critique of major learning theories, state-of-the-art development in theory, research and application to educational practice in selected disciplines.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 69091 SEMINAR IN LEARNING AND DEVELOPMENT 1-5 Credit Hours
(Repeatable for credit)Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

EPSY 69092 ADVANCED PRACTICUM AND INTERNSHIP 1-6 Credit Hours
Supervised program in field setting involving application of theories, principles, and methodology in learning and development; planned with and supervised by graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.333-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPSY 69095 SPECIAL TOPICS IN LEARNING AND DEVELOPMENT 1-3 Credit Hours
(Repeatable for credit)Specific topic course offering in response to emerging student or program needs in learning and development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EPSY 69096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT 1-3 Credit Hours
(Repeatable for credit)Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPSY 69098 RESEARCH IN LEARNING AND DEVELOPMENT 1-15 Credit Hours
(Repeatable for credit)Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPSY 70093 VARIABLE TOPIC WORKSHOP IN EDUCATIONAL PSYCHOLOGY 1-4 Credit Hours
(Repeatable once for a maximum of 6 credit hours) (Cross-listed with EPSY 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

EPSY 75520 CHILD AND ADOLESCENT DEVELOPMENT 3 Credit Hours
(Slashed with EPSY 65520) Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 75523 LIFE SPAN DEVELOPMENT 3 Credit Hours
(Slashed with EPSY 65523) Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 75524 LEARNING THEORIES 3 Credit Hours
(Slashed with EPSY 65524) Theories of learning with special emphasis on application to professional practice. A critical examination of research on human learning processes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 75529 EDUCATIONAL MOTIVATION 3 Credit Hours
Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 78901 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credit Hours
(Slashed with EPSY 68901) Overview of human development and its implications for educational policy and programming for schools.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 78905 EDUCATIONAL PSYCHOLOGY 3 Credit Hours
(Slashed with EPSY 68905) Analysis and critique of major learning theories, state-of-the-art development in theory, research and application to educational practice in selected disciplines.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

EPSY 87450 PSYCHOLOGICAL PRINCIPLES OF EDUCATION 3 Credit Hours
Provides an exploration of educational psychology as the study of learning and teaching, in particular the mental representations and processes involved in the acquisition, storage, retrieval and use of knowledge in educational settings. Discusses how research and theory in educational psychology can be applied to real world classroom problems. Students are also required to develop a research project, which utilizes technology to test psychological theories about learning and instruction.
Prerequisite: Doctoral standing.
Corequisite: ETEC 87450.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 89091 SEMINAR IN LEARNING AND DEVELOPMENT 1-5 Credit Hours
(Repeatable for credit) Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

EPSY 89092 ADVANCED PRACTICUM AND INTERNSHIP 1-6 Credit Hours
Supervised program in field setting involving application of theories, principles, and methodology in learning and development; planned with and supervised by graduate faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3.333-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPSY 89095 SPECIAL TOPICS IN LEARNING AND DEVELOPMENT 1-3 Credit Hours
(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in learning and development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

Gerontology (GERO)

GERO 14029 INTRODUCTION TO GERONTOLOGY (DIVD) (KSS) 3 Credit Hours
Interdisciplinary approach to the study of the aging process.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

GERO 40656 PSYCHOLOGY OF AGING 3 Credit Hours
(Slashed with GERO 50656 and GERO 70656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GERO 41095 SPECIAL TOPICS IN GERONTOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with GERO 51095) Discussion of a major topic within a specific field of gerontology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

GERO 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit)Independent study in gerontology.
Prerequisite: Written permission from instructor.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

GERO 44030 RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD (WIC) 3 Credit Hours
(Slashed with GERO 54030) This is an advanced level course that focuses on current research on physiological, psychological, and social dimensions of development across adulthood. The course considers continuity and change throughout the entire adult lifespan from young adulthood to midlife to later life.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

GERO 44031 SOCIAL POLICY AND COMMUNITY RESOURCES FOR OLDER ADULTS 3 Credit Hours
Overview of national, state and local public policy affecting older adults. Legislation, funding, planning and the service delivery system are examined.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GERO 44092 PRACTICUM IN GERONTOLOGY (ELR) 3-6 Credit Hours
(Repeatable for a total of 6 credit hours) Observation and participation in long-term care or community agencies serving older adults. One class discussion per week. Major GPA of 2.250 required.
Prerequisite: HDF 44018; and human development and family studies majors; and senior standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GERO 50656 PSYCHOLOGY OF AGING 3 Credit Hours
(Slashed with GERO 40656 and GERO 70656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GERO 51095 SPECIAL TOPICS IN GERONTOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with GERO 41095) Discussion of a major topic or topics within the field of gerontology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

GERO 51096 INDIVIDUAL INVESTIGATION IN GERONTOLOGY 1-3 Credit Hours
(Repeatable for credit)Independent study in the area of gerontology.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

GERO 54030 RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD 3 Credit Hours
(Slashed with GERO 44030) This is an advanced level course that focuses on current research on physiological, psychological, and social dimensions of development across adulthood. The course considers continuity and change throughout the entire adult lifespan from young adulthood to midlife to later life.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GERO 61091 SEMINAR IN GERONTOLOGY 1-3 Credit Hours
(Repeatable for credit)Seminar dealing with topics in the field of gerontology.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

GERO 61191 INTERDISCIPLINARY SEMINAR IN GERONTOLOGY 3 Credit Hours
(Repeatable for credit)Course is designed to assist students in developing the knowledge and skills needed to understand the major issues in gerontological theory, research and practice from a multi-disciplinary perspective.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GERO 70656 PSYCHOLOGY OF AGING 3 Credit Hours
(Slashed with GERO 40656 and GERO 50656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Human Development and Family Studies (HDF)

HDF 14027 INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY SCIENCE 3 Credit Hours
This course is intended to introduce students to the study of lifespan development and family science. Career opportunities available to human development and family science graduates are explored and skills required to succeed in the field are introduced.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD) 3 Credit Hours
(Cross-listed with SOC 24011) Exploration of the sociological nature of families across the lifespan, focusing on structure, diversity and life course processes such as dating, mate selection, cohabitation, marriage, parenthood, divorce, remarriage, singlehood, widowhood, parent-child interactions, sexual orientation, inequality and difference.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HDF 24012 RELATIONSHIPS AND DEVELOPMENT ACROSS CHILDHOOD 3 Credit Hours
This course introduces students to the study of child development, including the relationships between theory, research, and practice. It is intended to give students an in-depth look at relationships and other aspects of child development from conception across childhood as well as the multiple influences on children's development. Additionally, this course introduces students to the practice of working with children and their families.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 24013 EARLY ADOLESCENCE 3 Credit Hours
Examines the fundamental transitions, social contexts and psychosocial processes involved in human development from ages 10 through 15. Implications for working with this age group within schools, human services agencies and youth development programs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 24014 BRIDGING CROSS-NATIONAL RELATIONSHIPS FOR INDIVIDUALS AND FAMILIES 3 Credit Hours
This an interactive course designed to promote students' intercultural competence. The course provides students with an introduction to key components of various cultures around the world and with skills with which to build effective relationships with individuals from countries others than their own.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 24095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-4 Credit Hours
(Repeatable for credit) Discussion of a major topic within human development or family science.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HDF 25512 MANAGEMENT OF FAMILY RESOURCES 3 Credit Hours
Management as applied to individuals, families and human science professionals.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 34031 CULTURAL DIVERSITY: IMPLICATIONS FOR THE HELPING PROFESSIONS 3 Credit Hours
This class is designed to enhance the competence and success of students planning to work in human services. Learning how different cultural backgrounds influence the perceptions and behaviors of clients in the human service setting is emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 41093 VARIABLE TOPIC WORKSHOP IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with HDF 51093) Workshop setting dealing with a topic or topics in human development and family science. Learning experiences are provided in a wide range of areas.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HDF 41095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-4 Credit Hours
(Repeatable for credit) (Slashed with HDF 51095) Discussion of a major topic within human development or family science.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HDF 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HDF 51096) Independent study in human development and family science.
Prerequisite: Written special approval from instructor.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HDF 42089 HUMAN DEVELOPMENT AND FAMILY SCIENCE INTERNATIONAL EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) (Slashed with HDF 52089) Exploration of human development and family science related topics while visiting various cultural contexts.
Prerequisite: Minimum 2.750 overall GPA; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP
Attributes: Diversity Global, Experiential Learning Requirement

HDF 44018 PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 3 Credit Hours
Preparation of students for professional work experiences as well as providing an opportunity to discuss recent developments in the fields of human development, family science and gerontology.
Prerequisite: HDF 24011; and Human Development and Family Science or Long-Term Care Administration majors; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44020 RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD 3 Credit Hours
(Slashed with HDF 54020) This course is designed to provide an in-depth understanding of development across adolescence and emerging adulthood, including the relationship between theory, research, and practice. The course focuses on transitions and relationships experienced during adolescence and emerging adulthood and context of these changes, as well as the application of theory and research to working with adolescents and emerging adults and their families.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44021 FAMILY INTERVENTION AND ADVOCACY 3 Credit Hours
(Slashed with HDF 54021) This course focuses on daily hassles, transitions, and crisis events that individuals and families may experience throughout the lifespan. Coping skills, support systems, and others resources that aid in managing these events as well as strategies for self-advocacy and advocacy on behalf of individuals and families are all addressed in this course.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44022 FAMILIES, GENDER AND POWER 3 Credit Hours
(Slashed with HDF 54022) The course uses a family science lens to focus on the intersection of gender with race, socioeconomic status and other factors related to power dynamics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44023 BUILDING FAMILY STRENGTHS (WIC) 3 Credit Hours
(Slashed with HDF 54023) The Building Family Strengths Model builds upon family life potential; based on extensive research emphasizing identified family strengths.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HDF 44028 PARENT-CHILD RELATIONSHIPS 3 Credit Hours
(Slashed with HDF 54028) Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research.
Prerequisite: HDF 24011; and HDF 24012 or PSYC 20651.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44029 FAMILY POLICY 3 Credit Hours
(Slashed with HDF 54029) Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy making.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44030 FAMILY LIFE EDUCATION AND PREVENTION 3 Credit Hours
Addresses the family life education content areas, the integral role of prevention education in helping individuals and families and developing effective facilitation methods and techniques for family life education and prevention.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44032 NONPROFIT FUNDRAISING AND GRANTWRITING 3 Credit Hours
(Slashed with HDF 54032) Provides comprehensive preparation in planning, seeking and acquiring funding from available resources in supporting the mission of nonprofit human service agencies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44033 COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR) 3 Credit Hours
An overview of nonprofit organizations at the local, national and international levels, including how to start and manage one. A comprehensive examination of the Board of Directors, advocacy and lobbying, program development, mission, vision and strategic goals, philanthropic fundraising and the financial management process, as well as the legal aspects. In addition, students will study service learning and complete a Field Experience at a nonprofit organization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HDF 44034 PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT 3 Credit Hours
An overview of nonprofit organizations including the areas of risk management, mentoring, cultural competence, social entrepreneurship, and how to effectively manage paid staff and volunteers. In addition, students will learn about earned income strategies and the marketing-communication process, including the use of technology. The course will also cover leadership, communication and conflict resolution skills. Other areas of study include accountability and transparency, ethical behavior, building capacity, change management and the importance of collaborations and mergers and government support in the sector.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44035 TRAUMA-RESPONSIVE ASSESSMENT AND STRATEGIES 3 Credit Hours
This course examines the process of evaluating client needs and assessment of clients' condition in the context of work in human services. This course emphasizes interviewing as a major assessment strategy and incorporates trauma-informed practices into assessment of clients' needs and conditions.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44037 POSITIVE YOUTH DEVELOPMENT 3 Credit Hours
(Slashed with HDF 54037) Examines individual, family, school and community characteristics that comprise developmental assets contributing to positive youth development (PYD). Definitions and descriptions of PYD approaches are examined as well as evaluations of program effectiveness. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn healthy behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44038 PROFESSIONAL CHILD AND YOUTH PRACTICE 3 Credit Hours
(Slashed with HDF 54038) Provides students with an understanding of the historical and current methodologies and organizational structures of professional child and youth work practice, emphasizing a synthesis of previous and new learning regarding five domains of competence (professionalism, cultural and human diversity, applied human development, relationship and communication and developmental practice methods). Practice issues in community-based and out-of-home care settings as well as work with various child and youth populations are explored.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44039 BEREAVEMENT AND LOSS 3 Credit Hours
(Slashed with HDF 54039) Those who choose to work in helping professions often discover loss issues as the reason families seek assistance. Loss issues are also entangled in the complexity and dynamics of family scenarios. This course is taught in an applied, experiential manner and introduces phraseology, adaptive strategies and skills to more effectively work with the bereaved.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44089 FAMILIES IN FLORENCE, ITALY: LOVE, PARENTING AND POLICY (DIVG) (ELR) 3 Credit Hours
The course explores how preventative family science and family policy are developed and executed in an international setting, specifically Florence, Italy. The course uses the city of Florence and its existing resources as experiential learning examples of course content. In this course, we will explore how historical family honor, rituals, culture, and social context continue to influence the modern Florentine family and policies devoted to families. Students will engage in experiential learning experiences to explore how modern policies impact families, and how preventative family education (Family Life Education) exists internationally. We aim to gain a comprehensive understanding of the modern Florentine/Italian family given current government policies while exploring Italian preventative family education.
Prerequisite: Minimum 2.500 overall GPA.
Schedule Type: International Experience, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

HDF 44092 PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY SCIENCE (ELR) 3-6 Credit Hours
(Repeatable for credit) Observation and participation in child, family and social service agencies. One class discussion per week. If the Practicum site requires it, students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned agency before the first day of the semester in which internship will take place. Major GPA of 2.250 is required.
Prerequisite: HDF 24011 and HDF 44018 and senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HDF 45089 LIFESPAN DEVELOPMENT PRACTICES AND OUTCOMES: THE ITALIAN EXPERIENCE (DIVG) (ELR) 3 Credit Hours
This course will explore lifespan development theories through the lens of Italian culture, policy and practices. Most class periods will be spent visiting and observing historical sites, schools, non-profit organizations, and observing everyday life while learning about the influence of religion, education, SES, and state policy on child, adolescent, and adult outcomes. Students will have the opportunity to actively engage with Florentines in a brief in-country volunteer experience.
Prerequisite: Minimum 2.500 overall GPA.
Schedule Type: International Experience, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

HDF 51093 VARIABLE TITLE WORKSHOP IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with HDF 41093) Workshop setting dealing with a topic or topics in human development and family science. Learning experiences are provided in a wide range of areas.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HDF 51095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-4 Credit Hours
(Repeatable for credit) (Slashed with HDF 41095) Discussion of a major topic within human development and family science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HDF 51096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HDF 41096) Independent study in human development and/or family science.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HDF 52089 HUMAN DEVELOPMENT AND FAMILY SCIENCE INTERNATIONAL EXPERIENCE 3 Credit Hours
(Repeatable for credit) (Slashed with HDF 42089) Exploration of human development and family science related topics while visiting various cultural contexts.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

HDF 54020 RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD 3 Credit Hours
(Slashed with HDF 44020) This course is designed to provide an in-depth understanding of development across adolescence and emerging adulthood. The relationship between theory, research, and practice. The course focuses on relationships and transitions experienced during adolescence and emerging adulthood and the context of these changes as well as the application of theory and research to working with adolescents and emerging adults and their families.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54021 FAMILY INTERVENTION AND ADVOCACY 3 Credit Hours
(Slashed with HDF 44021) This course focuses on daily hassles, transitions, and crisis events that individuals and families may experience throughout the lifespan. Coping skills, support systems, and others resources that aid in managing these events as well as strategies for self-advocacy and advocacy on behalf of individuals and families are all addressed in this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54022 FAMILIES, GENDER AND POWER 3 Credit Hours
(Slashed with HDF 44022) The course uses a family science lens to focus on the intersection of gender with race, socioeconomic status, and other factors related to power dynamics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54023 BUILDING FAMILY STRENGTHS 3 Credit Hours
(Slashed with HDF 44023) The building family strengths model builds upon family life potential, based on extensive research emphasizing identified family strengths.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54028 PARENT-CHILD RELATIONSHIPS 3 Credit Hours
(Slashed with HDF 44028) Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research.
Prerequisite: Human development and family science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54029 FAMILY POLICY 3 Credit Hours
(Slashed with HDF 44029) Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy making.
Prerequisite: Human development and family science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54032 NONPROFIT FUNDRAISING AND GRANTWRITING 3 Credit Hours
(Slashed with HDF 44032) Provides comprehensive preparation in planning, seeking and acquiring funding from available resources in supporting the mission of nonprofit human services agencies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54037 POSITIVE YOUTH DEVELOPMENT 3 Credit Hours
(Slashed with HDF 44037) Examines individual, family, school and community characteristics that comprise developmental assets contributing to positive youth development (PYD). Definitions and descriptions of PYD approaches are examined as well as evaluations of program effectiveness. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn health behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed. Students complete a program development project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54038 PROFESSIONAL CHILD AND YOUTH PRACTICE 3 Credit Hours
(Slashed with HDF 44038) Provides students with an understanding of the historical and current methodologies and organizational structures of professional child and youth work practice emphasizing a synthesis of previous and new learning regarding five domains of competence (professionalism, culture and human diversity, applied human development, relationship and communication and developmental practice methods). Practice issues in community-based and out of home care settings as well as work with various child and youth populations are to be explored. Students complete a program development and evaluation project.
Prerequisite: Human development and family science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54039 BEREAVEMENT AND LOSS 3 Credit Hours
(Slashed with HDF 44039) Those who choose to work in helping professions often discover loss issues as the reason families seek assistance. Loss issues are also entangled in the complexity and dynamics of family scenarios. This course is taught in an applied, experiential manner and introduces phraseology, adaptive strategies and skills to more effectively work with the bereaved.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 61091 SEMINAR 2-3 Credit Hours
(Repeatable for credit) Evaluation and interpretation of recent literature in human development and/or family science. Topic selected for semester will be indicated in the schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 2-3 other
Grade Mode: Standard Letter

HDF 61098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward meeting degree requirements if school approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

HDF 61099 MASTER'S PROJECT 2-6 Credit Hours
(Repeatable for credit) Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HDF 61199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HDF 61299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis II students must continue registration each semester until all degree requirements are met.
Prerequisite: HDF 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HDF 64023 FAMILY THEORIES AND PROCESSES 3 Credit Hours
An examination of theories and research for understanding family dynamics and changes in families across the lifespan. Includes attention to diverse family structures, dyadic and group processes applicable to families, and social and cultural contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 64024 FAMILY LIFE EDUCATION 3 Credit Hours
Developing community acceptance, teaching aids and techniques and curriculum for family life education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 64026 PROFESSIONAL ISSUES IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 2 Credit Hours
This course covers ethical and professional issues related to the field of human development and family science. The course will cover both conceptual ideas related to research and practice in the field as well as practical tools for professional development and successful completion of the Master's Thesis or Project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HDF 64027 EARLY ADOLESCENCE 3 Credit Hours
Examines the fundamental changes, social contexts and psychosocial processes involved in human development from ages 8-15. Implications for working with this age group within schools and human service agencies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 64092 PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 3-6 Credit Hours
(Repeatable for credit) Observation and participation in child, family and social service agencies. One class discussion per week. If the Practicum site requires it, students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned agency before the first day of the semester in which internship will take place. Major GPA of 2.250 is required.
Prerequisite: Human development and family science major; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter

Learning Science (LRNS)

LRNS 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: LRNS 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 65525 INFORMAL LEARNING 3 Credit Hours
(Slashed with LRNS 75525) Learning opportunities across the lifespan often occur outside of formal settings. Informal Learning explores learning in the wild, or learning without the use of formal techniques, curriculum, or assessments. The course will focus on helping students develop critical skills needed to read and synthesize basic research, as it is an important tool for lifelong learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 66510 INTRODUCTION TO R FOR EDUCATIONAL AND LEARNING SCIENCES 3 Credit Hours
(Slashed with LRNS 76510) An introduction to R for statistical computing for graduate students in educational, learning, cognitive, language and human behavioral sciences. Students will learn skills necessary to create graphical figures and tables and manipulate data structures and variables in executable code in R, R Studio and R markdown. Students will learn how to read, understand and synthesize code to develop readable data/results reporting formats on data repositories.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 66511 STATISTICAL PROGRAMMING IN R FOR LEARNING SCIENCE 3 Credit Hours
(Slashed with LRNS 76511) This is not a statistics course, but a programming course for statistics in R. The purpose of this course is to teach syntax for common analyses used in R among psychological and social sciences researchers. Theory, as related to statistics, will only be covered in reference to modeling constraints for each analysis. The purpose of this course will be to introduce students to basic syntax and data consideration for statistical analyses commonly used in R – such as t-tests, ANOVA, Regression, MANOVA, Power Analysis, and Mixed Random Effects Models.
Prerequisite: LRNS 66510 and RMS 68713 and RMS 68726; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 75525 INFORMAL LEARNING 3 Credit Hours
(Slashed with LRNS 66511) Learning opportunities across the lifespan often occur outside of formal settings. Informal Learning explores learning in the wild, or learning without the use of formal techniques, curriculum, or assessments. The course will focus on helping students develop critical skills needed to read and synthesize basic research, as it is an important tool for lifelong learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 76510 INTRODUCTION TO R FOR EDUCATIONAL AND LEARNING SCIENCES 3 Credit Hours
(Slashed with LRNS 66510) An introduction to R for statistical computing for graduate students in educational, learning, cognitive, language and human behavioral sciences. Students will learn skills necessary to create graphical figures and tables and manipulate data structures and variables in executable code in R, R Studio and R markdown. Students will learn how to read, understand and synthesize code to develop readable data/results reporting formats on data repositories.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 76511 STATISTICAL PROGRAMMING IN R FOR LEARNING SCIENCE 3 Credit Hours
(Slashed with LRNS 66511) This is not a statistics course, but a programming course for statistics in R. The purpose of this course is to teach syntax for common analyses used in R among psychological and social sciences researchers. Theory, as related to statistics, will only be covered in reference to modeling constraints for each analysis. The purpose of this course will be to introduce students to basic syntax and data consideration for statistical analyses commonly used in R – such as t-tests, ANOVA, Regression, MANOVA, Power Analysis, and Mixed Random Effects Models.
Prerequisite: LRNS 76510 and RMS 78713 and RMS 78726; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: LRNS 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 89096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT 1-3 Credit Hours
(Repeatable for credit) Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 89098 RESEARCH IN LEARNING AND DEVELOPMENT 1-6 Credit Hours
(Repeatable for credit) Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Long-Term Care Administration (LTCA)

LTCA 43092 INTERNSHIP IN NURSING HOME ADMINISTRATION/ HEALTH SERVICES EXECUTIVE (ELR) 9 Credit Hours
Internship in skilled nursing facility. One, 3 hour, on-campus seminar every three weeks (meets four times). Approximately 35-40 clock hours per week at internship site is required. Students participate in weekly online course discussions and have an on-site visit to their internship site during the semester.
Prerequisite: Minimum B grade in LTCA 44032; and human development and family studies majors or long-term care administration majors; and senior standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 33.33 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

LTCA 43192 INTERNSHIP IN NURSING HOME ADMINISTRATION/ HEALTH SERVICES EXECUTIVE (ELR) 9 Credit Hours
Internship in skilled nursing facility. One 3-hour, on-campus seminar every three weeks (meets four times). Approximately 35 clock hours per week at internship site is required. Students participate in weekly online course discussions and have an on-site visit to their internship site during the semester.
Prerequisite: Minimum B grade in LTCA 43092; and human development and family studies major or long-term care administration; and senior standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 33.33 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

LTCA 44032 LONG-TERM CARE ADMINISTRATION I 3 Credit Hours
(Slashed with LTCA 54032) Presents an overview and introduction to the principles of long-term care administration and other administration options.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LTCA 44033 LONG-TERM CARE ADMINISTRATION II 3 Credit Hours
(Slashed with LTCA 54033) Presents a focus on Assisted Living (AL) and Home and Community Based Services (HCBS) and Supports in long term care to align with accreditation standards for Nursing Home Administration-Health Services Executive (NHA-HSE).
Prerequisite: Minimum B- in LTCA 44032; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LTCA 54032 LONG-TERM CARE ADMINISTRATION I 3 Credit Hours
(Slashed with LTCA 44032) Presents an overview and introduction to the principles of long-term care (LTC) administration and other administration options.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LTCA 54033 LONG-TERM CARE ADMINISTRATION II 3 Credit Hours
(Slashed with LTCA 44033) Presents a focus on Assisted Living (AL) and Home and Community Based Services (HCBS) and Supports in long term care to align with accreditation standards for Nursing Home Administration-Health Services Executive (NHA-HSE).
Prerequisite: Minimum B grade in LTCA 54032; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LTCA 63092 INTERNSHIP IN NURSING HOME ADMINISTRATOR/ HEALTH SERVICES EXECUTIVE I 6 Credit Hours
Internship in skilled nursing facility and other lines of service. Seminar meetings during the semester. Weekly online discussions. Assignments and projects throughout the semester. Minimum 35 clock hours per week at internship site is required.
Prerequisite: Minimum B- grade in LTCA 54032; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 33.33 other
Grade Mode: Standard Letter

LTCA 63192 INTERNSHIP IN NURSING HOME ADMINISTRATOR/ HEALTH SERVICES EXECUTIVE II 6 Credit Hours
Internship in skilled nursing facility and other lines of service. Seminar meetings during the semester. Weekly online discussions. Assignments and projects throughout the semester. Minimum 35 clock hours per week at internship site is required.
Prerequisite: A minimum B grade in both LTCA 54032 and LTCA 63092; and graduate standing; and special approval.
Schedule Type: Practical Experience, Seminar
Contact Hours: 2 lecture, 33.33 other
Grade Mode: Standard Letter

School Psychology (SPSY)

SPSY 60093 VARIABLE TITLE WORKSHOP IN SCHOOL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for credit)
Prerequisite: Grading standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

SPSY 60162 DEVELOPMENTAL ASSESSMENT 3 Credit Hours
Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool, kindergarten and primary grade children. 24 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 60165 PRINCIPLES OF SOCIAL LEARNING 3 Credit Hours
The main focus is to provide students with an understanding of behavioral and social learning principles within the context of the school psychologist's professional practice. 19 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 60191 SEMINAR:SCHOOL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for credit)Seminar in school psychology. Varied topics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

SPSY 67592 FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS 2 Credit Hours
This field experience provides students with the opportunity to observe various school and educational settings that reflect the typical work scope for school psychologists. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school-agency" before the first day of the semester in which student teaching internship will take place.
Prerequisite: School psychology major; and graduate standing.
Schedule Type: Field Experience
Contact Hours: 8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67692 PRACTICUM I IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with SPSY 77692) This course provides students with experience, support, and opportunities for reflection related to the foundational domains of the practice of school psychology and ongoing professional development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to the beginning of any field-based activities.
Prerequisite: School psychology major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67792 PRACTICUM II IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with SPSY 77792) Provides students with applied experience and professional development related to foundational domains of school psychology practice. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.
Prerequisite: SPSY 67692 or SPSY 77692; and school psychology major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67892 ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY 3-6 Credit Hours
(Repeatable for credit) (Slashed with SPSY 77892) Provides students with advanced applied experience in educational, mental health, or behavioral health settings. 60 clock hours per credit hour. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.
Prerequisite: SPSY 67792; and school psychology major; and graduate standing and; special approval.
Schedule Type: Practical Experience
Contact Hours: 12-24 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67912 ROLE OF THE SCHOOL PSYCHOLOGIST 3 Credit Hours
Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. Five clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPSY 67920 DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS 3 Credit Hours
Provides overview of diagnosis of child and adolescent behavior disorders (ADHD, conduct problems) emotional and social disorders (depression, anxiety, phobias) and developmental acquired disorders (autism, mental retardation).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67925 INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour
Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPSY 67926 INTRODUCTION TO DIGITAL CITIZENSHIP FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour
(Slashed with SPSY 77926) This course is designed to provide students with an introductory understanding of the fundamental issues and practices of technology in school psychology. Students will gain skills related to: (a) ethical and professional use of technology; (b) evaluate features of various technology systems; (c) identify functional intervention goals to which technology can contribute; and (d) use technology to collect, analyze, summarize, and report student performance to aid instructional decision-making.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPSY 67928 GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours
Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67929 INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours
(Slashed with SPSY 77929) Review of individual counseling techniques. Skills developed in communication, interviewing, problem identification, goal setting and program development are fostered by lecture, video feedback and simulation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67931 PROGRAM DEVELOPMENT AND ETHICAL APPLICATION OF APPLIED BEHAVIOR ANALYSIS 3 Credit Hours
Describe and apply methodology and research design in monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to ethics, treatment implementation fidelity, and behavioral program development are also emphasized.
Prerequisite: SPED 53030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67932 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours
Use and interpretation of functional behavioral assessment sin educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs.
Prerequisite: SPED 53030 and SPSY 67920 or SPSY 77920; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67951 COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS 3 Credit Hours
Training and experience in administrating, scoring and interpreting cognitive measures for children and adolescents and writing reports. 30 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67955 INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Training in administration, scoring and interpretation of normative and non-normative measures of academic achievement, instructional environment and writing psychoeducational and team reports. 25 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67960 INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS 3 Credit Hours
Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67965 INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school based academic referrals within a problem solving model. Requires 25 clinical field hours.
Prerequisite: SPSY 67955; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67970 LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY 3 Credit Hours
Ethical, legal and professional issues of school psychologists and counselors will be explored. Considerations of law, regulations, ethical standards and codes of professional practice of related professional organizations will be addressed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67971 ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67972 SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Training in administration, scoring and interpretation of techniques for assessment of social emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/ agency" before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67973 CONSULTATION IN THE HELPING PROFESSIONS 3 Credit Hours
Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem solving models and crisis consultation. 20 clinical/field hours.
Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SPSY 67974 SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY 3 Credit Hours
Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for school-based social and emotional referrals within an eco- behavioral problem-solving model. 25 clinical field hours.
Prerequisite: SPSY 67972; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67975 HOME, SCHOOL AND COMMUNITY COLLABORATION 3 Credit Hours
(Slashed with SPSY 77975) This course is designed to familiarize school psychologists with essential attitudes, approaches, and actions necessary to form successful family-school-community partnerships that can foster development and learning.
Prerequisite: School psychology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67995 SPECIAL TOPICS IN SCHOOL PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit)Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPSY 67996 INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit)Independent reading and/or research directed by a graduate faculty member.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67998 INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY 1-9 Credit Hours
(Repeatable for credit)Student pursues research project on selected aspect of school psychology under supervision of instructor. Arrangements with instructor must be made prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 70093 VARIABLE TITLE WORKSHOP IN SCHOOL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

SPSY 70162 DEVELOPMENTAL ASSESSMENT 3 Credit Hours
Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool kindergarten and primary grade children. 24 clinical field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 70165 PRINCIPLES OF SOCIAL LEARNING 3 Credit Hours
The main focus is to provide students with an understanding of behavioral and social learning principles within the context of the school psychologist's professional practice.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 70191 SEMINAR:SCHOOL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for credit)Seminar in school psychology. Varied topics.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

SPSY 77592 FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS 2 Credit Hours
This field experience provides students with the opportunity to observe various school and educational settings that reflect the typical work scope for school psychologists. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school-agency" before the first day of the semester in which student teaching internship will take place.
Prerequisite: School psychology major; and graduate standing.
Schedule Type: Field Experience
Contact Hours: 8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77692 PRACTICUM I IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with SPSY 67692) This course provides students with experience, support, and opportunities for reflection related to the foundational domains of the practice of school psychology and ongoing professional development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to the beginning of any field-based activities.
Prerequisite: School psychology major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77792 PRACTICUM II IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with SPSY 67792) Provides students with applied experience and professional development related to foundational domains of school psychology practice. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.
Prerequisite: SPSY 67692 or SPSY 77692; and school psychology major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77892 ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY 3-6 Credit Hours
(Repeatable for credit) (Slashed with SPSY 67892) Provides students with advanced applied experience in educational, mental health, or behavioral health settings. 60 clock hours per credit hour. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.
Prerequisite: SPSY 77792; and school psychology major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 12-24 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77912 ROLE OF THE SCHOOL PSYCHOLOGIST 3 Credit Hours
Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. Five clinical field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPSY 77920 DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS 3 Credit Hours
Provides overview of diagnosis of child and adolescent behavior disorders (ADHD,conduct problems) emotional and social disorders (depression, anxiety, phobias) and developmental acquired disorders (autism, mental retardation).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77925 INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour
Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPSY 77926 INTRODUCTION TO DIGITAL CITIZENSHIP FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour
(Slashed with SPSY 67926) This course is designed to provide students with an introductory understanding of the fundamental issues and practices of technology in school psychology. Students will gain skills related to: (a) ethical and professional use of technology; (b) evaluate features of various technology systems; (c) identify functional intervention goals to which technology can contribute; and (d) use technology to collect, analyze, summarize, and report student performance to aid instructional decision-making.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPSY 77928 GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours
Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77929 INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours
(Slashed with SPSY 67929) Review of individual counseling techniques. Skills developed in communication interviewing problem identification goal setting and program development are fostered by lecture, video feedback and simulation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77932 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours
Use and interpretation of functional behavioral assessment sin educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs.
Prerequisite: SPED 53030 and SPSY 67920 or SPSY 77920; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77951 COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS 3 Credit Hours
Training and experience in administrating, scoring and interpreting cognitive measures for children and adolescents and writing reports. 30 clinical/field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77955 INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Training in administration, scoring and interpretation of normative and non-normative measures of academic achievement instructional environment and writing psychoeducational and team reports. 25 clinical field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77960 INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS 3 Credit Hours
Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77965 INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school-based academic referrals within a problem-solving model. Requires 25 clinical field hours.
Prerequisite: SPSY 77955; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77970 LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY 3 Credit Hours
Ethical, legal and professional issues of school psychologists and counselors will be explored. Considerations of law, regulations, ethical standards and codes of professional practice of related professional organizations will be addressed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77971 ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship.
Prerequisite: Doctoral standing; and permission.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77972 SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Training in administration, scoring and interpretation of techniques for assessment of social, emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which student teaching/internship will take place.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77973 CONSULTATION IN THE HELPING PROFESSIONS 3 Credit Hours
Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem-solving models and crisis consultation. 20 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SPSY 77974 SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY 3 Credit Hours
Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for school-based social and emotional referrals within an eco- behavioral problem-solving model. 25 clinical/field hours.
Prerequisite: SPSY 77972; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77975 HOME, SCHOOL AND COMMUNITY COLLABORATION 3 Credit Hours
(Slashed with SPSY 67975) This course is designed to familiarize school psychologists with essential attitudes, approaches, and actions necessary to form successful family-school-community partnerships that can foster development and learning.
Prerequisite: School psychology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77980 INTEGRATING EXPERIENCE IN SCHOOL PSYCHOLOGY 2 Credit Hours
This course requires student to research, study and develop expertise in a particular facet of school psychology and to present these findings at the conclusion of his her training program. Restricted to students in school psychology Ed.S. program. 38 clinical field hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

SPSY 77992 SPECIALIST INTERNSHIP IN SCHOOL PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit) The internship experience provides students with the opportunity to develop and practice the professional roles and functions of a school psychologist in an approved school setting. Students complete one academic year of internship in schools (minimum of 1,200 clock hours) under the supervision of a university supervisor and a certified school psychologist who is employed by a school system. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school-agency" before the first day of the semester in which student teaching internship will take place.
Prerequisite: School psychology major; and graduate standing; and guest students with permission.
Schedule Type: Practical Experience
Contact Hours: 7-40 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77995 SPECIAL TOPICS IN SCHOOL PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit)Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPSY 77996 INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit)Independent reading and/or research directed by a graduate faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77998 INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY 1-9 Credit Hours
(Repeatable for credit)Student pursues research project on selected aspect of school psychology under supervision of instructor. Arrangements with instructor must be made prior to registration.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Exploration of philosophical, definitional and attitudinal issues in the helping professions. Involvement in current activities of professional life through collaborative work with professors other students and practitioners.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPSY 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all dissertation requirements are met.
Prerequisite: SPSY 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 87987 PROFESSIONAL SEMINAR IN SCHOOL PSYCHOLOGY 3 Credit Hours
A professional seminar focused on the identity, history and development of school psychology with special emphasis on current professional issues.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 87992 DOCTORAL INTERNSHIP IN SCHOOL PSYCHOLOGY 1-6 Credit Hours
Repeatable for credit) The internship experience provides students with the opportunity to develop and practice the professional roles and functions of a school psychologist in an approved school setting. Students complete one academic year of internship in schools (minimum of 1,500 clock hours) under the supervision of a university supervisor and a licensed school psychologist who is employed by a school system. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school-agency" before the first day of the semester in which student teaching internship will take place.
Prerequisite: School psychology major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 10-60 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 87998 RESEARCH SEMINAR IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)Selected research topics in school psychology. Significant research literature is reviewed; research design methods and issues are presented and small research projects are conducted.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

Special Education (SPED)

SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD) 3 Credit Hours
Introduction to student exceptionalities, service delivery/placement options, and multidisciplinary team process. Focus on identification of characteristics definition and identification procedures of students with exceptionalities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, TAG Education

SPED 24000 INCLUSIVE PRACTICES 3 Credit Hours
Overview of current special education issues as they relate to inclusive practices. Students gain an understanding of the challenges faced by exceptional students and analyze the responsibilities of educational professionals in addressing these challenges. Students develop a productive orientation toward effective instruction in inclusive settings through a study of legal, practical, professional and attitudinal issues relevant to inclusive education.
Prerequisite: SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 40093 WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours
(Slashed with SPED 50093 and SPED 70093)(Repeatable for credit) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University faculty and other institutions. Offered irregularly.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 42030 ISSUES IN MODERATE-INTENSIVE DISABILITIES 3 Credit Hours
(Slashed with SPED 52030) Addresses a variety of topics relevant to the education of students with moderate to intensive (MDIN) educational needs, including contemporary issues, evidence-based interventions and the understanding and addressing of mental health issues in educational environments. Prepares pre-service MDIN teachers to understand challenges they are likely to encounter in the classroom, and connects them with local and national professional development resources to help address those challenges.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 42951 EARLY INTERVENTION IN NATURAL ENVIRONMENTS 3 Credit Hours
Course targets a broad array of early childhood professionals that comprise the field of early intervention from practitioners to future leaders in the field. Primary focus is on identifying natural opportunities for infants and toddlers to acquire and practice functional skills and behaviors. Recommended practice guidelines of the Division for Early Childhood indicate that interventions should be embedded and distributed within and across the routines, activities and places that are part of the child's daily experience. Course explores issues related to the various natural environments of the children in search of the routines, activities and places that offer the maximum learning and practice opportunities that are family-centered, developmentally and individually appropriate, culturally sensitive and least intrusive.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43010 FAMILY AND PROFESSIONAL COLLABORATION 3 Credit Hours
(Slashed with SPED 53010) This course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions who provide services to them. Use of collaborative, interdisciplinary, and inter-agency models in special education.
Prerequisite: Admission to advanced study or the professional phase; and SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43021 ASSESSMENT FOR SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 53021) Investigates issues and methods for assessing the academic, behavioral, physiological, mental health, and life skills of individuals with mild, moderate, and intensive disabilities. Interpretation of norm- and criterion formal assessments, creation of alternative assessments, modification of informal assessments, ecological and community-based assessments specific to individuals with low incidence and multiple disabilities.
Prerequisite: SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43022 INDIVIDUALIZED PROGRAMMING AND ASSESSMENT IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 53022) Course provides students with the knowledge and skills to select appropriate screening and assessment tools for the purpose of determining eligibility for special education services. In addition, students learn how to administer, score and use assessment results to develop an individualized education program (IEP) for students identified with disabilities.
Prerequisite: Admission to advanced standing; and SPED 24000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with SPED 53030) Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are emphasized. Procedures for assessing and modifying classroom environments/instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours.
Prerequisite: Admission to advanced study or the professional phase; and SPED 23000.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 1.5 other
Grade Mode: Standard Letter

SPED 43031 APPLIED BEHAVIOR ANALYSIS II: APPLICATION 3 Credit Hours
Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 43030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours.
Prerequisite: Admission to advanced study; and SPED 43030.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

SPED 43040 LANGUAGE AND READING IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 53040) Course focuses on instructional approaches to teaching reading and language arts to students with disabilities. Major emphasis throughout is on research-based techniques to improve student reading performance, focusing on the direct instruction approach to teaching reading. Students develop intervention strategies to adapt instructional techniques, materials and assessments to meet the needs of diverse learners with disabilities.
Prerequisite: Admission to advanced study; and SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43041 SUPPLEMENTAL AND INTENSIVE INSTRUCTION FOR MATHEMATICAL DIFFICULTIES 3 Credit Hours
This course provides students with the knowledge and skills to plan, deliver, and evaluate supplemental and intensive math instruction using research-based programs and practices. Data based individualization will be used to determine what and how to teach to promote mastery and understanding of critical math skills and concepts. Students learn effective strategies and instructional approaches for improving outcomes for students experiencing persistent difficulties learning math, including students with disabilities.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43042 INTENSIVE READING INTERVENTIONS AND PHONICS 3 Credit Hours
(Slashed with SPED 53042) Prepares students to provide high-quality evidence-based reading instruction to children with significant reading difficulties, including those with and without disabilities. Students will learn how to diagnose specific reading strengths and difficulties, select appropriate evidence-based interventions based on data and provide intensive interventions consistent with the science of reading. Students will learn foundational and advanced concepts in phonics necessary to teach children with dyslexia, learning disabilities, autism and other disabilities that impact reading development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43050 CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS 3 Credit Hours
Definitions, causes and characteristics, and social and educational implications of learning, developmental and emotional/behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions, current issues.
Prerequisite: SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43051 CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS 3 Credit Hours
Overview of specific facets and causes of severe disabilities, physical/psychological aspects, family societal responses political trends etiology and medical implications educational and vocational programming assessment and treatment planning assistive technology.
Prerequisite: SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43062 CURRICULUM METHODS MILD/MODERATE INTERVENTION 3 Credit Hours
(Slashed with SPED 53062) Effective methods for teaching students with mild to moderate disabilities. Research-based practices for individualizing the general education curriculum. Emphasis on specially designed instruction, collaboration, and team-based problem solving.
Prerequisite: Admission to advanced study or the professional phase; and SPED 24000.
Corequisite: SPED 44092.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43063 CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION 3 Credit Hours
(Slashed with SPED 53063) Delivery and adaptation of evidence based practices for students with moderate to intensive educational needs. An emphasis is placed on instruction of functional academic and life skills within naturalistic contexts.
Prerequisite: Admission to advanced study or the professional phase.
Corequisite: SPED 44192.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43070 PLANNING AND PROGRAMMING FOR TRANSITIONS 3 Credit Hours
This course discusses transitions that occur throughout the lifespan for individuals with and without disabilities, and the planning, support development and services available to successfully accomplish them. Introduction to community agencies and adult services.
Prerequisite: SPED 43050 or SPED 43051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43080 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES 3 Credit Hours
(Slashed with SPED 53080) Examines the application of high and low technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students.
Prerequisite: Admission to advanced study or professional phase; and SPED 43050 or SPED 43051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43306 FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS 3 Credit Hours
(Slashed with SPED 53306) This course focuses on providing non-audiology majors, specifically deaf education, educational interpreting, and ASL majors, with knowledge to support and serve children with a variety of hearing disorders in the educational setting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43307 LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS 3 Credit Hours
(Slashed with SPED 53307) This class focuses on listening, language and phonemic development for individuals with hearing loss. Specific areas will focus on typical language development and the impacts of hearing loss on language development in receptive, expressive, semantic, phonological, social, morphological and syntactical domains with an emphasis on reading and written language. The Auditory-Visual continuum, SCALES, along with strategies for zone of development will be focused on with auditory development strategies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43309 INTRODUCTION TO DEAF STUDIES (ELR) (WIC) 3 Credit Hours
(Cross-listed with ASL 49309) (Slashed with SPED 53309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment and the various communication systems used by deaf individuals. Specifically, topics discussed include historical, medical and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational and vocational experiences of deaf children, adults and their families.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPED 43310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS 3 Credit Hours
(Slashed with SPED 53310) Reviews research, theories and theorists in the field of language development for hearing and deaf children; develops awareness of language differences commonly demonstrated by deaf and hard-of hearing children; demonstrates ways to assess linguistic differences and facilitate instruction. Six topic areas include theories of language development (review), language and cognition, normal language acquisition in signed and spoken languages, child-caregiver interaction, language learning in a bilingual setting and language assessment. Students gain foundational understanding of language development and awareness of classroom applications for this knowledge. Deaf Education majors must achieve a minimum grade of B (3.000) in SPED 43309 before registering for this course.
Prerequisite: Admission to advanced study; and SPED 43309; and ASL 19202; and special education major or ASL english interpreting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS 3 Credit Hours
IEP and transition planning strategies and program content for deaf/hard-of-hearing students w/ADHD, BD, DD, VI, DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson development and adaptation for impacted areas.
Prerequisite: Admission to advaned study; and SPED 43313 with a minimum B grade.
Corequisite: SPED 43392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS 6 Credit Hours
(Slashed with SPED 53313) Theoretical overview of integrated linguistics curriculum and reading theories. Strategies to address DHH difficulties and barriers, instructional planning and materials design, and ongoing assessment strategies. Course includes a practicum placement.
Prerequisite: Admission to advanced study; and SPED 43310 with a minimum B grade; and CI 47504 or ECED 40402.
Pre/corequisite: ASL 29202.
Corequisite: SPED 43392.
Schedule Type: Lecture
Contact Hours: 6 lecture
Grade Mode: Standard Letter

SPED 43324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD-OF-HEARING STUDENTS 3 Credit Hours
Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing.
Prerequisite: Admission to advanced study; and SPED 43313 with a minimum C grade; and CI 47501 and CI 47502.
Corequisite: SPED 43392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43392 PRACTICUM: DEAF EDUCATION (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) This classroom and field-based experience is designed to provide pre-service deaf education teachers with the opportunity to develop professional-level skills in working with deaf and hard-of-hearing (DHH) students. The field component will provide experience in working with DHH students with diverse needs, disabilities and ethnic-cultural backgrounds. The class will address appropriate lesson planning and implementation. Students will spend a minimum of 50 hours in the educational setting (a classroom/educational environment) working with at least one student with hearing loss.
Prerequisite: Deaf education concentration in the special education major.
Schedule Type: Practical Experience
Contact Hours: 3.33-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPED 43950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 53950 and SPED 73950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43953 FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours
The course is specifically designed to examine issues facing families and professionals serving young children with disabilities and those who are at-risk. This course will provide students with theory, general principles, and procedures for fostering partnerships among families, professionals, students, and other stakeholders that lead to outcomes of individual and mutual empowerment.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43954 PRACTICAL APPLICATION: TEAMING 3 Credit Hours
The purpose of this course is to help students understand and apply the principles of effective collaborative teaming as related to their professional roles and responsibilities in a variety of educational settings serving young children with disabilities. A range of topics will be addressed throughout the course, including team models, consultation, reflective practices, effective meetings, conflict resolution and communication skills and coaching.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43955 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours
This course provides an overview of typical and atypical development in young children from birth through age eight, both at the pre-natal and peri-natal levels. Traditional and modern theories of development are discussed within an ecological framework, with an emphasis on brain research, risk factors, culture, and the implications of atypical development as it relates to play and learning. Emphasis on the interrelatedness of development as well as the sequences of development (pedagogical, developmental and logical) is explored.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43958 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours
This course is designed to provide an overview of topics and issues in regard to young children with disabilities within the context of family and current society. This course is a foundational course relevant to early childhood intervention (ECI) professionals from a variety of fields, and includes the current practices in serving young children and their families. All the information provided is interdisciplinary, inclusive and family-focused by nature. The core principles of the Individuals with Disabilities Education Improvement Act (IDEIA) will be reviewed with specific emphasis on Part B 619 and Part C provisions.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43964 ASSESSMENT AND EVALUATION IN EARLY INTERVENTION AND EARLY CHILDHOOD SPECIAL EDUCATION 3 Credit Hours
This course provides an overview of assessment and evaluation in early childhood services. We will examine a range of systems for comparing and observing early childhood services, practices, for young children and families including: screening, eligibility, programmatic assessment, performance monitoring, program evaluation, and accountability. The theoretical concepts of assessment and program evaluation in early childhood services will be investigated in this course, and there will also be opportunities for you to apply this knowledge of assessment instruments, curriculum and instructional strategies and program evaluation methods to intervention settings. Issues and trends related to assessing young children with disabilities (e.g., assessing family outcomes, cultural and linguistic differences) will also be discussed.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Undergraduate seminar in special education; varied topics.
Prerequisite: Admission to advanced study.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SPED 43995 SPECIAL TOPICS IN SPECIAL EDUCATION 1-4 Credit Hours
(Repeatable for credit) Selected topics intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of faculty within Special Education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

SPED 43996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) Student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Special Education faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 44020 MEDICAL ASPECTS OF AUTISM SPECTRUM DISORDERS 3 Credit Hours
(Cross-listed with SPA 44020) Description of medical issues facing individuals with autism spectrum disorders (ASD) and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 44092 FIELD EXPERIENCE 1 FOR INTERVENTION SPECIALISTS (ELR) 3 Credit Hours
(Repeatable for credit) This course is designed to introduce the teacher candidates to the Intervention Specialist Profession. Students will be placed to a setting where they are expected to work with an intervention specialist. Students will also attend a seminar that includes assignments in conjunction with the field activities. Teacher candidates will be evaluated in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with DEC/CEC standards.
Prerequisite: Special Education major; and 2.75 overall GPA.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

SPED 44192 FIELD EXPERIENCE 2 FOR INTERVENTION SPECIALISTS (ELR) 3 Credit Hours
(Repeatable for credit) This course is designed to introduce the teacher candidates to the Intervention Specialist Profession. Students will be placed to a setting where they are expected to work with an intervention specialist. Students will also attend a seminar that includes assignments in conjunction with the field activities. Teacher candidates will be evaluated in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with DEC/CEC standards.
Prerequisite: SPED 44092; and admission to advanced study or the professional phase.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

SPED 44309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours
(Slashed with SPA 54309, SPA 74309 and SPED 64309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 44492 STUDENT TEACHING IN SPECIAL EDUCATION (ELR) 4-9 Credit Hours
Provides opportunity to demonstrate skills in teaching. Students placed in education-based settings; assume total teaching responsibilities of students with exceptionalities for 480 clock hours under the supervision of the school-based mentor teacher and the university supervisor. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Admission to advanced study.
Corequisite: SPED 49525.
Schedule Type: Practical Experience
Contact Hours: 17-35 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPED 44951 CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC) 3 Credit Hours
In this course, students will become familiar with the federal law and state rules as well as recommended practices governing IFSP and IEP development. Students will use this knowledge to competently develop and prepare to implement IFSP outcomes and strategies, and or IEP goals, objectives and benchmarks through the identification of appropriate strategies as well as related supports and services. Family-centered, strengths-based planning and collaboration within the teaming approach will be emphasized. Students will learn about the process of facilitating the development, implementation, and monitoring of the IFSP and IEP as well as learn about the products of this process.
Prerequisite: Minimum 2.750 overall GPA; SPED 43021; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

SPED 45089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) (Slashed with SPED 55089 and SPED 75089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP
Attributes: Diversity Global, Experiential Learning Requirement

SPED 45090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION (ELR) 1-4 Credit Hours
(Slashed with SPED 55090 and SPED 75090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: None.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

SPED 48880 DEAF EDUCATION TEACHING LABORATORY 1-3 Credit Hours
(Repeatable for credit) The purpose of the “teaching lab” is to provide pre-service teachers with the opportunity to develop their teaching skills prior to student teaching experiences, and to be more effective in their practicum placements. This is accomplished through the planning, teaching, and reflection of mock lessons. Through the “teaching lab” experience, pre-service deaf education teachers will have the opportunity to develop professional-level skills necessary for working with deaf and hard-of-hearing (DHH) students, along with self-reflection and giving and/or receiving feedback. Participating faculty members will observe and assess pre-service teachers as they develop their teaching skills and understanding of what it means to be a professional in the field.
Prerequisite: Enrollment in advanced study.
Schedule Type: Laboratory
Contact Hours: 2-6 lab
Grade Mode: Satisfactory/Unsatisfactory

SPED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE 3 Credit Hours
Focus on effective, ethical and responsible implication of professional practice. Provides vehicle to articulate and demonstrate professional competencies, commitment and ethical decision making for providing services to students.
Prerequisite: Admission to advanced study.
Corequisite: SPED 44492.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPED 50093 VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours
(Slashed with SPED 40093 and 70093)(Repeatable for credit) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University and other institution faculty. Offered irregularly.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

SPED 52030 ISSUES IN MODERATE-INTENSIVE DISABILITIES 3 Credit Hours
(Slashed with SPED 42030) Addresses a variety of topics relevant to the education of students with moderate to intensive (MDIN) educational needs, including contemporary issues, evidence-based interventions and the understanding and addressing of mental health issues in educational environments. Prepares pre-service MDIN teachers to understand challenges they are likely to encounter in the classroom, and connects them with local and national professional development resources to help address those challenges.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53010 FAMILY AND PROFESSIONAL COLLABORATION 3 Credit Hours
(Slashed with SPED 43010) This course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions who provide services to them. Use of collaborative, interdisciplinary, and inter-agency models in special education.
Prerequisite: SPED 23000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53021 ASSESSMENT FOR SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 43021) Investigates issues and methods for assessing the academic, behavioral, physiological, mental health, and life skills of individuals with mild, moderate, and intensive disabilities. Interpretation of norm- and criterion formal assessments, creation of alternative assessments, modification of informal assessments, ecological and community-based assessments specific to individuals with low incidence and multiple disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53022 INDIVIDUALIZED PROGRAMMING AND ASSESSMENT IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 43022) Course provides students with the knowledge and skills to select appropriate screening and assessment tools for the purpose of determining eligibility for special education services. In addition, students learn how to administer, score and use assessment results to develop an Individualized Education Program (IEP) for students identified with disabilities.
Prerequisite: SPED 24000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with SPED 43030) Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are emphasized. Procedures for assessing and modifying classroom environments/ instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 1.5 other
Grade Mode: Standard Letter

SPED 53031 APPLIED BEHAVIOR ANALYSIS II: APPLICATION 3 Credit Hours
Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 43030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours.
Prerequisite: SPED 53030; and graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

SPED 53040 LANGUAGE AND READING IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 43040) This course focuses on instructional approaches to teaching language and reading to students with disabilities. The major emphasis throughout the course will be on research based techniques to improve student reading performance, focusing on the direct instruction approach to teaching reading. The course will also include intervention strategies to adapt instructional techniques, materials and assessments to meet the needs of diverse learners with disabilities.
Prerequisite: SPED 23000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53041 SUPPLEMENTAL AND INTENSIVE INSTRUCTION FOR MATHEMATICAL DIFFICULTIES 3 Credit Hours
(Slashed with SPED 43041) This course provides students with the knowledge and skills to plan, deliver, and evaluate supplemental and intensive math instruction using research-based programs and practices. Data based individualization will be used to determine what and how to teach to promote mastery and understanding of critical math skills and concepts. Students learn effective strategies and instructional approaches for improving outcomes for students experiencing persistent difficulties learning math, including students with disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53042 INTENSIVE READING INTERVENTIONS AND PHONICS 3 Credit Hours
(Slashed with SPED 43042) This course prepares students to provide high-quality evidence-based reading instruction to children with significant reading difficulties, including those with and without disabilities. Students will learn how to diagnose specific reading strengths and difficulties, select appropriate evidence-based interventions based on data, and provide intensive interventions consistent with the science of reading. Students will learn foundational and advanced concepts in phonics necessary to teach children with dyslexia, learning disabilities, autism, and other disabilities that impact reading development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53050 CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS 3 Credit Hours
Definitions, causes, characteristics; social, educational implications of learning developmental and emotional behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions; current issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53051 CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS 3 Credit Hours
Overview of specific facets and causes of severe disabilities, physical/psychological aspects family/societal responses, political trends, etiology and medical implications, educational and vocational programming, assessment and treatment planning, assistive technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53062 CURRICULUM METHODS MILD/MODERATE INTERVENTION 3 Credit Hours
(Slashed with SPED 43062) Effective methods for teaching students with mild to moderate disabilities. Research-based practices for individualizing the general education curriculum. Emphasis on specially designed instruction, collaboration, and team-based problem solving.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53063 CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION 3 Credit Hours
(Slashed with SPED 43063) Delivery and adaptation of evidence based practices for students with moderate to intensive educational needs. An emphasis is placed on instruction of functional academic and life skills within naturalistic contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53070 PLANNING AND PROGRAMMING FOR TRANSITIONS 3 Credit Hours
This course addresses life-span community participation and the planning, support, development, and services available to accomplish it. Introduction to community agencies and adult services. 10 clinical 15 field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53080 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES 3 Credit Hours
Examines the application of high and low technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students.
Prerequisite: SPED 53050 or SPED 53051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53101 DEAF CULTURE AND COMMUNITY 3 Credit Hours
(Slashed with ASL 49401) Exploration of historical events and figures from deaf community perspective. Life experiences of "typical" deaf individuals as minority culture representatives interacting with majority culture institutions and processes as depicted in narrative storytelling and folklore.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53108 AMERICAN SIGN LANGUAGE LINGUISTICS AND USAGE 3 Credit Hours
(Cross-listed with ASL 49108) Analytical study of American Sign Language syntactic, semantic, morphology and pragmatics; comparison of spoken languages and ASL using the Stokoe system, impact of educational-setting characteristics on linguistic processes.
Prerequisite: SPED 4/53100; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53306 FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS 3 Credit Hours
(Slashed with SPED 43306) This course focuses on providing non-audiology majors, specifically deaf education, educational interpreting, and ASL majors, with knowledge to support and serve children with a variety of hearing disorders in the educational setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53307 LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS 3 Credit Hours
(Slashed with SPED 43307) This class focuses on listening, language and phonemic development for individuals with hearing loss. Specific areas will focus on typical language development and the impacts of hearing loss on language development in receptive, expressive, semantic, phonological, social, morphological and syntactical domains with an emphasis on reading and written language. The Auditory-Visual continuum, SCALES, along with strategies for zone of development will be focused on with auditory development strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53309 INTRODUCTION TO DEAF STUDIES 3 Credit Hours
(Slashed with ASL 49309 and SPED 43309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment and the various communication systems used by deaf individuals. Specifically, topics discussed include historical, medical and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational and vocational experiences of deaf children, adults and their families.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS 3 Credit Hours
Reviews research, theories and theorists in the field of language development for hearing and deaf children; develops awareness of language differences commonly demonstrated by deaf and hard-of hearing children; demonstrates ways to assess linguistic differences and facilitate instruction. Six topic areas include theories of language development (review), language and cognition, normal language acquisition in signed and spoken languages, child-caregiver interaction, language learning in a bilingual setting and language assessment. Students gain foundational understanding of language development and awareness of classroom applications for this knowledge. Deaf Education majors must achieve a minimum grade of B (3.000) in SPED 53309 before registering for this course.
Prerequisite: SPED 53309 and ASL 19202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS 3 Credit Hours
IEP and transition planning strategies and program content for deaf/hard-of-hearing students with ADHD, BD, DD,VI,DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson development and adaptation for impacted areas.
Prerequisite: SPED 53313 with a minimum B grade; and graduate standing.
Corequisite: SPED 63392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS 6 Credit Hours
Theoretical overview of integrated linguistics curriculum and reading theories. Strategies to address DHH difficulties and barriers, instructional planning and materials design, and ongoing assessment strategies. Course includes a practicum placement.
Prerequisite: SPED 53310 with a minimum B grade; and CI 67310 or CI 57504; and graduate standing.
Pre/corequisite: ASL 29202 and SPED 63392.
Schedule Type: Lecture
Contact Hours: 6 lecture
Grade Mode: Standard Letter

SPED 53316 EARLY CHILDHOOD DEAF EDUCATION: FAMILY AND CHILD SERVICE PROVISION 3 Credit Hours
Targets the issues and needs of young deaf/hard-of-hearing children and their families. Topics covered relate to service provision in the home and classroom for deaf/hard-of-hearing children from birth to 5 years of age. Includes 30 hours of work in a practicum placement with a young D/HH child and his/her family.
Prerequisite: SPED 4/53310; ASL/SPED 29202 or sign language proficiency interview (SLPI) at intermediate or above; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD OF HEARING STUDENTS 3 Credit Hours
Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing.
Prerequisite: SPED 53313 with a minimum B grade; and CI 57501 and CI 57502; and graduate standing.
Corequisite: SPED 53392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53534 SOCIAL/EMOTIONAL COMPONENTS OF GIFTEDNESS 3 Credit Hours
Affective growth of gifted persons is reviewed through research literature and analysis of case studies. Reviews adjustment problems of gifted youth and adults.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 43950 and 73950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 54030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours
(Cross-listed with SPA 54030) (Slashed with SPA 44030 and SPA 74030) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with Autism Spectrum Disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 54309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours
(Cross-listed with SPA 54309) (Slashed with SPA 74309 and SPED 44309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 55089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours
(Slashed with SPED 45089 and SPED 75089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Graduate standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPED 55090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours
(Slashed with SPED 45090 and SPED 75090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Graduate standing.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPED 58880 DEAF EDUCATION TEACHING LABORATORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with SPED 48880) The purpose of the "teaching lab" is to provide pre-service teachers with the opportunity to develop their teaching skills prior to student teaching experiences, and to be more effective in their practicum placements. This is accomplished through the planning, teaching, and reflection of mock lessons. Through the "teaching lab" experience, pre-service deaf education teachers will have the opportunity to develop professional-level skills necessary for working with deaf and hard-of-hearing (DHH) students, along with self-reflection and giving and/or receiving feedback. Participating faculty members will observe and assess pre-service teachers as they develop their teaching skills and understanding of what it means to be a professional in the field.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2-6 lab
Grade Mode: Satisfactory/Unsatisfactory

SPED 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SPED 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 62951 EARLY INTERVENTION IN NATURAL ENVIRONMENTS 3 Credit Hours
This seminar targets early childhood special education and intervention professionals that comprise the field of early intervention from practitioners to future leaders in the field. Recommended practice guidelines of the Division for Early Childhood (DEC) indicate that interventions should be embedded and distributed within and across the routines, activities and places that are part of the child's daily experience. In keeping with DEC recommendations, this course will explore issues related to the various natural environments of the children in search of the routines, activities, and places that offer the maximum learning and practice opportunities that are family centered, developmentally and individually appropriate, culturally sensitive, and least intrusive.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63030 PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION 3 Credit Hours
Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/ intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63031 PROGRAM DEVELOPMENT IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours
Describe and apply methodology and research design in developing and monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based in applied behavior analysis. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to treatment implementation fidelity and behavioral program development are also emphasized.
Prerequisite: Graduate standing.
Pre/corequisite: SPED 53030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63032 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours
Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hours.
Prerequisite: SPED 53030, SPED 53031, SPED 63031, SPED 63301 and SPED 63033; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63033 ETHICAL AND PROFESSIONAL CONDUCT IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours
This course provides an intensive focus on ethical and professional conduct as it applies to day-to-day implementation of applied behavior analytic strategies by professional behavior analysts. Responsible conduct of a behavior analyst, ethical responsibilities to clients, colleagues, the field of applied behavior analysis, and society are featured. BACB Guidelines for Responsible Conduct for Behavior Analyst and BACB Disciplinary and Ethical Standards are reviewed and studied. This course focuses on meeting the updated standards for ethics set forth by the Behavior Analyst Certification Board in the BACB Fourth Edition Task List.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63034 PRINCIPLES AND CONCEPTS IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours
This course focuses on the advanced conceptual, philosophical, and theoretical underpinnings of applied behavior analysis and the research literature from which they were derived. This course is designed for those who will pursue certification through the Behavior Analyst Certification Board, and as such, delves deep into the technical aspects of the science of applied behavior analysis. Students will become fluent in such areas as the theories of behavior, principles of operant and respondent conditioning, stimulus class, automatic and socially mediated contingencies, motivating operations, and stimulus control, as well as be able to identify and describe examples of how they are used. Prerequisite: Admission to Behavior Intervention Specialist Certificate; and graduate standing
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63075 ASPECTS OF DISABILITY AND TRANSITION SERVICES 3 Credit Hours
This course provides an advanced examination of evidence-based practices involved in providing transition services to students with a wide range of disabilities. Topics include but are not limited to: assessment of transition needs and interests, job development and creation, support and instruction in the classroom and community and collaboration with families and related transition service providers.
Prerequisite: SPED 53070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63092 FIELD EXPERIENCE IN SPECIAL EDUCATION 3 Credit Hours
Provides opportunity to observe master teachers and begin working with students. Students are placed in education-based settings and work with a team of professionals to understand techniques for providing services to students with exceptionalities. Additional seminar meetings.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 63101 ADMINISTRATION AND SUPERVISION IN SPECIAL EDUCATION 3 Credit Hours
Administration of educational programs for exceptional children; improvement of teacher competencies; function of special education supervisors; and special education operations at local, state and national levels.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63201 CONTEMPORARY ISSUES IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 83201) Surveys current research, literature and policy issues that affect identification, assessment and service provision to students with exceptionalities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63204 LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 73204) This course will review the statutory and regulatory foundations of U.S. public policies pertaining to children and youth with disabilities. Key judicial interpretations of those policies will also be reviewed. The course will provide comprehensive overviews of The Individuals with Disabilities Education Act, The Every Student Succeeds Act, The Americans with Disabilities Act, The Vocational Rehabilitation Act, relevant sections of The Social Security Act. In addition, students will gain an awareness of miscellaneous other pieces of legislation and examples of case law pertaining to the education of students with disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63300 RESEARCH APPLICATIONS IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 73300) Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum, and assimilating knowledge through applied projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPED 63301 SINGLE SUBJECT RESEARCH METHODS 3 Credit Hours
(Repeatable for credit) This course focuses on design and implementation of high-quality, experimental single subject research studies for the purpose of evaluating the effectiveness of an intervention with a particular individual. Masters students learn about the quality indicators for single subject research methods and how to use them to design a study that is internally valid. Doctoral students learn how to use those quality indicators to design, complete, and submit for publication their own research; and how to use them to evaluate single subject research for critical review. Students also learn how to graph outcome data using traditional visual analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63392 PRACTICUM IN DEAF EDUCATION 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) This classroom and field-based experience is designed to provide pre-service deaf education teachers with the opportunity to develop professional-level skills in working with deaf and hard-of-hearing (DHH) students. The field component will provide experience in working with DHH students with diverse needs, disabilities, and ethnic-cultural backgrounds. The class will address appropriate lesson planning and implementation. Students will spend a minimum of 50 hours in the educational setting (a classroom/educational environment) working with at least one student with hearing loss.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3.3-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 63892 EARLY INTERVENTION INTERNSHIP 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) The Early Intervention Internship involves supervised observation and participation in an early intervention setting(s) for children ages birth to three with developmental delays and disabilities or supervised observation and participation in research and scholarly activities related to the development, delivery, and evaluation of early intervention services to children and their families. Students may be placed at a county board of developmental disabilities, center-, community-, or home-based early intervention program, a developmental center, childcare center, a neonatal intensive care unit (NICU) or other approved placement. The Early Intervention internship will provide students practical experience in an Early Intervention professional setting, one that allows students to develop and refine a variety of skills when working with infants and toddlers with disabilities and their families.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory

SPED 63949 AUTISM SPECTRUM DISORDER CAPSTONE 1-3 Credit Hours
Knowledge and skills gained through participation in the Autism Spectrum Disorders (ASD) program are utilized to develop a project related to the education of individuals with ASD and-or the individuals who support them.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

SPED 63952 FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours
(Cross-listed with ECED 60159) Examines issues facing families and professionals serving young children who are at-risk, disabled and typically developing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63953 PRACTICAL APPLICATIONS:BIRTH TO FIVE 3 Credit Hours
Practical application of recommended practices for young children birth-five. Observation of young children in natural environments. Plan and evaluate intervention with families and professionals. Sixty field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63954 PRACTICAL APPLICATIONS: TEAMING 3 Credit Hours
The purpose of this course is to help students understand and apply the principles of effective collaborative teaming as related to their professional roles and responsibilities in a variety of educational settings serving young children with disabilities. A range of topics will be addressed throughout the course, including giving and receiving feedback, reflective practices, effective meeting, conflict resolution and communication skills, developing and providing quality professional development, supervising, coaching, mentoring, working with para-professionals, itinerant teaching, service coordination, and consulting with general educators.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63955 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours
Overview of typical and atypical development pathways from birth to grade 3 including: theories of behavior, implications of atypical development on play, learning, early childhood development within ecological framework.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63956 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Cross-listed with ECED 60156) (Slashed with SPED 73956) Overview of issues facing young children within context of family/society including: history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment intervention and evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63957 ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 73957) Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments, monitoring progress.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63958 EARLY CHILDHOOD INTERVENTION METHODS 3 Credit Hours
Specific strategies for working with children birth to eight with intensive needs (e.g.cerebral palsy, spina bifida, autism). 30 clinical hours will provide students with the opportunity to practice newly acquired intervention strategies, knowledge and skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63959 MEDICAL ASPECTS OF LIFESPAN DISABILITIES 3 Credit Hours
Description of medical issues facing individuals with lifespan disabilities and their families. Examination of etiology, co-occuring disabilities and disorders, and treatment options in relation to individuals with Autism Spectrum Disorders and other developmental disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SPED 63992 STUDENT TEACHING IN SPECIAL EDUCATION 4-8 Credit Hours
(Repeatable for maximum of 8 credit hours) Provides opportunity to demonstrate skills in teaching. Students placed in education-based settings; assume total teaching responsibilities of students with exceptionalities for 480 clock hours under the supervision of the school-based mentor teacher and the university supervisor. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.
Prerequisite: Graduate standing; and special approval.
Corequisite: SPED 69525.
Schedule Type: Practical Experience
Contact Hours: 17-35 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 63995 SPECIAL TOPICS IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with SPED 73995) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPED 63996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-10 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 63998 RESEARCH:SPECIAL EDUCATION 1-10 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 64200 CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION 3 Credit Hours
This course focuses upon the development of transition agreements and collaboration between secondary transition specialists and other transition stakeholders (e.g., elementary school regular educators, parents of students with disabilities, adult service programs). Particular emphasis is placed upon infusing vocational, and non-vocational, transition planning in the curricula for individuals with moderate-to-intensive disabilities at all academic grade levels. 100 field hours are required for this course.
Prerequisite: SPED 53070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 64892 ADVANCED PRACTICUM 3-4 Credit Hours
(Repeatable for credit) The purpose of this advanced practicum is to integrate the knowledge and skills acquired through prior curricula to a field-based setting assisting individuals with disabilities. Settings may include, but are not limited to, general education and special education classrooms as well as therapeutic, residential and vocational programs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 64951 DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM 3 Credit Hours
Designed to increase students understanding regarding federal and state rules for developing IEPs for P-12 students and IFSPs for young children and their families. Students will learn how to write functional and measurable IEP goals, objectives and IFSP outcomes, and to use assessment information directly for identifying, writing, and monitoring IFSP outcomes and IEP goals. This course will also teach how to form partnerships with families around developing, implementing and evaluating the IFSP and IEP.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 69525 INQUIRY PROFESSIONAL PRACTICE 3 Credit Hours
This course is to support students during their student teaching experience in the last semester of the program. Planning for instruction and assessment, instructing and engaging students in various special education settings, and assessing learning outcomes are the focus of this course. The course also includes information specific to the professional responsibilities in their placements.
Prerequisite: Graduate standing.
Corequisite: SPED 63992.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 70092 COLLEGE TEACHING AND PRACTICUM 3 Credit Hours
(Repeatable for credit) The content of this course will focus on major aspects of teaching in higher education, including topics such as philosophy of teaching, principles of adult learning, instructional strategies, and assessment. Students will apply their knowledge by participating in activities related to course and material development as well as delivery and grading of an undergraduate or masters level course under the direct supervision of a faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

SPED 70093 VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours
(Slashed with SPED 40093 and SPED 50093)(Repeatable for credit) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University and other institution faculty. Offered irregularly.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

SPED 73030 PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION 3 Credit Hours
Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73204 LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 63204) This course will review the statutory and regulatory foundations of U.S. public policies pertaining to children and youth with disabilities. Key judicial interpretations of those policies will also be reviewed. The course will provide comprehensive overviews of The Individuals with Disabilities Education Act, The Every Student Succeeds Act, The Americans with Disabilities Act, The Vocational Rehabilitation Act, relevant sections of The Social Security Act. In addition, students will gain an awareness of miscellaneous other pieces of legislation and examples of case law pertaining to the education of students with disabilities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73300 RESEARCH APPLICATIONS IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 63300) Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum, and assimilating knowledge through applied projects.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPED 73950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 63950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73956 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Cross-listed with ECED 60156) (Slashed with SPED 63956) Overview of issues facing young children within context of family/society including: history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment intervention and evaluation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73957 ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 73957) Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments monitoring progress.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73991 SEMINAR IN SPECIAL EDUCATION 1,3 Credit Hour
(Repeatable for credit)Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SPED 73995 SPECIAL TOPICS IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with SPED 63995) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPED 73996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-10 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 74200 CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION 3 Credit Hours
(Slashed with SPED 64200) This course focuses upon the development of transition agreements and collaboration between secondary transition specialists and other transition stakeholders (e.g., elementary school regular educators, parents of students with disabilities, adult service programs). Particular emphasis is placed upon infusing vocational, and non-vocational, transition planning in the curricula for individuals with moderate-to-intensive disabilities at all academic grade levels. 100 field hours are required for this course.
Prerequisite: SPED 53070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 75089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours
(Slashed with SPED 45089 and SPED 55089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Doctoral standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPED 75090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours
(Slashed with SPED 45090 and SPED 55090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Doctoral standing.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPED 80001 SPECIAL EDUCATION RESIDENCY 3 Credit Hours
This course is designed to provide beginning SPED doctoral students skills and knowledge in the following global areas: information literacy and plagiarism, basic APA style writing and building a writing routine. Additionally, the course will prepare students in the following SPED specific areas: effectively synthesizing intervention based empirical research, establishing a line of inquiry in the disability related fields, and developing a CV for disability related positions in Higher Education. Overall, the course will help students to understand life in academia during the doctoral studies in SPED and life after graduation conducting timely SPED research and teaching SPED content (e.g., institutional differences for SPED higher education jobs, tenure, work and life balance, time management, etc).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPED 80002 ANALYSIS OF THE LITERATURE IN SPECIAL EDUCATION 3 Credit Hours
This course is designed to assist doctoral students in the acquisition, organization, and interpretation of information about research in special education. The seminar introduces students to the nature of inquiry and the process of generating questions about a broad array of disability-related research topics. Students will gain knowledge to analyze critically the outcomes of research in special education.
Prerequisite: SPED 80001; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPED 80003 IMPLEMENTATION SCIENCE IN SPECIAL EDUCATION 3 Credit Hours
This course is designed to provide students an overview of implementation science, and seminal leadership and systems change literature. The course will describe current state of the science of implementation, and identify strategies that foster the effective transmission and implementation of innovative programs in intervention focused disability studies special education fields. Students analyze and apply the literature at the teacher, family, school building, district, state and federal levels. Students will gain skills and knowledge in implementation drivers that have the potential in reducing the research to practice gap, and increasing the integration of evidence based practices. Strategies for developing and mobilizing stakeholders to support the process of change will be covered.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 80005 EMPIRICAL INVESTIGATIONS IN SPECIAL EDUCATION 3 Credit Hours
The course is intended to help students solidify their knowledge, skills, and dispositions related to research design, research methods, and scholarly writing by applying and expanding them in the context of special education research. Students will review and analyze quality indicators for special education research, critique select special education research literature, and develop a preliminary research proposal.
Prerequisite: SPED 80002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 80040 RESEARCH GRANT DEVELOPMENT FOR DISABILITY PROGRAMS 3 Credit Hours
Students develop and write research proposals for grant competitions focusing on disability issues. Considerations for types of competitions and funding sources are discussed. Focus of instruction is related to how to describe the importance of the research proposed, research methods identified, budget, administration of grant activities and evaluation of implementation.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

SPED 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Provides students with the opportunity to synthesize courses, research and practice by focusing on diverse issues and topics. Ordinarily, SPED 80090 is taken no earlier than the second year of doctoral studies as a culminating course in the doctoral sequence.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPED 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: SPED 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 83201 CONTEMPORARY ISSUES IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 63201) This course is designed to help doctoral students to develop (a) foundational knowledge for understanding important and controversial issues in special education and related disciplines; (b) skills in critical analysis and synthesis of research; and, (c) skills in effective oral and written communication about historical and contemporary issues in special education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 83301 SINGLE-SUBJECT RESEARCH METHODS 3 Credit Hours
(Repeatable for credit) (Slashed with SPED 63301) This course focuses on design and implementation of high-quality, experimental single subject research studies for the purpose of evaluating the effectiveness of an intervention with a particular individual. Masters students learn about the quality indicators for single subject research methods and how to use them to design a study that is internally valid. Doctoral students learn how to use those quality indicators to design, complete, and submit for publication their own research; and how to use them to evaluate single subject research for critical review. Students also learn how to graph outcome data using traditional visual analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 83952 THE LAW AND SPECIAL EDUCATION 3 Credit Hours
Selected principles of constitutional, statutory, case and common law affecting handicapped and special education students, teachers and administrators are studied.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 83991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SPED 83992 INTERNSHIP IN SPECIAL EDUCATION 2-8 Credit Hours
(Repeatable for credit) A college-university doctoral-level supervised teaching experience. The candidates participate fully in the course and material development as well as delivery and grading of an undergraduate or masters level course under the direct supervision of a faculty member assigned to teach the class. Candidates are expected to partially participate in the delivery of a third of the course and fully deliver at least a third of the course under the observation and supervision of a faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 12-24 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 83998 RESEARCH:SPECIAL EDUCATION 1-10 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

School of Teaching, Learning and Curriculum Studies

Adolescent/Adult Education (ADED)

ADED 20000 TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING 3 Credit Hours
Course examines social justice issues that are central to teaching and learning across all educational contexts. Students consider topics such as race, poverty, social class, LGBTQ youth and colleagues, socially responsive teaching and at-risk youth as they intersect with K-12 educational settings.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 20020 EXPLORING SECONDARY SCIENCE TEACHING 1 Credit Hour
This course is designed to allow students to learn and practice science teaching skills, develop real-world teaching experience in secondary schools, learn about research-based science teaching methods, and explore formal and informal science teaching careers. The course includes an associated field experience where students get to teach science lessons to local secondary students.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ADED 22275 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours
A course that introduces you to the field of social studies education. In this course you will explore the history and current issues and trends in the field of social studies education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 32142 PRINCIPLES OF TEACHING ADOLESCENTS (WIC) 3 Credit Hours
Orientation to adolescence and the teaching-learning process. This course includes 30 field-clinical hours in an urban setting. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: ADED 20000; and admission to advanced study.
Schedule Type: Field Experience, Lecture
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ADED 32268 THE SECONDARY SCHOOL MATHEMATICS CURRICULUM 3 Credit Hours
The secondary school mathematics curriculum will be examined. Student's textbooks and recommendations will be investigated. This course includes 30 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: ADED 32142 and MATH 22005.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

ADED 32275 CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES 3 Credit Hours
A beginning social studies teaching and learning course. In this course you will explore how to achieve the purposes of social studies education through curriculum, instructional and planning decisions.
Prerequisite: ADED 22275 and ADED 32142; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 32277 TEACHING SCIENCE IN SECONDARY SCHOOLS 3 Credit Hours
This course is designed to facilitate the development of preservice middle and secondary school science teachers. Fundamental to middle and secondary school science teaching is an understanding of content knowledge, pedagogical knowledge and methodologies appropriate for science learning in secondary school. During this course students participate in hands-on activities, group discussions, presentations, pedagogical analyses and curriculum development. This course particularly focuses on nature of science, conceptual change and student misconceptions, ambitious science teaching, engineering design and STEM, issues-based instruction and teaching diverse learners and using technology to plan, teach, assess and analyze assessment data.
Prerequisite: ADED 32142.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 33268 MATHEMATICAL MODELING FOR SECONDARY TEACHERS 3 Credit Hours
The Mathematical Modeling for Secondary Teachers is designed to promote reasoning, problem-solving and modeling through thematic units focused on mathematical practices, while reinforcing and extending content in number and quantity, algebra, functions, statistics and probability and geometry.
Corequisite: ADED 32268.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 42196 INDIVIDUAL PROJECT IN ADOLESCENT EDUCATION 2-4 Credit Hours
(Repeatable for credit) Independent study in Adolescent Education.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory

ADED 42268 TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS 3 Credit Hours
Methodology and materials for effective teaching of secondary school mathematics will be discussed and implemented in field experiences.
Prerequisite: ADED 32268.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 42275 TEACHING SOCIAL STUDIES IN GRADES 7 - 12 3 Credit Hours
An advanced social studies education teaching and learning course. Addresses a range of topics that will help you engage your 7th–12th grade students with social studies.
Prerequisite: Minimum C grade in ADED 32275; and admission to advanced study.
Corequisite: ADED 42292.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 42277 TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING 3 Credit Hours
Analysis of trends in science teaching and materials and methods for introducing topics from the history of science and from health education.
Prerequisite: ADED 32277; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 42292 FIELD WORK PRACTICUM (ELR) 3 Credit Hours
(Repeatable for credit) A field experience in a middle or high school. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Students must be on track for student teaching the following semester in order to register for this course.
Prerequisite: Minimum C grade in ADED 32268 or ADED 32275 or ADED 32277; or ADED 43325 and ADED 43335; and advanced study.
Corequisite: ADED 42268 or 42275 or 42277 or ADED 43325.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ADED 42392 SECONDARY STUDENT TEACHING (ELR) 9 Credit Hours
Provides a full time student-teaching experience. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: ADED 42292; and admission to advanced study.
Corequisite: ADED 49525.
Schedule Type: Practical Experience
Contact Hours: 35 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ADED 43210 TEACHING READING IN MIDDLE AND HIGH SCHOOL WITH YOUNG ADULT LITERATURE 3 Credit Hours
Through reading, young adults have the opportunity to reflect on their lives and to consider diverse cultures, time periods, and experiences. Readers can recognize themselves or grow to know someone, something, or someplace quite different. This course supports the pre-service Integrated Language Arts educator in learning how to plan and implement reading experiences, specifically focused on young adult literature and its instructional uses in middle school and high school language arts classrooms. This class will place an emphasis on the reading process and the foundations of reading for middle and high school students.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 43315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS 3 Credit Hours
(Slashed with ADED 53315) Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.
Prerequisite: ADED 32142 and MCED 40007; and advanced standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 43325 MULTI-MODAL LITERACIES IN THE SECONDARY CLASSROOM 3 Credit Hours
Explores the pedagogies of reading and composing with a variety of print and non-print texts. Focuses on the impact of media culture on adolescent learners. Utilizes new literacies to enhance learning in the content area.
Prerequisite: ADED 32142 and ADED 43315 and ADED 43335 and MCED 40007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 43335 TEACHING LANGUAGE AND COMPOSITION 3 Credit Hours
Explores linguistic and rhetorical perspectives on the teaching of composition in secondary schools.
Prerequisite: ADED 32142 and MCED 40007; and advanced standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 49525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
Reflection on teaching for the purpose of instructional improvement. Emphases are placed on preparing implementing and assessing a curricular unit collaborative problem solving conducting an action research project and creating a portfolio.
Prerequisite: Admission to advanced study.
Corequisite: ADED 42392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 52267 IMPROVING MATHEMATICS INSTRUCTION FOR ADOLESCENT AND ADULT EDUCATION 3 Credit Hours
Methodology and materials for effective teaching of secondary school mathematics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 52277 TEACHING SCIENCE IN THE SECONDARY SCHOOL 3 Credit Hours
Analysis of teaching materials, demonstrations and participation in science classes appropriate for graduate students seeking certification to teach science in the secondary school.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 53315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS 3 Credit Hours
(Slashed with ADED 43315) Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 62092 ADVANCED PRACTICUM 3 Credit Hours
(Repeatable for credit) Internship held at a school under the direction of a cooperating teacher, requiring a minimum of 100 field hours. Activities included in the internship include lesson plan preparation, unit planning, evaluation of student learning and other duties typical of teachers in the performance of their role in the school setting. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which the practicum will take place.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 6.67 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 62145 PRINCIPLES OF SECONDARY TEACHING 3 Credit Hours
Principles of teaching adolescents including curriculum, planning instruction, assessment, fundamentals of evaluation, and reflective practice. All course content focuses on preparing teachers for secondary school teaching.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 62191 SEMINAR IN SECONDARY EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Cross-listed with ADED 72191) Study and experience of various theoretical and methodological and practical approaches to special problems.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ADED 62198 RESEARCH IN SECONDARY EDUCATION 2-15 Credit Hours
(Repeatable for credit) Students pursue an individualized research project under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2-15 other
Grade Mode: Standard Letter

ADED 63192 SECONDARY EDUCATION STUDENT TEACHING INTERNSHIP 1-10 Credit Hours
(Repeatable for credit) Internship held at a secondary school under the direction of a cooperating teacher. A minimum of 50 hours per credit are required. Activities included in the internship include lesson plan preparation, unit planning, evaluation of student learning and other duties typical of teachers in the performance of their role in the school setting.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33-33.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 63292 ADOLESCENT/YOUNG ADULT INTEGRATED LANGUAGE ARTS ADDITIONAL LICENSURE INTERNSHIP 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within integrated language arts.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 63392 ADOLESCENT/YOUNG ADULT INTEGRATED SOCIAL STUDIES ADDITIONAL LICENSURE INTERNSHIP 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within integrated social studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 63492 ADOLESCENT/YOUNG ADULT INTEGRATED MATHEMATICS ADDITIONAL LICENSURE INTERNSHIP 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within integrated mathematics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 63592 ADOLESCENT/YOUNG ADULT INTEGRATED SCIENCE ADDITIONAL LICENSURE INTERNSHIP 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within integrated science.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 67147 TEACHING ADOLESCENTS IN THE SECONDARY SCHOOL CULTURE 3 Credit Hours
Providing for motivation, discipline and instruction of adolescents within the culture of the secondary school.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 67232 SECONDARY SCHOOL SOCIAL STUDIES 3 Credit Hours
(Cross-listed with ADED 77232) General focus is on examining current instructional and curricular trends in teaching social studies. Emphasis is placed on strategies of teaching developing student's critical thinking skills role of the computer use of primary sources teaching controversial issues and stimulating active citizenship.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 72191 SEMINAR IN SECONDARY EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Cross-listed with ADED 62191) Study and experience of various theoretical and methodological and practical approaches to special problems.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Career and Technical Teacher Education (CTTE)

CTTE 36014 EVALUATION PRACTICES IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Study and construction of evaluation devices for use in laboratory and related technology courses,test construction, standardized and nonstandardized test procedures. This course includes 10 field/clinical hours.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 40093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with CTTE 50093 and CTTE 70093) Topics of special interest to students desiring to intensify their knowledge in a particular area of career technical education.
Prerequisite: Department permission.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 44092 IN-SERVICE TEACHING - PRACTICUM (ELR) 2 Credit Hours
(Slashed with CTTE 54092) This course provides an overview of/and practice in the concepts necessary to plan, organize and implement meaningful instruction in the laboratory and related classroom. The course provides an opportunity for students to apply classroom management skills as they get one-on-one support from the teacher educators.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 36 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CTTE 44099 IN-SERVICE TEACHING - CAPSTONE (ELR) 1 Credit Hour
(Slashed with CTTE 54099) The capstone course provides students an opportunity to demonstrate their knowledge and growth as a career technical education teacher; it essentially provides an opportunity for students to show how they integrate and apply knowledge from their career technical education licensure courses into their responsibilities as teachers. The course will assess the extent to which the students meet the Ohio Standards for the Teaching Profession, through an electronic portfolio and instructional videos from the student as evidence.
Prerequisite: None.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

CTTE 45372 ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS 3 Credit Hours
(Slashed with CTTE 55372) Exploration of issues and trends unique to specific career technical education subjects.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 45377 CAREER AND TECHNICAL EDUCATION: ADVANCED METHODOLOGIES 3 Credit Hours
Selection, organization and presentation of subject matter pertaining to specific subjects in career and technical education. Emphasis on methods and techniques through theory and practice. Course includes 30 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46015 METHODS OF CAREER AND TECHNICAL EDUCATION 3 Credit Hours
(Slashed with CTTE 56015) Organization and management of classroom and laboratory; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46017 STUDENT-CENTERED LEADERSHIP IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Study of the role of leadership and youth organizations in Career Technical Education with emphasis on the organization and purpose of student leadership and the role of the advisor related to leadership in career technical education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46018 DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION (WIC) 3 Credit Hours
(Slashed with CTTE 56018) Developing an understanding of disadvantaged youth stressing their characteristics as they pertain to career technical education program. This course is restricted to Trade & Industrial majors, students registered in the undergraduate Career-Technical Teacher certificate, of those working on a Career-Based Interventnion endorsement.
Prerequisite: Trade and Industrial Education majors or Career-Technical Teacher Education (C205) certificate.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

CTTE 46019 COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS 3 Credit Hours
(Slashed with CTTE 56019) Reviews duties, problems, techniques of home, school and work coordination. Internship site selection, job development, servicing the job station, coordinating classroom and work experience. A study of important linkage to local business/industry and education support agencies for career and technical development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46020 CURRICULUM GUIDE: DESIGN AND APPLICATION 3 Credit Hours
Methods and techniques involved in developing and utilizing a curriculum guide in career and technical education subjects. This course includes 15 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46095 SPECIAL TOPICS IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in career-technical education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CTTE 46096 INDIVIDUAL INVESTIGATION IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CTTE 56096) An individual investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.
Prerequisite: None.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 50093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with CTTE 40093 and CTTE 70093) Topics of special interest to students desiring to intensify their knowledge in a particular area or areas of career technical education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 54092 IN-SERVICE TEACHING - PRACTICUM 2 Credit Hours
(Slashed with CTTE 44092) This course provides an overview of/and practice in the concepts necessary to plan, organize and implement meaningful instruction in the laboratory and related classroom. The course provides an opportunity for students to apply classroom management skills and as they get one-on-one support from the teacher educators.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Standard Letter

CTTE 54099 IN-SERVICE TEACHING - CAPSTONE 1 Credit Hour
(Slashed with CTTE 44099) The capstone course provides students an opportunity to demonstrate their knowledge and growth as a career technical education teacher; it essentially provides an opportunity for students to show how they integrate and apply knowledge from their career technical education licensure courses into their responsibilities as teachers. The course will assess the extent to which the students meet the Ohio Standards for the Teaching Profession, through an electronic portfolio and instructional videos from the student as evidence.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 55372 ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS 3 Credit Hours
(Slashed with CTTE 45372) Exploration of issues and trends unique to specific career-technical education subjects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 55377 CAREER AND TECHNICAL EDUCATION: ADVANCED METHODOLOGIES 3 Credit Hours
(Slashed with CTTE 45377) Selection, organization and presentation of subject matter pertaining to specific subjects in career and technical education. Emphasis on methods and techniques through theory and practice. Course includes 30 field clinical hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56002 IN-SERVICE TEACHING 3 Credit Hours
(Slashed with CTTE 46002) Overview of teaching process in career technical teacher education. Emphasizes techniques of skill development and assessment, includes organizing for instruction, individual behavior, organizational relationships and application steps.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56015 METHODS OF CAREER AND TECHNICAL EDUCATION 3 Credit Hours
(Slashed with CTTE 46015) Organization and management of classroom and laboratory; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56017 STUDENT-CENTERED LEADERSHIP IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Study of the role of leadership and youth organizations in Career Technical Education with emphasis on the organization and purpose of student leadership and the role of the advisor related to leadership in career technical education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56018 DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION 3 Credit Hours
(Slashed with CTTE 46018) Developing an understanding of disadvantaged youth stressing their characteristics as they pertain to career technical education programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56019 COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS 3 Credit Hours
(Slashed with CTTE 46019) Reviews duties, problems, techniques of home, school and work coordination. Internship site selection, job development ,servicing the job station, coordinating classroom and work experience. A study of important linkage to local business/ industry and education support agencies for career and technical development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56020 CURRICULUM GUIDE: DESIGN AND APPLICATION 3 Credit Hours
(Slashed with CTTE 46020) Methods and techniques involved in developing and utilizing a curriculum guide in career and technical education subjects. This course includes 15 field clinical hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56095 SPECIAL TOPICS IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Specialized offerings in response to emerging or selected program needs in career-technical education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CTTE 56096 INDIVIDUAL INVESTIGATION IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CTTE 46096) An individual investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CTTE 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CTTE 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CTTE 66001 PRINCIPLES AND PRACTICES IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Study of principles, current practices and trends relating to modern programs of career technical education and relationships to the total plan of public education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 66003 ANALYSIS OF HUMAN RESOURCE DEVELOPMENT 3 Credit Hours
Provides analysis of human resource development from global,national state and local perspectives including social economic political and emo graphic influences. Includes the application of the contemporary workforce to engage in life long learning to keep career and technical skills updated.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 66004 PROGRAM EVALUATION IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Designed to provide the skills and knowledge necessary to evaluate the effectiveness and efficiency of career-technical education curriculum programs personnel.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 66005 SPECIAL POPULATIONS IN CAREER TECHNICAL EDUCATION 3 Credit Hours
A study of the special populations student in career technical education programs emphasizing characteristics, curriculum modification, instruction and job placement.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 66095 SPECIAL TOPICS IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Specialized offerings in response to emerging or selected program needs in career-technical education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CTTE 66096 INDIVIDUAL INVESTIGATION IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CTTE 76096) An investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 70093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with CTTE 40093 and CTTE 50093) Topics of special interest to students desiring to intensify their knowledge in a particular area or areas of career technical education.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 76095 SPECIAL TOPICS IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Specialized offerings in response to emerging or selected program needs in career-technical education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CTTE 76096 INDIVIDUAL INVESTIGATION IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CTTE 66096) An investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 86098 ADVANCED RESEARCH IN CAREER-TECHNICAL EDUCATION 1-15 Credit Hours
(Repeatable for credit)Student pursues an individual research project on a specialized career technical education topic with approval and under the direction of an instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Curriculum and Instruction (CI)

CI 40093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 50093 and CI 70093)(Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 47095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Repeatable for credit) Topic varies for each offering.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-IP

CI 47096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Repeatable for credit) Student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Kent State faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 47192 STUDENT TEACHING IN CURRICULUM AND INSTRUCTION (ELR) 1-5 Credit Hours
(Repeatable for credit) Student teaching topics vary for each offering.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD 3 Credit Hours
(Slashed with CI 57330) Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments and teaching students who struggle as readers and writers.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 57501) Addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards.
Prerequisite: MATH 14001 or MATH 14002 with a minimum C grade; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47502 SCIENCE TEACHING IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 57502) Addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. Students examine how to best align science practice to state and national standards.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47503 TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 57503) Addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47504 TEACHING READING AND WRITING IN MIDDLE GRADES 3 Credit Hours
(Slashed with CI 57504) Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades 4-9, based on the national content and process standards.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47505 INTEGRATED SOCIAL STUDIES AND SCIENCE 3 Credit Hours
(Slashed with CI 57505) Addresses principles of teaching and learning as applied to teaching social studies and science in elementary and middle grades. Students examine how to best align social studies and science practice with state and national standards.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 50093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 40093 and CI 70093)(Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

CI 50095 SPECIAL TOPICS: SEMINAR/WORKSHOP IN CURRICULUM AND INSTRUCTION 1 Credit Hour
(Repeatable for credit) Topics varies for each offering. Seminar workshop for International Baccalaureate program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 55015 PSYCHOLOGY OF COACHING 3 Credit Hours
(Slashed with PESP 45015) Factors affecting athletic performance emphasizing skill, motivation, personality and practice conditions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 55020 CONTEMPORARY ATHLETIC COACHING 3 Credit Hours
(Slashed with PESP 45020) A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD 3 Credit Hours
(Slashed with CI 47330) Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments, and teaching students who struggle as readers and writers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 47501) Addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57502 SCIENCE TEACHING IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 47502) Addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. Students examine how to best align science practice to state and national standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57503 TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 47503) Addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57504 TEACHING READING AND WRITING IN MIDDLE GRADES 3 Credit Hours
(Slashed with CI 47504) Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades 4-9, based on the national content and process standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57505 INTEGRATED SOCIAL STUDIES AND SCIENCE 3 Credit Hours
(Slashed with CI 47505) Addresses principles of teaching and learning as applied to teaching social studies and science in elementary and middle grades. Students examine how to best align social studies and science practice with state and national standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 60169 UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES 3 Credit Hours
(Slashed with CI 80169) This course is designed to help the general practitioner understand and know foundational concepts about multi-lingual students, immigrants, English Language Learners and their families.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 60171 TEACHING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS 3 Credit Hours
(Slashed with CI 80171) General educators will explore the application of teaching methods and a variety of curriculum approaches for immigrant and bi-literate children, and apply more fully their work with families and communities.
Prerequisite: CI 60169; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CI 60199; and Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 61124 EDUCATING THE GOOD CITIZEN 3 Credit Hours
(Slashed with CI 71124) Course explores the competing conceptions of citizenship education through an examination and critique of the diverse perspectives on the purposes and possibilities of citizenship education—including the contributions and influence of multicultural, international and theoretical perspectives on the meaning of educating citizens in a democracy—situating work, thinking and practice in the literature. As part of the process of reading, discussing and deliberating together, students articulate a rationale for citizenship education and develop ways to incorporate their vision for citizenship education into their work as teacher educators, practicing social studies teachers and/or community members.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 61125 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours
(Slashed with CI 71125) Provides an overview of historical trends and contemporary issues in social studies education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61126 RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING 3 Credit Hours
(Slashed with CI 71126) Students examine, discuss and study research in the teaching and learning of social studies, as well as develop their own study of social studies teaching and learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61127 TECHNOLOGY AND SOCIAL STUDIES 3 Credit Hours
(Slashed with CI 71127) Course provides experiences with and study of various uses of technology in social studies teaching and learning. Students examine implications and effects of technology on student learning, teaching and society as a whole.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61130 MULTICULTURAL EDUCATION: STRATEGIES 3 Credit Hours
(Slashed with CI 71130) Course provides the strategies for teaching children to function effectively in a pluralistic society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61133 ISSUES AND TRENDS IN ELEMENTARY SCIENCE 3 Credit Hours
(Slashed with CI 71133) New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61134 RESEARCH TRENDS IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 71134) Course in issues relating to research methods pertinent to science education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61140 CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 71140) Provides a general introduction to the impacts of multiculturalism and the social studies of science on science education. Implications for science educational curriculum theory, classroom practice and research are explored. Teaching topics examined include race and gender in science education, culture of science and science in a global context.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61141 NATURE OF SCIENCE IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 71141) Course in issues relating to the nature of science as it impacts science education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 62000 PRINCIPLES OF TEACHING WITH DIFFERENTIATION 3 Credit Hours
Principles of teaching adolescents, including designing curriculum, planning instruction, differentiation, assessment, fundamentals of evaluation and reflective practice. Learning experiences focus on preparing teachers for secondary school teaching in diverse settings. Teaching as a profession is explored, including examination of the Ohio licensure code of professional conduct and the Ohio Standards for the Teaching profession. Additionally, the course emphasizes culturally relevant, responsive and sustaining pedagogies. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62001 ASSESSMENT PROCEDURES AND PRAXIS 3 Credit Hours
Students gain an understanding of the complexities of designing, collecting, analyzing and evaluating student performance data. Both formative and summative assessment practices are examined. Additionally, students determine best practices in inference-making based on data and consider pedagogical and evaluative choices that rely on the quality of data that they collect, both from their own design and assessment data from vendors. Students consider how qualitative data about individual learners can be collected and analyzed to strengthen the validity and reliability of the decisions made about learning outcomes. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: CI 62000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62002 CULTURALLY RESPONSIVE CLASSROOM MANAGEMENT PRACTICES 3 Credit Hours
Course explores principles of positive behavior supports and interventions; procedures to promote and practice positive learning interactions; and development of routines that practice social-emotional skill development, including resolution of conflict using restorative practice methods. Additionally, students examine the physical- and psychological-learning environment as a factor in culturally responsive teaching. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62003 LITERACIES IN THE CONTENT AREAS 3 Credit Hours
Student acquire professional knowledge of the nature of literacy as it relates to specific content areas. Students understand the critical role that "literacy - including the interpretation and production of texts and representations - plays as vital to participation and learning in different academic disciplines" (International Literacy Association, 2017). Students develop, implement and reflect on a variety of curricular engagements, instructional strategies and assessment procedures for meeting the literacy needs of diverse students. Additionally, students learn how to plan inquiry-based teaching and learning that employs and extends students' literacy development. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62101 CURRICULUM STUDIES OF SECONDARY ENGLISH LANGUAGE ARTS 3 Credit Hours
Course explores pedagogies of reading and composing with a variety of print and non-print texts. Considers the impact of media upon adolescent culture. Also explores teaching canonical literature and literary theories. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62102 CURRICULUM STUDIES OF SECONDARY MATHEMATICS 3 Credit Hours
Course examines the secondary school mathematics curriculum, textbooks and national standards. Analyzes, implements and evaluates methodology and materials of effective teaching of secondary mathematics. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62103 CURRICULUM STUDIES OF SECONDARY SCIENCE 3 Credit Hours
This course is designed to deepen secondary science teaching through the development of content knowledge, pedagogical knowledge and methodologies appropriate for science learning in secondary school. Students engage in pedagogical analyses and curriculum development related to nature of science; science literacy; conceptual change and student misconceptions; issues-based instruction; problem-based learning; and teaching diverse-learners science concepts. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62104 CURRICULUM STUDIES OF SECONDARY SOCIAL STUDIES 3 Credit Hours
This course is designed to prepare prospective teachers to be purposeful, deliberative decision-makers and reflective practitioners who prepare citizens who contribute to the deepening of democracy and promote the common good. Areas of planning, curriculum, instruction and assessment are examined from a social studies perspective. The goal is to support purposeful social studies teaching and learning that engages students in the learning experiences designed to honor their real-world experiences and prepare them to be agents of change in their school and community. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62121 FOUNDATIONS OF LITERACY AND PHONICS FOR SECONDARY TEACHERS 3 Credit Hours
Course provides professional training in the teaching of the foundations of literacy: word/recognition/decoding, vocabulary, reading fluency and comprehension. Consideration of how struggling adolescent readers development may be assessed followed by how to provide interventions to strengthen literacy skills and strategies. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 63193 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT 1-3 Credit Hours
(Repeatable for credit) Workshop in exercise, leisure and sport. Topics vary. Maximum 4 credit hours applied to the degree.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CI 65025 CONTEMPORARY ISSUES IN SPORT PEDAGOGY - AN INTERNATIONAL PERSPECTIVE 3 Credit Hours
(Slashed with CI 85025) An international perspective on the investigation and study of current problems, issues and trends in sport pedagogy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 65037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours
(Slashed with CI 85037) Course prepares physical education teachers to provide safe, appropriate and individualized accommodations to students with disabilities. All information presented is structured around research-based and cross-culturally appropriate practices in adapted physical education that have been implemented in physical education programs globally.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 65044 PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT 3 Credit Hours
(Slashed with CI 85044) An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 65055 CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY 3 Credit Hours
(Slashed with CI 85055) The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 65592 PRACTICUM IN ADAPTED PHYSICAL EDUCATION 3 Credit Hours
(Repeatable for credit) Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment and individualized task analysis.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

CI 65692 INTERNSHIP IN ATHLETIC COACHING 2-4 Credit Hours
(Repeatable for a maximum of 4 credits) Supervised experience in organized sport focused upon the duties of a coach; can involve one or more level (youth, school, college, professional) and sport. A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society. 45 contact hours per credit. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching-internship will take place.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 67001 FUNDAMENTALS OF CURRICULUM 3 Credit Hours
(Slashed with CI 77001) Orientation to the curriculum field. Theoretical examination of foundations, elements, design and development of school, college and non-school curricula.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67002 CURRICULUM LEADERSHIP 3 Credit Hours
(Slashed with CI 77002) Course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal.
Prerequisite: CI 67001; and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67003 TEACHER EDUCATION 3 Credit Hours
(Slashed with CI 77003) Course provides a broad overview of teacher education, including curriculum, organization, governance and policy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67004 PROFESSIONAL DEVELOPMENT IN TEACHING 3 Credit Hours
(Slashed with CI 77004) Course provides a broad overview and conceptual framework for professional development; its historical, cultural, psychological and social contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING 3 Credit Hours
(Slashed with CI 77005) Course addresses teaching and learning in the intercultural K-16 context. Increasing intercultural interaction in schools and communities across the nation and around the world are prompting educational changes in terms of what is being taught and how it is being taught. Educators at all levels are increasingly being called upon to enhance their own intercultural competence and to consider how best to translate this to students in their charge.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67007 CRITICAL REFLECTION IN CURRICULUM AND INSTRUCTION 2 Credit Hours
Capstone course for a master's degree in curriculum and instruction. Students critique their content area studies with reference to the standard of curriculum-based pedagogy. Three concepts inform this critique: continuing professional development, multicultural education, curriculum leadership for reform and renewal.
Prerequisite: CI 67001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CI 67010 CURRICULUM EVALUATION 3 Credit Hours
(Slashed with CI 77010) Students learn to plan for and use a variety of techniques to gather information in systematic ways, across different phases of curriculum planning, development, implementation and evaluation to enhance decision-making processes. Students develop evaluation questions around a curriculum or program of their choice and then design a detailed evaluation plan.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67091 SEMINAR IN CURRICULUM AND INSTRUCTION 1-4 Credit Hours
(Slashed with CI 87091)(Repeatable for credit) A wide range of topics for advanced graduate inquiry. Normally, course provides a balance of theoretical study and creative application.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

CI 67092 ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION 1-3 Credit Hours
(Repeatable for credit) Supervised practicum in curriculum design, development, implementation and-or leadership. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

CI 67095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 77095)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CI 67096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 67098 RESEARCH IN CURRICULUM AND INSTRUCTION 1-15 Credit Hours
(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 67105 IMPROVING CLASSROOM INSTRUCTION 3 Credit Hours
(Slashed with CI 77105) Emphasizes motivation, varied materials and methods, individual needs and sources of teacher help. Class members define goals and means.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67107 CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES 3 Credit Hours
(Slashed with CI 77107) Course enhances students' knowledge, skills and dispositions about curriculum history and organization of middle schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. In addition, students are able to extend their knowledge, skills, techniques and professional dispositions as related to middle school students' experiences, as well as to differentiate curriculum and assessment for diverse learners.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67108 TEACHING AND LEARNING IN THE MIDDLE GRADES 3 Credit Hours
(Slashed with CI 77108) Course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planning, teaching strategies, assessment, classroom management and effective classroom instructions. In a concurrent clinical field experience, teacher candidates apply teaching methods in intermediate-middle school classrooms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67224 TEACHING MATHEMATICS WITH TECHNOLOGY 3 Credit Hours
(Slashed with CI 77224) Students develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Students develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67225 RESEARCH IN MATHEMATICS EDUCATION 3 Credit Hours
(Slashed with CI 77225) Current research theory, methodology and results in mathematics education are investigated. Implications for instructional practice and curriculum design are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67226 IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD 3 Credit Hours
(Slashed with CI 77226) Instructional psychology and materials, including technology, for the effective teaching of mathematics in grades 3-8, with a theoretical emphasis on cognitive development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67240 INTRODUCTION TO ENVIRONMENTAL EDUCATION 3 Credit Hours
(Slashed with CI 77240) Survey course emphasizes current debates in environmental issues, exploring the interconnectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67292 PRACTICUM IN MATHEMATICAL ASSESSMENT 2 Credit Hours
(Repeatable for credit) Practicum experience in designing and administering both formal and informal assessments.
Prerequisite: Two courses from the following: ADED 52267, CI 67224, CI 67226 and/or ECED 50147; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Standard Letter

CI 67310 THEORY AND PRACTICE IN THE TEACHING OF READING 3 Credit Hours
(Slashed with CI 77310) Nature and development of reading, approaches to instruction, relation to learning and development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67312 TEACHING WRITING AS A PROCESS 3 Credit Hours
(Slashed with CI 77312) Course emphasizes a process approach to writing instruction in grades K-12. Examines the steps and studies of composing, evaluation and components of a school-wide program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67314 SURVEY OF YOUNG ADULT LITERATURE 3 Credit Hours
(Slashed with CI 77314) Presents a survey of selected types of literature appropriate for students in middle school, junior high and high school. Emphasis on evaluating, selecting and teaching.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67319 DIAGNOSIS AND REMEDIATION IN READING 3 Credit Hours
(Slashed with CI 77319) Theory and application of diagnostic principles and remedial reading approaches with school-age children. Cultural, linguistic, cognitive and effective factors in diagnosing and remediating reading problems.
Prerequisite: CI 67310; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67320 TEACHER AS LITERACY RESEARCHER 3 Credit Hours
Capstone experience in master's program in literacy in which students pursue an individualized literacy research program.
Prerequisite: CI 67351 or RMS 65510 or RMS 65511; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67330 READING IN CONTENT AREAS 3 Credit Hours
(Slashed with CI 77330) Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through post-secondary years.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67339 WRITING ASSESSMENT AND RESPONSE 3 Credit Hours
(Slashed with CI 77339) Exploration of issues in writing assessment, theoretical base for effective formative response to student writing and design, and implementation of writing assessment measures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67351 PERSPECTIVES ON LITERACY RESEARCH 3 Credit Hours
(Slashed with CI 77351) Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy.
Prerequisite: Reading Specialization major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67352 LITERACY COACHING 3 Credit Hours
(Slashed with CI 77352) Focus on principles and strategies related to literacy coaching, within classrooms, schools and districts.
Prerequisite: CI 67310 and CI 67319 and CI 67330 and CI 67692 and MCED 50005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67353 MULTICULTURAL VOICES IN TEACHING CHILDREN'S AND YOUNG ADULT LITERATURE 3 Credit Hours
(Slashed with CI 77353) Exploring diverse voices in children's and young adult literature in K-12 literacy classrooms to support culturally responsive teaching and learning and broaden student understandings of diversity.
Prerequisite: Reading Specialization major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67392 ADVANCED PRACTICUM AND INTERNSHIP IN READING 1-10 Credit Hours
(Repeatable for credit) Supervised practicum requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Standard Letter

CI 67395 SPECIAL TOPICS IN READING 1-5 Credit Hours
(Slashed with CI 77395)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in reading.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CI 67396 INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS 1-5 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 67517 NEW LITERACIES IN PRACTICE 3 Credit Hours
(Slashed with CI 87517) Developing technologies are changing the very definition of literacy. Designed to provide an overview of current (and past) theory and practices related to the growing line of inquiry known as new literacies. Participants of the class follow their own paths of inquiry related to the question: How is the definition of literacy changing? Participants engage in discussions of theoretical positions related to this question (from perspectives as new literacies, multi-literacies and arts-based knowing to name a few) as well as encounter the basics of creating a blog or wiki and editing video. Appropriate for any educator who is interested in examining how new literacies are transforming the classrooms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67592 PRACTICUM IN MATHEMATICS EDUCATION INTERVENTION 3 Credit Hours
(Repeatable for credit) Experience in providing leadership in designing intervention programs for schools, and designing curriculum and instruction for individual learners that experience difficulties in learning mathematics.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CI 67692 CLINICAL PRACTICUM IN CORRECTIVE READING 3 Credit Hours
Application of previous courses includes supervised diagnostic/ prescriptive reading work with school-age pupils and diagnostic/remedial reporting.
Prerequisite: CI 67319; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CI 67791 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 70093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 40093 and CI 50093) (Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

CI 71124 EDUCATING THE GOOD CITIZEN 3 Credit Hours
(Slashed with CI 61124) Course explores the competing conceptions of citizenship education through an examination and critique of the diverse perspectives on the purposes and possibilities of citizenship education–including the contributions and influence of multicultural, international and theoretical perspectives on the meaning of educating citizens in a democracy–situating work, thinking and practice in the literature. As part of the process of reading, discussing and deliberating together, students articulate a rationale for citizenship education and develop ways to incorporate their vision for citizenship education into their work as teacher educators, practicing social studies teachers and/or community members.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 71125 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours
(Slashed with CI 61125) Provides an overview of historical trends and contemporary issues in social studies education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71126 RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING 3 Credit Hours
(Slashed with CI 61126) Students examine, discuss and study research in the teaching and learning of social studies, as well as develop their own study of social studies teaching and learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71127 TECHNOLOGY AND SOCIAL STUDIES 3 Credit Hours
(Slashed with CI 61127) Course provides experiences with and study of various uses of technology in social studies teaching and learning. Students examine implications and effects of technology on student learning, teaching and society as a whole.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71130 MULTICULTURAL EDUCATION: STRATEGIES 3 Credit Hours
(Slashed with CI 61130) Course provides the strategies for teaching children to function effectively in a pluralistic society.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71133 ISSUES AND TRENDS IN ELEMENTARY SCIENCE 3 Credit Hours
(Slashed with CI 61133) New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71134 RESEARCH TRENDS IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 61134) Course in issues relating to research methods pertinent to science education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71140 CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 61140) Provides a general introduction to the impacts of multiculturalism and the social studies of science on science education. Implications for science educational curriculum theory, classroom practice and research are explored. Teaching topics examined include race and gender in science education, culture of science and science in a global context..
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71141 NATURE OF SCIENCE IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 61141) Course in issues relating to the nature of science as it impacts science education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 75592 PRACTICUM IN ADAPTED PHYSICAL EDUCATION 3 Credit Hours
(Repeatable for credit) Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment and individualized task analysis.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

CI 77001 FUNDAMENTALS OF CURRICULUM 3 Credit Hours
(Slashed with CI 67001) Orientation to the curriculum field. Theoretical examination of foundations, elements, design and development of school, college and non-school curricula.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77002 CURRICULUM LEADERSHIP 3 Credit Hours
Course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal. It is recommended that students complete CI 77001 or a compatible professional experience with fundamentals of curriculum work is before taking this course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77003 TEACHER EDUCATION 3 Credit Hours
(Slashed with CI 67003) Course provides a broad overview of teacher education, including curriculum, organization, governance and policy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77004 PROFESSIONAL DEVELOPMENT IN TEACHING 3 Credit Hours
(Slashed with CI 67004) Course provides a broad overview and conceptual framework for professional development; its historical, cultural, psychological and social contexts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING 3 Credit Hours
(Slashed with CI 67005) Course addresses teaching and learning in the intercultural K-16 context. Increasing intercultural interaction in schools and communities across the nation and around the world are prompting educational changes in terms of what is being taught and how it is being taught. Educators at all levels are increasingly being called upon to enhance their own intercultural competence and to consider how best to translate this to students in their charge.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77010 CURRICULUM EVALUATION 3 Credit Hours
(Slashed with CI 67010) Students learn to plan for and use a variety of techniques to gather information in systematic ways, across different phases of curriculum planning, development, implementation and evaluation to enhance decision-making processes. Students develop evaluation questions around a curriculum or program of their choice and then design a detailed evaluation plan.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77092 ADVANCED PRACTICUM IN CURRICULUM AND INSTRUCTION 1-3 Credit Hours
(Repeatable for credit) Supervised practicum in curriculum design, development, implementation and-or leadership. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

CI 77095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 67095)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CI 77096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 77105 IMPROVING CLASSROOM INSTRUCTION 3 Credit Hours
(Slashed with CI 67105) Emphasizes motivation, varied materials and methods individual needs and sources of teacher help. Class members define goals and means.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77107 CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES 3 Credit Hours
(Slashed with CI 67107) Course enhances students' knowledge, skills and dispositions about curriculum history and organization of middle schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. In addition, students are able to extend their knowledge, skills, techniques and professional dispositions as related to middle school students' experiences, as well as to differentiate curriculum and assessment for diverse learners.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77108 TEACHING AND LEARNING IN THE MIDDLE GRADES 3 Credit Hours
(Slashed with CI 67108) Course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planing, teaching strategies, assessment, classroom management and effective classroom instructions. In a concurrent clinical field experience, teacher candidates apply teaching methods in intermediate-middle school classrooms.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77224 TEACHING MATHEMATICS WITH TECHNOLOGY 3 Credit Hours
(Slashed with CI 67224) Students develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Students develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77225 RESEARCH IN MATHEMATICS EDUCATION 3 Credit Hours
(Slashed with CI 67225) Current research theory, methodology and results in mathematics education are investigated. Implications for instructional practice and curriculum design are examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77226 IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD 3 Credit Hours
(Slashed with CI 67226) Instructional psychology and materials, including technology, for the effective teaching of mathematics in grades 3-8, with a theoretical emphasis on cognitive development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77240 INTRODUCTION TO ENVIRONMENTAL EDUCATION 3 Credit Hours
(Slashed with CI 67240) Survey course emphasizing current debates in environmental issues, exploring the interconnectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77292 PRACTICUM IN MATHEMATICAL ASSESSMENT 2 Credit Hours
(Repeatable for credit) Practicum experience in designing and administering both formal and informal assessments.
Prerequisite: Two courses from the following: ADED 52267, CI 77224, CI 77226 and/or ECED 50147; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Standard Letter

CI 77310 THEORY AND PRACTICE IN THE TEACHING OF READING 3 Credit Hours
(Slashed with CI 67310) Nature and development of reading, approaches to instruction, relation to learning and development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77312 TEACHING WRITING AS A PROCESS 3 Credit Hours
(Slashed with CI 67312) Course emphasizes a process approach to writing instruction in grades K-12. Examines the steps and studies of composing, evaluation and components of a school-wide program.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77314 SURVEY OF YOUNG ADULT LITERATURE 3 Credit Hours
(Slashed with CI 67314) Presents a survey of selected types of literature appropriate for students in middle school, junior high and high school. Emphasis on evaluating, selecting and teaching.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77319 DIAGNOSIS AND REMEDIATION IN READING 3 Credit Hours
(Slashed with CI 67319) Theory and application of diagnostic principles and remedial reading approaches with school-age children. Cultural linguistic cognitive and affective factors in diagnosing and remediating reading problems.
Prerequisite: CI 77310; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77330 READING IN CONTENT AREAS 3 Credit Hours
(Slashed with CI 67330) Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through post-secondary years.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77339 WRITING ASSESSMENT AND RESPONSE 3 Credit Hours
(Slashed with CI 67339) Exploration of issues in writing assessment, theoretical base for effective formative response to student writing, and design and implementation of writing assessment measures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77351 PERSPECTIVES ON LITERACY RESEARCH 3 Credit Hours
(Slashed with CI 67351) Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy.
Prerequisite: Curriculum and Instruction major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77352 LITERACY COACHING 3 Credit Hours
(Slashed with CI 67352) Focus on principles and strategies related to literacy coaching, within classrooms, schools and districts.
Prerequisite: CI 77310 and CI 77319 and CI 77330 and CI 77692 and MCED 50005; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77353 MULTICULTURAL VOICES IN TEACHING CHILDREN'S AND YOUNG ADULT LITERATURE 3 Credit Hours
(Slashed with CI 67353) Exploring diverse voices in children's and young adult literature in K-12 literacy classrooms to support culturally responsive teaching and learning and broaden student understandings of diversity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77392 ADVANCED PRACTICUM AND INTERNSHIP IN READING 1-10 Credit Hours
(Repeatable for credit) Supervised program requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Standard Letter

CI 77395 SPECIAL TOPICS IN READING 1-5 Credit Hours
(Slashed with CI 67395)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in reading.
Prerequisite: Doctoral standing and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CI 77396 INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS 1-5 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 77592 PRACTICUM IN MATHEMATICS EDUCATION INTERVENTION 3 Credit Hours
(Repeatable for credit) Experience in providing leadership in designing intervention programs for schools, and designing curriculum and instruction for individual learners that experience difficulties in learning mathematics.
Prerequisite: ADED 52267 and CI 77224 and CI 77226 and ECED 50147; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CI 77692 CLINICAL PRACTICUM IN CORRECTIVE READING 3 Credit Hours
Application of previous courses includes supervised diagnostic/prescriptive reading work with school-age pupils and diagnostic/remedial reporting.
Prerequisite: CI 77319; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CI 77791 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 80001 PROSEMINAR IN CURRICULUM AND INSTRUCTION I 3 Credit Hours
The first course in this seminar sequence provides an essential foundation for first-year PhD students, guiding them through the structure, expectations, and resources of the doctoral program. Students will engage with faculty members, gain insights into diverse research areas, and explore opportunities for collaboration within and beyond the program. Through these interactions, students will develop a clearer understanding of their research pathways and the community they are joining. In the second half of the semester, the course shifts focus to introduce foundational scholarly reading and writing skills, equipping students with strategies for analyzing academic texts and managing research literature.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 80090 RESIDENCY II 3 Credit Hours
Advanced doctoral seminar. Structured opportunity for students to synthesize research from the field, explore research options for their dissertation study, review literature for their research studies and discuss the development of their research.
Prerequisite: CI 80089; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

CI 80169 UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES 3 Credit Hours
(Slashed with CI 60169) This course is designed to help the general practitioner understand and know foundational concepts about multi-lingual students, immigrants, English Language Learners and their families.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 80171 TEACHING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS 3 Credit Hours
(Slashed with CI 60171) General educators will explore the application of teaching methods and a variety of curriculum approaches for immigrant and bi-literate children, and apply more fully their work with families and communities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: CI 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 85025 CONTEMPORARY ISSUES IN SPORT PEDAGOGY - AN INTERNATIONAL PERSPECTIVE 3 Credit Hours
(Slashed with CI 65025) An international perspective on the investigation and study of current problems, issues and trends in sport pedagogy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 85037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours
(Slashed with CI 65037) Course prepares physical education teachers to provide safe, appropriate and individualized accommodations to students with disabilities. All information presented is structured around research-based and cross-culturally appropriate practices in adapted physical education that have been implemented in physical education programs globally.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 85044 PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT 3 Credit Hours
(Slashed with CI 65044) An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 85055 CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY 3 Credit Hours
(Slashed with CI 65055) The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87000 THEORY AND RESEARCH IN TEACHING 3 Credit Hours
Focuses on critical study of contrasting approaches to the study of teaching processes. Surveys issues to give students a more critical perspective and to provoke thought about the relationship among theory research and practice.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87001 THEORY AND RESEARCH IN CURRICULUM 3 Credit Hours
Focuses on historic and contemporary examples of curriculum theory and their application in curriculum design, development and evaluation. Examines modes of inquiry used by curriculum researchers and contemporary curriculum issues.
Prerequisite: CI 77001; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87002 FORMS OF INQUIRY IN CURRICULUM AND INSTRUCTION 3 Credit Hours
Introduction to the history, context, philosophy and ethics of inquiry in curriculum and instruction. Emphasis on acquainting students with faculty lines of inquiry and research foci while preparing them for critical consumption of and significant contribution to inquiry in curriculum and instruction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 87091 SEMINAR IN CURRICULUM AND INSTRUCTION 1-4 Credit Hours
(Slashed with CI 87091)(Repeatable for credit) A wide range of topics for advanced graduate inquiry. Normally, course provides a balance of theoretical study and creative application.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

CI 87098 RESEARCH IN CURRICULUM AND INSTRUCTION 1-15 Credit Hours
(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 87340 RESEARCH IN READING 3 Credit Hours
An introduction to a perspective on psychological processes underlying levels of reading from pre-reading to mature reading with implications for instruction.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87342 SEMINAR IN READING AND LANGUAGE 3 Credit Hours
Exploration of some of the issues, methods and findings on the relationship of reading and language. Examination of selected issues such as dialect bilingualism readability language based-strategies for reading instruction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87343 RESEARCH IN TEACHING OF WRITING 3 Credit Hours
Issues and methodologies in research in the teaching of writing. Students review the literature and conduct research in a significant area of writing instruction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87391 SEMINAR IN READING 1-4 Credit Hours
(Repeatable for credit) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 87398 RESEARCH IN READING AND LANGUAGE ARTS 1-15 Credit Hours
(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

CI 87517 NEW LITERACIES IN PRACTICE 3 Credit Hours
(Slashed with CI 67517) Developing technologies are changing the very definition of literacy. Designed to provide an overview of current (and past) theory and practices related to the growing line of inquiry known as new literacies. Participants of the class follow their own paths of inquiry related to the question: How is the definition of literacy changing? Participants engage in discussions of theoretical positions related to this question (from perspectives as new literacies, multi-literacies and arts-based knowing to name a few) as well as encounter the basics of creating a blog or wiki and editing video. Appropriate for any educator who is interested in examining how new literacies are transforming the classrooms.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87791 DOCTORAL SEMINAR IN MATHEMATICS EDUCATION 1-3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Variable content seminar covering mathematics education. Students must seek faculty advisor recommendation prior to registration.
Prerequisite: Curriculum and Instruction major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Early Childhood Education (ECED)

ECED 10120 INTRODUCTION TO EARLY CHILDHOOD SERVICES 1 Credit Hour
Orientation to the field of early childhood education: historical and present day programs and services for young children 0-12. This course provides an overview of early childhood programs and related services for children and their families birth through age 12. The course is intended for early childhood majors as well as those who may be interested in related fields or are undecided.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

ECED 20101 UNDERSTANDING YOUNG CHILDREN'S DEVELOPMENT 3 Credit Hours
Growth and development of young children from birth to age 8 as it occurs along both typical and atypical pathways. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 10120; and special approval.
Pre/corequisite: Minimum C grade in SPED 23000; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

ECED 20102 SOCIAL STUDIES AND THE ARTS IN PRESCHOOL 3 Credit Hours
Young children's development in the expressive arts and social studies; implications for development of the environment and integrated curriculum and teaching methods for preschool children. There are field-based assignments in this course.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 20103 PRESCHOOL TEACHING AND LEARNING 3 Credit Hours
(Equivalent to EYEC 22000) Integrated field-based seminar that gives students a foundation for the ways children learn during the preschool years. This course focuses on the importance of play, guidance of young children, designing quality environments, and authentic documentation and assessment. There are field-based assignments in this course.
Prerequisite: Admission to advanced standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 20105 FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS 3 Credit Hours
(Equivalent to EYEC 21005) Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in preschool classrooms. There are field-based assignments in this course.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

ECED 20163 UNDERSTANDING YOUNG CHILDREN: TYPICAL AND ATYPICAL PATHWAYS 3 Credit Hours
Growth and development of young children from birth to age eight as it occurs along both typical and atypical pathways. Pre/Corequisite: SPED 23000; and admission to advanced study.
Prerequisite: ECED 10120; and special approval.
Corequisite: ECED 30134 and 30164 and 40145.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

ECED 20192 CLINICAL EXPERIENCE IN PRESCHOOL (ELR) 2 Credit Hours
(Equivalent to EYEC 22192) Internship in preschool settings. This is a supervised internship working alongside a preschool teacher in a school/childcare setting. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 14 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 30123 LANGUAGE AND LITERACY FOR THE PRESCHOOL CHILD 3 Credit Hours
(Equivalent to EYEC 22130) An examination of the process of language and literacy development in preschool children. The course focuses on how preschool teachers integrate knowledge of development with early school and family literacy learning.
Prerequisite: Admission to advanced study.
Corequisite: ECED 30142 and ECED 30147 and ECED 40165.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30134 INTEGRATED EXPRESSIVE ARTS AND SOCIAL STUDIES IN PRESCHOOL 3 Credit Hours
Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children.
Prerequisite: Admission to advanced study.
Corequisite: ECED 20163 and ECED 30164 and ECED 40145 (ECED Block I).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30142 PARTNERSHIPS AND GUIDANCE FOR PRESCHOOL CHILDREN 3 Credit Hours
(Equivalent to EYEC 21005) Appropriate guidance strategies set the foundation for positive experiences our youngest children in school; patterns learned early often set a foundation for primary school entry. This course addresses the concerns of guidance family partnerships and inclusive schooling with preschool children and their educators. It takes a proactive stance, helping teachers develop a constructive guidance approach.
Prerequisite: Admission to advanced study.
Corequisite: ECED 30123 and ECED 30147 and ECED 40165.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30144 INTEGRATED CURRICULUM FOR SOCIAL STUDIES 3 Credit Hours
Objectives, resources, curriculum development, methods of teaching social studies and expressive arts at kindergarten and primary levels; emphasis on developing integrated social studies curriculum; infusing multiple forms of expressive arts into integrated curriculum and assessment; and engaging professional collaboration with teachers in the field.
Prerequisite: ECED 30134; and admission to advanced study.
Corequisite: ECED 40142 and ECED 40105 and ECED 40107 and ECED 40123.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30147 EARLY EXPERIENCES IN MATHEMATICS AND SCIENCE 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics and science in preschool settings with a theoretical emphasis on cognitive development.
Prerequisite: MATH 14001 and 14002 with a minimum of a C grade; and admission to advanced study.
Corequisite: ECED 30123 and ECED 30142 and ECED 40165.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30164 PRESCHOOL EDUCATION 3 Credit Hours
Integrated curriculum utilizing principles of developmentally appropriate practice in settings for children under five. Field experience two mornings a week. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Admission to advanced standing.
Corequisite: ECED 20163 and ECED 30134 and ECED 40145 (ECED Block I).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30201 TEACHING EARLY READERS 3 Credit Hours
(Equivalent to EYEC 22130) An examination of the process of languages and literacies development. This course focuses on teaching literacy to preschool and primary age students
Prerequisite: Minimum C grade in the following courses: ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block 2); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30202 MATHEMATICS AND SCIENCE IN THE EARLY YEARS 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics and science in preschool and early primary settings with a theoretical emphasis on cognitive development. Student engagement through authentic, inquiry-based, integrated experiences are explored.
Prerequisite: Minimum C grade in the following courses: ECED 20101, ECED 20102, ECED 20103 and ECED 20105 (Block I); and a satisfactory grade in ECED 20192; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30205 CULTURALLY AND LINGUISTICALLY SUSTAINING PEDAGOGY 3 Credit Hours
(Equivalent to EYEC 22140) This course extends students' knowledge of the application of culturally and linguistically sustaining curriculum for students in preschool and primary years classrooms. This course has a field component attached to it. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Minimum C grade in the following courses: ECED 20101, ECED 20102, ECED 20103, ECED 20105 (Block I); and a satisfactory grade in ECED 20192; admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30292 CLINICAL EXPERIENCE PRIMARY II (ELR) 1 Credit Hour
A structured tutoring experience with K-5 students in collaboration with local schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Minimum C grade in ECED 20101, ECED 20102, ECED 20103 and ECED 20105 (Block I); and a satisfactory grade in ECED 20192; and admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 30392 CLINICAL EXPERIENCE PRIMARY III (ELR) 1 Credit Hour
A structured field experience with K-5 students in collaboration with local schools. Students are assigned a mentor teacher/classroom and participate in all classroom activities at the field site weekly. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Minimum C grade in ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and a satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 40092 INTEGRATED FIELD EXPERIENCES (ELR) 3 Credit Hours
(Repeatable for credit) Participation in experiences offering opportunity to plan and teach reading, language arts, integrated content units and observe students in early childhood classrooms. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Admission to advanced study.
Corequisite: ECED 40114 and ECED 40126 and ECED 40127 and ECED 40147.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 40093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 50093 and ECED 70093) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent early childhood faculty members and may include experts from outside agencies and other institutions.
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 40105 APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN 3 Credit Hours
(Slashed with ECED 50105) An examination of phonics in early reading and writing development, effective strategies for teaching and assessing phonics appropriate for kindergarten and primary grade children.
Prerequisite: ECED 30123; and admission to advanced study.
Corequisite: ECED 30144 ECED 40107 and ECED 40123 and ECED 40142 (Block III).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40107 TEACHING MATHEMATICS: EARLY YEARS I 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-1 with a theoretical emphasis on cognitive development.
Prerequisite: ECED 30147 and MATH 14001 and 14002; and admission to advanced study.
Corequisite: ECED 30144 and ECED 40105 and ECED 40123 and ECED 40142.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40114 TEACHING SCIENCE IN THE EARLY YEARS 3 Credit Hours
(Slashed with ECED 50114) This course investigates engaging young children in inquiry-based processes of science. Emphasis is given to creating developmentally appropriate experiences in accordance to NAEYC guidelines. National and state science standards as well as the college and graduate school of education conceptual framework. Attention is focused on the use of science materials safety planning assessment and incorporating science across the curriculum.
Prerequisite: ECED 30147; and admission to advanced study.
Corequisite: ECED 40126 and ECED 40127 and ECED 40092 and ECED 40147 (Block IV).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS 3 Credit Hours
(Slashed with ECED 50123) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.
Prerequisite: Admission to advanced study.
Corequisite: ECED 30144 and ECED 40105 and ECED 40107 and ECED 40142.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40125 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
Interdisciplinary inquiry into teaching as a professional practice in early childhood education. Completion of K-STEP unit assessment.
Prerequisite: A minimum C grade in the following courses: ECED 40401, ECED 40402, ECED 40403, ECED 40404 and ECED 44444 (Block IV); and a satisfactory grade in ECED 40492; and admission to advanced study.
Corequisite: ECED 40292.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40126 DEVELOPMENTAL READING AND WRITING: EARLY YEARS 3 Credit Hours
(Slashed with ECED 50126) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.
Prerequisite: ECED 40105; and admission to advanced study.
Corequisite: ECED 40092 and ECED 40114 and ECED 40127 and ECED 40147.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40127 DEVELOPING A BALANCED LITERACY PROGRAM (WIC) 3 Credit Hours
This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction.
Prerequisite: ECED 40105; and admission to advanced study.
Corequisite: ECED 40114 and ECED 40126 and ECED 40092 and ECED 40147.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ECED 40142 HOME-SCHOOL-COMMUNITY-PARTNERSHIPS IN DIVERSE CONTEXTS (ELR) 3 Credit Hours
(Slashed with ECED 50142) Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the primary grades.
Prerequisite: Admission to advanced study.
Corequisite: ECED 30144 and ECED 40105 and 40107 and 40123.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, TAG Education

ECED 40145 MUSIC MOVEMENT IN PRE-PRIMARY EDUCATION 3 Credit Hours
(Slashed with ECED 50145) Music and movement for pre-primary children. Course intended for majors in early childhood education or other persons desiring additional work with pre-primary children.
Prerequisite: Admission to advanced study.
Corequisite: ECED 20163 and ECED 30134 and ECED 30164 (ECED Block I).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40147 TEACHING MATHEMATICS:EARLY YEARS II 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-3 with a theoretical emphasis on cognitive development.
Prerequisite: MATH 14001 and 14002 with a minimum C grade; and admission to advanced study.
Corequisite: ECED 40114 and ECED 40126 and ECED 40127 and ECED 40092 (Block IV).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40151 GUIDANCE OF YOUNG CHILDREN 3 Credit Hours
Principles and practices of appropriate guidance for young children, intervention strategies, resources and materials for guidance.
Prerequisite: Admission to advanced study.
Corequisite: ECED 40105 and 40107 and 40142 and CULT 29535.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40165 INTEGRATED APPLICATION OF PRESCHOOL CURRICULUM 3 Credit Hours
(Equivalent to EYEC 22140) Internship in preschool. Advanced integrated preschool curriculum utilizing principles of developmentally appropriate practice focusing on infant toddler and preschool age children.
Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: ECED 30164.
Corequisite: ECED 30123 and ECED 30142 and ECED 30147.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40196 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) Open to seniors in ECED. Intensive individual study on an early childhood topic selected by student and adviser.
Prerequisite: Admission to advanced study; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 40203 CRITICAL INQUIRY: THE INTERNATIONAL BACCALAUREATE FRAMEWORK 3 Credit Hours
(Slashed with ECED 50203) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.
Prerequisite: Minimum C grade in the following courses ECED 20101, ECED 20102, ECED 20103, ECED 20105 (Block I); and satisfactory grade in ECED 20192; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40292 INTERNSHIP IN ELEMENTARY SCHOOLS (ELR) 4-9 Credit Hours
(Repeatable for credit) Internship in grades K-5, full day for 15 weeks.
Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: ECED 40492; and admission to advanced study.
Corequisite: ECED 40125.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ECED 40301 TEACHING SOCIAL STUDIES IN THE ELEMENTARY YEARS 3 Credit Hours
Objectives, resources, curriculum development, and methods of teaching social studies K-fifth grade with an emphasis on developing integrated social studies curriculum and engaging professional collaboration with teachers in the field. Emphasis on non-dominant narratives will be considered. At least one field experience assignment will be integrated in this course.
Prerequisite: Minimum C grade in the following courses: ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40302 TEACHING PHONICS AND WORD STUDY 3 Credit Hours
(Slashed with ECED 50302) An examination of phonics in reading and writing development; effective strategies for teaching and assessing phonics appropriate for K-5 students.
Prerequisite: Minimum C grade in the following courses ECED 20101, ECED 20102, ECED 20103 and ECED 20105 (Block I); and a satisfactory grade in ECED 20192; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40303 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development; application of curriculum planning, teaching strategies, and task analysis. There are field-based assignments in this course.
Prerequisite: Minimum C grade in the following courses: ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40304 TEACHING SCIENCE IN THE ELEMENTARY YEARS 3 Credit Hours
(Slashed with ECED 50304) This course investigates engaging students in inquiry-based science practices and big science ideas. Emphasis is given to creating developmentally appropriate experiences.
Prerequisite: Minimum C grade in the following courses: ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40305 GUIDANCE AND ASSESSMENT: SUPPORTING ALL CHILDREN 3 Credit Hours
This course addresses the complexities of addressing individual student needs within the larger classroom setting. Strategies specific to guidance and assessment are examined to meet social/emotional and cognitive development needs and set the foundation for positive experiences in school. This course highlights a proactive stance, helping teachers develop a constructive guidance approach and meaningful assessment practices. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40401 TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS 3 Credit Hours
This course focuses on the following aspects for the elementary grades: science and social studies content and practices; planning and teaching of science and social studies; and critical literacy and non-dominant narratives. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 30201, ECED 40301, ECED 40303, ECED 40304 and ECED 40305 (Block III); and satisfactory grade in ECED 30392; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40402 TEACHING READERS IN THE ELEMENTARY YEARS 3 Credit Hours
(Slashed with ECED 50402) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.
Prerequisite: ECED 30201 and ECED 40301 and ECED 40303 and ECED 40304 and ECED 40305 (Block III); and satisfactory grade in ECED 30392; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40403 TEACHING WRITERS IN THE ELEMENTARY YEARS (WIC) 3 Credit Hours
This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction. There are field-based assignments in this course.
Prerequisite: ECED 30201 and ECED 40302 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ECED 40404 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 30201, ECED 40301, ECED 40303, ECED 40304 and ECED 40305 (Block III); and satisfactory grade in ECED 30392; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40492 CLINICAL EXPERIENCE PRIMARY IV (ELR) 1 Credit Hour
A structured field experience with K-5 students in collaboration with local schools. Students are assigned a mentor teacher/classroom and participate in all classroom activities at the field site weekly. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Minimum C grade in ECED 30201, ECED 40301, ECED 40303, ECED 40304 and ECED 40305 (Block III); and admission to advanced study.
Corequisite: ECED 44444.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 44444 DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL 3 Credit Hours
Growth and development of children in grades four and five; implications for the application to the intermediate classroom; developmentally-appropriate practices including differentiation; examination of classroom systems and whole-child learning including impacts of trauma and stress. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 30201, ECED 40301, ECED 40303, ECED 40304 and ECED 40305 (Block III); and satisfactory grade in ECED 30392; and admission to advanced study.
Corequisite: ECED 40492.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 40093 and ECED 70093) Variable topic workshop in early childhood education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 50105 APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN 3 Credit Hours
An examination of phonics in early reading and writing development, effective strategies for teaching and assessing phonics appropriate for kindergarten and primary grade children.
Prerequisite: ECED 60167; and Early Childhood Education major; and graduate standing.
Corequisite: ECED 50147, ECED 50114 and ECED 50126.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50114 TEACHING SCIENCE IN THE EARLY YEARS 3 Credit Hours
(Slashed with ECED 40114) This course investigates engaging young children in inquiry-based processes of science. Emphasis is given to creating developmentally appropriate experiences in accordance to NAEYC guidelines. National and state science standards as well as the college and graduate school of education conceptual framework. Attention is focused on the use of science materials safety planning assessment and incorporating science across the curriculum.
Prerequisite: Graduate standing in the Master of Arts in Teaching program.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS 3 Credit Hours
(Slashed with ECED 40123) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.
Prerequisite: ECED 60113 and 60152; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50125 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ECED 40125) Interdisciplinary inquiry into teaching as a professional practice in early childhood education. Completion of a unit wide assessment determined by EHHS teacher education. Corequisites: ECED 67292
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50126 DEVELOPMENTAL READING AND WRITING: THE EARLY YEARS 3 Credit Hours
(Slashed with ECED 40126) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50142 HOME, SCHOOL AND COMMUNITY RELATIONS 3 Credit Hours
(Slashed with ECED 40142) Approaches to parent and community involvement in the education and welfare of children. Understanding of role of community agencies and organizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50145 MUSIC AND MOVEMENT IN PRE-PRIMARY EDUCATION 3 Credit Hours
(Slashed with ECED 40145) Music and movement for pre-primary children. Course intended for majors in early childhood education or other persons desiring additional work with pre-primary children.
Prerequisite: Graduate standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50147 TEACHING MATHEMATICS:EARLY YEARS 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in prekindergarten through grade three with a theoretical emphasis on cognitive development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50203 CRITICAL INQUIRY: THE INTERNATIONAL BACCALAUREATE FRAMEWORK 3 Credit Hours
(Slashed with ECED 40203) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50301 TEACHING SOCIAL STUDIES IN K-5 CLASSROOMS 3 Credit Hours
Social Studies objectives, resources, curriculum development, and methods of teaching K-5 with an emphasis on developing integrated social studies curriculum and engaging professional collaborations with teachers in the field is emphasized. Narratives of diversity and difference with an emphasis upon social justice pedagogies are discussed and described. At least one field based experience assignment will be integrated into teaching and learning in this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50302 TEACHING PHONICS AND WORD STUDY 3 Credit Hours
(Slashed with ECED 40302) An examination of phonics in reading and writing development, effective strategies for teaching and assessing phonics appropriate for K-5 students.
Prerequisite: Early Childhood Education major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50303 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50304 TEACHING SCIENCE IN THE ELEMENTARY YEARS 3 Credit Hours
(Slashed with ECED 40304) This course investigates engaging students in inquiry-based science practices and big science ideas. Emphasis is given to creating developmentally appropriate experiences.
Prerequisite: Majors enrolled in a Master of Arts in Teaching degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50402 TEACHING READERS IN THE ELEMENTARY YEARS 3 Credit Hours
(Slashed with ECED 40402) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.
Prerequisite: ECED 50302 and ECED 60201 with a minimum C grade; and Early Childhood Education within the Master of Arts in Teaching degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50403 TEACHING WRITERS IN THE ELEMENTARY YEARS 3 Credit Hours
This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction.
Prerequisite: ECED 50302 and ECED 60201; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50404 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development. There are field based assignments in this course.
Prerequisite: ECED 50303 and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 54444 DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL 3 Credit Hours
Growth and development of children in grades four and five; implications for the application to the intermediate classroom; developmentally-appropriate practices including differentiation; examination of classroom systems and whole-child learning including impacts of trauma and stress.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60101 CONSTRUCTIVIST TEACHING IN TRADITIONAL AND NON-TRADITIONAL EARLY CHILDHOOD SETTINGS 3 Credit Hours
Theorists and researchers with a constructivist orientation will be examined in relationship to teacher beliefs and diverse settings. The course will focus on constructivist practices emphasizing child sensitive curriculum within traditional (classrooms and schools) and non-traditional settings (museums, forests, etc.).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60102 DEVELOPING A BALANCED LITERACY PROGRAM 3 Credit Hours
An examination of own teaching practice focusing on assessment strategies to inform decision making for individual children and evaluation strategies to fine tune a balanced literacy program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60103 SOCIAL STUDIES AND THE ARTS IN PRESCHOOL 3 Credit Hours
Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60110 TEACHING HUMANITIES: EARLY YEARS 3 Credit Hours
Looking at Humanities through the lens of a young child’s experience in learning with a focus on visual thinking and expression, music and movement.
Prerequisite: Admission to advanced study; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60112 HUMANITIES FOR CHILDREN 2 Credit Hours
(Slashed with ECED 70112) Relevance of humanities as applied to education of young children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECED 60113 PRESCHOOL EDUCATION 3 Credit Hours
(Slashed with ECED 70113) In-depth study of curriculum development in preschool programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60115 SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION 3 Credit Hours
(Cross-listed with MCED 60115) This course introduces early and middle childhood educators to STEM (Science, Technology, Engineering, Mathematics) for students in K-6 classroooms. This includes a foundation and overview of the what, how, and why STEM is included in K-6 classrooms. As a foundations course, students will gain exposure to integrating the STEM disciplines, assessment of mathematics and science in STEM, and aspects of developmentally appropriate STEM for early and middle childhood settings.
Prerequisite: Graduate standing.
Pre/corequisite: ECED 50304.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60116 SCIENCE TECHNOLOGY ENGINEERING AND MATH INQUIRY FOR EARLY CHILDHOOD EDUCATION 3 Credit Hours
This course builds on STEM Foundations for Early Childhood Education. Interdisciplinary teaching of STEM for young children is the main focus, with attention to specific pedagogical applications. Thus, inquiry as a pedagogic approach to STEM application is a central, concurrent feature of this course.
Prerequisite: ECED 60115; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60145 TEACHING SOCIAL STUDIES: EARLY YEARS 3 Credit Hours
Involves the systematic study of the theories, methods, and materials necessary to successfully teach social studies to diverse populations of pre-Kindergarten and elementary school students growing up in a global society. The course will consider aspects of the history of social studies and theory and research in social education as a background for understanding methods and materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60151 SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 70151) Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship making, guidance strategies and interventions, building and facilitating classroom communities and promoting caring classrooms will be the focus of this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60152 APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN 3 Credit Hours
(Slashed with ECED 70152) Examination of theories pertaining to child development which have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60156 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Cross-listed with SPED 63956 and SPED 73956) Issues facing children within family/society; history of early childhood services; theoretical perspectives; implications of childhood disabilities; recommended assessment, intervention and evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM 3 Credit Hours
(Slashed with ECED 70158) Course examines postmodern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60159 FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours
(Cross-listed with SPED 63952) Examines issues facing families and professionals serving young children who are at risk, disabled and typically developing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60160 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours
(Cross-listed with SPED 63955) Overview of typical/atypical development pathways age three to grade three: theories of behavior, implications of atypical development on play/learning; development within ecological framework.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60163 CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 70163) The course is an examination of contemporary issues with young children, families, school communities, and diverse populations detailing the philosophical, social, and political ramifications of the study of children highlighting current research, practices and policies. This course will examine a body of literature, (recent seminal works of impact in early childhood), which encompass a few of the pervasive dilemmas and debates shaping the early childhood field in the U.S. today (with a global international backdrop). International perspectives on issues will be liberally juxtaposed in conjunction with U.S. issues, and overall this course will address how educators have and can structure their practice with various communities to support young children, families, and society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60167 LANGUAGE AND LITERACY:UNDERSTANDING DEVELOPMENT 3 Credit Hours
(Slashed with ECED 70167) The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multi-cultural language. Topics specifically related to classroom teaching include the assessment of language delays and disorders and strategies for connecting oral language to literacy in preschool.
Prerequisite: Graduate standing.
Corequisite: ECED 60152.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60170 WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
The seminar examines publication possibilities within early childhood education. A wide range of writing (e.g., journals, book reviews, training modules-manuals) will be reviewed for topics concerning young children (i.e., education, development, families, care, schools, health, and-or their teachers-providers.) This seminar will rely greatly on student participation for determining topics in support of individual interests, research, teaching practices at the university level, curriculum practices in the early childhood classrooms and settings, and more.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 60201 TEACHING EARLY READERS 3 Credit Hours
An examination of the process of languages and literacies development. This course focuses on teaching literacy to primary age students.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ECED 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 60392 CLINICAL EXPERIENCE PRIMARY III 1 Credit Hour
A structured field experience with K-5 students in collaboration with local schools. Students are assigned a mentor teacher/classroom and participate in all classroom activities at the field site weekly. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 60492 CLINICAL EXPERIENCE PRIMARY IV 1 Credit Hour
A structured field experience with K-5 students in collaboration with local schools. Students are assigned a mentor teacher/classroom and participate in all classroom activities at the field site weekly. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 63333 FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS 3 Credit Hours
Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the primary grades.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 67291 SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours
(Repeatable for credit) (Slashed with ECED 77291) Seminar in early childhood education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECED 67292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours
(Repeatable for credit) (Slashed with ECED 77292) Practicum/internship in early childhood education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 67295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 77295) Special topics in early childhood education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

ECED 67296 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) Individual investigation in early childhood education.
Prerequisite: Graduate standing; and permission.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 67298 RESEARCH IN EARLY CHILDHOOD EDUCATION 1-15 Credit Hours
(Repeatable for credit) Research in early childhood education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 67392 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours
(Repeatable for credit) Practicum/internship in early childhood education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place. The practicum is 50 clock hours per credit hour.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 70093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 40093 and ECED 50093)
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 70112 HUMANITIES FOR CHILDREN 2 Credit Hours
(Slashed with ECED 60112) Relevance of humanities as applied to education of young children.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECED 70113 PRESCHOOL EDUCATION 3 Credit Hours
(Slashed with ECED 60113) In-depth study of curriculum development in preschool programs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70151 SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 60151) Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship- making, guidance strategies and interventions, building and facilitating classroom communities and promoting caring classrooms will be the focus of this course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70152 APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN 3 Credit Hours
(Slashed with ECED 60152) Examination of theories pertaining to child development which have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM 3 Credit Hours
(Slashed with ECED 60158) Course examines postmodern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70163 CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 60163) The course is an examination of contemporary issues with young children, families, school communities, and diverse populations detailing the philosophical, social, and political ramifications of the study of children highlighting current research, practices and policies. This course will examine a body of literature (recent seminal works of impact in early childhood), which encompass a few of the pervasive dilemmas and debates shaping the early childhood field in the U.S. today (with a global international backdrop). International perspectives on issues will be liberally juxtaposed with U.S. issues, and overall this course will address how educators have and can structure their practice with various communities to support young children, families and society.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70167 LANGUAGE AND LITERACY:UNDERSTANDING DEVELOPMENT 3 Credit Hours
(Slashed with ECED 60167) The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multi-cultural language. Topics specifically related to classroom teaching include the assessment of language, delays and disorders and strategies for connecting oral language to literacy in preschool.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70170 WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 60170) The seminar examines publication possibilities within the field of early childhood education. A wide range of writing (e.g., journals, boos reviews, training modules-manuals) will be reviewed for topics concerning young children (i.e., education, development, families, care, schools, health, and-or their teachers providers.) This seminar will rely a great deal on student participation for determining topics in support of individual interests, research, teaching practices at the university level, curriculum practices in the early childhood classrooms and settings and more.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 77291 SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours
(Repeatable for credit) (Slashed with ECED 67291) Seminar in ECED.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECED 77292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours
(Repeatable for credit) (Slashed with ECED 67292) Practicum/ internship in ECED. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 77295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 67295) Special topics in ECED.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

ECED 80291 ADVANCED SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours
(Repeatable for credit) Advanced seminar in ECED.
Prerequisite: Doctoral standing; and permission.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECED 80295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) Special topics in ECED.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

ECED 80298 RESEARCH IN EARLY CHILDHOOD EDUCATION 1-15 Credit Hours
(Repeatable for credit)Research in ECED.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

Educational Technology (ETEC)

ETEC 39525 EDUCATIONAL TECHNOLOGY 3 Credit Hours
Develops knowledge and skills in designing, implementing, and assessing learning experiences, using various digital tools and resources to support teaching, learning and research.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 40093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with ETEC 50093) Variable topic workshop designed to respond to emerging or specialized needs in educational technology.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

ETEC 47400 TRENDS IN EDUCATIONAL TECHNOLOGY 3 Credit Hours
(Slashed with ETEC 57400) This course explores current trends in educational technology and its transformative impact on teaching, learning, and human performance improvement. Students will examine how digital and networked technologies can enhance instructional practices and foster meaningful learning experiences. Through readings, critical analyses of emerging learning tools and interactive projects, students will gain practical experience with current educational technologies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 47403 INSTRUCTIONAL DESIGN 3 Credit Hours
(Slashed with ETEC 57403) Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 47427 TECHNOLOGY AND LEARNING 3 Credit Hours
(Slashed with ETEC 57427) This course provides an overview of major theoretical perspectives and frameworks that have influenced the research and practice of learning and teaching with technology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 47495 SPECIAL TOPICS: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Specialized offering in response to emerging or selected program needs in educational technology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ETEC 47496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with ETEC 40093) Variable topic workshop designed to respond to emerging or specialized needs in educational technology.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

ETEC 57400 TRENDS IN EDUCATIONAL TECHNOLOGY 3 Credit Hours
(Slashed with ETEC 47400) This course explores current trends in educational technology and its transformative impact on teaching, learning and human performance improvement. Students will examine how digital and networked technologies can enhance instructional practices and foster meaningful learning experiences. Through readings, critical analyses of emerging learning tools and interactive projects, students will gain practical experience with current educational technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 57403 INSTRUCTIONAL DESIGN 3 Credit Hours
(Slashed with ETEC 47403) Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 57427 TECHNOLOGY AND LEARNING 3 Credit Hours
(Slashed with ETEC 47427) This course provides an overview of major theoretical perspectives and frameworks that have influenced the research and practice of learning and teaching with technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Students electing to complete a thesis to fulfill the requirements for the Master of Education degree must register for at least one semester of Thesis I.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 60299 THESIS II 2 Credit Hours
(Repeatable for credit) When 6 credits of Thesis I have been complete, students electing to complete a thesis to fulfill the requirements for the Master of Education degree must continue to register each semester for Thesis II until all degree requirements have been completed.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 67402 MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS 3 Credit Hours
(Slashed with ETEC 77402) Provides skills in planning, organizing, administering and evaluating school-based technology and media centers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67410 SIMULATIONS AND GAMES IN EDUCATION 3 Credit Hours
(Slashed with ETEC 77410) Introduction to digital simulations and games as educational tools. Students develop proficiency in applying these tools to learning. Surveys research and design principles and introduces game editors for developing simulations and games.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67411 DESIGNING VISUALS FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 77411) Investigates research in perception and cognition and its influence on principles and best practices in educational visual design. Focuses on the design of educational visuals and media in print, video, and computer-based technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67420 RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY 3 Credit Hours
(Slashed with ETEC 77420) Educational Technology is a broad field that intersects many disciplines and provides numerous opportunities for individuals with varied interests. Having knowledge of the important issues in educational technology research enables students to evaluate both rigor and usefulness of empirical studies in the field of educational technology. This course is designed to explore significant issues in educational technology, including the latest research into how technology can most effectively facilitate learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67425 MANAGING TECHNOLOGICAL CHANGE 3 Credit Hours
(Slashed with ETEC 77425) This course examines how to implement technological change within organizations, with a particular focus on those involved in education, training and performance improvement. As new hardware and software technologies are continually developed and promoted as revolutionary tools for teaching and learning and as innovative instructional strategies emerge that effectively leverage these technologies, organizations face critical decisions. This course addresses key questions, including how to identify the technologies best suited for teaching and learning, how to pinpoint sources of resistance and obstacles to change, and how to design projects that ensure successful technological implementation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67426 MANAGING SCHOOL TECHNOLOGIES 3 Credit Hours
(Slashed with ETEC 77426) Specifically for students interested in working in school settings managing computer labs and school servers and networks. Covers managing aspects of computer hardware, software and updates, and networks.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67432 DESIGNING MULTIMEDIA FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 77432) Application of evidence-based instructional methods to the design, development, and evaluation of multimedia learning materials. Research-based guidelines for multimedia learning that influence learning outcomes. Uses various tools to design and develop multimedia projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67434 EMERGING TECHNOLOGIES FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 77434) Focuses on the theoretical foundations, design, and development of educational delivery systems employing leading-edge and emergent technologies. Includes presentations and activities that employ the technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67435 VIRTUAL AND AUGMENTED REALITY 3 Credit Hours
(Slashed with ETEC 77435) Virtual augmented reality can help provide engaging educational experiences. This course enables students to understand best practices and core guidelines in these technologies. Design principles and software for developing environments are included.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67442 DESIGNING ONLINE AND BLENDED COURSES 3 Credit Hours
(Slashed with ETEC 77442) This course focuses on applying instructional design principles to the development of an online/blended course. Students will follow a structured instructional design process to analyze, design, develop and evaluate an online/blended course relevant to their professional contexts. Students will also use a learning management system (e.g., Canvas, Blackboard, Google Classroom) for delivering their courses.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67444 TEACHING ONLINE AND BLENDED COURSES 3 Credit Hours
(Slashed with ETEC 77444) This course explores pedagogical approaches tailored for online and blended learning, including strategies for facilitating synchronous and asynchronous discussions, embedding assessments, enhancing interactivity, fostering student motivation, supporting peer assessment and feedback, encouraging collaboration and community building and integrating self-directed learning. Students will plan, create, implement and evaluate instructional and motivational activities for online and blended environments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67445 DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS 3 Credit Hours
(Slashed with ETEC 77445) Develop knowledge of the systematic approach to instructional design, the contexts of application of this approach, and the roles of professionals in this field in adapting and applying the process in a flexible and innovative manner, especially to large-scale projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67449 RESEARCH IN ONLINE AND BLENDED LEARNING 3 Credit Hours
(Slashed with ETEC 77449) Online and blended learning offers democratized education and endless opportunities in the fields of education and training because of its accessibility and flexibility. This course serves as an introduction to research and theory in online and blended learning. We will examine major concepts in online and blended learning, theoretical underpinnings of the field, historical foundations and trends, as well as important research paradigms in online and blended learning research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67491 SEMINAR: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with ETEC 77491) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ETEC 67492 PRACTICUM AND PORTFOLIO 3 Credit Hours
Apply knowledge and skills related to the design, development, implementation, management, and evaluation of educational technologies through practical field experience in a school setting or an environment where educational technology services and programs are being used. Create a standards-based online portfolio to demonstrate professional competence and growth.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 67495 SPECIAL TOPICS IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Specialized offering in response to emerging or selected program needs in educational technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ETEC 67496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ETEC 77496) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 67498 INDEPENDENT RESEARCH IN EDUCATIONAL TECHNOLOGY 1-5 Credit Hours
(Repeatable for credit) (Slashed with ETEC 77498) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 3-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 77402 MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS 3 Credit Hours
(Slashed with ETEC 67402) Provides skills in planning, organizing, administering and evaluating school-based technology and media centers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77410 SIMULATIONS AND GAMES IN EDUCATION 3 Credit Hours
Introduction to digital simulations and games as educational tools. Students develop proficiency in applying these tools to learning. Surveys research and design principles and introduces game editors for developing simulations and games.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77411 DESIGNING VISUALS FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 67411) Investigates research in perception and cognition and its influence on principles and best practices in educational visual design. Focuses on the design of educational visuals and media in print, video, and computer-based technology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77420 RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY 3 Credit Hours
(Slashed with ETEC 67420) Educational technology is a broad field that intersects many disciplines and provides numerous opportunities for individuals with varied interests. Having knowledge of the important issues in educational technology research enables students to evaluate both rigor and usefulness of empirical studies in the field of educational technology. This course is designed to explore significant issues in educational technology, including the latest research into how technology can most effectively facilitate learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77425 MANAGING TECHNOLOGICAL CHANGE 3 Credit Hours
(Slashed with ETEC 67425) This course examines how to implement technological change within organizations, with a particular focus on those involved in education, training and performance improvement. As new hardware and software technologies are continually developed and promoted as revolutionary tools for teaching and learning and as innovative instructional strategies emerge that effectively leverage these technologies, organizations face critical decisions. This course addresses key questions, including how to identify the technologies best suited for teaching and learning, how to pinpoint sources of resistance and obstacles to change, and how to design projects that ensure successful technological implementation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77426 MANAGING SCHOOL TECHNOLOGIES 3 Credit Hours
(Slashed with ETEC 67426) Specifically for students interested in working in school settings managing computer labs and school servers and networks. Covers managing aspects of computer hardware, software and updates, and networks.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77432 DESIGNING MULTIMEDIA FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 67432) Application of evidence-based instructional methods to the design, development, and evaluation of multimedia learning materials. Research-based guidelines for multimedia learning that influence learning outcomes. Uses various tools to design and develop multimedia projects.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77434 EMERGING TECHNOLOGIES FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 67434) Focuses on the theoretical foundations, design, and development of educational delivery systems employing leading-edge and emergent technologies. Includes presentations and activities that employ the technologies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77435 VIRTUAL AND AUGMENTED REALITY 3 Credit Hours
(Slashed with ETEC 67435) Virtual augmented reality can help provide engaging educational experiences. This course enables students to understand best practices and core guidelines in these technologies. Design principles and software for developing environments are included.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77442 DESIGNING ONLINE AND BLENDED COURSES 3 Credit Hours
(Slashed with ETEC 67442) This course focuses on applying instructional design principles to the development of an online/blended course. Students will follow a structured instructional design process to analyze, design, develop and evaluate an online/blended course relevant to their professional contexts. Students will also use a learning management system (e.g., Canvas, Blackboard, Google Classroom) for delivering their courses.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77444 TEACHING ONLINE AND BLENDED COURSES 3 Credit Hours
(Slashed with ETEC 67444) This course explores pedagogical approaches tailored for online and blended learning, including strategies for facilitating synchronous and asynchronous discussions, embedding assessments, enhancing interactivity, fostering student motivation, supporting peer assessment and feedback, encouraging collaboration and community building, and integrating self-directed learning. Students will plan, create, implement and evaluate instructional and motivational activities for online and blended environments.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77445 DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS 3 Credit Hours
(Slashed with ETEC 67445) Develop knowledge of the systematic approach to instructional design, the contexts of application of this approach, and the roles of professionals in this field in adapting and applying the process in a flexible and innovative manner, especially to large-scale projects.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77449 RESEARCH IN ONLINE AND BLENDED LEARNING 3 Credit Hours
(Slashed with ETEC 67449) Online and blended learning offers democratized education and endless opportunities in the fields of education and training because of its accessibility and flexibility. This course serves as an introduction to research and theory in online and blended learning. We will examine major concepts in online and blended learning, theoretical underpinnings of the field, historical foundations and trends, as well as important research paradigms in online and blended learning research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77491 SEMINAR: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with ETEC 67491) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ETEC 77492 ADVANCED PRACTICUM AND INTERNSHIP IN EDUCATIONAL TECHNOLOGY 1-10 Credit Hours
Supervised program requiring application of theory to practice in the use of instructional technology directed by a graduate faculty member and a practitioner in the field. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which internship will take place.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3-33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 77495 SPECIAL TOPICS IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Slashed with ETEC 67495) Specialized offering in response to emerging or selected program needs in educational technology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ETEC 77496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ETEC 67496) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 77498 INDEPENDENT RESEARCH IN EDUCATIONAL TECHNOLOGY 1-5 Credit Hours
(Repeatable for credit) (Slashed with ETEC 67498) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 87450 LEARNING WITH EDUCATIONAL TECHNOLOGIES 3 Credit Hours
Provides an overall introduction to research and practice in educational technology at the doctoral level. Includes examination of principles and examples of the effective application of technology to educational settings as well as approaches to research in the field.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Middle Childhood Education (MCED)

MCED 20000 LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION 3 Credit Hours
This course introduces Middle Childhood Education (MCED) teacher candidates to the cultural, community, social, emotional, cognitive, physical and moral development of early adolescents. It offers MCED candidates the opportunity to immerse themselves in a grades 4-9 clinical experience while exploring the experiences of early adolescence.
Prerequisite: CULT 29535.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MCED 30001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I 3 Credit Hours
Examine issues and trends in mathematics and mathematics education. Theories of the teaching and learning of mathematics will be addressed within the context of problem solving, communications, reasoning and connections with other disciplines.
Prerequisite: EPSY 29525; and MATH 14001 and MATH 14002; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 30002 INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD 3 Credit Hours
Introductory methods course integrating social studies and science. Emphasis on principles of teaching and learning as applied to teaching to social issues and problems appropriate for middle childhood students.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 31000 TEACHING AND LEARNING IN MIDDLE CHILDHOOD 3 Credit Hours
This course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planning, teaching strategies, assessment, classroom management, and effective classroom instructions. In a concurrent clinical field experience, teacher candidates will apply teaching methods in intermediate-middle school classrooms. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching internship will take place.
Prerequisite: Admission to advanced study; and middle childhood education major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MCED 40001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II 3 Credit Hours
To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-9 and develop skill in their use.
Prerequisite: MCED 30001; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40002 TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II 3 Credit Hours
This course is designed to provide pre-service teachers with meaningful and practical learning experiences that will prepare them to create effective science learning environments for grade 4-9 students. This course includes 40 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which clinical hours will take place.
Prerequisite: MCED 30002; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40003 TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II 3 Credit Hours
Advanced methods course. Examines the purpose of citizenship education and understanding the role of history and the social sciences. Applying the principles of powerful teaching. Includes a major field experience at the student teaching site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: MCED 30002; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40005 EFFECTIVE USE OF PHONICS IN READING 3 Credit Hours
The influence of theoretical perspectives on word identification instruction, an examination of the role of phonics in reading and writing strategies for effective phonics instruction and assessment.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40006 READING AND WRITING IN MIDDLE CHILDHOOD (WIC) 6 Credit Hours
Understanding of literacy learning in the middle childhood (classrooms grades 4-9) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment and teaching children who struggle as readers.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 6 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MCED 40007 TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD 3 Credit Hours
The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program.
Prerequisite: MCED 40006; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40045 TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5 3 Credit Hours
To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-5 and develop skill in their use.
Prerequisite: ECED 40147 with a minimum grade of C.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 41000 CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD 3 Credit Hours
This course is designed to enhance knowledge, skills, and dispositions about curriculum history and organization of middle level schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. Additionally, this course is also designed to extend knowledge, skills, techniques, and professional dispositions as related to middle school students' experiences, and differentiate curriculum and assessment for diverse learners. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching internship will take place.
Prerequisite: Admission to advanced study; and MCED 31000; and middle childhood education major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MCED 41192 MIDDLE CHILDHOOD EDUCATION GENERALIST PRACTICAL EXPERIENCE (ELR) 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within Middle Childhood Education Science or Social Studies.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MCED 42392 STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR) 9 Credit Hours
(Slashed with MCED 52392) Full-time student teaching for sixteen weeks in two selected concentrations (mathematics, science, language arts, social studies) and reading in grades 4-5 or grades 6-7-8. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: MCED 41000 and MCED 40007; and admission to advanced study.
Corequisite: MCED 49525.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MCED 46645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4 3 Credit Hours
Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 47745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5 3 Credit Hours
Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 49525 INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD 3 Credit Hours
A seminar linked to student teaching with an emphasis on action research as professional development; completion of professional portfolios; professional ethics; and legal, medical and ethical issues in teaching.
Prerequisite: MCED 41000 and MCED 40007.
Corequisite: MCED 42392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50002 TEACHING SCIENCE IN MIDDLE CHILDHOOD II 3 Credit Hours
(Slashed with MCED 40002) This course is designed to provide pre-service teachers with meaningful and practical learning experiences that will prepare them to create effective science learning environments for grade 4-9 students. This course includes 40 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which clinical hours will take place.
Prerequisite: MCED 30002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50003 TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II 3 Credit Hours
Advanced methods course. Examines the purpose of citizenship education and understanding the role of history and the social sciences. Applying the principles of powerful teaching. Includes a major field experience at the student teaching site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.
Prerequisite: MCED 30002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50005 EFFECTIVE USE OF PHONICS IN READING 3 Credit Hours
The influence of theoretical perspectives on word identification instruction, an examination of the role of phonics in reading and writing, strategies for effective phonics instruction and assessment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50006 READING AND WRITING IN MIDDLE CHILDHOOD 6 Credit Hours
Understanding of literacy learning in the middle childhood (classrooms grades 4-9) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment and teaching children who struggle as readers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 6 lecture
Grade Mode: Standard Letter

MCED 50007 TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD 3 Credit Hours
The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program.
Prerequisite: MCED 50006; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50045 TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5 3 Credit Hours
To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-5 and develop skill in their use.
Prerequisite: ECED 40147 with a minimum C grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 52392 STUDENT TEACHING IN MIDDLE CHILDHOOD 9 Credit Hours
(Slashed with MCED 42392) Full-time student teaching for sixteen weeks on an interdisciplinary team in two selected concentrations (mathematics, language arts, social studies, science) and reading in grades 4-9. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Graduate standing.
Corequisite: MCED 59525.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MCED 56645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4 3 Credit Hours
Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 57745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5 3 Credit Hours
Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 59525 INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD 3 Credit Hours
A seminar linked to student teaching with an emphasis on action research as professional development, completion of professional portfolios, professional ethics and legal, medical and ethical issues in teaching.
Prerequisite: CI 67107 and MCED 50007 with a minimum C grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 60115 SCIENCE TECHNOLOGY ENGINEERING AND MATH FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION 3 Credit Hours
(Cross-listed with ECED 60115) This course introduces early and middle childhood educators to STEM (Science, Technology, Engineering, Mathematics) for students in K-6 classrooms. This includes a foundation and overview of the what, how, and why STEM is included in K-6 classrooms. As a foundation course, students will gain exposure to integrating the STEM disciplines, assessment of mathematics and science in STEM, and aspects of developmentally appropriate STEM for early and middle childhood settings.
Prerequisite: ECED 50404 and ECED 50304 and ECED 50303; and graduate standing.
Pre/corequisite: ECED 50203.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Physical Activity, Wellness and Sport (PWS)

PWS 10020 DEVELOPMENT AND CONDITIONING 1 Credit Hour
Introduction to the principles of physical training. Practical application of these principles through a variety of activities.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10035 LIFETIME FITNESS 2 Credit Hours
The role of exercise in enhancing physical fitness. Lectures on principles of planning scientifically sound exercise programs. Laboratory experiences in personal fitness evaluation and exercise routines.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PWS 10036 FITNESS WALKING 1 Credit Hour
Introduction to Fitness Walking as a lifetime physical activity through personal cardiovascular fitness.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10095 SELECTED TOPICS: PHYSICAL EDUCATION ACTIVITIES 1-2 Credit Hours
(Repeatable for credit) Selected and varied topics of relevance in physical education basic instruction.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2-4 lab
Grade Mode: Standard Letter

PWS 10101 SCUBA DIVING 1 Credit Hour
Designed to make students a comfortable and qualified diver, capable of conducting recreational dives to shallow depths and deep water diving. Could lead to certification as a PADI open water diver.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10125 BASKETBALL 1 Credit Hour
The course is designed to give students a basic understanding of how to play the game of basketball through active participation. Students are expected to learn and be able to demonstrate the skills and strategies of the game through various practice and competitive activities. Material is presented through class instruction and handouts.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10204 BADMINTON 1 Credit Hour
Instruction in the skills and techniques of the game of Badminton
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10304 BOWLING 1 Credit Hour
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10305 BILLIARDS 1 Credit Hour
Skills, technique, strategy, game knowledge as introduction to billiards (pool), a 'cue' sport; rules and gaming for variations of pocket billiards; practice and class tournament play.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10306 JOGGING 1 Credit Hour
This course is designed to enhance cardiovascular fitness through jogging and or running. The course will focus on a mixture of training techniques including light jogging and interval type workouts. This course will also include supplemental exercises such as core strengthening and stretching. Students will perform basic calculations to determine target heart rate zones. Students will establish fitness goals and select appropriate activities to attain these goals. Pre and Post assessments will allow students to monitor progress towards their fitness goals.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10403 BEGINNING BALLROOM DANCE 1 Credit Hour
This course is designed for the beginning social dance to learn how to partner dance in a recreational setting. Dances include: Foxtrot, Rhumba, Meringue, Swing, Cha Cha.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10413 LATIN SOCIAL DANCE 1 Credit Hour
Presentation of the DVIDA bronze syllabus for Latin dances. Introduction of Latin rhythm dances, which will include the Merengue, Salsa, Rumba, Cha Cha and Samba. Includes proper technique, rhythm of the dance and approximately 10-15 figures for each dance.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10505 VOLLEYBALL 1 Credit Hour
Introduction to the sport of Volleyball through instruction in individual and team skills, team building and game play.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10604 BEGINNING GOLF 1 Credit Hour
The student will have the opportunity to develop basic golf skills through lectures, demonstration, drills and game play. The student will also gain knowledge of golf etiquette and other areas as related to the game of golf.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10904 TENNIS 1 Credit Hour
You will be exposed to and utilize basic tennis skills, terms, and principles, with an emphasis on skill development and integration of playing tactics and strategies during match play.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10906 RACQUETBALL 1 Credit Hour
Instruction in the skills, techniques and strategies of the game of Racquetball.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11126 FLAG FOOTBALL I 1 Credit Hour
This course is designed to give the students an opportunity to review and practice the basic fundamental skills relative to the game of flag football. Students are expected to be able to demonstrate the skills and strategies of the game through various practice and competitive activities.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11325 ADVANCED ICE HOCKEY 1 Credit Hour
To build on the basic hockey fundamentals, leading to advanced team play and game situations providing deeper insight into the game of hockey.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11327 KETTLEBELLS 1 Credit Hour
A vigorous introductory physical conditioning course primarily utilizing kettlebells. Exercises designed to enhance strength, power, endurance, and agility will be emphasized. Introductory approach to kettlebell techniques and kettlebell program development.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11425 VARSITY SPORTS 1 Credit Hour
(Repeatable for credit) Designed to focus on advanced varsity sport skill development, to promote techniques and strategies to perform at a high level of competition, and to foster ethical values, sportsmanship and responsible citizenship through practices and game competitions. Designed for the student athlete who meets NCAA eligibility requirements.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Satisfactory/Unsatisfactory

PWS 11426 VARSITY SPORT TRAINING AND CONDITIONING 1 Credit Hour
(Repeatable for credit) Designed for sport specific training both in and out of season to produce highly skilled student-athletes through structured programs for immediate performance enhancement and injury prevention and to endure practice and competition. Designed for the student athlete who meets NCAA eligibility requirements.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Satisfactory/Unsatisfactory

PWS 11435 SPORTS CONDITIONING 1 Credit Hour
This course will cover methods and techniques that are used to safely and effectively enhance an individual's athletic performance by increasing speed, strength, endurance, agility and flexibility. This course will cover a variety of training principles, training methods, basic components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle. This course is part theory and part practical application.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11604 BEGINNING KARATE 1 Credit Hour
A karate course designed for students with little or no martial arts or karate experience. This course will involve the training in the philosophy, principles, and techniques of Karate for self-defense, improvement of overall fitness and to give a greater understanding of the art and themselves.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11633 JU JITSU 1 Credit Hour
Presentation of Ju-Jitsu and Judo techniques for use in self-defense. Includes falling, throwing, grappling, bars, locks, strikes, kicks and defends against various weapons.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11634 SELF-DEFENSE 1 Credit Hour
A self-defense course designed for students with little or no martial arts or self-defense background. Physical, verbal, and mental defensive techniques, tactics, and strategies are taught to prepare students for any potentially dangerous situation they may encounter. The course will also improve the student's physical and mental fitness.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11663 BEGINNING YOGA 1 Credit Hour
Overview course in yoga, an integrated study of health. Involves the investigation and practice of breathing techniques (pranayama), hatha yoga postures (asana), meditation and relaxation. Also unifies the mind, body and spirit.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11664 PILATES 1 Credit Hour
Pilates is a form of fitness endeavors which unite the rhythmic performances and strength with the conditioning principles of the movement sciences.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11665 ZUMBA 1 Credit Hour
Zumba® is a fitness program that fuses hypnotic Latin rhythms and easy-to-follow moves and mixes body sculpting movements with dance steps.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11666 BEGINNING SPINNING 1 Credit Hour
The Spinning program is based on two major components: health and fitness. Each of these parts is also related to the concept of mind (the health component) and body (the fitness component), and the overall program design is intended as more than a fitness regimen. It encourages Spinning participants to shift and broaden their perspectives by exposing them to new ideas and a variety of training styles and Energy Zones.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11667 BOOT CAMP I 1 Credit Hour
This course is designed to acquaint students with an exercise program using calisthenics, resistance training, running, and agility drills. The course will focus on increasing physical fitness, including cardiovascular efficiency, muscular strength, and flexibility. Students will also learn the fundamental principles of physical fitness and their effect on lifelong health and fitness.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11673 INTERMEDIATE YOGA 1 Credit Hour
Expansion of Yoga skills, building on knowledge base from Beginning Yoga. Students will explore movement components of anatomy, as related to yoga asanas and understand relationship of asanas to anatomy, creating movement and space.
Prerequisite: PWS 11663.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11674 INTERMEDIATE PILATES 1 Credit Hour
Intermediate Pilates reviews the fundamentals of the beginner class while moving on to the more challenging exercises and repertoire. Students will review and practice correct technique and form for strength, breathing, fluidity, and endurance for mat Pilates. This class is designed for experienced Pilates students.
Prerequisite: PWS 11664.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11675 ZUMBA TONING 1 Credit Hour
Zumba® is a fitness program that fuses hypnotic Latin and International rhythms with easy-to-follow moves and body sculpting movements to create a dynamic workout. The Zumba Toning® program uses hand held weights to enhance rhythm and tone the muscles, specifically arms, thighs, and abdomen. Zumba Toning is an ideal way to sculpt the body.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11684 BALL PILATES 1 Credit Hour
Ball Pilates, "Pilates on an Exercise Ball" is very similar to other Pilates classes in that it incorporates many mat and equipment-based exercises. Adding the ball increases your mind-body awareness, core strength, balance and flexibility as you perform the work on an unstable base of support.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11904 BEGINNING ICE SKATING 1 Credit Hour
This course will give the beginner an introduction to the basic skills of ice skating with a focus on safe technique and the development of the basic skills of ice skating. Students will learn the fundamentals of balance, movement and safety on the ice.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12204 BEGINNING BROOMBALL 1 Credit Hour
Broomball is a recreational ice game played in an ice rink. Skills, tactics and plays are similar to those used in ice hockey.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12324 WEIGHT TRAINING 1 Credit Hour
This course is designed to teach students the correct technique in lifting with machines, free weights and body weight in a safe and effective manner. Students learn scientific methods (macrocycle, mesocycle and microcycle) on how to correctly design a resistance training workout based around desired goals of strength, endurance, hypertrophy, power and speed. Students will be tested on the application of their knowledge by having to design an 8 week training planning with specific training principles used.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12325 WOMEN'S WEIGHT TRAINING 1 Credit Hour
A basic course in the use of equipment in an average weight room and its application towards the development of strength and power.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12424 EXERCISE AND WEIGHT CONTROL 1 Credit Hour
The course aims to educate the student on differing types of exercise styles currently available to assist in living a healthy lifestyle. The student will also learn ideal dietary requirements required to compliment the variety of exercise components. This course will teach how to combine this information to create a nutritional and training plan to meet current goals for this course. Students will pre-test and post-test physical fitness components in order to successfully asses how a change in a nutrition and exercise can contribute to living a healthy lifestyle.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12425 NAUTILUS EXERCISES 1 Credit Hour
This course will cover the proper use and weight training equipment. This course will also cover the instruction of proper weight training techniques for a safe and effective weight training program. Functional training and isolation training will be discussed and practiced, so that the student will benefit from both types of strength training exercises. The course is part theory and part practical application.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13003 DANCE EXERCISE 1 Credit Hour
Dance Exercise is a form of fitness, which unites the rhythmic performance, and energy of dance with the conditioning principles of the movement sciences. In addition to the physical exercise, students will also learn about the basic methodology behind an exercise class, a general history of dance exercise, and its relevance in the fitness industry today. Students should leave the course with knowledge of basic exercise and nutrition principles that can be applied in their personal exercise programs.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13008 INTERMEDIATE VOLLEYBALL 1 Credit Hour
Introduction of advanced playing systems and strategies in volleyball while emphasizing individual skill performance.
Prerequisite: PWS 10505.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13010 JUDO-JUJITSU 1 Credit Hour
Presentation of Jujitsu-Judo techniques for use in self-defense. This will include falling skills, throwing, grappling, come-along, as well as strikes and kicks and defenses against various weapons.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13012 BACKPACKING 2 Credit Hours
Trip planning and leadership, equipment and clothing selection, safety considerations, search and rescue, environmental ethics, map and compass, weekend backpacking trip. Student must supply equipment.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PWS 13016 CYCLING 1 Credit Hour
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13022 CAMPING 2 Credit Hours
Basic camping skills including: toolcraft, ropecraft, fire building, cooking, campsite management, equipment selection, safety considerations, environmental ethics, and map and compass for use on weekend trip. Students must supply own clothing and shelter.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PWS 13028 INTRODUCTION TO KAYAKING 1 Credit Hour
Basic paddling skills learned in a pool environment and then experienced in open lakes and whitewater situations.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13030 BEGINNING ROCK CLIMBING 1 Credit Hour
Basic instruction in safe rope handling, knots, conditioning, climbing technique, belaying, anchor systems and rappelling.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13036 INDOOR CYCLING 1 Credit Hour
Covers the knowledge and skills that are needed for understanding and participating in an indoor cycling program. Also covers the components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13040 CARDIO KICKBOXING 1 Credit Hour
Covers the knowledge and skills that are needed to understand and participate in Cardio Kickboxing. Also covers the components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle. This course is part theory and part practical application.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13041 HARDCORE ABS 1 Credit Hour
Examines methods and techniques that improve abdominal and back strength, mechanics and the ability to dynamically stabilize. The student masters total body movement that occur through all three planes of motion. The exercises are performed on a stable and unstable surface for greater balance challenge. Equipment is used to increase resistance to intensify the work load. Improves core strength and activities of daily living.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13093 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT 1-2 Credit Hours
(Repeatable for credit) Workshop in exercise, leisure and sport activities topics vary.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

Physical Education and Sport Performance (PESP)

PESP 15010 INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT 3 Credit Hours
Development of a knowledge base on the roles, foundations, contextual and social issues, and career opportunities as they relate to physical education, physical activity and sport. Experimentation with various fitness tests and assessments that lead to the development of personal fitness plans.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 15011 DEVELOPMENT AND ANALYSIS OF INVASION GAMES 3 Credit Hours
Development, analysis and assessment of game performance skills used in invasion games.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 15015 DEVELOPMENT AND ANALYSIS OF NET GAMES 3 Credit Hours
Development and analysis of game performance skills in net games. Emphasis on problem solving strategies and skill execution related to game performance and on effective pedagogy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 15016 DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES 3 Credit Hours
Development and analysis of game performance skills used in target games and field-run-score games.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 15018 DEVELOPMENT OF SWIMMING AND AQUATIC SKILLS 1 Credit Hour
Development and analysis of basic aquatic skills, swimming strokes, starts and turns, diving skills, physical fitness principles, aquatic safety and basic rescue techniques.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PESP 15020 FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE 3 Credit Hours
Designed to provide teachers and activity leaders with knowledge, skills, and dispositions necessary to teach developmentally appropriate progressions for fundamental movement skills, dance and gymnastics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 25025 TEACHING IN PHYSICAL EDUCATION 3 Credit Hours
This course aims to introduce students to teaching and management strategies linked to student learning, the design of instructional materials and techniques, and strategies for working with diverse learners in various contexts. This course will study, discuss, and apply effective teaching skills. Thirty field hours at each elementary and secondary level requires a BCII and FBI background check report.
Prerequisite: PESP 15010.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 25026 OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION 3 Credit Hours
An overview of outdoor pursuits and adventure education is provided for students preparing to serve students/clients in physically active, outdoor and adventure contexts. Includes a required service learning component, which involves the design and delivery of quality outdoor education programs and/or curricula to children within the local community.
Prerequisite: School Health Education majors with Health and Physical Education Licensure concentration and Physical Education and Sport Performance majors.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

PESP 25033 LIFESPAN MOTOR DEVELOPMENT 3 Credit Hours
Introduction to motor development across the life span. Special emphasis on description of motor development changes and factors influencing change.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 25056 ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT 3 Credit Hours
This course is designed to provide students with an understanding of the principles and applications of assessment methods in the fields of physical education and sport. Emphasis is placed on the selection, construction, administration, analysis and interpretation of appropriate assessments in a variety of settings, with particular emphasis on using assessments to evaluate learner progress relative to established standards in PE and sport. Throughout the course appropriate technological applications are used to facilitate data collection, management and analysis.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 35010 PSYCHOLOGICAL DIMENSIONS OF MOTOR BEHAVIOR (WIC) 3 Credit Hours
Psychological factors in exercise, physical activity and sport emphasizing motor control learning and performance. Laboratory included.
Prerequisite: EXSC 35068 or PESP 25056; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PESP 35020 FITNESS EDUCATION 3 Credit Hours
This course is designed to prepare teachers, coaches, and physical activity specialists for an interdisciplinary approach to fitness education. Specific emphasis will be placed on enhancing students' content knowledge of fitness and physical activity within a classroom setting as well as applying pedagogical principles of class management, instructional strategies, feedback and assessment in in practical settings to enhance students' ability to teach and coach fitness content within a variety of physical education, sport and physical activity contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 35040 COACHING FOOTBALL 2 Credit Hours
Techniques of coaching football, including film analysis and offensive and defensive skills and systems.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35041 COACHING SOCCER 2 Credit Hours
Coaching soccer, including analysis of skills strategy and administrative responsibilities.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35042 COACHING VOLLEYBALL 2 Credit Hours
Coaching volleyball, including analysis of skills, offensive and defensive strategy and administrative responsibilities.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35044 COACHING BASKETBALL 2 Credit Hours
Philosophy, fundamentals, strategy, administrative responsibilities and conditioning.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35048 COACHING BASEBALL AND SOFTBALL 2 Credit Hours
Coaching techniques in softball and baseball, including analysis of basic skills, position play and offensive and defensive strategies.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35049 COACHING TRACK AND FIELD 2 Credit Hours
Coaching techniques relative to track and field events. Principles of organization for track and field meets.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35084 MOTOR SKILL ANALYSIS 3 Credit Hours
Designed to assist teachers, coaches, and physical activity specialists in the analysis of motor skills. Students study the applications of performance and biomechanical principles to enhance skill and tactical performance in physical activity settings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 45015 PSYCHOLOGY OF COACHING 3 Credit Hours
(Slashed with CI 55015) Psychological factors affecting athletic performance, with particular attention to practice factors, personality, motivation and problem athletes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 45020 CONTEMPORARY ATHLETIC COACHING 3 Credit Hours
(Slashed with CI 55020) A focus on the philosophy, skills strategies and tactics of coaching within contemporary society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 45037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours
This course aims to promote an academic and practical approach to teaching physical education for students with disabilities. A minimum of 30 field hours is required for this course.
Prerequisite: Junior standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours
(Slashed with CI 55051) Approaches to teaching in elementary school physical education. Focus on establishing an environment for learning, planning standards-based lessons, instructional effectiveness, and assessment of student learning. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.
Corequisite: PESP 45053.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours
(Slashed with CI 55053) Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours)
Prerequisite: PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.
Corequisite: PESP 45051.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours
(Slashed with CI 55058) Approaches to teaching in secondary school physical education. Focus on management of the learning environment, planning for learning outcomes in three domains, instructional effectiveness, and sequential curriculum development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.
Corequisite: PESP 45059.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours
(Slashed with CI 55059) Introduction and development of content, standards-based curriculum models, management, and organizational skills related to sports and activities utilized in secondary school physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.
Corequisite: PESP 45058.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45092 INTERNSHIP IN PHYSICAL EDUCATION (ELR) 2-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) Supervised full-time experience providing knowledge of overall operations for an agency or sports program in an approved setting. Forty-five (45) work hours per credit hour.
Prerequisite: Senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PESP 45096 INDIVIDUAL INVESTIGATION IN PHYSICAL EDUCATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours)Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-6 other
Grade Mode: Standard Letter-IP

PESP 45692 INTERNSHIP IN ATHLETIC COACHING (ELR) 2-4 Credit Hours
(Repeatable for a maximum of 4 credit hours) Supervised experience in organized sport focused upon the duties of a coach; can involve one or more level (youth, school, college, professional) and sport. 45 contact hours per credit.
Prerequisite: PESP 45020; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PESP 49525 INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION 3 Credit Hours
(Slashed with PESP 59525) Seminar focused on development of those skills and knowledge which enable future teachers to engage in effective reflective, collaborative and ethical professional practice.
Prerequisite: School Health Education or Physical Education and Sport Performance majors; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 49592 STUDENT TEACHING IN PHYSICAL EDUCATION (ELR) 12 Credit Hours
This experience provides for a full semester of student teaching in a school setting that is taken with PESP 49525 Inquiry into Professional Practice in Physical Education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching will take place.
Prerequisite: School Health Education or Physical Education and Sport Performance majors; and admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 45 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PESP 55051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours
(Slashed with PESP 45051) Approaches to teaching in elementary school physical education. Focus on establishing an environment for learning, planning standards-based lessons, instructional effectiveness, and assessment of student learning. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: Physical Education concentration in the Secondary Education major; and graduate standing; and special approval.
Corequisite: PESP 55053.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 55053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours
(Slashed with PESP 45053) Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: Graduate standing; and special approval.
Corequisite: PESP 55051.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 55058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours
(Slashed with PESP 45058) Approaches to teaching in secondary physical education. Focus on management of the learning environment, planning for learning outcomes in three domains, instructional effectiveness, and sequential curriculum development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: Graduate standing; and special approval.
Corequisite: PESP 55059.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 55059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours
(Slashed with PESP 45059) Introduction and development of content, standards-based curriculum models, management and organizational skills related to sports and activities utilized in secondary school physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: Graduate standing; and special approval.
Corequisite: PESP 55058.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 59525 INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION 3 Credit Hours
(Slashed with PESP 49525) Seminar focused on developing those skills and knowledge that enable future teachers to engage in effective reflective, collaborative and ethical professional practice.
Prerequisite: Physical Education concentration in the Secondary Education major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Sport, Exercise and Performance Psychology (SEPP)

SEPP 20026 PSYCHOLOGICAL FOUNDATIONS OF SPORT AND EXERCISE 3 Credit Hours
Psychological Foundations of Sport and Exercise is an overview of foundational concepts and principles essential to understanding the psychological aspects of sport and exercise. Emphasis is given to psychologically based frameworks and their application to sport; in particular, exercise behavior, performance enhancement, mental skills, health and well-being. Coursework reflects an application of sport and exercise psychology concepts to practitioners in sport-related professions such as coaching, athletic training, sport management, physical education or fitness instruction, among others.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 30019 PSYCHOSOCIAL PERSPECTIVES FOR GROWTH AND DEVELOPMENT IN YOUTH SPORT 3 Credit Hours
This course provides a holistic approach to youth sport participation. Pulling from the most current knowledge and views from a diversity of disciplines the course addresses comprehensive and relevant considerations in the field and brings attention to the influences impacting children and youth participating in a range of sport and performance activities. Knowledge from this course applies to any professional working with children and adolescents, from a leadership standpoint; such as coaches, teachers, dance, music or other instructors of any performance-related activity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 32250 PSYCHOLOGICAL ASPECTS OF SPORT INJURY 3 Credit Hours
This course examines the various factors impacting athletes prior to and after a sport injury occurs. Understanding the relationship between biological, psychological, and social factors is critical to understanding, preventing, and rehabbing from a sport injury. Students will learn more about the consequences of sport injury, various psychological responses to sport injury, and the culture surrounding sport injury for athletes at different levels. In addition, various psychological concepts that can influence rehabilitation from an injury will be explored.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 40020 HIGH PERFORMANCE ATHLETES IN SPORT 3 Credit Hours
(Slashed with SPAD 50020) This course provides an understanding of various aspects of training, coaching, and best practices in working with athletes in a high-performance environment along with an emphasis on the social-psychological factors related to the successful performance of elite level athletes and teams.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 40221 EXERCISE PSYCHOLOGY 3 Credit Hours
(Slashed with SPAD 50221) This course is designed to examine the science and practice of exercise psychology from both a theoretical and applied perspective. Students will be engaged in a comprehensive inquiry into behaviors and lifestyles that influence physical and mental health from physical activity, exercise and psychological lenses. Students will explore topics such as stress, anxiety, cognitive functioning, mood, body image, personality, emotion, and childhood inactivity/obesity as they relate to exercise behaviors and contexts. Students will gain a general understanding of issues in exercise psychology related to theory, practice, and research. In addition, students will develop practical skills to promote exercise adherence and create an exercise intervention program.
Prerequisite: SEPP 20026; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 45007 PRINCIPLES AND APPLICATION OF SPORT PSYCHOLOGY 3 Credit Hours
(Slashed with SPAD 55007) This course encompasses the most current developments in the field of psychology with a strong foundation of the principles of human behavior in the sport and movement sciences. It incorporates sound practical theory with a focus on the application of that knowledge to be readily used by students in a range of sport and movement science careers; such as athletic training, coaching, sport management, consulting, physical education teachers and related areas with the goal to improve the sport performance and experience for all.
Prerequisite: SEPP 20026; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 45092 PRACTICUM IN SPORT PERFORMANCE (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised practical experiences within sport, exercise and performance psychology that are integrated with academic instruction. Forty-five contact hours per credit hour.
Prerequisite: Senior standing; and sport, exercise and performance psychology major or minor; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SEPP 45300 MOTIVATION IN SPORT, PERFORMANCE, AND MOVEMENT SETTINGS 3 Credit Hours
(Cross-listed with SPAD 55300) This course provides an in-depth and wide-ranging look at motivational theories and its application to sport, performance and physical activity. It combines the many theoretical concepts of the diverse frameworks and principles with a survey of motivational interventions performed in the sport domain. Students will leave the class with a rigorous and comprehensive knowledge of constructs, cutting-edge research, effective interventions and future outlook of motivation in sport.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 48225 SPORT PERFORMANCE PSYCHOLOGICAL INTERVENTIONS 3 Credit Hours
(Slashed with SPAD 58225) This course combines the theoretical concepts of sport and performance psychology with applied skill development to enhance performance. Students will gain knowledge of psychological skills training, learn techniques and develop confidence in their skills to work with athletes and performers. The focus of this course is on both, educational psychological interventions for personal development as well as teaching athletes strategies to enhance mental skill. Learning will be done hands-on, via case studies or scenario-based activities. Through the course of this class this course, students will create and present their individual program for an athlete or performer. This course will include learning and understanding the APA/AASP ethics' code to develop awareness of the boundaries of ethical conduct of the profession.
Prerequisite: SEPP 20026; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Education - Minor

College of Education Health and Human Services
www.kent.edu/ehhs

About This Program

The Education minor allows students pursuing a major other than teacher education to prepare for public school teaching. The minor provides the professional coursework necessary for graduates to seek an Ohio teaching license.

Contact Information

- **Jennifer Walthon-Fisette** | jfisette@kent.edu | 330-672-0230
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Accreditation

Council for the Accreditation of Educator Preparation

Admission Requirements

Admission to the minor is selective, open only to students who have a minimum 2.500 overall GPA and are declared in a program area for which the state of Ohio issues a teaching license. Those majors at Kent State are the following: Biology; Spanish; Mathematics; Earth Science; American Sign Language; Classics (Latin concentration); Teaching English as a Second Language; French; and German.

The Education minor does not provide preparation for teacher licensure in English or individual social science areas (e.g., economics, geography, history, political science, psychology or sociology). Students wishing to pursue licensure in one of those areas should declare, instead, the Integrated Language Arts or Integrated Social Studies major. Students should contact a college advisor for more information.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.500 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
Secondary Student Teaching Requirement		9
Students in a Foreign Language Major		
MCLS 40692	STUDENT TEACHING OF A SECOND LANGUAGE (ELR)	
Students in Teaching English as a Second Language Major		
ENG 41392	STUDENT TEACHING (ELR)	
Inquiry into Professional Practice Requirement		3
Students in a Foreign Language Major		
MCLS 40525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	
Students in Teaching English as a Second Language Major		
ENG 41525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	
Methods Requirement		6
Students in a Foreign Language Major		
MCLS 30660	ORIENTATION TO SECOND LANGUAGE PEDAGOGY (min C grade)	
MCLS 40660	METHODS OF TEACHING FOREIGN LANGUAGE (min C grade)	
Students in Teaching English as a Second Language Major		
ENG 31007	PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE (min C grade)	
ENG 41003	LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT (min C grade)	
Additional Courses		9
Students in a Foreign Language Major		
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES (min C grade)	
MCLS 40654	TECHNOLOGY AND SECOND LANGUAGE ACQUISITION (min C grade)	
PSYC 40461	PSYCHOLOGY OF LANGUAGE (min C grade)	
Students in Teaching English as a Second Language Major		
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade)	
ENG 31005	CHILD SECOND LANGUAGE ACQUISITION (min C grade)	
ENG 41192	ESL PRACTICUM IN A P-12 SETTING (ELR) (min C grade)	
HDF 34031	CULTURAL DIVERSITY: IMPLICATIONS FOR THE HELPING PROFESSIONS	
or MCED 40005	EFFECTIVE USE OF PHONICS IN READING	
or RMS 45610	CLASSROOM ASSESSMENT	
Minimum Total Credit Hours:		**42**

Progression Requirements

- Students must meet all professional requirements for admission to advanced study.
- To manage enrollment and deliver high-quality programs, the faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University; non-academic criteria and other specific program criteria.
- Please be aware that reapplication may be necessary if postponing advanced study coursework or if withdrawn for one year or more.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.500

- Based on program requirements, credits may exceed the minimum required for the minor. When a difference exists between the two colleges' major requirements in teaching fields, students must also complete the specific major sequences required by the College of Education, Health and Human Services. This ensures that the students will meet licensure requirements.
- Those pursuing an Education minor must be admitted to advanced study prior to student teaching. For complete student teaching information, refer to the Clinical Experience/Student Teaching website through EHHS Vacca Office of Student Services.
- Minimum 2.500 overall GPA and 2.500 major GPA are required for advanced study, student teaching, graduation and licensure. All courses in the minor must be completed with a minimum C or S grade. Some majors may have a higher GPA required, see advisor.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with their content standards.
6. Demonstrate knowledge and skills identified in CAEP Standards.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity
- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:
  - MATH 14001 (or equivalent)
  - MATH 14002
- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following courses (i.e., both courses must be completed with a minimum C grade for graduation):
  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration (minimum C grade) to be eligible for advanced study. Students should meet with their advisor.
- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science,

Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.

- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas: pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

School of Foundations, Leadership and Administration

College of Education Health and Human Services
School of Foundations, Leadership and Administration
300 White Hall
Kent Campus
330-672-2012
www.kent.edu/ehhs/fla

Undergraduate Programs

- Hospitality and Event Management - B.S.
- Professional Studies - B.S.
- Recreation, Park and Tourism Management - B.S.
- Sport Administration - B.S.

Minors

- Disability Studies and Community Inclusion
- Esports
- Event Planning
- Hospitality and Event Management
- Park Management
- Recreation Management
- Sport Administration
- Tourism Management

Graduate Programs

- Cultural Foundations - M.A.
- Cultural Foundations - M.Ed.
- Cultural Foundations - Ph.D.
- Educational Leadership K-12 - M.Ed.
- Educational Leadership K-12 - Ed.S.
- Educational Leadership K-12 - Ph.D.
- Higher Education Administration - Ph.D.
- Higher Education Administration and Student Affairs - Ed.S.
- Higher Education Administration and Student Affairs - M.Ed.
- Hospitality and Tourism Management - M.S.
- Interprofessional Leadership - Ed.D.
- Research, Measurement and Statistics - M.Ed.
- Research, Measurement and Statistics - Ph.D.
- Sport Administration - M.A.

Certificates

Undergraduate Certificates

- Event Management
- Hospitality Management

Graduate Certificates

- Career and Academic Advising
- College Teaching
- Community College Leadership
- Disability Studies and Community Inclusion
- Institutional Research and Assessment
- Internationalization of Higher Education
- Ohio Superintendent's Licensure
- Qualitative Research

Licensure/Endorsement Programs - Non-Degree

Graduate

- Principal Grades 4-9 Licensure Preparation
- Principal Grades 5-12 Licensure Preparation
- Principal Grades PK-6 Licensure Preparation

School of Foundations, Leadership and Administration Faculty

- Boske, Christa A. (2008), Professor, Ed.D., Northern Illinois University, 2006
- Chuang, Ning Kuang (2005), Associate Professor, Ph.D., Texas Tech University, 2005
- Clark, Debra L. (1995), Professor, Ph.D., Kent State University, 2003
- Damrow, Amy (2014), Associate Professor, Ph.D., Michigan State University, 2011
- Daniels, Michael A. (2024), Assistant Professor, Ph.D., Kent State University, 2022
- Dees, David M. (1991), Associate Professor, Ph.D., Kent State University, 2000
- Devine, Mary Ann (1997), Professor, Ed.D., University of Georgia, 1997
- Eckert, Erica L. (2003), Assistant Professor, Ph.D., Kent State University, 2012
- Eith, Andrew S. (2014), Associate Lecturer, New England Culinary Institute, 2013
- Hall, Kayon (2022), Assistant Professor, Ph.D., Michigan State University, 2021
- Hudson, Tara D. (2017), Associate Professor, Ph.D., North Carolina State, 2015
- Israeli, Aviad A. (2020), Professor, Ph.D., Kent State University , 1997
- Kosmidis, Aryn C. (2010), Associate Professor, Ph.D., The Ohio State University, 2010
- Lee, Kiwon (2017), Associate Professor, Ph.D., Penn State University, 2013
- Lepp, Andrew P. (2004), Professor, Ph.D., University of Florida, 2004
- Levinson, Natasha (1997), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 2001
- Li, Ji-Ann (2012), Professor, Ph.D., The Ohio State University, 2012
- Lyberger, Mark R. (1996), Professor, Ph.D., The Ohio State University, 1996
- Mulrooney, Aaron L. (1992), Associate Professor, J.D., University of Akron, 1990
- Niesz-Kutsch, Tricia (2004), Professor, Ph.D., University of Pennsylvania, 2003
- Parr, Mary G. (1992), Professor, Ph.D., University of Illinois-Urbana, Champaign, 1992
- Porter, Christa J. (2017), Associate Professor, Ph.D., University of Georgia, 2013
- Pringle, Eboni J. (1998), Assistant Professor, Ph.D., Kent State University, 2014
- Ray-Tomasek, Jennifer L. (1998), Associate Professor, Ph.D., Kent State University, 2004
- Sambolin Morales, Astrid N. (2022), Assistant Professor

- Schenker, Jason D. (2000), Professor, Ph.D., Kent State University, 2007
- Walton-Fisette, Theresa A. (2003), Professor, Ph.D., University of Iowa, 2002
- Wang, Philip C. (1990), Associate Professor, Ph.D., Pennsylvania State University, 1991
- Yim, Hyong Il (2015), Associate Professor, Ph.D., University of Georgia, 2015

Cultural Foundations (CULT)

CULT 10001 EXPLORING THE VALUE OF DIVERSITY: FINDING YOURSELF AND APPRECIATING DIFFERENCE IN OTHERS 1 Credit Hour

This course will focus on introducing lower-division students to the concept of self-identity development and how place-, cultural- and self-identity influences one's perceptions and assumptions of others who may not share similar experiences. Students will explore and reflect on their personal identity and how their race/ethnicity, beliefs, personality, expressions and cultural practices influence their perceptions of diverse populations; they will also explore the complexity of diversity in the United States and actively consider their place and role in our diverse society, as adults.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CULT 20091 PREPROFESSIONAL SEMINAR IN EDUCATIONAL STUDIES 2-4 Credit Hours

(Repeatable for credit) Introduction to the nature and scope of educational service delivery across settings, and to the social and cultural foundations of educational policies and programs. Open to any university student and to those considering alternative careers in education.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 2-4 other
Grade Mode: Standard Letter

CULT 26001 INTRODUCTION TO DISABILITY STUDIES 3 Credit Hours

Interdisciplinary exploration of conceptual theoretical, philosophical and legal aspects related to inclusion of individuals with disabilities in community life.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY 3 Credit Hours

This introductory course explores the purposes, organizations and outcomes of schooling from the perspectives of the field of social foundations of education. Candidates undertake critical inquiry into teaching as a profession. Licensure requirements, teachers' legal responsibilities and the accountability of public schools are also explored.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Education, TAG Education

CULT 39595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 2-4 Credit Hours

(Repeatable for credit) Directed reading and/or research of special interest or need to small groups of students in cultural foundations. Planned with and directed by a faculty member.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter-IP

CULT 39596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student program. Planned with and directed by a faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 40093 VARIABLE TITLE WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours

(Repeatable for credit) (Slashed with CULT 50093 and CULT 70093) Variable topics; designed to respond to specialized needs of various groups within the context of trends issues and problems in the educational foundations disciplines.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

CULT 46001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION 3 Credit Hours

(Slashed with CULT 56001 and CULT 76001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal considerations to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life.
Prerequisite: CULT 26001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 49570 SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION 3 Credit Hours

Explores the history, social context, and issues in multicultural education (formal PK-12) in the U.S. Students gain an appreciation of the challenges of equalizing opportunity of educational achievement, an understanding that is essential for 21st century educational leadership.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 50093 VARIABLE TITLE WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours

(Repeatable for credit) (Slashed with CULT 40093 and CULT 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

CULT 56001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION 3 Credit Hours
(Slashed with CULT 46001 and CULT 76001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal consideration to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 59570 SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION 3 Credit Hours
Explores the history, social context, and issues in multicultural education (formal PK-12) in the U.S. Students gain an appreciation of the challenges of equalizing opportunity of educational achievement, an understanding that is essential for 21st century educational leadership.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60011 SEMINAR IN EDUCATIONAL FOUNDATIONS: PRINCIPLES AND PRACTICES 3 Credit Hours
Through this course, students will learn about the field of social foundations of education and about the program. Students will be introduced to university and college resources that will help them find success in the program. They will also begin using perspectives from the field of social foundations of education to identify and explore problems of practice in their communities and their educational and cultural organizations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60030 SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY 3 Credit Hours
(Slashed with CULT 80030) The course will explore contemporary social contexts of education through the lenses of major sociological perspectives, including seminal theoretical works and emerging contemporary scholarship. Students will become familiar with the uses of classic and current sociological theories in order to understand contemporary educational issues.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60040 APPROACHES TO COMMUNITY ENGAGED INQUIRY 3 Credit Hours
(Slashed with CULT 80040) This course will focus on methods, tools and practices to engage in collaborative research/inquiry with communities, including non-profits, schools, families and/or practice settings (i.e., research with communities rather than about communities). Discussions and assignments will prompt students to identify research questions and appropriate methods to answer the questions. Students will also address issues of ethics, relationship-building and trust.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60050 HUMANITIES-ORIENTED RESEARCH IN EDUCATION 3 Credit Hours
(Slashed with CULT 80050) Course is designed to give students an understanding of humanities-oriented approaches to research in education. This includes disciplinary approaches to the study of education (philosophy, history, literary theory) as well as humanities oriented theoretical work in the social sciences. Students will develop facility with key concepts as well as approaches to method and research design within these approaches.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 60199 THESIS I 2-6 Credit Hours
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met. Graduate standing.
Prerequisite: CULT 60199.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 65530 FOUNDATIONS OF EDUCATION AND HUMAN SERVICES 3 Credit Hours
Inquiry into the assumptions and implications of educational policies and practices in education and human service settings through the application of historical, philosophical and sociological perspectives.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 67015 DISABILITY, SOCIETY AND CULTURE 3 Credit Hours
(Slashed with CULT 77015) Provides students with the learning outcomes related to the cultural, political and social perspectives of disability. It will prepare students to have an in-depth global understanding of the nature, meaning and consequences of disability as it relates to social and environmental justice and barriers they experience. Perspectives will be examined through several theoretical lenses for greater understanding of the breadth of marginalization experienced by persons with disabilities. The course will culminate in identifying steps to address barriers in multiple contexts, decrease stigmas and promote greater societal inclusion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69510 CLASSICS IN PHILOSOPHY OF EDUCATION 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with CULT 79510) Philosophical exploration of the relationship between education and society and the dynamics of education through close reading and discussion of a selection of influential philosophical texts.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69521 MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY 3 Credit Hours
Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69522 ETHICS IN PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with CULT 89522) An examination of ethics in schooling and other educational settings through foundational study and issue analysis; strong case study and professional application emphasis.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69530 MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION 3 Credit Hours
(Slashed with CULT 79530) An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69560 CONTEMPORARY PHILOSOPHY OF EDUCATION 3 Credit Hours
(Repeatable for credit) (Slashed with CULT 79560) Explores a range of contemporary philosophical perspectives on the moral and political dimensions of education. Students will be introduced to the philosophical frameworks through which these questions are discussed within the field of philosophy of education and they will have opportunity to engage these debates in the course of carefully structured writing assignments.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69564 HISTORY OF AMERICAN EDUCATION 3 Credit Hours
(Cross-listed with CULT 79564) European origins and American innovations in colonial education, rise of common school, completion of education ladder. Emphasis is on present status and recent developments.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69567 HISTORY OF HIGHER EDUCATION 3 Credit Hours
(Slashed with CULT 79567) (Cross-listed with HIED 66600 and HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American Higher Education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69569 INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES 3 Credit Hours
(Slashed with CULT 79569) An introductory seminar to explore current foundational issues and challenges in education worldwide (nonformal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69570 MULTICULTURAL EDUCATION: THEORY AND POLICY 3 Credit Hours
(Slashed with CULT 79570) Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69571 GLOBALIZATION AND EDUCATION 3 Credit Hours
(Slashed with CULT 79571) A multi-disciplinary exploration of the impact of globalization/localization on the delivery and uses of education and the dynamics of power and resistance in globalized education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69575 ANTHROPOLOGY AND EDUCATION 3 Credit Hours
(Slashed with CULT 79575) Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographies, students explore the myriad ways in which "culture" has been theoretically conceptualized as well as the implications of those conceptualizations for educational inquiry and practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69582 SOCIAL THEORIES IN EDUCATION 3 Credit Hours
(Slashed with CULT 89582) This course examines both classic and contemporary social theories in education. Students will become familiar with different social theories, specifically focusing on strengths and limitations of various theoretical approaches. Students will also analyze the role social theories have had upon educational research, and examine different conceptual issues within various social theoretical traditions.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69591 SEMINAR IN CULTURAL FOUNDATIONS 1-5 Credit Hours
(Repeatable for credit) (Slashed with CULT 89591) Variable topic seminar for advanced study of specialized topics and areas; in cultural foundations; emphasis on theory and research findings as related to educational practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

CULT 69592 ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS 2-6 Credit Hours
(Repeatable for credit) (Slashed with CULT 89592) Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 69595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 1-3 Credit Hours
(Repeatable for credit) (Slashed with CULT 89595) Specific topic course offering in response to emerging student or program needs in cultural foundations of education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CULT 69596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours
(Repeatable for credit) (Slashed with CULT 89596) Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 69598 RESEARCH IN CULTURAL FOUNDATIONS 1-6 Credit Hours
(Repeatable for credit) (Slashed with CULT 89598) Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 69691 VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION 3 Credit Hours
(Repeatable for credit) (Slashed with CULT 89691) This course explores a great idea in education from multiple disciplinary perspectives (philosophical, sociological, historical) and looks at the ways in which the idea in question has shaped or could transform educational practice at multiple levels.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 69999 CAPSTONE 3 Credit Hours
In this course, students complete a culminating project for their M.Ed. degree. Each student's project will address a problem of practice within a cultural or educational organization that they have investigated in partnership with stakeholders.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

CULT 70093 VARIABLE TOPIC WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours
(Repeatable for credit) (Slashed with CULT 40093 and CULT 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. May be repeated once for total maximum credit of six hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

CULT 76001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION 3 Credit Hours
(Slashed with CULT 46001 and CULT 56001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal consideration to making adaptations and accommodations. Students complete a service-learning component that focuses on inclusion of people with disabilities in community life.
Prerequisite: CULT 77015; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 77015 DISABILITY, SOCIETY AND CULTURE 3 Credit Hours
(Slashed with CULT 67015)To provide students with the learning outcomes related to the cultural, political, and social perspectives of disability. It will prepare students to have an in-depth global understanding of the nature, meaning and consequences of disability as it relates to social and environmental justice and barriers they experience. Perspectives will be examined through several theoretical lenses for greater understanding of the breadth of marginalization experienced by persons with disabilities. The course will culminate in identifying steps to address barriers in multiple contexts, decrease stigmas and promote greater societal inclusion.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79510 CLASSICS IN PHILOSOPHY OF EDUCATION 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with CULT 69510) Philosophical exploration of the relationship between education and society and the dynamics of education through close reading and discussion of a selection of influential philosophical texts.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79530 MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION 3 Credit Hours
(Slashed with CULT 69530) An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79560 CONTEMPORARY PHILOSOPHY OF EDUCATION 3 Credit Hours
(Repeatable for credit) (Slashed with CULT 69560) Explores a range of contemporary philosophical perspectives on the moral and political dimensions of education. Students will be introduced to the philosophical frameworks through which these questions are discussed within the field of philosophy of education and they will have opportunity to engage these debates in the course of carefully structured writing assignments.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79564 HISTORY OF AMERICAN EDUCATION 3 Credit Hours
(Slashed with CULT 69564) European origins and American innovations in colonial education, rise of common school, completion of education ladder. Emphasis is on present status and recent developments.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79567 HISTORY OF HIGHER EDUCATION 3 Credit Hours
(Slashed with CULT 69567) (Cross-listed with HIED 66600 and HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American Higher Education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79569 INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES 3 Credit Hours
(Slashed with CULT 69569) An introductory seminar to explore current foundational issues and challenges in education worldwide (nonformal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability. Gaining a broad understanding of the place of education in a rapidly changing world is essential for 21st century educational leadership and the formation of constructive policies for the future of both developed and developing countries.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79570 MULTICULTURAL EDUCATION: THEORY AND POLICY 3 Credit Hours
(Slashed with CULT 69570) Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79571 GLOBALIZATION AND EDUCATION 3 Credit Hours
(Slashed with CULT 69571) A multi-disciplinary exploration of the impact of globalization/localization on the delivery and uses of education and the dynamics of power and resistance in globalized education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 79575 ANTHROPOLOGY AND EDUCATION 3 Credit Hours
(Slashed with CULT 69575) Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographies, students explore the myriad ways in which "culture" had been theoretically conceptualized, as well as the implications of those conceptualizations for educational inquiry and practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 80030 SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY 3 Credit Hours
(Slashed with CULT 80030) The course will explore contemporary social contexts of education through the lenses of major sociological perspectives, including seminal theoretical works and emerging contemporary scholarship. Students will become familiar with the uses of classic and current sociological theories in order to understand contemporary educational issues.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 80040 APPROACHES TO COMMUNITY ENGAGED INQUIRY 3 Credit Hours
(Slashed with CULT 60040) This course will focus on methods, tools and practices to engage in collaborative research/inquiry with communities, including non-profits, schools, families and/or practice settings (i.e., research with communities rather than about communities). Discussions and assignments will prompt students to identify research questions and appropriate methods to answer the questions. Students will also address issues of ethics, relationship-building and trust.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 80050 HUMANITIES-ORIENTED RESEARCH IN EDUCATION 3 Credit Hours
(Slashed with CULT 60050) Course is designed to give students an understanding of humanities-oriented approaches to research in education. This includes disciplinary approaches to the study of education (philosophy, history, literary theory) as well as humanities oriented theoretical work in the social sciences. Students will develop facility with key concepts as well as approaches to method and research design within these approaches.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CULT 80091 SEMINAR: GREAT ISSUES IN EDUCATION 1-3 Credit Hours
(Repeatable for credit) Interdisciplinary review of current great issues in education that are catalogs for presentation after discussion with membership of the course.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

CULT 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: CULT 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 85535 INTERPROFESSIONAL STUDIES 3 Credit Hours
Comprehensive analysis of issues affecting professional practice in education and human service resource settings. Examination of questions related to interprofessional collaboration on policy, research and practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89521 MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY 3 Credit Hours
Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89522 ETHICS IN PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with CULT 69522) An examination of ethics in schooling and other educational settings through foundational study and issue analysis; strong case study and professional application emphasis.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89571 COMPARATIVE AND INTERNATIONAL EDUCATION 3 Credit Hours
Comparative analysis of contemporary educational policies and structures in large-and small scale societies throughout the world.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89581 PROSEMINAR IN CULTURAL FOUNDATIONS 3 Credit Hours
Doctoral seminar to familiarize Ph.D. students with cultural and social foundations of education as a field of study so that they may locate their inquiry within the relevant knowledge base and academic disciplines that comprise the cultural foundations of education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89582 SOCIAL THEORIES IN EDUCATION 3 Credit Hours
(Slashed with CULT 69582) This course examines both classic and contemporary social theories in education. Students will become familiar with different social theories, specifically focusing on strengths and limitations of various theoretical approaches. Students will also analyze the role social theories have had upon educational research, and examine different conceptual issues within various social theoretical traditions.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CULT 89591 SEMINAR IN CULTURAL FOUNDATIONS 1-5 Credit Hours
(Repeatable for credit) (Slashed with CULT 69591) Variable topic seminar for advanced study of specialized topics and areas in cultural foundations; emphasis on theory and research findings as related to educational practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

CULT 89592 ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS 2-6 Credit Hours
(Repeatable for credit) (Slashed with CULT 69592) Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 89595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 1-3 Credit Hours
(Repeatable for credit) (Slashed with CULT 69595) Specific topic course offering in response to emerging student or program needs in cultural foundations of education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CULT 89596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours
(Repeatable for credit) (Slashed with CULT 69596) Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 89598 RESEARCH IN CULTURAL FOUNDATIONS 1-6 Credit Hours
(Repeatable for credit) (Slashed with CULT 69598) Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CULT 89691 VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION 3 Credit Hours
(Repeatable for credit) (Slashed with CULT 69691) This course explores a great idea in education from multiple disciplinary perspectives (philosophical, sociological, historical) and looks at the ways in which the idea in question has shaped or could transform educational practice at multiple levels.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Educational Leadership K-12 (EDLE)

EDLE 40093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with EDLE 50093 and EDLE 70093)
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

EDLE 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with EDLE 40093 and EDLE 70093) Variable title workshop in educational administration.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

EDLE 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: EDLE 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 66492 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 3-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EDLE 76492) A field-based internship utilizing an inquiry-based learning model, requiring projects as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 66515 FACILITIES PLANNING AND ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 76515) Overview of facilities planning and administration, including architectural/ construction management, the educational program, restoration and maintenance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66517 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION 3 Credit Hours
(Slashed with EDLE 76517) Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state and national level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66518 SCHOOL AND SPECIAL EDUCATION LAW 3 Credit Hours
(Slashed with EDLE 76518) Constitutional, statutory, and case law involving schools, special and regular education students, administrators, parents and others are studied.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66520 SCHOOL LAW FOR TEACHERS AND PRINCIPALS 3 Credit Hours
(Slashed with EDLE 76520) Selected principles of constitutional, statutory case and common law affecting the administration of schools generally and Ohio schools specifically.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66522 PUBLIC SCHOOL FINANCE AND ECONOMICS 3 Credit Hours
(Slashed with EDLE 76522) Analysis of national, state and local problems of collection custody and expenditure of public school funds.
Prerequisite: EDLE 66526; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66525 THE EDUCATIONAL PRINCIPALSHIP 3 Credit Hours
(Slashed with EDLE 76525) Organizing and administering elementary, middle level and secondary schools.
Prerequisite: EDLE 66526 or EDLE 76526; 16 hrs of EDLE; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66526 FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 76526) Examines theory and practice essential for administration. Skills and understanding are developed in theory goal setting staff development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66527 SCHOOL FINANCE FOR BUILDING ADMINISTRATORS 3 Credit Hours
(Slashed with EDLE 76527) Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process and fund raising and school groups.
Prerequisite: Major in Educational Leadership K-12, Higher Education Administration and Student Affairs or Higher Education Administration; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66529 LEADING FOR SOCIAL JUSTICE 3 Credit Hours
(Slashed with EDLE 76529) Centers on investigating a broad research agenda on leading for social justice within educational leadership. Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century schools. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary schools.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

EDLE 66531 INSTRUCTIONAL LEADERSHIP 3 Credit Hours
(Slashed with EDLE 76531) Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

EDLE 66533 CENTRAL OFFICE ADMINISTRATION: CURRICULUM AND PUPIL SERVICES 3 Credit Hours
(Slashed with EDLE 76533) Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 66534 THE SUPERINTENDENCY 3 Credit Hours
(Slashed with EDLE 76534) Focuses on major responsibilities of board of education and superintendent.
Prerequisite: EDLE 66526 or EDLE 76526; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66536 THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT 3 Credit Hours
(Slashed with EDLE 76536) Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district school classroom curriculum.
Prerequisite: Major in Educational Leadership K-12, Higher Education Administration and Student Affairs or Higher Education Administration; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66538 ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORMS 3 Credit Hours
(Slashed with EDLE 76538) Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micropolitics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 66540 WOMEN IN LEADERSHIP 3 Credit Hours
(Slashed with EDLE 76540) An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66542 PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION 3 Credit Hours
(Slashed with EDLE 76542) Principles and techniques needed by administrative specialists and supervisors (curriculum, pupil services, special education) are given. Research findings include changing human relations, change leadership, legal implications, group process, communication, coordination, management, observations, and conferencing skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66543 SCHOOL ADMINISTRATION IN URBAN SETTINGS 3 Credit Hours
(Slashed with EDLE 76543) This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city schools. Issues of focus include transportation, staffing, extracurricular support for students and more.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66544 COMMUNITY RELATIONS AND COMMUNICATION SKILLS 3 Credit Hours
(Slashed with EDLE 76544) Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 66591 SEMINAR IN EDUCATIONAL ADMINISTRATION 1-4 Credit Hours
(Repeatable for credit) Seminar in educational administration.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

EDLE 66595 SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with EDLE 76595) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EDLE 66596 INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION 2-4 Credit Hours
(Repeatable for credit) (Slashed with EDLE 76596) Projects as assigned.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 66598 RESEARCH IN EDUCATIONAL ADMINISTRATION 2-8 Credit Hours
(Repeatable for credit) Projects as assigned.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 66602 TECHNOLOGY LEADERSHIP IN EDUCATION 3 Credit Hours
(Slashed with EDLE 76602) Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tools for teaching, learning, assessment, management, planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.25 lecture, .75 other
Grade Mode: Standard Letter

EDLE 66747 PERSONNEL 3 Credit Hours
(Slashed with EDLE 76747) Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities and development of evaluation techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66750 COACHING AND MENTORING FOR TEACHER LEADERS 3 Credit Hours
Focuses on developing the knowledge, skills, and dispositions necessary for teacher leaders to provide high levels of effective coaching and mentoring for improving teaching practices and learning for all students. Specific approaches related to mentoring, coaching and per assistance will be examined and practiced.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 66751 INSTRUCTIONAL LEADERSHIP FOR TEACHER LEADERS 3 Credit Hours
This course provides the tools that teacher leaders need to engage in the development, production, monitoring and evaluation of instructional methods and strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 70093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with EDLE 40093 and EDLE 50093) Variable title workshop in EDAD.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

EDLE 76492 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 3-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EDLE 76492) A field-based internship utilizing an inquiry-based learning model, requiring projects as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 76515 FACILITIES PLANNING AND ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 66515) Overview of facilities planning and administration, including architectural/ construction management, the educational program, restoration and maintenance.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76517 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION 3 Credit Hours
(Slashed with EDLE 66517) Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state, and national level.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76518 SCHOOL AND SPECIAL EDUCATION LAW 3 Credit Hours
(Slashed with EDLE 66518) Constitutional, statutory, and case law involving schools, special and regular education students, administrators, parents and others are studied.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76520 SCHOOL LAW FOR TEACHERS AND PRINCIPALS 3 Credit Hours
(Slashed with EDLE 66520) Selected principles of constitutional, statutory, case and common law affecting the administration of schools generally and Ohio schools specifically.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76522 PUBLIC SCHOOL FINANCE AND ECONOMICS 3 Credit Hours
(Slashed with EDLE 66522) Analysis of national, state and local problems of collection custody and expenditure of public school funds.
Prerequisite: EDLE 76526; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76525 THE EDUCATIONAL PRINCIPALSHIP 3 Credit Hours
(Slashed with EDLE 66525) Organizing and administering elementary, middle level and secondary schools.
Prerequisite: EDLE 66526 or EDLE 76526; 16 credit hours of EDLE; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76526 FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 66526) Examines theory and practice essential for administration. Skills and understanding are developed in theory goal setting staff development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76527 SCHOOL FINANCE FOR BUILDING ADMINISTRATORS 3 Credit Hours
(Slashed with EDLE 66527) Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process, and fund raising and school groups.
Prerequisite: Major in Educational Leadership K-12 or Higher Education Administration; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76529 LEADING FOR SOCIAL JUSTICE 3 Credit Hours
(Slashed with EDLE 66529) Centers on investigating a broad research agenda on leading for social justice within educational leadership. Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century schools. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary schools.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

EDLE 76531 INSTRUCTIONAL LEADERSHIP 3 Credit Hours
(Slashed with EDLE 66531) Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

EDLE 76533 CENTRAL OFFICE ADMINISTRATION 3 Credit Hours
(Slashed with EDLE 66533) Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 76534 THE SUPERINTENDENCY 3 Credit Hours
(Slashed with EDLE 66534) Focuses on major responsibilities of board of education and superintendent.
Prerequisite: EDLE 66526 or EDLE 76526; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76536 THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT 3 Credit Hours
(Slashed with EDLE 66536) Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district/school/classroom curriculum.
Prerequisite: Major in Educational Leadership K-12; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76538 ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORM 3 Credit Hours
(Slashed with EDLE 66538) Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micropolitics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 76540 WOMEN IN LEADERSHIP 3 Credit Hours
(Slashed with EDLE 66540) An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76542 PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION 3 Credit Hours
(Slashed with EDLE 66542) Principles and techniques needed by administrative specialists and supervisors (curriculum, pupil services, special education) are given. Research findings include changing human relations, change leadership, legal implications, group process, communication, coordination, management, observations, and conferencing skills.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76543 SCHOOL ADMINISTRATION IN URBAN SETTINGS 3 Credit Hours
(Slashed with EDLE 66543) This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city schools. Issues of focus include transportation, staffing, extracurricular support for students and more.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 76544 COMMUNITY RELATIONS AND COMMUNICATION SKILLS 3 Credit Hours
(Slashed with EDLE 66544) Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1.75 lecture, 1.25 other
Grade Mode: Standard Letter

EDLE 76595 SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with EDLE 66595) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EDLE 76596 INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION 2-4 Credit Hours
(Repeatable for credit) (Slashed with EDLE 66596) Projects as assigned.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 76602 TECHNOLOGY LEADERSHIP IN EDUCATION 3 Credit Hours
(Slashed with EDLE 66602) Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tools for teaching, learning, assessment, management, planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.25 lecture, .75 other
Grade Mode: Standard Letter

EDLE 76747 PERSONNEL 3 Credit Hours
(Slashed with EDLE 66747) Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities and development of evaluation techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EDLE 80080 DISSERTATION PREPARATION SEMINAR 3 Credit Hours
Gain an in-depth understanding of the dissertation-writing process. Complete a dissertation proposal.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: EDLE 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EDLE 86591 SEMINAR IN EDUCATIONAL ADMINISTRATION 1-4 Credit Hours
(Repeatable for credit) Seminar in EDAD.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

EDLE 86598 RESEARCH IN EDUCATIONAL ADMINISTRATION 2-8 Credit Hours
(Repeatable for credit) Projects as assigned.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 2-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Higher Education (HIED)

HIED 46525 CAREERS IN HIGHER EDUCATION 3 Credit Hours
Familiarize students with the history of higher education; philosophies of higher education, financial, legal and political issues facing higher education; and the careers available in colleges and universities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 60093 VARIABLE TOPIC WORKSHOP IN HIGHER EDUCATION ADMINISTRATION 1-6 Credit Hours
(Slashed with HIED 70093) Variable topics; designed to respond to specialized needs of various groups with the contexts of trends, issues and problems in the various higher education disciplines.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66492 INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION 3-6 Credit Hours
(Slashed with HIED 76492)(Repeatable for a maximum of 12 credit hours) Field-based internship, minimum 150 clock hours, as approved by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66521 EMPLOYMENT LAW 3 Credit Hours
(Slashed with HIED 76521) Study of public and private sector bargaining law and all terms and conditions of employment.
Prerequisite: Higher education administration and student affairs; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66558 ADVANCED EDUCATIONAL LEADERSHIP 3 Credit Hours
(Slashed with HIED 86558) Course provides the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research writing and teaching skills# to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers.
Prerequisite: HIED 66657; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66592 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours
(Repeatable for credit) (Slashed with HIED 76592) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.
Prerequisite: At least 12 hours in higher education; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66594 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours
(Repeatable for credit) (Slashed with HIED 76594) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.
Prerequisite: At least 12 hours in higher education; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66595 SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 76595)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66596 INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HIED 76596) Individual projects as agreed upon by the instructor and student.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66598 RESEARCH IN HIGHER EDUCATION ADMINISTRATION 2-8 Credit Hours
(Repeatable for credit) Projects as assigned.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 66600 HISTORY OF HIGHER EDUCATION 3 Credit Hours
(Cross-listed with CULT 69567 and CULT 79567)(Slashed with HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American higher education from the 17th through the 20th century. Students explore changes in student body curricula and purposes of higher education in the United States in the context of American culture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66601 THE PRIVATE LIBERAL ARTS COLLEGE 3 Credit Hours
(Slashed with HIED 76601) Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions as well as the nature of specific examples of institutions.
Prerequisite: Higher education administration and student affairs major; and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66651 STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76651) Study of the history, philosophy, practices and organization of student affairs functions in higher education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66652 LAW AND HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76652) Provides for the examination of major legal aspects of the administration of institutions of higher learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66653 COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE 3 Credit Hours
(Slashed with HIED 76653) Study of theories concerning the development of college students and other adults, and the principles for translating theory into practice. Ed or Ed.S. Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Prerequisite: M.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66654 STUDENTS AND THE COLLEGE ENVIRONMENT 3 Credit Hours
(Slashed with HIED 76654) Study of the impact of different types of students and college environments on each other and within the context of a changing society.
Prerequisite: HIED 66653; and graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66655 CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 76655) Study of management responsibilities and leadership issues of student affairs administrators.
Prerequisite: HIED 66652 and HIED 66653 and HIED 66657; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66656 HIGHER EDUCATION CURRICULUM 3 Credit Hours
(Slashed with HIED 76656) Introduces perspectives on curriculum development, implementation and assessment in higher education. Course addresses theoretical, historical, political and contemporary perspectives on higher education curriculum.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66657 LEADERSHIP IN EDUCATION ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 76657) By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness. Ed or Ed.S. Higher Education Administration and Student Affairs major or Sport Administration major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education.
Prerequisite: M.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66658 THE COMMUNITY COLLEGE 3 Credit Hours
(Slashed with HIED 76658) A study of the foundations, structure, programs and issues of community college education in the United States.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66660 FACULTY ROLES AND RESPONSIBILITIES 3 Credit Hours
(Slashed with HIED 76660) A study of faculty roles and responsibilities in American higher education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66662 POLITICS AND POWER IN ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 76662) Course is designed to provide a conceptual framework for understanding the multifaceted processes of policy-making that take place in both internal and external settings in organizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66663 STATUS OF WOMEN IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76663) Provides a comprehensive overview of the historical, contemporary and scholarly perspectives on women students, faculty, administrators and staff. Students explore why and how women and men experience higher education differently, by drawing on scholarly contributions, feminist theoretical and research perspectives and historical, cultural and psychological contexts. The course considers how the context, recognition of power, other dimensions of identities and desire to change society and the academy have fueled and shaped feminist study of the history and condition of women in higher education. Students explore these issues through various media, and they also have the opportunity to investigate a real-life problem of their choice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66665 TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 76665) Exploration of technology, systems and data analysis essential to the practice of higher education administration. Students examine and apply tools used for the organization, analysis and dissemination of information, including, but not limited to, ERP systems, learning management systems, web applications for data collection and office productivity software. Students perform tasks typically requested of administrators related to budget or workload management, managing lists and or rosters, exploring trend data for decision-making and generating charts, tables and other data for reporting needs. Survey design and construction using online applications are a significant component of this course. It is strongly advised that students taking the course have moderate experience with office productivity software.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66666 FINANCIAL MANAGEMENT IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76666) Course covers financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66667 BUSINESS ADMINISTRATION IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76667) Course introduces students to the administrative and business management of institutions of higher education. Covers topics on institutional planning, space management, insurance matters, personnel administration and purchasing and facility management.
Prerequisite: HIED 66657; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66669 ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76669) Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66670 INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS 3 Credit Hours
(Slashed with HIED 76670) Students study the historical and current development of the internationalization of higher education institutions. They explore higher education administrative leadership characteristics; social, political and economic factors; and national and international relationships that have affected various countries and regions. They also examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions. Ed or Ed.S. Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Prerequisite: M.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66671 THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76671) Course covers racial, ethnic and inclusive diversity and multiculturalism in U.S. higher education settings. Diversity is discussed from a historical perspective, providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; curriculum and pedagogy matters; research issues; law and policy issues; and strategic planning for institution diversity in higher education.
Prerequisite: Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66672 INTERNATIONAL STUDENTS AND AMERICAN COLLEGES 3 Credit Hours
(Slashed with HIED 76672) Course bridges theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level.
Prerequisite: Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66673 RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76673) Examines and analyzes research related to higher education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad is discussed thoroughly.
Prerequisite: Higher education administration and student affairs major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66674 COMPARATIVE HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76674) Students learn the differences between comparative, international and cross-border education. They reflect on how the U.S. higher education system grew out of specific historical, cultural and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate.
Prerequisite: Higher education administration and student affairs major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66675 DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS 3 Credit Hours
(Slashed with HIED 76675) Students examine the many critical aspects of designing, planning and implementing an education abroad program. Students analyze components an education abroad program and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities and safety issues. Students also develop skills in conducting needs assessments and program evaluations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66676 INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS 3 Credit Hours
(Slashed with HIED 76676) Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyze cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning (particularly in higher education contexts) are reviewed, with implications for program design in education abroad, work with international students and other international education contexts.
Prerequisite: Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66677 WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES 3 Credit Hours
(Slashed with HIED 76677) Course examines the role of the community college in workforce, economic and community development and within the context of social, economic and technology shifts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66678 ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION 3 Credit Hours
(Slashed with HIED 76678) Course addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66679 CAREER ADVISING: THEORY AND PRACTICE 3 Credit Hours
(Slashed with HIED 76679) Develop practical skills in providing developmentally appropriate theory based academic and career advising to assist individuals in adding meaningful and purposeful work into their lives.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIED 66680 ADMINISTRATION OF CAREER AND ADVISING SERVICES 1 Credit Hour
(Slashed with HIED 76680) Examines contemporary issues in administration of career and academic advising services. Challenges students to rethink the models and methods used to prepare individuals to enter the workforce and navigate their careers.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HIED 66681 ADMINISTRATION OF ADVISING SERVICES 3 Credit Hours
(Slashed with HIED 76681) Examines contemporary issues in administration of academic advising services. Challenges students to rethink models and methods used to prepare individuals to enter the workforce and navigate their careers.
Prerequisite: HIED 66653; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66733 INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 76733) Students working in task groups learn about interpersonal, group and inter-group dynamics in organizations through lectures, discussions and analysis of their in-group experiences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66745 EQUITY, JUSTICE AND U.S. HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76745) Examines issues of equity and justice in the U.S. higher education, including historical origins, access to higher education, students' experiences within colleges and universities and outcomes of higher education. Course also focuses on the role of higher education as a social institution, including higher education as a public good and the intersection of higher education with current social issues such as labor and free speech.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66749 ASSESSMENT AND ACCREDITATION IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 76749) Course provides an understanding of current assessment and evaluation methods in higher education settings. Topics span from individual course assessment through institutional accreditation processes.
Prerequisite: Higher Education Administration and Student Affairs majors or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, Internationalization of Higher Education or Institutional Research and Assessment.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66755 ADMINISTRATION OF INTERCOLLEGIATE ATHLETICS 3 Credit Hours
(Slashed with HIED 86755) The purpose of this course is to analyze the various administrative roles in intercollegiate athletics within the context of higher education and examine the theory and practice associated with academic integrity and student-athlete wellbeing. In addition, this course will provide an overview of "best practices" pertaining to institutional control as governed by national, conference and institutional regulations.
Prerequisite: Higher Education Administration and Student Affairs major; and graduate standing.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 66789 PLANNING AND IMPLEMENTING STUDY ABROAD WHILE STUDYING ABROAD 3 Credit Hours
(Slashed with HIED 76789) Students learn the principles and practice of designing and delivering effective study- abroad programs through Kent State locations. Students observe summer programs; study the principles of developing effective study abroad experiences; and meet with university program officials, faculty, facility support staff, private third-party providers of study abroad and the community, in addition to such onsite support services as legal advisors, health professionals and housing offices.
Prerequisite: Graduate standing.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

HIED 70093 VARIABLE TOPIC WORKSHOP IN HIGHER EDUCATION ADMINISTRATION 1-6 Credit Hours
(Slashed with HIED 60093) Variable topics# designed to respond to specialized needs of various groups with the contexts of trends, issues and problems in the various higher education disciplines.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76492 INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION 3-6 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Slashed with HIED 66492) Field-based internship of at least 150 clock hours, as approved by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76521 EMPLOYMENT LAW 3 Credit Hours
(Slashed with HIED 66521) Study of public and private sector bargaining law and all terms of employment.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76592 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours
(Repeatable for credit) (Slashed with HIED 66592) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.
Prerequisite: At least 12 hours in higher education; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76595 SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 66595) (Repeatable for credit) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76596 INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HIED 66596) Individual projects as agreed upon by the instructor and student.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76598 RESEARCH IN HIGHER EDUCATION ADMINISTRATION 2-8 Credit Hours
(Repeatable for credit) Projects as assigned.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 2-8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 76600 HISTORY OF HIGHER EDUCATION 3 Credit Hours
(Cross-listed with CULT 69567 and CULT 79567)(Slashed with HIED 66600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American higher education from the 17th through the 20th century. Students explore changes in student body curricula and purposes of higher education in the United States in the context of American culture.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76601 THE PRIVATE LIBERAL ARTS COLLEGE 3 Credit Hours
(Slashed with HIED 66601) Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions as well as the nature of specific examples of institutions.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76651 STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66651) Study of the history, philosophy, practices and organization of student affairs functions in higher education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76652 LAW AND HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66652) Provides for the examination of major legal aspects of the administration of institutions of higher learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76653 COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE 3 Credit Hours
(Slashed with HIED 66653) Study of theories concerning the development of college students and other adults, and the principles for translating theory into practice.
Prerequisite: PhD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76654 STUDENTS AND THE COLLEGE ENVIRONMENT 3 Credit Hours
(Slashed with HIED 66654) Study of the impact of different types of students and college environments on each other and within the context of a changing society.
Prerequisite: HIED 76653; and doctoral standing; and special approval of the instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76655 CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 66655) Study of management responsibilities and leadership issues of student affairs administrators.
Prerequisite: HIED 76652 and 76653 and 76657; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76656 HIGHER EDUCATION CURRICULUM 3 Credit Hours
(Slashed with HIED 66656) Introduces perspectives on curriculum development, implementation and assessment in higher education and addresses theoretical, historical, political and contemporary perspectives on higher education curriculum.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76657 LEADERSHIP IN EDUCATION ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 66657) By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness.
Prerequisite: PHD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, Internationalization of Higher Education, or Institutional Research and Assessment; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76658 THE COMMUNITY COLLEGE 3 Credit Hours
(Slashed with HIED 66658) A study of the foundations, structure, programs and issues of community college education in the United States.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76660 FACULTY ROLES AND RESPONSIBILITIES 3 Credit Hours
(Slashed with HIED 66660) A study of faculty roles and responsibilities in American higher education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76662 POLITICS AND POWER IN ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 66662) Course is designed to provide a conceptual framework for understanding the multifaceted processes of policy-making that take place in both internal and external settings in organizations.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76663 STATUS OF WOMEN IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66663) Provides a comprehensive overview of the historical, contemporary and scholarly perspectives on women students, faculty, administrators and staff. Students explore why and how women and men experience higher education differently, by drawing on scholarly contributions, feminist theoretical and research perspectives and historical, cultural and psychological contexts. The course considers how the context, recognition of power, other dimensions of identities and desire to change society and the academy have fueled and shaped feminist study of the history and condition of women in higher education. Students explore these issues through various media, and they also have the opportunity to investigate a real-life problem of their choice.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76665 TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours
(Slashed with HIED 66665) Exploration of technology, systems and data analysis essential to the practice of higher education administration. Students examine and apply tools used for the organization, analysis and dissemination of information, including, but not limited to, ERP systems, learning management systems, web applications for data collection and office productivity software. Students perform tasks typically requested of administrators related to budget or workload management, managing lists and or rosters, exploring trend data for decision-making and generating charts, tables and other data for reporting needs. Survey design and construction using online applications are a significant component of this course. It is strongly advised that students taking the course have moderate experience with office productivity software.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76666 FINANCIAL MANAGEMENT IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66666) Course covers financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76667 BUSINESS ADMINISTRATION IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66667) Course introduces students to the administrative and business management of institutions of higher education. Covers topics on institutional planning, space management, insurance matters, personnel administration and purchasing and facility management.
Prerequisite: HIED 76657; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76669 ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66669) Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76670 INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS 3 Credit Hours
(Slashed with HIED 66670) Students study the historical and current development of the internationalization of higher education institutions. They explore higher education administrative leadership characteristics; social, political and economic factors; and national and international relationships that have affected various countries and regions. They also examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions.
Prerequisite: PhD in Higher Education Administration major or EdS in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76671 THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66671) Course covers racial, ethnic and inclusive diversity and multiculturalism in U.S higher education settings. Diversity is discussed from a historical perspective providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; administrator and leadership issues; curriculum and pedagogy matters; research issues; law and policy issues and strategic planning for institutional diversity in higher education.
Prerequisite: PHD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76672 INTERNATIONAL STUDENTS AND AMERICAN COLLEGES 3 Credit Hours
(Slashed with HIED 66672) Course bridges theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level.
Prerequisite: PHD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76673 RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66673) Examines and analyzes research related to higher education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad is discussed thoroughly.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76674 COMPARATIVE HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66674) Students learn the differences between comparative, international and cross-border education. They reflect on how the United States higher education system grew out of specific historical, cultural and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76675 DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS 3 Credit Hours
(Slashed with HIED 66675) Students examine the many critical aspects of designing, planning and implementing an education abroad program. Students analyze components an education abroad program and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities and safety issues. Students also develop skills in conducting needs assessments and program evaluations.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76676 INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS 3 Credit Hours
(Slashed with HIED 66676) Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyze cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning (particularly in higher education contexts) are reviewed, with implications for program design in education abroad, work with international students and other international education contexts.
Prerequisite: PHD in Higher Education Administration major or EDD in Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, or Internationalization of Higher Education; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76677 WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES 3 Credit Hours
(Slashed with HIED 66677) Course examines the role of the community college in workforce, economic and community development and within the context of social, economic and technology shifts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76678 ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION 3 Credit Hours
(Slashed with HIED 66678) Course addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76679 CAREER ADVISING: THEORY AND PRACTICE 3 Credit Hours
(Slashed with HIED 66679) Develop practical skills in providing developmentally appropriate theory based academic and career advising to assist individuals in adding meaningful and purposeful work into their lives.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HIED 76680 ADMINISTRATION OF CAREER AND ADIVISING SERVICES 1 Credit Hour
(Slashed with HIED 66680) Examines contemporary issues in administration of career and academic advising services. Challenges students to rethink the models and methods used to prepare individuals to enter the workforce and navigate their careers.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HIED 76681 ADMINISTRATION OF ADVISING SERVICES 3 Credit Hours
(Slashed with HIED 66681) Examines contemporary issues in administration of academic advising services. Challenges students to rethink models and methods used to prepare individuals to enter the workforce and navigate their careers.
Prerequisite: HIED 76653; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76733 INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS 3 Credit Hours
(Slashed with HIED 66733) Students working in task groups learn about interpersonal, group and inter-group dynamics in organizations through lectures, discussions and analysis of their in-group experiences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76745 EQUITY, JUSTICE AND U.S. HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66745) Examines issues of equity and justice in U.S. higher education, including historical origins, access to higher education, students' experiences within colleges and universities, and outcomes of higher education. Course also focuses on the role of higher education as a social institution, including higher education as a public good and the intersection of higher education with current social issues such as labor and free speech.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76749 ASSESSMENT AND ACCREDITATION IN HIGHER EDUCATION 3 Credit Hours
(Slashed with HIED 66749) This course is designed to provide an understanding of current assessment and evaluation methods in higher education settings. Topics will span from course assessment through institutional accreditation processes.
Prerequisite: Higher Education Administration major or Higher Education and Student Affairs major or students enrolled in any of the following graduate certificates: Career and Academic Advising, College Teaching, Community College Leadership, Internationalization of Higher Education or Institutional Research and Assessment.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 76789 PLANNING AND IMPLEMENTING STUDY ABROAD WHILE STUDYING ABROAD 3 Credit Hours
(Slashed with HIED 76789) Students learn the principles and practice of designing and delivering effective study-abroad programs through Kent State locations. Students observe summer programs; study the principles of developing effective study abroad experiences; and meet with university program officials, faculty, facility support staff, private third-party providers of study abroad and the community, in addition to such onsite support services as legal advisors, health professionals and housing offices.
Prerequisite: Doctoral standing.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

HIED 80080 DISSERTATION PREPARATION SEMINAR 3 Credit Hours
Students gain an in-depth understanding of the dissertation writing process to complete their dissertation proposal.
Prerequisite: PHD in Higher Education Administration major; and doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, the first of which is a semester in which dissertation work is begun and continuation of 30 hours.
Prerequisite: PHD in Higher Education Administration major; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. D. in higher education administration major; and doctoral Standing.
Prerequisite: HIED 80199; and Ph.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HIED 86558 ADVANCED EDUCATIONAL LEADERSHIP 3 Credit Hours
(Slashed with HIED 66558) Course provides the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research writing and teaching skills# to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers.
Prerequisite: HIED 76657; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 86559 ADVANCED STUDENT AND ADULT DEVELOPMENT 3 Credit Hours
Students develop an in-depth understanding of one or more current theories of student or adult development. They gain additional knowledge in student development theory and theory creation.
Prerequisite: Higher education administration major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HIED 86755 ADMINISTRATION OF INTERCOLLEGIATE ATHLETICS 3 Credit Hours
(Slashed with HIED 66755) The purpose of this course is to analyze the various administrative roles in intercollegiate athletics within the context of higher education and examine the theory and practice associated with academic integrity and student-athlete wellbeing. In addition, this course will provide an overview of “best practices” pertaining to institutional control as governed by national, conference and institutional regulations.
Prerequisite: Higher Education Administration and Student Affairs major or Higher Education Administration major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Hospitality and Event Management (HEM)

HEM 13022 SANITATION AND SAFETY PRINCIPLES AND PRACTICES 3 Credit Hours
This course is designed to prepare future hospitality managers to plan for and react to potentially dangerous situations that occur in the hospitality industry including food borne illness identification and prevention, safe alcohol service and management and CPR and First Aid administration. As part of the curriculum, students will train and become certified with the following regulatory authorities: ServSafe Manager/Ohio Level II food safety training, TIPs On Premise alcohol safety training and CPR/AED/1st Aid training.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service, ITAG Culinary and Food Service

HEM 13023 FUNDAMENTALS OF FOOD PRODUCTION 3 Credit Hours
This course focuses on basic to intermediate culinary fundamentals in the commercial kitchen, as well as kitchen management practices and procedures.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service

HEM 13024 INTRODUCTION TO HOSPITALITY MANAGEMENT 3 Credit Hours
An in-depth study of the career possibilities and opportunities in the hospitality and food service industries: including the aptitudes, skills, and knowledge needed to be successful. In a student’s career venture and search for job satisfaction, the most rewarding decisions come from being aware of all the available options and career paths. The Hospitality Industry is vast in scope and volume of business. It is a growing, dynamic, and electrifying industry which will be examined initially through this intro course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service

HEM 20040 THE BUSINESS OF EVENT MANAGEMENT 3 Credit Hours
The course is designed as an introduction of the complex event management industry. The event planning cycle is the foundation for discovering the role of social life cycle events, non-profit and corporate events in our global economy.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 20160 SAFETY AND SECURITY RISK MANAGEMENT 3 Credit Hours
Students gain an understanding of the concepts related to risk management including duty of care, risk assessment, planning and evaluative of risk techniques used within the hospitality event management field. Focus will be on how to manage, reduce and transfer risks in order to provide a safe and secure environment for events.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 20201 FOOD AND BEVERAGE MANAGEMENT 3 Credit Hours
This class is designed to provide students with key concepts and practical skills that they need to be effective foodservice managers. Emphasis is placed on the role of food and beverage in the hospitality industry, types of food and beverage, menu development and analysis, marketing, personnel management, supply chain management, corporate social responsibility.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 20250 ADVANCED FOOD PRODUCTION 3 Credit Hours
A continuation of Fundamentals of Food Production. This course focuses on the integration of students' prior culinary training, academic studies and experience in the field with high quality ingredients, advanced cooking techniques and contemporary food preparation and stylings. In building on fundamentals previously learned, the students will examine the details of cuisine including food science, regionality, history, seasoning and flavoring techniques, plating and presentation methods.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter

HEM 21095 SPECIAL TOPICS IN HOSPITALITY AND EVENT MANAGEMENT 1-4 Credit Hours
(Repeatable for credit) Discussion of a major discipline or subject within the hospitality industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HEM 23030 HOTEL OPERATIONS 3 Credit Hours
The purpose of this course is to give students a basic understanding of the overall hotel operations. Students will be introduced to the principles and practices of managerial functions relating to the operation of hotels and other accommodations.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service

HEM 23212 INTRODUCTORY FOOD SCIENCE 3 Credit Hours
(Cross-listed with NUTR 23012) Principles of food preparation and quality evaluation, with an emphasis on food science concepts, nutrition, food consumption trends and government regulation.
Prerequisite: NUTR 23511.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: TAG Health

HEM 23335 HOSPITALITY EXPERIENCE MANAGEMENT 3 Credit Hours
A significant element in the service industry is managing customers' experiences. In order to provide a comprehensive, inter- and multi-disciplinary view, the course will be constructed in three modules. The first module will present the characteristics and dynamics of the service encounter. The second module will focus on successful service encounters (service quality) and its outcome (customer experience). The third module will present the dynamics of service delivery process, including service failure and service recovery issues. The three modules of this course will provide an opportunity to understand the dynamics of the service encounter, to manage service quality and to learn how to better deliver service experience to customers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 23336 CLUB MANAGEMENT 3 Credit Hours
Introduction to private club management and operations. Strategic planning, marketing, human resources, service excellence, legal issues and financial management will be emphasized within the context of food and beverage, golf and recreation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 23510 QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY 3 Credit Hours
(Cross-listed with NUTR 23510) The application of management principles in quantity food production and service systems, including safety and sanitation; production forecasting and management; distribution; and service, commercial equipment and physical facilities. Introduction to inventory, recipe standardization and considerations of nutrition, quality and sustainability in quantity production.
Prerequisite: NUTR 23112.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

HEM 30110 FUNDRAISING AND PHILANTHROPIC EVENT MANAGEMENT 3 Credit Hours
This course will explore the role fundraising and philanthropy can play in the success of the non-profit and voluntary segments of the event and hospitality industry. The focus will center on sponsorship opportunities, grants, campaigns (capital and annual), planned giving and corporate partnerships and the intersection of events that support those components.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 30120 WEDDINGS AND SPECIAL EVENT PROTOCOL 3 Credit Hours
The course provides an in-depth analysis of weddings and special event protocol. Coursework will include client detailing, site selection, contract negotiation, etiquette, budgeting, vendor relations, marketing, timeline development and public relations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 30280 FUNDAMENTALS OF FOOD AND BEVERAGE SERVICE 3 Credit Hours
This course provides students with skills in service techniques, effective merchandising, guest relations, customer service, restaurant operations and service of beer, wine and spirits. Students will gain knowledge about equipment and use of equipment related to several styles of service, proper dress and sanitation, organization and responsibilities within the dining room.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 33020 LEGAL ISSUES IN THE HOSPITALITY AND EVENT INDUSTRY 3 Credit Hours
Overview and analysis of legal issues of concern to the hospitality operation. Topics include employment law, food and beverage liabilities, patron civil rights, local, state, and federal regulations; and franchising.
Prerequisite: HEM 13022 and HEM 13024 and MGMT 24163.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 33050 PROFESSIONAL PRACTICE IN HOSPITALITY AND EVENT MANAGEMENT 2 Credit Hours
Prepares students for professional work experiences in hospitality management. Career development and professional workplace issues are addressed. Etiquette, resume writing and interview techniques are topics that will be covered, along with workplace relationships, networking and ethical dilemmas in hospitality management. Students must have documentation of 400 work hours.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HEM 33129 CATERING AND BANQUET MANAGEMENT 3 Credit Hours
The course includes an in-depth analysis of all components of the catering profession including management, legal aspects, getting started in business, catering contracts, menu planning, beverage service, catering equipment, catering logistics, personnel, marketing, pricing, sanitation and safety practices, purchasing, accessory services, accounting and control practices.
Prerequisite: HEM 13022 and HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 33140 CONVENTION SALES AND MANAGEMENT 3 Credit Hours
From a sales and convention management perspective, the convention and meetings industry is examined. Students are introduced to all facets of the conventions and meetings industry.
Prerequisite: HEM 13024.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 33145 BAKING AND PASTRY FUNDAMENTALS 3 Credit Hours
Building on the theoretical and practical foundations of Baking and Pastry Fundamentals, this course will help students develop advanced skills and knowledge in the production and selection of quality handcrafted and purchased products. Scientific principles and experimental methods will be explored and addition emphasis will be placed on advanced decorating and finishing techniques, yeast breads, sweet doughs, cakes, tortes, chocolate work.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter
Attributes: CTAG Culinary and Food Service

HEM 33270 GLOBAL CUISINE 3 Credit Hours
Prepare, taste, serve, and evaluate traditional, regional dishes of Europe, Asia, and the Americas. Emphasis will be placed on history, ingredients, flavor profiles, preparations, and techniques representative of the cuisines.
Prerequisite: Sophomore standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter

HEM 37377 CASINO MANAGEMENT AND GAMING OPERATIONS 3 Credit Hours
Introduction to the various aspects of the casino and gaming industry. Students study the structure of casino organizations, gain basic understanding of gaming operations and responsible gaming. Casino environments are experienced through on-site visitations. Funds for travel are the student's responsibility, all students must be legal age of 21 prior to on-site class visitations.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 lecture, 1 lab
Grade Mode: Standard Letter

HEM 41093 VARIABLE TOPIC WORKSHOP IN HOSPITALITY AND EVENT MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Workshop setting dealing with a topic or topics in hospitality and event management. Learning experiences are provided in a wide range of areas.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HEM 41095 SPECIAL TOPICS IN HOSPITALITY AND EVENT MANAGEMENT 1-4 Credit Hours
(Repeatable for credit) Discussion of a major topic within a specific field of hospitality and event management.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HEM 41096 INDIVIDUAL INVESTIGATION IN HOSPITALITY AND EVENT MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Independent study in hospitality and event management.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HEM 43027 HOSPITALITY AND EVENT MANAGEMENT: HUMAN RESOURCE STRATEGIES (WIC) 3 Credit Hours
Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management focused case studies are incorporated.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024 and HEM 23030 and HRM 34180 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HEM 43030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours
(Slashed with HTM 53030)(Cross-listed with NUTR 43030 and NUTR 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.
Prerequisite: HEM 23212 or NUTR 23012; and HEM 23510 or NUTR 23510.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Health

HEM 43031 LAYOUT AND DESIGN OF HOSPITALITY OPERATIONS 3 Credit Hours
Analysis and planning for the layout and design of hospitality operations. Includes basic principles of design; space analysis; human factors; and equipment use, care, selection and layout for hospitality facilities based on the financial performance of the operation; codes and related regulations. An appreciation for cost effective engineering and architecture concerns pertaining to hospitality operations is developed.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024 and HEM 23030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43092 PRACTICUM IN HOSPITALITY AND EVENT MANAGEMENT (ELR) 1-6 Credit Hours
(Repeatable for credit) Supervised professional experience in the hospitality industry including operations such as restaurants, hotels, clubs, health care, theme parks and food distribution. Course assignments are included.
Prerequisite: HEM 13022 and HEM 13023 and HEM 13024 and HEM 23030 and HEM 33050; and junior or senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-36 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

HEM 43099 CAPSTONE: STRATEGIC HOSPITALITY AND EVENT MANAGEMENT (ELR) 2 Credit Hours
This capstone course provides a comprehensive view of the business setting of hospitality and tourism organizations. The course includes a review of the competitive business environments, competitive advantage, above-average performance and competitive strategies as they pertain to hospitality and tourism management. The course will highlight current strategic issues in hospitality and tourism management referring to the most recent literature (practitioners' literature and academic journals). The course concludes a capstone group case analysis of a business problem in hospitality management, food and beverage management or event management.
Prerequisite: HEM 13024 and HEM 23030 and MGMT 24163 and MKTG 25010; and senior standing.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HEM 43143 HOSPITALITY MEETINGS AND EVENT MANAGEMENT 3 Credit Hours
Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of association meetings, conventions and corporate events held in hospitality venues requiring food and beverage and/or lodging.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43226 FOOD AND BEVERAGE COST MANAGEMENT 3 Credit Hours
This course provides a comprehensive study of the cost control aspects of food and beverage operations that, when managed effectively, lead to profitability and ultimately success. Topics include purchasing, labor, beverage and food cost management (prime costs), budgeting, forecasting, cost analysis, inventory control and the overall factors that lead to the financial success of a food and beverage service operation.
Prerequisite: HEM 13024 and HEM 23030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43231 FOOD, WINE AND BEVERAGE PAIRING 3 Credit Hours
Provides knowledge of the sensory relationship of food, wine, beer and other spirits and the important role this process has on hospitality operations. Topics include developing an understanding of wine, beer and food pairing as a hierarchical process. Menu development and cooking the food play an important role in this class; food is chosen first then paired with the appropriate beverage. Students must be 21 years old to enroll in the class. Students must be 21 years old to enroll in the class.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

HEM 43325 HOSPITALITY AND EVENT MARKETING 3 Credit Hours
Application of marketing principles, practices and theories relevant to hospitality organizations. Case studies drawn from the hospitality industry are incorporated.
Prerequisite: HEM 13024 and HEM 23030 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43329 HOSPITALITY FINANCIAL POLICY 3 Credit Hours
Developing financial analysis skills and decision-making capabilities for short- and long-term financial management problems in the unique setting of service industries with a specific focus on hospitality organizations, restaurants, clubs, and resorts, through case analysis.
Prerequisite: HEM 13024 and HEM 23030 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43377 REVENUE MANAGEMENT 3 Credit Hours
Introduction to both the theory and the practice of revenue management. Through optimization techniques and data analytics, this class examines how hospitality firms manage resources and production capacity as well as make financial decisions in order to maximize performance and profitability.
Prerequisite: HEM 13024 and HEM 23030 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HEM 43388 LEADERSHIP AND ORGANIZATIONAL BEHAVIOR IN THE HOSPITALITY INDUSTRY 3 Credit Hours
This course provides students both study and practice in the latest concepts related to leadership and organizational behavior in the field of hospitality and to examine the factors that contribute to an ever-changing business world.
Prerequisite: HEM 13024 and MGMT 24163 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Hospitality and Tourism Management (HTM)

HTM 51092 HOSPITALITY AND TOURISM MANAGEMENT PROFESSIONAL PRACTICUM 3 Credit Hours
(Repeatable for credit) Supervised professional experience in the hospitality and-or tourism industry including operations such as restaurants, hotels, clubs, resorts, theme parks and casinos. Minimum of 405 hours in the field.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HTM 53025 HOSPITALITY MARKETING 3 Credit Hours
Application of marketing principles, practices and theories relevant to hospitality organizations. Internet marketing in hospitality. Case studies drawn from the hospitality industry are incorporated.
Prerequisite: Graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53027 HOSPITALITY HUMAN RESOURCE MANAGEMENT 3 Credit Hours
Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management focused case studies and current controversies are incorporated.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53029 HOSPITALITY FINANCIAL POLICY 3 Credit Hours
Developing financial analysis skills and decision making capabilities for short-and long-term financial management problems in the unique setting of service industries with a specific focus on hospitality organizations, restaurants, clubs and resorts, through case analysis.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours
(Slashed with HEM 43030)(Cross-listed with NUTR 43030 and NUTR 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53035 HOSPITALITY SERVICE QUALITY MANAGEMENT 3 Credit Hours
Tourism and hospitality are service industries. A significant element in these industries is management of the service encounters which will be the focus this course. In order to provide a comprehensive, inter- and multi-disciplinary view, the course will be constructed in three modules. The first module will present the characteristics and dynamics of the service encounter. The second module will focus on successful service encounters (service quality) and its outcome (customer satisfaction). The third module will present the dynamics of service failure and service recovery. The three modules of this course will provide an opportunity to understand the dynamics of the service encounter, to manage service quality and to learn how to identify service failure and plan for service recovery.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 53040 STRATEGIC HOTEL MANAGEMENT 3 Credit Hours
The hotel manager's role as a strategic thinker is emphasized. Techniques such as co-alignment model, brand strategy, competitor analysis, market research, risk management and finance options are used to develop strategic plans in hotels.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

HTM 53043 HOSPITALITY MEETINGS MANAGEMENT 3 Credit Hours
Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of social association and corporate events, weddings, reunions, award banquets, receptions and annual meetings held in hospitality venues requiring food and beverage and/or lodging.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 55047 GLOBAL ISSUES OF TOURISM TRADE 3 Credit Hours
(Slashed with RPTM 45047) An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in tourism policy making. The course has an emphasis on reading and discussion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 56000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours
(Slashed with RPTM 46000) Investigation of travel and tourism development using an interdisciplinary social science approach.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 61098 RESEARCH IN HOSPITALITY MANAGEMENT 1-15 Credit Hours
(Repeatable for credit) Research for master's-level graduate students. Credit earned may be applied toward meeting degree requirements if school approves.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

HTM 61099 MASTERS PROJECT IN HOSPITALITY MANAGEMENT 2-6 Credit Hours
(Repeatable for credit) Completion and successful defense of master's project. Master's project students must register for a total of 6 credit hours, 2-6 in a single semester; distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HTM 61199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students register for a total of 6 credit hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HTM 61299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis II students must continue registration each semester until all degree requirements are met.
Prerequisite: HTM 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HTM 63022 CURRENT ISSUES IN HOSPITALITY AND TOURISM MANAGEMENT 3 Credit Hours
Current research and management issues in hospitality operations are explored through the peer-reviewed and professional literature. Management or revenue topics with implications for hospitality managers are included.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 63024 MANAGEMENT OF FOOD AND NUTRITION SERVICES 3 Credit Hours
Management issues in healthcare, food and nutrition services, child nutrition programs and other noncommercial food services will be examined. The impact of quality standards, public policy and current societal trends upon management of noncommercial operations will be studied.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HTM 63091 RESEARCH SEMINAR 1 Credit Hour
(Repeatable for credit) Presentation and discussion of research and projects by students and faculty. 1 credit hour to be applied toward degree requirements.
Prerequisite: Graduate standing.
Corequisite: SPAD 63098 or SPAD 63199 or SPAD 63299 or HTM 61098 or HTM 61199 or HTM 61299.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HTM 63095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT 1-3 Credit Hours
(Repeatable for credit) Specialized offering of a major topic within hospitality management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HTM 64099 HOSPITALITY AND TOURISM MANAGEMENT CAPSTONE 3 Credit Hours
This capstone course provides a comprehensive view of the business setting of hospitality and tourism organizations. The course includes a review of the competitive business environments, competitive advantage, above-average performance and competitive strategies as they pertain to hospitality and tourism management. The course will highlight current strategic issues in hospitality and tourism management referring to the most recent literature (practitioners' literature and academic journals). The course concludes with a capstone group case analysis of a business problem in hospitality and, or tourism.
Prerequisite: HTM 56000 or HTM 53025; and BA 64005 or RMS 65510; and HTM 63022, HTM 55047 and HTM 65041; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

HTM 65041 TOURISM AND HOSPITALITY REVIEW 3 Credit Hours
Reviews academic tourism and hospitality literature to provide students with a theoretical and empirical understanding of the tourism phenomenon. Issues include tourist motivations; the social, cultural and environmental impacts of tourism; tourism and development; and the impact of hospitality services on tourism.
Prerequisite: HTM 56000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Professional Studies (PROS)

PROS 40095 SPECIAL TOPICS IN PROFESSIONAL STUDIES 1-3 Credit Hours
(Repeatable for credit) Selected topics in Professional Studies dependent upon interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PROS 40096 INDIVIDUAL INVESTIGATION IN PROFESSIONAL STUDIES 1-3 Credit Hours
(Repeatable for credit) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member required prior to registration.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

PROS 44003 CAREER DEVELOPMENT IN PROFESSIONAL STUDIES 3 Credit Hours
In this course students will have the opportunity to integrate educational, work and field experiences as they prepare for their future career path. This course will help students consider career options, including future professions and post-graduate education. Practical exercises to support preparation for the job market are part of the experience.
Prerequisite: Senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

PROS 44004 RESEARCH AND WRITINGS IN PROFESSIONAL STUDIES (WIC) 3 Credit Hours
This course presents and integrates the role of professionals in the education, health and human services fields as they attempt to meet the needs of individuals in diverse environments.
Prerequisite: Senior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP
Attributes: Writing Intensive Course

PROS 44005 EXPLORATION AND APPLICATION OF LEADERSHIP SKILLS FOR VARIED PROFESSIONAL SETTINGS 3 Credit Hours
Leadership skills, for both personal and professional life, are explored and practiced. Topics include leadership concepts, including important qualities, skills and attributes. Activities, presentations and readings aid in the exploration and practice of those qualities and skills for a variety of career paths.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PROS 44092 PRACTICUM IN PROFESSIONAL STUDIES (ELR) 1-12 Credit Hours
(Repeatable for credit) A culminating experiential learning opportunity near the end of students' formal academic studies. Students investigate and propose a placement at a work site that is congruent with their career interests and aspirations. Work sites are approved by the practicum advisor. Practicum is often completed in one semester, although two semesters of practicum are also possible.
Prerequisite: Professional Studies major; and senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-36 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

Recreation, Park, and Tourism Management (RPTM)

RPTM 16000 FOUNDATIONS OF RECREATION AND LEISURE 3 Credit Hours
Historical examination of the park and recreation movement, sociological, economic, psychological and political considerations for the delivery of leisure and recreation services in contemporary society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 16001 CAREER EXPLORATION IN RECREATION, PARK, AND TOURISM MANAGEMENT 1 Credit Hour
Introduction to career opportunities in Recreation, Park, and Tourism Management. Includes public, non-profit, and commercial settings and site visits.
Pre/corequisite: RPTM 16000.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RPTM 26010 COMMUNITY DEVELOPMENT IN RECREATION 3 Credit Hours
Explores the contemporary and historical roles, organization and services of public and non-profit leisure service providers. Includes various theoretical perspectives on community organization and development as well as methods available to the recreation practitioner to facilitate the development of recreation services in communities.
Prerequisite: RPTM 16000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 26030 LEADERSHIP IN RECREATION, PARKS AND TOURISM 3 Credit Hours
Leadership concepts, principles, methods and techniques necessary for facilitating beneficial recreation activities for diverse populations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 26060 INTRODUCTION TO GLOBAL TOURISM (DIVG) 3 Credit Hours
(Cross-listed with GEOG 22040) Introduction to travel and tourism around the world. Students study tourism technologies and cultural and natural environments as attractions, benefits of travel, travel ethics and sustainable development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

RPTM 26071 MAINTENANCE AND OPERATION OF AREAS AND FACILITIES 3 Credit Hours
A systems approach for the effective maintenance and operation of areas and facilities.
Prerequisite: RPTM 16000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 26081 PRINCIPLES OF OUTDOOR RECREATION 3 Credit Hours
Introduction to outdoor recreation including historical and cultural perspectives, outdoor recreation resources, environmental aspects, trends and management.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36010 RECREATION, LEISURE AND AGING 3 Credit Hours
Knowledge and understanding of leisure and aging. Planning and implementing recreation programs and activities for enriching the lives of older persons.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36040 INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD) 3 Credit Hours
An examination of attitudes toward people with disabilities, characteristics of various disability groups, the role and responsibility of leisure service providers to be inclusive of all individuals and techniques for adapting programs.
Prerequisite: RPTM 26030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

RPTM 36060 ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES 3 Credit Hours
Principles of commercial recreation and tourism services, including entrepreneurship, economic concepts of the for-profit recreation industries and management skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36075 EXPERIENCE DESIGN IN RECREATION, PARK AND TOURISM SETTINGS 3 Credit Hours
Programming leisure experiences within a socio-cultural context, involving understanding and assessing client behavior and needs, proficiency in experience design and implementation, and knowledge of evaluation methods reflective of a service-centered and benefits approach.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36081 ADVENTURE EDUCATION 3 Credit Hours
Introduction to adventure education, the history and philosophy, initiatives, ropes courses, adventure curricula and the basics of outdoor leadership and process facilitation.
Prerequisite: RPTM 26030 and RPTM 26081.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36082 INTERPRETATION OF NATURAL AND CULTURAL RESOURCES 3 Credit Hours
Interpretation is the art of creating intellectual and emotional bonds between people and natural and cultural resources. Interpretation is commonly practiced in parks and other protected areas, zoos, museums and a variety of tourist attractions. This course provides students with the philosophies, concepts and practical techniques necessary to plan and present effective interpretation of natural and cultural resources.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36083 ENVIRONMENTAL EDUCATION AND CONSERVATION 3 Credit Hours
Environmental education helps people better understand the natural world and to develop attitudes and behaviors conducive to environmental conservation. Teaches students the foundations, principles and techniques of environmental education thus enabling students to prepare and present effective environmental education programs. Prerequisite: None
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 36085 LEISURE AND CULTURE (DIVD) 3 Credit Hours
Leisure behaviors and beliefs for people from diverse cultures, factors perpetuating inequity in the United States and strategies for leisure programming in a pluralistic society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

RPTM 36911 WILDERNESS AND REMOTE FIRST AID FOR PROFESSIONALS AND EDUCATORS 3 Credit Hours
Students build first aid knowledge skills and behaviors through a variety of learning strategies to individually help in an emergency. A key focus is on how to work in limited resource environments or remote environments (i.e., foreign countries, wilderness, air travel). Then students learn and demonstrate how to prepare others, and be a leader during emergencies through practical experiences. Course is taught and assessed in a cognitively, physically, and emotionally stressed manner. This course includes three weekends and include outdoors experiences. Successful completion of the course may result in American Red Cross certification and Instructor status.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 lecture, 3 lab
Grade Mode: Standard Letter

RPTM 45031 SPORT TOURISM 3 Credit Hours
(Cross-listed with SPAD 45031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 45047 GLOBAL ISSUES OF TOURISM TRADE 3 Credit Hours
(Slashed with HTM 55047) An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in tourism policy making. The course has an emphasis on reading and discussion.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours
(Cross-listed with GEOG 42040)(Slashed with HTM 56000) Investigation of travel and tourism development using an interdisciplinary social science approach.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46030 DYNAMICS OF LEISURE BEHAVIOR (WIC) 3 Credit Hours
(Slashed with RPTM 56030) This is a writing intensive course with a focus on reading, discussing and writing about science examining leisure behavior and related phenomenon.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

RPTM 46060 ADMINISTRATION OF LEISURE SERVICES 3 Credit Hours
(Slashed with RPTM 56060) Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns are examined.
Prerequisite: RPTM 36040 and RPTM 36075.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46070 PARK PLANNING 3 Credit Hours
(Slashed with RPTM 56070) Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places.
Prerequisite: RPTM 26081.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46091 SEMINAR FOR INTERNSHIP PREPARATION 1 Credit Hour
(Repeatable for credit) Planning and preparation for the internship experience in leisure service settings. Students should register for this course two semesters before enrolling in the internship course.
Prerequisite: Recreation, Park, and Tourism Management (RPTM) major and junior standing.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

RPTM 46092 INTERNSHIP IN RECREATION (ELR) 9 Credit Hours
(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved leisure setting.
Prerequisite: RPTM 46091; and senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 30 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

RPTM 46095 SELECTED TOPICS IN RECREATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours)Selected topics dependent upon interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 46096 INDIVIDUAL INVESTIGATION IN RECREATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours)Independent study completed under the supervision of a faculty member. Written approval of the supervising faculty member and school director required prior to registration.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

RPTM 56030 DYNAMICS OF LEISURE BEHAVIOR 3 Credit Hours
(Slashed with RPTM 46030) This is a writing-intensive course with a focus on reading, discussing and writing about science examining leisure behavior and related phenomenon.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 56060 ADMINISTRATION OF LEISURE SERVICES 3 Credit Hours
(Slashed with RPTM 46060) Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 56070 PARK PLANNING 3 Credit Hours
(Slashed with RPTM 46070) Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 65047 GLOBAL ISSUES OF TOURISM TRADE 3 Credit Hours
An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in tourism policy making. The course has an emphasis on reading and discussion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 65061 PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT 3 Credit Hours
(Slashed with RPTM 75061) Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RPTM 75061 PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT 3 Credit Hours
(Slashed with RPTM 65061) Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives are examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Research, Measurement and Statistics (RMS)

RMS 45610 CLASSROOM ASSESSMENT 3 Credit Hours
(Slashed with RMS 55610 and RMS 75610) Instruction on contemporary and classic theories and issues in classroom assessment. Students learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 50093 VARIABLE TOPIC WORKSHOP EVALUATION AND MEASUREMENT 1-4 Credit Hours
(Repeatable once for a maximum of 6 credit hours) (Slashed with RMS 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

RMS 55610 CLASSROOM ASSESSMENT 3 Credit Hours
(Slashed with RMS 45610 and RMS 75610) Instruction on contemporary and classic theories on and issues in classroom assessment. Students will learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students will examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 60199 THESIS I 2-6 Credit Hours
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: RMS 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 65510 STATISTICS I FOR EDUCATIONAL SERVICES 3 Credit Hours
(Slashed with RMS 75510) Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlations and simple regression); hypothesis testing; non-parametric techniques. Ordinarily taken in graduate course sequence.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65511 RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours
Introduction to purposes and practice of qualitative and quantitative research related to educational services. Emphasis on elements of doing research and using products of research to support and enhance practice. Authentic examples used as illustration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65515 QUANTITATIVE RESEARCH DESIGN AND ANALYSIS 3 Credit Hours
(Slashed with RMS 85515) Introduction to quantitative research design and analysis in the social sciences. Students are introduced to various concerns and issues that arise in conducting quantitative research, as well as various quantitative research designs, including experimental, quasi-experimental, and non-experimental research approaches. Students will also learn to critically examine quantitative research reports in terms of reliability and validity. Additionally, students will be introduced to analysis of variance (ANOVA) procedures for analyzing quantitative research designs.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65516 QUALITATIVE RESEARCH DESIGN 3 Credit Hours
(Slashed with RMS 85516) Introduction to qualitative research approaches, design, and methods. Students learn about the theoretical underpinnings, nature, characteristics, and methods of qualitative research. Students are introduced to several types of qualitative research designs. They learn to engage in critical reading of qualitative research reports. Students also learn to design qualitative research studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65522 BASICS OF QUALITATIVE INTERVIEWING 1 Credit Hour
(Slashed with RMS 75522) Specialized interviewing methods and techniques prior to engaging in qualitative research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RMS 65530 PRACTITIONER INQUIRY 3 Credit Hours
(Slashed with RMS 85530) This course prepares students to engage in practitioner research. It provides an overview of the history, theoretical, ethical, and practical issues related to engaging in practitioner work in a variety of fields. Research design, data collection and analysis are explored and practiced. Students will critique practitioner research and design their own practitioner research study.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 65533 INTRODUCTION TO NARRATIVE INQUIRY AND ANALYSIS 1 Credit Hour
(Slashed with RMS 75533) This course will introduce students to the "rapidly maturing" methodology, providing a foundational exploration of narrative techniques, the craft of good academic writing, and a practice of narrative analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter-IP

RMS 68710 INTRODUCTION TO MEASUREMENT 3 Credit Hours
(Slashed with RMS 78710) This course provides an introduction to the field of measurement/psychometrics. The theoretical foundations are those of Classical Test Theory and construct-based measure development. Some general topics include Classical Test Theory, Reliability and the calculation of reliability indices, Validity and the meaning and types of evidence for Validity, methods of scale construction and test bias.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68711 MODERN TEST THEORY: ITEM RESPONSE THEORY 3 Credit Hours
(Slashed with RMS 78711) The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68713 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 78713) Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge and skills necessary to conduct multivariate analyses using various statistical packages (SPSS, SAS) and to develop knowledge and skills necessary for interpreting results of multivariate analysis.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68714 FACTOR ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 78714) This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68715 SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION 3 Credit Hours
(Slashed with RMS 78715) Designed to be an introduction to survey design including the use of online survey applications data collection and will focus on applied quantitative research using SPSS. Open to any graduate students with appropriate prerequisite courses and an interest in applied quantitative research. The project-based course has two major components: survey construction and applied research. Students will perform tasks typically requested of data analysts, institutional researchers, and program evaluators including but not limited to SPSS data management, data transformations, descriptive and inferential analysis, and interpretation of results.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68716 STATISTICS II: ANOVA AND NONPARAMETRIC TESTS 3 Credit Hours
The primary objective of the course is to develop students' understanding of statistical concepts and procedures sufficient for both conducting appropriate statistical analysis and interpreting the results. Authentic research examples are used throughout the course as illustrations of the different methods of conducting statistical analyses for the social sciences. This course is designed to lead students to become informed consumers of intermediate level statistical analyses, specifically analysis of variance (ANOVA) procedures, used in the social sciences.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68728 MULTIPLE REGRESSION 3 Credit Hours
(Slashed with RMS 78728) The purpose of this course is to develop an understanding of use of multiple regression in the social sciences and related issues, including examining assumptions, diagnosis of outliers and influential data points, determining statistical power, testing for moderation and mediation, etc. The course begins with an introduction to simple models with two predictor variables, and continues to more advanced models, including those with three or more variables, categorical predictors, interactions, non-linear models, and logistic regression.
Prerequisite: RMS 65510; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68735 STRUCTURAL EQUATION MODELING 3 Credit Hours
(Slashed with RMS 78735) The purpose of this course is to develop an understanding of the basic concepts of structural equation modeling and the use of path analysis, confirmatory factor analysis, bi-factor and second-order CFA, multitrait-multimethod analysis, multiple sample-multiple group SEM, latent class model, and latent growth modeling covered under the theoretical framework of structural equation modeling. The course familiarizes students with these methods in order to (a) critique a research study with respect to the statistical analysis, and (b) select an appropriate model and be able to apply it.
Prerequisite: RMS 65510 and RMS 68728; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68745 HIERARCHICAL LINEAR MODELING 3 Credit Hours
(Slashed with RMS 78745) This course introduces methods for the analysis of multilevel data and emphasizes practical, hands-on development, analysis and interpretation of hierarchical linear models. Applications will be drawn from education, psychology, other social sciences, and health-related disciplines. Topic coverage includes development of multilevel models, estimation, hypothesis testing, statistical inference, model assessment and residual diagnostics, centering options and impact, treatment of heterogeneity, and introduction to longitudinal analysis via multilevel models.
Prerequisite: RMS 65510 and RMS 68728; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68791 SEMINAR IN EVALUATION AND MEASUREMENT 1-5 Credit Hours
(Repeatable for credit) Variable topic seminar for advance study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

RMS 68795 SPECIAL TOPICS IN EVALUATION AND MEASUREMENT 1-3 Credit Hours
(Repeatable for credit)Specific topic course offering in response to emerging student or program needs in evaluation and measurement.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

RMS 68796 INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT 1-3 Credit Hours
(Repeatable for credit)Specific topic course offering in response to emerging student or program needs in evaluation and measurement.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 68798 RESEARCH IN EVALUATION AND MEASUREMENT 1-15 Credit Hours
(Repeatable for credit) Students pursue an individual research project on a specific topic in evaluation and measurement with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 68806 HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 78806) This course is designed to be an overview of institutional research function and practice, introducing students to the purpose and history of IR, IR terminology and metrics, and IR application to a variety of university areas. The target audiences for this course are: 1) students with an evaluation and measurement background who are interested in applying their skills in a higher education context and 2) students from a higher education and or student affairs background who are looking to better understand higher education data and the applied research that occurs within an institution.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 68807 PROGRAM EVALUATION 3 Credit Hours
(Slashed with RMS 78807) Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 70093 VARIABLE TOPIC WORKSHOP IN EVALUATION AND MEASUREMENT 1-4 Credit Hours
(Repeatable for credit) (Slashed with RMS 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

RMS 75510 STATISTICS I FOR EDUCATIONAL SERVICES 3 Credit Hours
(Slashed with RMS 65510) Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlations and simple regression); hypothesis testing; non-parametric techniques. Ordinarily taken in graduate course sequence.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 75522 BASICS OF QUALITATIVE INTERVIEWING 1 Credit Hour
(Slashed with RMS 65522) Specialized interviewing methods and techniques prior to engaging in qualitative research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RMS 75533 INTRODUCTION TO NARRATIVE INQUIRY AND ANALYSIS 1 Credit Hour
(Slashed with RMS 65533) This course will introduce students to the "rapidly maturing" methodology, providing a foundational exploration of narrative techniques, the craft of good academic writing, and a practice of narrative analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter-IP

RMS 75550 INTRODUCTION TO QUANTITATIVE RESEARCH IN EDUCATION 3 Credit Hours
This course provides an introduction to the purposes, practices, and applications of quantitative research in the field of education. The course focuses on foundational knowledge related to the methods used for conducting quantitative research, evaluating quantitative research, and using products of research to support and enhance practice. Authentic examples are used as illustrations throughout the course. The course is designed to allow students to become informed consumers of quantitative research in education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 75610 CLASSROOM ASSESSMENT 3 Credit Hours
(Slashed with RMS 45610 and RMS 55610) Instruction on contemporary and classic theories and issues in classroom assessment. Students will learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students will examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78710 INTRODUCTION TO MEASUREMENT 3 Credit Hours
(Slashed with RMS 68710) This course provides an introduction to the field of measurement/psychometrics. The theoretical foundations are those of Classical Test Theory and construct-based measure development. Some general topics include Classical Test Theory, Reliability and the calculation of reliability indices, Validity and the meaning and types of evidence for Validity, methods of scale construction and test bias.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78711 MODERN TEST THEORY: ITEM RESPONSE THEORY 3 Credit Hours
(Slashed with RMS 68711) The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78713 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 68713) Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge and skills necessary to conduct multivariate analyses using various statistical packages (SPSS, SAS) and to develop knowledge and skills necessary for interpreting results of multivariate analysis.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78714 FACTOR ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 68714) This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78715 SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION 3 Credit Hours
(Slashed with RMS 68715) Designed to be an introduction to survey design including the use of online survey applications data collection and will focus on applied quantitative research using SPSS. Open to any graduate students with appropriate prerequisite courses and an interest in applied quantitative research. The project-based course has two major components: survey construction and applied research. Students will perform tasks typically requested of data analysts, institutional researchers, and program evaluators including but not limited to SPSS data management, data transformations, descriptive and inferential analysis, and interpretation of results.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78716 STATISTICS II: ANOVA AND NONPARAMETRIC TESTS 3 Credit Hours
(Slashed with RMS 68716) The primary objective of the course is to develop students' understanding of statistical concepts and procedures sufficient for both conducting appropriate statistical analysis and interpreting the results. Authentic research examples are used throughout the course as illustrations of the different methods of conducting statistical analyses for the social sciences. This course is designed to lead students to become informed consumers of intermediate level statistical analyses, specifically analysis of variance (ANOVA) procedures, used in the social sciences.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78728 MULTIPLE REGRESSION 3 Credit Hours
(Slashed with RMS 68728) The purpose of this course is to develop an understanding of use of multiple regression in the social sciences and related issues, including examining assumptions, diagnosis of outliers and influential data points, determining statistical power, testing for moderation and mediation, etc. The course begins with an introduction to simple models with two predictor variables, and continues to more advanced models, including those with three or more variables, categorical predictors, interactions, non-linear models, and logistic regression.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78735 STRUCTURAL EQUATION MODELING 3 Credit Hours
(Slashed with RMS 68735) The purpose of this course is to develop an understanding of the basic concepts of structural equation modeling and the use of path analysis, confirmatory factor analysis, bi-factor and second-order CFA, multitrait-multimethod analysis, multiple sample and multiple group SEM, latent class model, and latent growth modeling covered under the theoretical framework of structural equation modeling. The course familiarizes students with these methods in order to (a) critique a research study with respect to the statistical analysis, and (b) select an appropriate model and be able to apply it.
Prerequisite: RMS 75510 and RMS 78728; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78745 HIERARCHICAL LINEAR MODELING 3 Credit Hours
(Slashed with RMS 68745) This course introduces methods for the analysis of multilevel data and emphasizes practical, hands-on development, analysis and interpretation of hierarchical linear models. Applications will be drawn from education, psychology, other social sciences, and health-related disciplines. Topic coverage includes development of multilevel models, estimation, hypothesis testing, statistical inference, model assessment and residual diagnostics, centering options and impact, treatment of heterogeneity, and introduction to longitudinal analysis via multilevel models.
Prerequisite: RMS 75510 and RMS 78728; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78806 HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH 3 Credit Hours
(Slashed with RMS 68806) This course is designed to be an overview of institutional research function and practice, introducing students to the purpose and history of IR, IR terminology and metrics, and IR application to a variety of university areas. The target audiences for this course are: 1) students with an evaluation and measurement background who are interested in applying their skills in a higher education context and 2) students from a higher education and or student affairs background who are looking to better understand higher education data and the applied research that occurs within an institution.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78807 PROGRAM EVALUATION 3 Credit Hours
(Slashed with RMS 68807) Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation programs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 78898 COMPARATIVE RESEARCH DESIGN 3 Credit Hours
(Repeatable for credit)The course develops the ability of the student to conceptualize the design elements of educational research and to write results of studies.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

RMS 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

RMS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: RMS 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 85515 QUANTITATIVE RESEARCH DESIGN AND ANALYSIS 3 Credit Hours
(Slashed with RMS 65515) Introduction to quantitative research design and analysis in the social sciences. Students are introduced to various concerns and issues that arise in conducting quantitative research, as well as various quantitative research designs, including experimental, quasi-experimental, and non-experimental research approaches. Students will also learn to critically examine quantitative research reports in terms of reliability and validity. Additionally, students will be introduced to analysis of variance (ANOVA) procedures for analyzing quantitative research designs.
Prerequisite: RMS 75510; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85516 QUALITATIVE RESEARCH DESIGN 3 Credit Hours
(Slashed with RMS 65516) Introduction to qualitative research approaches, design, and methods. Students learn about the theoretical underpinnings, nature, characteristics, and methods of qualitative research. Students are introduced to several types of qualitative research designs. They learn to engage in critical reading of qualitative research reports. Students also learn to design qualitative research studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85517 ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours
Advanced quantitative research design and application in educational services. Statistical packages of instructional strategies with methodological principles focus, theoretical models and practical application of experimental and multivariate research design.
Prerequisite: RMS 85515; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85518 ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours
Utilizes qualitative data in educational services. Applications in qualitative methodology (video techniques) and protocol analysis are applied and evaluated. Generate findings; develop applications to theory; reliability and validity considerations.
Prerequisite: RMS 85516; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85520 MIXED METHODS RESEARCH 3 Credit Hours
This course provides an overview of theoretical and practical issues pertaining to mixed methods research in educational settings. This overview includes the history and philosophy of mixed methods research, types of mixed methods designs, and various strategies for mixed methods data collection and analysis. Course outcomes include the development of a rationale for mixed methods approaches, critique of published mixed methods educational research, and the design and preliminary implementation of a mixed methods research project.
Prerequisite: RMS 85515 and RMS 85516; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85530 PRACTITIONER INQUIRY 3 Credit Hours
(Slashed with RMS 65530) This course prepares students to engage in practitioner research. It provides an overview of the history, theoretical, ethical, and practical issues related to engaging in practitioner work in a variety of fields. Research design, data collection and analysis are explored and practiced. Students will critique practitioner research and design their own practitioner research study.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85540 GROUNDED THEORY AND PHENOMENOLOGICAL RESEARCH 3 Credit Hours
This course prepares students to engage in and argue for phenomenological research and grounded theory research. It provides an overview of the history, theoretical, and practical background related to various forms of phenomenological and grounded theory research. Research design, data collection and analysis are explored and practiced. Students will critique phenomenological and grounded theory research and design their own study or pilot a study of one of the two types.
Prerequisite: RMS 85516; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85550 ETHNOGRAPHY AND CASE STUDY RESEARCH 3 Credit Hours
The purpose of this course is to provide doctoral students advanced instruction in two approaches to qualitative inquiry: ethnography and case study research. In addition to providing students with an understanding of the theoretical perspectives which underlie the methodological approach to case study and ethnographic research, the course is designed to provide numerous opportunities for students to learn and practice techniques for generating, analyzing, writing-up, and using both ethnographic and case study data.
Prerequisite: RMS 85516; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 85560 CRITICAL SOCIAL RESEARCH 3 Credit Hours
Critical social research refers to a diverse set of approaches to research that employ a critical ontological and epistemological lens. Critical researchers work from sets of assumptions about power in the social world articulated by some form of critical theory. This graduate course surveys a range of approaches to critical social research, engaging students in learning about the theoretical foundations and inquiry methods of these diverse approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RMS 88791 SEMINAR: EVALUATION AND MEASUREMENT 1-5 Credit Hours
(Repeatable for credit) Variable topic seminar for advance study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

RMS 88795 SPECIAL TOPICS: EVALUATION AND MEASUREMENT 1-3 Credit Hours
(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

RMS 88796 INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT 1-3 Credit Hours
(Repeatable for credit)Specific topic course offering in response to emerging student or program needs in evaluation and measurement.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

RMS 88798 RESEARCH IN EVALUATION AND MEASUREMENT 1-15 Credit Hours
(Repeatable for credit) Students pursue an individual research project on a specific topic in evaluation and measurement of education with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Sports Administration (SPAD)

SPAD 15000 INTRODUCTION TO SPORT ADMINISTRATION 3 Credit Hours
This course is designed to introduce students to the field of sport administration. Students will be made aware of the career options available to them in the sport management profession. All course materials, assignments and class discussions will emphasize both the understanding and application of key concepts across various aspects of the sport industry. Students will also be introduced to the sport administration major curriculum and requirements. Recommend first course in the sport administration program sequences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 25000 SPORT IN SOCIETY (DIVD) 3 Credit Hours
Analysis of how sport relates to the social relations and cultural values of United States society. The course is framed by a critical evaluative perspective, examining how social class, ethnicity, race and gender relations contour sport practices.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

SPAD 25092 PRACTICUM I IN SPORT ADMINISTRATION (ELR) 1-3 Credit Hours
(Repeatable for credit) A 105-hour (per credit) field experience in a sport administration setting.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 25192 PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT I (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) A cumulative 105-hour (per credit) on-campus seminar and field experience in a professional golf management setting.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 35021 GOVERNANCE IN SPORT 3 Credit Hours
Issues of governance in amateur and professional sports.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 35025 FACILITY MANAGEMENT 3 Credit Hours
Overview of planning, staffing, marketing and managing sport facilities and complexes. The primary emphasis in this course is on management, personnel and operations issues.
Prerequisite: Junior; or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 35065 HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) 3 Credit Hours
Historical and philosophical foundations of sport and physical education; a study of factors influencing pedagogical, curricular and evaluation decisions in sport and physical education programs today.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

SPAD 35092 PRACTICUM II IN SPORT ADMINISTRATION (ELR) 1-3 Credit Hours
(Repeatable for credit) A 105-hour (per credit) field experience in a sport management setting.
Prerequisite: SPAD 25092.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 35192 PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT II (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) A cumulative 105-hour (per credit) on-campus seminar and field experience in a professional golf management setting.
Prerequisite: SPAD 25192; and special approval.
Schedule Type: Practical Experience
Contact Hours: 7-21 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 43018 ETHICS IN SPORT 3 Credit Hours
(Slashed with SPAD 53018 and SPAD 73018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45020 ORGANIZATION, ADMINISTRATION AND LEADERSHIP IN SPORT 3 Credit Hours
Leadership is crucial in the sport industry. This course presents a wide array topics pertinent to leadership and administration in sport that will give students a better understanding of how to lead, serve and motivate the various constituent groups within the sport industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45022 EVENT PLANNING AND PRODUCTION 3 Credit Hours
(Slashed with SPAD 55022) Students learn the proper planning process that all sport events undergo. Students apply these concepts in actual events that they develop and hold.
Prerequisite: MKTG 25010; and junior or senior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

SPAD 45023 SPORT MARKETING 3 Credit Hours
The course, which is designed around market planning, examines how to formulate market ideas, incorporate market research, select segmentation, targeting and positioning strategies, implement sales and promotion strategies and assess control procedures within the sport and entertainment industry.
Prerequisite: MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45024 SPORT IN GLOBAL PERSPECTIVE 3 Credit Hours
(Slashed with SPAD 55024) Students critically analyze how sport relates to general features of globalization and provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics). The underlying assumption is that sport is part of a growing network of global inter-dependencies that bind human beings together.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45026 SPORT AND THE MEDIA 3 Credit Hours
(Slashed with SPAD 55026) Course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality and disability; an examination of the structure of sports journalism and production; and an analysis of the role of mediated sport in culture more generally. The roles of institutions, producers, texts and audiences and their relationships to each other are examined.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45027 PUBLIC RELATIONS AND PROMOTION IN SPORT 3 Credit Hours
Issues in public relations and promotion of sport such as advertising, crisis management, sales promotion and atmospherics.
Prerequisite: MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45029 HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS 3 Credit Hours
(Slashed with SPAD 55029) Examination of the historical development of athletics within American institutions of higher learning, with an emphasis upon concepts and ideals that underlie the developments and the major problems affecting contemporary intercollegiate athletics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45030 SPORT ENTERPRISE (WIC) 3 Credit Hours
This is a capstone course for sport administration majors. The course which is designed around business planning for sport, examines how to formulate business ideas, select a legal form of organization, locate financing sources, assess the market, develop a human resource management system and establish budget control.
Prerequisite: Senior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

SPAD 45031 SPORT TOURISM 3 Credit Hours
(Cross-listed with RPTM 45031) (Slashed with SPAD 55031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45032 SALES MANAGEMENT IN SPORT AND ENTERTAINMENT 3 Credit Hours
(Slashed with SPAD 55032) Students are introduced to the area of sales-force management in sport and entertainment. Historical, theoretical and conceptual frameworks are examined thoroughly, as well as functions, activities and skills of the professional salesperson in the age of information and technology.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45033 CHANGE YOUR MIND, GAME AND LIFE 1 Credit Hour
(Slashed with SPAD 55033) Course focuses students on mental training to enhance sport performance and have personal growth experiences. Course assists students to tap into their inner potential by refocusing their mind, to learn they are responsible for their own life experiences, to learn that the things they want most in their lives are found within themselves and to take responsibility for their upsets.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPAD 45034 ESPORT MANAGEMENT 3 Credit Hours
(Slashed with SPAD 55034) Students will learn about the esport industry, its consumer and constituents. Also, students will investigate the steps and components necessary to manage esport teams and esport events.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45035 SPORTS WAGERING 3 Credit Hours
(Slashed with SPAD 55035) This course investigates the sports wagering industry. Students will learn about the different forms of wagering, the statutes and cases impacting sports wagering as well as impact on society of increased access to sports wagering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45050 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours
(Slashed with SPAD 55050 and SPAD 75050) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 45091 SEMINAR FOR INTERNSHIP PREPARATION 1 Credit Hour
(Repeatable for credit) This course prepares the students for the internship experience in sport administration. Students must successfully complete this course prior to registering for internship.
Prerequisite: Minimum 2.500 overall GPA; Senior standing and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

SPAD 45092 INTERNSHIP IN SPORT ADMINISTRATION (ELR) 3-12 Credit Hours
(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved sport management setting. 50 contact hours per credit hour.
Prerequisite: SPAD 35092 and SPAD 45091; minimum 2.500 overall GPA; and special approval.
Schedule Type: Practical Experience
Contact Hours: 10-40 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 45096 INDIVIDUAL INVESTIGATION IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Individual investigation in sport administration. Faculty approval is required.
Prerequisite: Sport administration major; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

SPAD 45192 INTERNSHIP IN PROFESSIONAL GOLF MANAGEMENT (ELR) 2-12 Credit Hours
(Repeatable for credit)Supervised full-time experience providing knowledge of overall agency operation in approved sport administration, professional golf management setting. 100 contact hours per credit hour with seminar interactive requirements.
Prerequisite: SPAD 15015 and SPAD 25192; and special approval.
Schedule Type: Practical Experience
Contact Hours: 13-80 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPAD 46028 SPORT IN FILM 3 Credit Hours
(Slashed with SPAD 56028) Critically evaluates the role of sport in film as it relates to a variety of issues in society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 46080 LEGAL ISSUES IN SPORT AND RECREATION 3 Credit Hours
(Slashed with SPAD 56080) A discussion of legal issues as they apply to the sport and recreation industries.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 46095 SPECIAL TOPICS IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Special topics in Sport Administration.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPAD 50020 HIGH PERFORMANCE ATHLETES IN SPORT 3 Credit Hours
(Slashed with SEPP 40020) This course provides an understanding of various aspects of training, coaching, and best practices in working with athletes in a high-performance environment along with an emphasis on the social-psychological factors related to the successful performance of elite level athletes and teams.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 50221 EXERCISE PSYCHOLOGY 3 Credit Hours
(Slashed with SEPP 40221) This course is designed to examine the science and practice of exercise psychology from both a theoretical and applied perspective. Students will be engaged in a comprehensive inquiry into behaviors and lifestyles that influence physical and mental health from physical activity, exercise, and psychological lenses. Students will explore topics such as stress, anxiety, cognitive functioning, mood, body image, personality, emotion, and childhood inactivity/obesity as they relate to exercise behaviors and contexts. Students will gain a general understanding of issues in exercise psychology related to theory, practice, and research. In addition, students will develop practical skills to promote exercise adherence and create an exercise intervention program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 53018 ETHICS IN SPORT 3 Credit Hours
(Slashed with SPAD 43018 and SPAD 73018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 53093 VARIABLE TITLE WORKSHOP IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Topics vary in sport studies. Maximum 4 credit hours may be applied to degree.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SPAD 55007 PRINCIPLES AND APPLICATION OF SPORT PSYCHOLOGY 3 Credit Hours
(Slashed with SEPP 45007) This course encompasses the most current developments in the field of psychology with a strong foundation of the principles of human behavior in the sport and movement sciences. It incorporates sound practical theory with a focus on the application of that knowledge to be readily used by students in a range of sport and movement science careers; such as athletic training, coaching, sport management, consulting, physical education teachers and related areas with the goal to improve the sport performance and experience for all.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55022 EVENT PLANNING AND PRODUCTION 3 Credit Hours
(Slashed with SPAD 45022) Students learn the proper planning process that all sport events undergo. Students apply these concepts in actual events that they develop and hold.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

SPAD 55024 SPORT IN GLOBAL PERSPECTIVE 3 Credit Hours
(Slashed with SPAD 45024) Students critically analyze how sport relates to general features of globalization and provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics). The underlying assumption is that sport is part of a growing network of global inter-dependencies that bind human beings together.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55026 SPORT AND THE MEDIA 3 Credit Hours
(Slashed with SPAD 45026) Course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality and disability; an examination of the structure of sports journalism and production; and an analysis of the role of mediated sport in culture more generally. The roles of institutions, producers, texts and audiences and their relationships to each other are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55029 HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS 3 Credit Hours
(Slashed with SPAD 45029) Examination of the historical development of athletics within American institutions of higher learning, with an emphasis upon concepts and ideals that underlie the developments and the major problems affecting contemporary intercollegiate athletics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55031 SPORT TOURISM 3 Credit Hours
(Cross-listed with RPTM 45031) (Slashed with SPAD 45031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55032 SALES MANAGEMENT IN SPORT AND ENTERTAINMENT 3 Credit Hours
(Slashed with SPAD 45032) Students are introduced to the area of sales-force management in sport and entertainment. Historical, theoretical and conceptual frameworks are examined thoroughly, as well as functions, activities and skills of the professional salesperson in the age of information and technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55033 CHANGE YOUR MIND, GAME AND LIFE 1 Credit Hour
(Slashed with SPAD 45033) Course focuses students on mental training to enhance sport performance and have personal growth experiences. Course assists students to tap into their inner potential by refocusing their mind, to learn they are responsible for their own life experiences, to learn that the things they want most in their lives are found within themselves and to take responsibility for their upsets.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPAD 55034 ESPORT MANAGEMENT 3 Credit Hours
(Slashed with SPAD 45034) Students will learn about the esport industry, its consumer and constituents. Also, students will investigate the steps and components necessary to manage esport teams and esport events.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55035 SPORTS WAGERING 3 Credit Hours
(Slashed with SPAD 45035) This course investigates the sports wagering industry. Students will learn about the different forms of wagering, the statutes and cases impacting sports wagering as well as impact on society of increased access to sports wagering. Prerequisite: Graduate Standing
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

SPAD 55050 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours
(Slashed with SPAD 45050 and SPAD 75050) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 55300 MOTIVATION IN SPORT, PERFORMANCE, AND MOVEMENT SETTINGS 3 Credit Hours
(Slashed with SEPP 45300) This course provides an in-depth and wide-ranging look at motivational theories and its application to sport, performance and physical activity. It combines the many theoretical concepts of the diverse frameworks and principles with a survey of motivational interventions performed in the sport domain. Students will leave the class with a rigorous and comprehensive knowledge of constructs, cutting-edge research, effective interventions and future outlook of motivation in sport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 56028 SPORT IN FILM 3 Credit Hours
(Slashed with SPAD 46028) Critically evaluates the role of sport in film as it relates to a variety of issues in society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 56080 LEGAL ISSUES IN SPORT AND RECREATION 3 Credit Hours
(Slashed with SPAD 46080) A discussion of legal issues as they apply to the sport and recreation industries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 58225 SPORT PERFORMANCE PSYCHOLOGICAL INTERVENTIONS 3 Credit Hours
(Slashed with SEPP 48225) This course combines the theoretical concepts of sport and performance psychology with applied skill development to enhance performance. Students will gain knowledge of psychological skills training, learn techniques and develop confidence in their skills to work with athletes and performers. The focus of this course in on both, educational psychological interventions for personal development as well as teaching athletes strategies to enhance mental skill. Learning will be done hands-on, via case studies or scenario-based activities. Through the course of this class this course, students will create and present their individual program for an athlete or performer. This course will include learning and understanding the APA/AASP ethics' code to develop awareness of the boundaries of ethical conduct of the profession.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 63091 RESEARCH SEMINAR 1 Credit Hour
(Slashed with SPAD 73091) Presentation and discussion of research by faculty and students. Maximum 2 credit hours may be applied toward degree requirements.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

SPAD 63096 INDIVIDUAL INVESTIGATION IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for maximum 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

SPAD 63098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

SPAD 63195 SPECIAL TOPICS IN SPORT ADMINISTRATION 1-3 Credit Hours
(Repeatable for credit) Selected and varied topics of relevance in sport administration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPAD 63199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Highly-individualized investigative study resulting in developing and writing a scholarly, comprehensive paper. Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPAD 63299 THESIS II 2 Credit Hours
Highly-individualized investigative study resulting in developing and writing a scholarly, comprehensive paper. Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SPAD 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPAD 65006 CONTEMPORARY ISSUES IN SPORT MANAGEMENT 3 Credit Hours
(Slashed with SPAD 75006) A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65008 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY 3 Credit Hours
(Slashed with SPAD 75008) Sociological analysis of sport from a theoretical and empirical perspective.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65021 ORGANIZATION AND MANAGEMENT OF SPORTS PROGRAMS 3 Credit Hours
A study of the pragmatic understanding necessary in the organization and management of a sports program at the high school, college or professional level.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65033 SPORT LAW 3 Credit Hours
Course provides students with a basic understanding of tort, contract and constitutional law in relation to sport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65034 CONTEMPORARY SPORT LAW 3 Credit Hours
(Slashed with SPAD 75034) Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports.
Prerequisite: SPAD 65033; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65036 SPORT IN HIGHER EDUCATION 3 Credit Hours
Identification of contemporary problems and issues in collegiate sport, their history and the role of sport in colleges and universities now and in the future.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65037 NATIONAL COLLEGIATE ATHLETIC ASSOCIATION COMPLIANCE ADMINISTRATION 3 Credit Hours
This course introduces students to basic NCAA compliance principles and the NCAA rules that affect the administration of a college athletic department. This course offers an understanding of the structure and function of a Division I compliance operation and explores compliance at the Divisions II & III level. The governing principles of institutional control and ethical conduct will be explored from a compliance perspective.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65038 SPORT PROMOTION AND FUNDRAISING 3 Credit Hours
(Slashed with SPAD 75038) Analysis of contemporary sports promotions strategies, as well as promotion of fundraising tactics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65039 FINANCIAL ASPECTS OF SPORT 3 Credit Hours
Review of basic accounting, sources and uses of funds, capital budgeting, leasing and investments as they apply in a sports context. Students are introduced to financial software used in the sport industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65040 SPORT ECONOMICS 3 Credit Hours
Course provides students with key economic theories and principles as applied to the sport industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65042 LEADERSHIP OF SPORT 3 Credit Hours
Study of theoretical and applied constructs foundational to the leadership behavior applied to sport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65045 SPORT MARKETING 3 Credit Hours
Students develops an understanding of strategic marketing concepts and principles as they apply to the context of sport and entertainment. Students examine a variety of topics related to the marketing mix, consumer/fan behavior and research methodology. They also explore sport, entertainment and business organization relationships.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65046 FACILITY MANAGEMENT AND OPERATIONS 3 Credit Hours
Analysis of management competencies necessary to operate sport facilities. Conceptual and technical aspects of planning and design are introduced.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65048 INTRAMURAL AND CLUB SPORT ADMINISTRATION 3 Credit Hours
Students focus on developing an understanding of how these programs work and what role they play in various recreational environments. Course emphasizes decision-making techniques and communication skills leading to effective planning, organizing and managing a recreational sports-related service or product.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 65092 INTERNSHIP IN SPORT ADMINISTRATION 2-4 Credit Hours
(Repeatable for credit) Field experience involving supervised contact with sport administrators. Students work as an understudy with these administrators in all phases of their positions.
Prerequisite: Graduate standing and special approval.
Schedule Type: Practical Experience
Contact Hours: 13-27 other
Grade Mode: Standard Letter-IP

SPAD 73018 ETHICS IN SPORT 3 Credit Hours
(Slashed with SPAD 43018 and SPAD 53018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 73091 RESEARCH SEMINAR 1 Credit Hour
(Slashed with SPAD 63091) Presentation and discussion of research by faculty and students. Maximum 2 credit hours may be applied toward degree requirements.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

SPAD 75006 CONTEMPORARY ISSUES IN SPORT MANAGEMENT 3 Credit Hours
(Slashed with SPAD 65006) A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 75008 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY 3 Credit Hours
(Slashed with SPAD 65008) Sociological analysis of sport from a theoretical and empirical perspective.
Prerequisite: SPAD 75006; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 75034 CONTEMPORARY SPORT LAW 3 Credit Hours
(Slashed with SPAD 65034) Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 75038 SPORT PROMOTION AND FUNDRAISING 3 Credit Hours
(Slashed with SPAD 65038) Analysis of contemporary sports promotions strategies, as well as promotion of fundraising tactics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPAD 75050 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours
(Slashed with SPAD 45050 and SPAD 55050) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Career and Academic Advising - Graduate Certificate

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Career and Academic Advising graduate certificate meets the needs of students interested in learning more about academic and career advising and/or aspiring to work in academic advising or career services or to become a credentialed career development facilitator. Furthermore, this certificate program is appropriate for professionals currently employed in career services settings, including counseling supervisors, counselors, career advisors, career specialists, school counselors, workforce development specialists and academic advisors.

Contact Information

- **Michael Daniels** | mdanie10@kent.edu
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education administrators, postsecondary

- 3.7% about as fast as the average
- 190,500 number of jobs
- $97,500 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale[1]

- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Interview
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] Post-baccalaureate work may be taken into consideration when interpreting the GPA for admission.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
CES 68182	CAREER COUNSELING	3
HIED 66653	COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE	3
HIED 66679	CAREER ADVISING: THEORY AND PRACTICE	3
Certificate Electives, choose from the following:		6
CES 67531	COUNSELING SKILLS AND TECHNIQUES	
HIED 66733	INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS	
HIED 66492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION [1]	
HIED 66677	WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES	
HIED 66681	ADMINISTRATION OF ADVISING SERVICES	
Other course as approved by faculty advisor		
Minimum Total Credit Hours:		**15**

[1] Students must have completed at least 6 credit hours in the certificate program before applying for an internship. Internships must be in settings suitable for academic and career advising services.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

College Teaching - Graduate Certificate

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The College Teaching graduate certificate is designed for graduate students and professionals already possessing an advanced disciplinary degree who wish to improve their teaching skills or those looking to transition to a teaching career in higher education. The program is designed to enhance teaching effectiveness through an internship and courses focused on diversity, assessment and curriculum. Read more...

Contact Information

- **Erica Eckert, Ph.D.** | eeckert@kent.edu | 330-672-2012

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Applications to the online offering of the Academic Affairs in Higher Education graduate certificate are not being accepted at this time.

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Minimum 2.750 graduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
HIED 66594	INTERNSHIP IN COLLEGE TEACHING [1]	3
HIED 66660	FACULTY ROLES AND RESPONSIBILITIES	3
Certificate Electives, choose from the following:		9
HIED 66600	HISTORY OF HIGHER EDUCATION	
HIED 66601	THE PRIVATE LIBERAL ARTS COLLEGE	
or HIED 66658	THE COMMUNITY COLLEGE	
HIED 66652	LAW AND HIGHER EDUCATION	
HIED 66653	COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE	
HIED 66656	HIGHER EDUCATION CURRICULUM	
HIED 66671	THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION	
HIED 66749	ASSESSMENT AND ACCREDITATION IN HIGHER EDUCATION	
Other approved elective		
Minimum Total Credit Hours:		**15**

[1] Internship may be waived pending faculty approval. Students will complete the minimum credit hours toward certificate completion by taking more elective courses.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from

another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Full Description

The Academic Affairs in Higher Education graduate certificate enhances teaching competencies at the post-secondary level. It is particularly appropriate for graduate students from any discipline interested in a career in college teaching, but also for full- and part-time faculty who are currently engaged in a career in academia.

Students may select from a variety of courses focused on crucial issues faced by academic administrators and faculty at colleges and universities. These courses are intended to help faculty and administrators better serve the diverse needs of students and consciously improve the academic experience.

Additionally, students in the certificate are encouraged to take teaching courses offered within their specific discipline as part of the certificate requirements as appropriate. The certificate includes an internship in college teaching.

Community College Leadership - Graduate Certificate

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Community College Leadership graduate certificate prepares and enhances the skills of administrators, staff and faculty in community colleges and regional campuses to meet the leadership challenges posed by social, political and economic changes. The program provides knowledge and skills development in the areas of administration; curriculum; contemporary issues; student development and learning; community college purpose and roles; and workforce, economic and community development. This certificate is designed in alignment with the competencies for community college leaders established by the American Association of Community Colleges.

Contact Information

- **Kayon Hall, Ph.D.** | khall101@kent.edu
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education administrators, postsecondary

- 3.7% about as fast as the average
- 190,500 number of jobs
- $97,500 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university (master's preferred)
- Minimum 2.750 undergraduate GPA on a 4.000-point scale[1]
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] Post-baccalaureate work will be taken into consideration when interpreting GPA for admission.
[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
HIED 66492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION [1]	3
HIED 66653	COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE	3
HIED 66658	THE COMMUNITY COLLEGE	3
HIED 66677	WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES	3
HIED 66678	ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION	3
Minimum Total Credit Hours:		**15**

[1] Students must have completed at least 6 credit hours in the certificate program before applying for an internship. Internships must be at community colleges or regional/extended campuses. With advisor approval this requirement can be substituted with one additional elective course. Elective with HIED 66492 waiver may include HIED 66656.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

Program Learning Outcomes

Graduates of this program will be able to:

1. Articulate the significant administrative- and mission-related differences between community colleges and baccalaureate-awarding institutions.

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Cultural Foundations - M.A.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

Explore education in its social and cultural contexts through a range of disciplinary and interdisciplinary perspectives with the M.A. in Cultural Foundations. This program will help you develop the knowledge and skills to analyze and critique policies, and promote innovative practices in schools, cultural institutions and civic associations worldwide. Read more...

Contact Information

- **Tricia Niesz** | tniesz@kent.edu | 330-672-0591
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Mostly online
  - In person
- **Location:**
  - Kent Campus

Applications to the M.A. in Cultural Foundations are not being accepted at this time.

Examples of Possible Careers and Salaries*

Education administrators, postsecondary

- 3.7% about as fast as the average
- 190,500 number of jobs
- $97,500 potential earnings

Education administrators, kindergarten through secondary

- 3.9% about as fast as the average
- 283,200 number of jobs
- $98,490 potential earnings

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Applications to the M.A. in Cultural Foundations are not being accepted at this time.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Applicants will be assessed holistically, considering academic credentials, related professional experience, academic or professional references, scholarly activities and professional activities, among others.

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	3
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
or EPSY 65523	LIFE SPAN DEVELOPMENT	
or EPSY 65524	LEARNING THEORIES	
RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Major Electives, choose from the following:		15
CULT 60030	SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY	
CULT 69510	CLASSICS IN PHILOSOPHY OF EDUCATION	
CULT 69521	MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY	
CULT 69522	ETHICS IN PROFESSIONAL PRACTICE	
CULT 69530	MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION	
CULT 69560	CONTEMPORARY PHILOSOPHY OF EDUCATION	
CULT 69564	HISTORY OF AMERICAN EDUCATION	
CULT 69569	INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES	
CULT 69571	GLOBALIZATION AND EDUCATION	
CULT 69575	ANTHROPOLOGY AND EDUCATION	
CULT 69582	SOCIAL THEORIES IN EDUCATION	
CULT 69591	SEMINAR IN CULTURAL FOUNDATIONS	
CULT 69595	SPECIAL TOPICS IN CULTURAL FOUNDATIONS	
CULT 69691	VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION	
Other electives with faculty advisor approval		
Culminating Requirement		
CULT 60199	THESIS I	6
Minimum Total Credit Hours:		**30**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students have six years from the term of first enrollment to complete the program.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate an understanding of the social, cultural, economic and political assumptions shaping educational policies and reforms in the United States and other societies.

2. Understand the nature of the democratic challenge for schooling in answering such foundational questions as: "What should be taught?" "Who should be taught?" and "Who should teach?"
3. Demonstrate an understanding of the convergence of social class, race, gender, sexual orientation and disability as barriers to and opportunities for educational change, domestically and internationally.

Full Description

The Master of Arts degree in Cultural Foundations explores education through a range of disciplinary and interdisciplinary perspectives: philosophy of education, history of education, sociology of education, comparative/international education, anthropology of education, gender studies, multicultural studies and religious studies. Students examine the social contexts of education, with particular emphasis on structural inequalities, issues of access, and the distribution of educational opportunity, normative considerations about the purposes of education and the transformative potential of education.

The degree program promotes students' responsibilities as change agents in a range of educational settings, including schools, cultural and religious institutions and civic associations. Graduates of the program have the knowledge and skills to interpret and critique educational policies and practices and to promote innovative practices in a variety of educational settings, domestically and worldwide.

Students in the M.A. degree write a thesis on an educational topic of their own choosing. Thesis students work closely with their academic supervisor to generate a thesis topic and design a research study or undertake a scholarly analysis of an issue of interest to the student.

Cultural Foundations - M.Ed.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

Embrace a multidisciplinary approach to education with our M.Ed. degree in Cultural Foundations, in which you'll gain expertise in areas such as sociology of education, philosophy of education and multicultural studies, positioning you as a leader in promoting positive change in education. Read more...

Contact Information

- **Tricia Niesz** | tniesz@kent.edu | 330-672-0591
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Kent Campus

Examples of Possible Careers

- Educators in formal and non-formal settings
- Leaders in educational, cultural, and community-based organizations

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Résumé or curriculum vitae
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 1ELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Applicants will be assessed holistically, considering academic credentials, related professional experience, academic or professional references, scholarly activities and professional activities, among others.

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CULT 60011	SEMINAR IN EDUCATIONAL FOUNDATIONS: PRINCIPLES AND PRACTICES	3
CULT 60040	APPROACHES TO COMMUNITY ENGAGED INQUIRY	3
CULT 69592	ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS	3
Major Electives, choose from the following:		18
CULT 60030	SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY	
CULT 69510	CLASSICS IN PHILOSOPHY OF EDUCATION	
CULT 69521	MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY	
CULT 69522	ETHICS IN PROFESSIONAL PRACTICE	

CULT 69530	MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION	
CULT 69560	CONTEMPORARY PHILOSOPHY OF EDUCATION	
CULT 69564	HISTORY OF AMERICAN EDUCATION	
CULT 69575	ANTHROPOLOGY AND EDUCATION	
CULT 69582	SOCIAL THEORIES IN EDUCATION	
CULT 69591	SEMINAR IN CULTURAL FOUNDATIONS	
CULT 69595	SPECIAL TOPICS IN CULTURAL FOUNDATIONS	
CULT 69691	VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION	
Other electives with faculty advisor approval		
Culminating Requirement		
CULT 69999	CAPSTONE	3
Minimum Total Credit Hours:		**30**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students have six years from the term of first enrollment to complete the program.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

First Year		
Fall Semester		**Credits**
CULT 60011	SEMINAR IN EDUCATIONAL FOUNDATIONS: PRINCIPLES AND PRACTICES	3
Major Elective		3
	Credit Hours	**6**
Spring Semester		
Major Elective		3
Major Elective		3
	Credit Hours	**6**
Summer Term		
Major Elective		3
Major Elective		3
	Credit Hours	**6**
Second Year		
Fall Semester		
CULT 60040	APPROACHES TO COMMUNITY ENGAGED INQUIRY	3
CULT 69592	ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS	3
	Credit Hours	**6**
Spring Semester		
CULT 69999	CAPSTONE	3
Major Elective		3
	Credit Hours	**6**
	Minimum Total Credit Hours:	**30**

Program Learning Outcomes

Graduates of the program will be able to:

1. Use perspectives from the sociocultural foundations of education to identify and explore problems of practice.
2. Lead community-engaged inquiry to address problems of practice collaboratively in partnership with diverse communities and with local cultural and educational organizations.
3. Enact commitments to equity and social justice through work as scholarly practitioners, educators and leaders.

Full Description

The Master of Education degree in Cultural Foundations engages students in the exploration of education through a range of disciplinary and interdisciplinary perspectives from the humanities and social sciences. Students examine the social contexts of education with particular emphasis on structural inequities; issues of access and the distribution of educational opportunity; normative considerations about the purposes of education; and the transformative potential of education. Students learn to use these perspectives to identify problems of practice through their work as educators and leaders in communities, cultural organizations and educational organizations. To address these problems of practice, students learn to conduct community-engaged inquiry in partnership with stakeholders and communities.

Cultural Foundations - Ph.D.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

Empower yourself as a thought leader in education with our Ph.D. degree in Cultural Foundations, offering a comprehensive curriculum that prepares you to critically examine, interpret and shape educational policies and practices, driving positive change in the field. Read more...

Contact Information

- **Tricia Niesz** | tniesz@kent.edu | 330-672-0591
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Partly online and partly in person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education administrators, postsecondary

- 3.7% about as fast as the average
- 190,500 number of jobs
- $97,500 potential earnings

Education administrators, kindergarten through secondary

- 3.9% about as fast as the average
- 283,200 number of jobs
- $98,490 potential earnings

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Minimum 3.500 graduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement that describes the applicant's educational background, their motivation for pursuing a doctorate in the cultural foundations of education, how they learned about this program, and how they think this program will help them pursue their goals.
- Two letters of recommendation, one of which should be from a former instructor if possible
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Applicants will be assessed holistically, considering academic credentials, related professional experience, academic or professional references, scholarly activities and professional activities, among others.

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 15
- **Spring Semester**
  - Priority deadline: October 15
- **Summer Term**
  - Priority deadline: February 1

Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CULT 80050	HUMANITIES-ORIENTED RESEARCH IN EDUCATION	3
CULT 80090	DOCTORAL RESIDENCY SEMINAR	3
CULT 89581	PROSEMINAR IN CULTURAL FOUNDATIONS	3
Research, Measurement and Statistics (RMS) doctoral-level electives, as approved by advisor		6
Specialized Research as approved by faculty advisor		3
Cultural Foundations courses, choose from the following:		27
CULT 70093	VARIABLE TOPIC WORKSHOP IN CULTURAL FOUNDATIONS	
CULT 76001	PRINCIPLES AND METHODS OF COMMUNITY INCLUSION	
CULT 77015	DISABILITY, SOCIETY AND CULTURE	
CULT 79510	CLASSICS IN PHILOSOPHY OF EDUCATION	
CULT 79530	MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION	
CULT 79560	CONTEMPORARY PHILOSOPHY OF EDUCATION	
CULT 79564	HISTORY OF AMERICAN EDUCATION	
CULT 79575	ANTHROPOLOGY AND EDUCATION	
CULT 80040	APPROACHES TO COMMUNITY ENGAGED INQUIRY	
CULT 80030	SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY	
CULT 89521	MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY	
CULT 89522	ETHICS IN PROFESSIONAL PRACTICE	
CULT 89582	SOCIAL THEORIES IN EDUCATION	
CULT 89592	ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS	
CULT 89595	SPECIAL TOPICS IN CULTURAL FOUNDATIONS	
CULT 89596	INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS	
CULT 89598	RESEARCH IN CULTURAL FOUNDATIONS	
CULT 89691	VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION	

Other courses, as approved by faculty advisor		
Culminating Requirement		
CULT 80199	DISSERTATION I [1]	30
Minimum Total Credit Hours:		**75**

[1] Upon admission to candidacy each doctoral candidate, must register for CULT 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter CULT 80299, each semester until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- After admission to the program, students plan a program of study with their respective faculty advisory committee headed by their advisor. A midpoint formative review presentation, comprehensive exam, and dissertation are required for graduation.

Program Learning Outcomes

Graduates of the program will be able to:

1. Analyze the dynamic historical, social, cultural, economic and political contexts of education in and out of school from normative, interpretive and critical perspectives.
2. Examine the philosophical, ethical, social and cultural dimensions of education.
3. Develop expertise in the range of social science and humanities-oriented research methods and modes of analysis in the field of social foundations of education.
4. Conduct independent research that makes a contribution to original knowledge in the field as well as the intellectual and organizational aspects of their professions, schools and communities.

Full Description

The Ph.D. degree program in Cultural Foundations engages students in analyzing the dynamic historical, social, cultural, economic and political contexts of education in and out of school from normative, interpretive and critical perspectives. Students also examine the philosophical, ethical, social and cultural dimensions of education and develop expertise in the range of social science and humanities-oriented research methods and modes of analysis in the field of social foundations of education. Students in the doctoral program work closely with faculty to apply their learning to their areas of professional and personal interest, generating dissertation projects that make a contribution to original knowledge in the field as well as the intellectual and organizational aspects of their professions, organizations and communities.

Disability Studies and Community Inclusion - Graduate Certificate

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Disability Studies and Community Inclusion graduate certificate prepares students to be leaders in promoting the inclusion of people with disabilities in all aspects of life and across the lifespan. The focus is to understand the nature, meaning, health, social and political implications and consequences of disability within the context of a diverse and global world.

Following guidelines from the Society for Disability Studies, the certificate is interdisciplinary – challenges the view of disability as an individual defect that can be remedied through medical intervention and includes national and international perspectives, policies, literature, culture and history.

Contact Information

- **Mary Ann Devine** | mdevine@kent.edu | 330-672-0214
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Area, ethnic, and cultural studies teachers, postsecondary

- 4.9% about as fast as the average
- 13,400 number of jobs
- $78,840 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement and professional objectives
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]

- Minimum 79 TOEFL iBT score
- Minimum 6.5 IELTS score
- Minimum 58 PTE score
- Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
CULT 56001	PRINCIPLES AND METHODS OF COMMUNITY INCLUSION	3
CULT 67015	DISABILITY, SOCIETY AND CULTURE	3
Certificate Electives, choose from the following:		9
ARCH 55640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
COMM 55459	COMMUNICATION AND CONFLICT MANAGEMENT	
CRIM 66761	LAW, JUSTICE AND SOCIETY	
CULT 69510	CLASSICS IN PHILOSOPHY OF EDUCATION	
CULT 69691	VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION	
EPI 63021	ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH	
GEOG 59072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
GERO 50656	PSYCHOLOGY OF AGING	
HCD 63001	EVIDENCE-BASED DESIGN IN HEALTHCARE	
HCD 63004	ENVIRONMENTS OF CARE AND PATIENT POPULATIONS	
HDF 54023	BUILDING FAMILY STRENGTHS	
HED 52779	HAPPINESS AND HEALTH	
HED 64050	HEALTH BEHAVIOR	
HED 54051	BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION	
HPM 62017	HEALTHCARE LAW AND REGULATION	
HPM 63007	PUBLIC HEALTH PROGRAMS: PLANNING, IMPLEMENTATION AND EVALUATION	
HPM 63020	COMMUNITY HEALTH NEEDS ASSESSMENT	
NURS 60024	HEALTH CARE ORGANIZATION, STRUCTURE AND BEHAVIOR	
NURS 70680	POPULATION HEALTH [1]	
PADM 60310	LEADERSHIP IN THE NONPROFIT AND PUBLIC SECTOR	
SBS 64600	EMERGING ISSUES IN LGBTQ+ PUBLIC HEALTH PRACTICE	
SBS 64630	SEXUAL ORIENTATION AND GENDER IDENTITY IN PUBLIC HEALTH PRACTICE	
SBS 64634	SOCIAL DETERMINANTS OF HEALTH BEHAVIORS	
SOC 52563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SOC 62877	SOCIOLOGY OF AGING AND THE LIFE COURSE	
SPA 54010	SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS	
SPA 54309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS	
SPA 70627	MULTICULTURAL ISSUES IN AUDIOLOGY [1]	
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	
SPED 53050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS	
SPED 53051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS	
SPED 53070	PLANNING AND PROGRAMMING FOR TRANSITIONS	
SPED 53101	DEAF CULTURE AND COMMUNITY	
SPED 53309	INTRODUCTION TO DEAF STUDIES	
SPED 54309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS	
SPED 63959	MEDICAL ASPECTS OF LIFESPAN DISABILITIES	
SPED 80040	RESEARCH GRANT DEVELOPMENT FOR DISABILITY PROGRAMS [1]	
UX 60501	INTRODUCTION TO USER EXPERIENCE	
UX 60504	ACCESSIBILITY AND UNIVERSAL DESIGN	
Minimum Total Credit Hours:		**15**

[1] Only students admitted to a doctoral degree may register for the doctoral-level courses (70000 and 80000 levels).

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the the nature, social meaning, health and power structure related to disability.
2. Explain the social, political and cultural implications of disability.
3. Analyze the consequences of disability within the context of a diverse and global world.

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.

- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Disability Studies and Community Inclusion - Minor

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Disability Studies and Community Inclusion minor prepares students to be leaders in promoting greater inclusion of people with disabilities in all aspects of life and across the lifespan. The minor enhances students' knowledge and skills by preparing them to understand and comply with the Americans with Disabilities Act (ADA); provide services to people with disabilities in a variety of settings; and understand: the nature of disabilities, the meaning of disability in society, social, political and health implications of disability, and the methods of accommodations that aid in making society more inclusive to those who live with disabilities.

Contact Information

- **Mary Ann Devine** | mdevine@kent.edu | 330-672-0214
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
CULT 26001	INTRODUCTION TO DISABILITY STUDIES	3
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	3
or SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
CULT 46001	PRINCIPLES AND METHODS OF COMMUNITY INCLUSION	3
Minor Electives, choose from the following:		9
ANTH 48250	MEDICAL ANTHROPOLOGY (DIVG)	
ARTE 41002	ART EDUCATION: FOUNDATIONS AND CONCEPTS - SECONDARY (ELR)	
ARTE 41192	ART EDUCATION: FIELD EXPERIENCE (ELR) (WIC)	
BSCI 30130	HUMAN PHYSIOLOGY	
BUS 10123	EXPLORING BUSINESS	
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
COMM 45459	COMMUNICATION AND CONFLICT MANAGEMENT	
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	
DAN 27076	DANCE AS AN ART FORM (DIVG) (KFA)	
DAN 37010	DANCE PEDAGOGY	
DAN 37020	TEACHING DANCE AND MOVEMENT FOR NONTRADITIONAL POPULATIONS	
ENG 39895	SPECIAL TOPICS IN RHETORIC, COMPOSITION AND WRITING	
EXSC 35075	EXERCISE PROGRAMMING	
EXSC 40612	EXERCISE LEADERSHIP FOR THE OLDER ADULT	
EXSC 45065	EXERCISE TESTING	
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
HDF 44020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
HDF 44021	FAMILY INTERVENTION AND ADVOCACY	
PESP 45037	ADAPTED PHYSICAL EDUCATION	
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	
PHIL 40005	HEALTH CARE ETHICS	
PLST 38003	ADMINISTRATIVE LAW AND PROCESS	
POL 40320	ETHICS AND PUBLIC POLICY	

PSYC 31532	SOCIAL PSYCHOLOGY
PSYC 40112	PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE
RPTM 36040	INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)
SOC 22570	UNDERSTANDING DIFFERENCES AND INEQUALITY
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)
SOC 32400	INDIVIDUAL AND SOCIETY
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)
SPED 43030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES
SPED 43050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS
SPED 43051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS
SPED 43070	PLANNING AND PROGRAMMING FOR TRANSITIONS
SPED 43309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC)
Minimum Total Credit Hours:	**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this minor will be able to:

1. Apply the principles of inclusion of people with disabilities in community contexts from legal, theoretical, and best-practice perspectives.
2. Identify etiological, biological, psychological, and physiological aspects of various disabilities and characteristics of specific disabilities from a strengths-based approach.
3. Design, implement, and evaluate accommodations for people with disabilities to be included in community contexts using a strengths-based approach.
4. Fulfill organizational leadership roles to aid organizations.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Educational Leadership K-12 - Ed.S.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Educational Specialist degree in Educational Leadership–K-12 provides continuing educational opportunities for practitioners who wish to hold professional leadership positions such as director of instruction, special subject/area coordinator, director of staff development, director of research and director of pupil services.

Contact Information

- School of Foundations, Leadership and Administration | 330-672-2012

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to Ed.S. in Educational Leadership K-12 are not being accepted at this time

Examples of Possible Careers and Salaries*

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education administrators, kindergarten through secondary

- 3.9% about as fast as the average
- 283,200 number of jobs
- $98,490 potential earnings

Education administrators, postsecondary

- 3.7% about as fast as the average
- 190,500 number of jobs
- $97,500 potential earnings

Education and childcare administrators, preschool and daycare

- 1.0% slower than the average
- 69,200 number of jobs
- $49,160 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to Ed.S. in Educational Leadership K-12 are not being accepted at this time

- Master's degree from an accredited college or university
- Minimum 3.250 graduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	3
or RMS 75510	STATISTICS I FOR EDUCATIONAL SERVICES	
Major Electives, choose from the following:		27
EDLE 66492	INTERNSHIP IN EDUCATIONAL ADMINISTRATION	
EDLE 66515	FACILITIES PLANNING AND ADMINISTRATION	
EDLE 66517	ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION	
EDLE 66518	SCHOOL AND SPECIAL EDUCATION LAW	
EDLE 66520	SCHOOL LAW FOR TEACHERS AND PRINCIPALS	
EDLE 66522	PUBLIC SCHOOL FINANCE AND ECONOMICS	
EDLE 66525	THE EDUCATIONAL PRINCIPALSHIP	
EDLE 66526	FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION	
EDLE 66527	SCHOOL FINANCE FOR BUILDING ADMINISTRATORS	
EDLE 66529	LEADING FOR SOCIAL JUSTICE	
EDLE 66531	INSTRUCTIONAL LEADERSHIP	
EDLE 66533	CENTRAL OFFICE ADMINISTRATION: CURRICULUM AND PUPIL SERVICES	
EDLE 66534	THE SUPERINTENDENCY	
EDLE 66536	THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT	
EDLE 66538	ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORMS	
EDLE 66540	WOMEN IN LEADERSHIP	
EDLE 66542	PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION	
EDLE 66543	SCHOOL ADMINISTRATION IN URBAN SETTINGS	
EDLE 66544	COMMUNITY RELATIONS AND COMMUNICATION SKILLS	
EDLE 66595	SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION	
EDLE 66598	RESEARCH IN EDUCATIONAL ADMINISTRATION	
EDLE 66602	TECHNOLOGY LEADERSHIP IN EDUCATION	
EDLE 66747	PERSONNEL	
Minimum Total Credit Hours:		**30**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Facilitate collaboratively the development, articulation, implementation and stewardship of a shared school vision of learning through the collection and use of data to identify school goals.
2. Sustain a school culture and instructional program conducive to student learning through collaboration, trust and a personalized learning environment with high expectations for students.
3. Create and evaluate a comprehensive, rigorous and coherent curricular and instructional school program.
4. Act in an ethical manner with integrity and fairness to ensure a school system of accountability for every student's academic and social success by modeling school principles of self-awareness, reflective practice, transparency and ethical behavior as related to their roles within the school.
5. Safeguard the values of democracy, equity and diversity within the school.
6. Evaluate the potential moral and legal consequences of decision-making in the school.
7. Promote social justice within the school to ensure that individual student needs inform all aspects of schooling.

Educational Leadership K-12 - M.Ed.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Master of Education degree in Educational Leadership–K-12 prepares teachers to become administrators in public and private school settings. This is an academically rigorous and experientially intense program, where future school leaders are challenged to excel and take their learning and potential to the next level by developing knowledge and understanding of current and developing leadership theories and practices in a democratic society.

Contact Information

- School of Foundations, Leadership and Administration | 330-672-2012

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the M.Ed. in Educational Leadership K-12 are not being accepted at this time.

Examples of Possible Careers and Salaries*

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education administrators, kindergarten through secondary

- 3.9% about as fast as the average
- 283,200 number of jobs
- $98,490 potential earnings

Education administrators, postsecondary

- 3.7% about as fast as the average
- 190,500 number of jobs
- $97,500 potential earnings

Education and childcare administrators, preschool and daycare

- 1.0% slower than the average
- 69,200 number of jobs
- $49,160 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.Ed. in Educational Leadership K-12 are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- GRE scores required if undergraduate GPA is below 3.000
- Goal statement
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
EDLE 66518	SCHOOL AND SPECIAL EDUCATION LAW	3
EDLE 66525	THE EDUCATIONAL PRINCIPALSHIP	3
EDLE 66526	FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION	3
EDLE 66527	SCHOOL FINANCE FOR BUILDING ADMINISTRATORS	3
EDLE 66529	LEADING FOR SOCIAL JUSTICE	3
EDLE 66531	INSTRUCTIONAL LEADERSHIP	3
EDLE 66536	THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT	3
EDLE 66542	PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION	3
EDLE 66544	COMMUNITY RELATIONS AND COMMUNICATION SKILLS	3
RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Minimum Total Credit Hours:		**30**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.

- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Facilitate collaboratively the development, articulation, implementation and stewardship of a shared school vision of learning through the collection and use of data to identify school goals.
2. Sustain a school culture and instructional program conducive to student learning through collaboration, trust and a personalized learning environment with high expectations for students.
3. Create and evaluate a comprehensive, rigorous and coherent curricular and instructional school program.
4. Act in an ethical manner with integrity and fairness to ensure a school system of accountability for every student's academic and social success by modeling school principles of self-awareness, reflective practice, transparency and ethical behavior as related to their roles within the school.
5. Safeguard the values of democracy, equity and diversity within the school.
6. Evaluate the potential moral and legal consequences of decision-making in the school.
7. Promote social justice within the school to ensure that individual student needs inform all aspects of schooling.

Educational Leadership K-12 - Ph.D.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Ph.D. degree in Educational Leadership—K-12 prepares scholarly practitioners and practicing scholars to lead complex educational settings.Graduates are employed in public and private institutions at the pre-kindergarten to grade 12 and higher educational levels, as well as in non-school settings, both public and private.

Contact Information

- School of Foundations, Leadership and Administration | 330-672-2012

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to Ph.D. in Educational Leadership K-12 are not being accepted at this time

Examples of Possible Careers and Salaries*

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education administrators, kindergarten through secondary

- 3.9% about as fast as the average
- 283,200 number of jobs
- $98,490 potential earnings

Education administrators, postsecondary

- 3.7% about as fast as the average
- 190,500 number of jobs
- $97,500 potential earnings

Education and childcare administrators, preschool and daycare

- 1.0% slower than the average
- 69,200 number of jobs
- $49,160 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to Ph.D. in Educational Leadership K-12 are not being accepted at this time

- Master's degree from an accredited college or university
- Minimum 3.500 GPA on a 4.000-point scale
- Official transcript(s) from each college or university in which 8 semester credit hours or 12 quarter credit hours were earned
- Detailed résumé or curriculum vitae
- Goal statement
- Two letters of recommendation (minimum one academic reference is preferred)
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Program faculty attempt a holistic evaluation of applicants for the Ph.D.degree.

In addition to the criteria above, admission is based on work experience, prior leadership, professionalism and ethics, interpersonal skills and performance during the interview. Students may submit materials they feel will more accurately reflect their potential to succeed within the program (e.g., master's thesis, publications).

[1] International applicants who do not meet the above test scores will not be considered for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Educational Leadership K-12 Electives (EDLE 70000 or 80000 level)		39
Evaluation and Measurement Electives, choose from the following:		15
RMS 75510	STATISTICS I FOR EDUCATIONAL SERVICES	
RMS 78711	MODERN TEST THEORY: ITEM RESPONSE THEORY	
RMS 78713	MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH	
RMS 78714	FACTOR ANALYSIS IN EDUCATIONAL RESEARCH	
RMS 78716	STATISTICS II: ANOVA AND NONPARAMETRIC TESTS	
RMS 78728	MULTIPLE REGRESSION	
RMS 78898	COMPARATIVE RESEARCH DESIGN	
RMS 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	
RMS 85516	QUALITATIVE RESEARCH DESIGN	
RMS 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES	
RMS 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
Culminating Requirement		
EDLE 80199	DISSERTATION I [1]	30
Minimum Total Credit Hours:		**84**

[1] Upon admission to candidacy, each doctoral candidate must register for EDLE 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter EDLE 80299, each semester until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of the program will be able to:

1. Facilitate collaboratively the development, articulation, implementation and stewardship of a shared school vision of learning through the collection and use of data to identify school goals.
2. Sustain a school culture and instructional program conducive to student learning through collaboration, trust and a personalized learning environment with high expectations for students.
3. Create and evaluate a comprehensive, rigorous and coherent curricular and instructional school program.
4. Act in an ethical manner with integrity and fairness to ensure a school system of accountability for every student's academic and social success by modeling school principles of self-awareness, reflective practice, transparency and ethical behavior as related to their roles within the school.
5. Safeguard the values of democracy, equity and diversity within the school.
6. Evaluate the potential moral and legal consequences of decision-making in the school.
7. Promote social justice within the school to ensure that individual student needs inform all aspects of schooling.

Esports - Minor

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Esports minor is designed to introduce students to the esports industry, as well as prepare them to assume service and leadership roles within the industry. Through innovation, research, knowledge dissemination and the enhancement of educational and practical opportunities, this interdisciplinary program affords students the opportunity to enroll in a variety of courses across disciplines to procure knowledge and acquire practical skills pertaining to esports.

The billion-dollar esports industry has a wide array of opportunities for students, including evaluating esports athletes, promotion and management, broadcasting, game development and systems and networking.

Contact Information

- **Mark Lyberger** | mlyberge@kent.edu | 330-672-2015
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus.

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.50 overall Kent State

GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
AGD 23020	GAMING AND CULTURE	3
EXSC 34000	EXERCISE SCIENCE FOR ESPORTS	3
SPAD 45022	EVENT PLANNING AND PRODUCTION [1]	3
SPAD 45034	ESPORT MANAGEMENT	3
Minor Electives, choose from the following:		9
AGD 33010	COMPETITIVE GAMING	
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
CS 38101	INTRODUCTION TO GAME PROGRAMMING	
CS 48102	GAME DEVELOPMENT PRACTICUM (ELR) (WIC)	
or SPAD 35092	PRACTICUM II IN SPORT ADMINISTRATION (ELR)	
EMAT 10010	TECHNOLOGY, EXPERIENCE DESIGN AND SOCIETY	
EMAT 10310	MY STORY ON THE WEB	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
ENGR 23010	COMPUTER HARDWARE	
ENGR 26305 & ENGR 26306	NETWORKING I and NETWORKING I LABORATORY	
EXSC 45022	EXERCISE LEADERSHIP	
EXSC 45023	PROFESSIONAL CERTIFICATE PREPARATION	
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	
IT 21002	NETWORK SETUP AND CONFIGURATION	
MDJ 21008	SOCIAL MEDIA STRATEGIES	
MDJ 28001	PRINCIPLES OF PUBLIC RELATIONS	
SPAD 35025	FACILITY MANAGEMENT	
SPAD 45023	SPORT MARKETING	
SPAD 45026	SPORT AND THE MEDIA	
SPAD 45027	PUBLIC RELATIONS AND PROMOTION IN SPORT	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
Minimum Total Credit Hours:		**21**

[1] With permission, MKTG 25010 may be waived as prerequisite for SPAD 45022.

Progression Requirements

- Minimum 2.50 in the minor courses.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate understanding of the various components of an esport competition.
2. Demonstrate an understanding of the diverse nature and participants in the esport industry.
3. Demonstrate an understanding of esports in our culture.
4. Understand the impact of esports on human health and behavior.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Event Management - Undergraduate Certificate

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Event Management undergraduate certificate program will give you the skills you need to plan, organize and execute a wide range of events from concerts to corporate events. With experienced faculty and a focus on hands-on learning, you'll be well-prepared to hit the ground running in the fast-paced world of event planning. Read more...

Contact Information

- **Mandy Ulicney** | mulicney@kent.edu | 330-565-6637
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Ashtabula Campus

Examples of Possible Careers and Salaries*

Meeting, convention, and event planners

- 7.8% faster than the average
- 138,600 number of jobs
- $51,560 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Code	Title	Credit Hours
Certificate Requirements		
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
HEM 13024	INTRODUCTION TO HOSPITALITY MANAGEMENT	3
HEM 20040	THE BUSINESS OF EVENT MANAGEMENT	3
HEM 33050	PROFESSIONAL PRACTICE IN HOSPITALITY AND EVENT MANAGEMENT	2
HEM 33129	CATERING AND BANQUET MANAGEMENT [1]	3
Professional Electives, choose from the following:		6
HEM 13023	FUNDAMENTALS OF FOOD PRODUCTION	
HEM 23030	HOTEL OPERATIONS	
HEM 23336	CLUB MANAGEMENT	
HEM 30110	FUNDRAISING AND PHILANTHROPIC EVENT MANAGEMENT	
HEM 30120	WEDDINGS AND SPECIAL EVENT PROTOCOL	
HEM 33020	LEGAL ISSUES IN THE HOSPITALITY AND EVENT INDUSTRY [1]	
HEM 43092	PRACTICUM IN HOSPITALITY AND EVENT MANAGEMENT (ELR)	
HEM 43143	HOSPITALITY MEETINGS AND EVENT MANAGEMENT	
HEM 43231	FOOD, WINE AND BEVERAGE PAIRING	
HEM 43325	HOSPITALITY AND EVENT MARKETING [1]	
Minimum Total Credit Hours:		**20**

[1] Students in the certificate can register for this course without the prerequisites.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify and apply the knowledge and skills necessary for hospitality and tourism operations
2. Develop and integrate a core set of business skills necessary to successfully operate a hospitality and tourism organization
3. Demonstrate competence in the communication skills necessary for hospitality and tourism management

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional

phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Full Description

The Event Management undergraduate certificate prepares students with the introductory and practical skills they need to enter the event management workforce. The curriculum incorporates the newest technologies and emerging trends in the industry. Program faculty are experts in their fields and have decades of experience applying the skills they teach in the classroom.

Graduates are prepared with skill sets that allow them to secure exciting positions with leading employers at hotels, wineries, private clubs, casinos, sporting events, meetings, trade shows, cruise lines and restaurants; or to be self-employed as an event planner.

Students can apply all courses in the certificate toward the Bachelor of Science degree in Hospitality and Event Management.

Event Planning - Minor

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Event Planning minor prepares students to assume leadership roles within the industry. Through innovation, research, knowledge dissemination and the enhancement of educational and practical opportunities, this minor affords students the opportunity to enroll in a variety of courses across disciplines to procure knowledge and practical skills pertaining to the process of event planning.

Contact Information

- **Mark Lyberger** | mlyberge@kent.edu | 330-672-2015
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
HEM 33129	CATERING AND BANQUET MANAGEMENT	3
RPTM 36075	EXPERIENCE DESIGN IN RECREATION, PARK AND TOURISM SETTINGS [1]	3
SPAD 45022	EVENT PLANNING AND PRODUCTION [1]	3
Minor Electives, choose from the following:		6
HEM 20160	SAFETY AND SECURITY RISK MANAGEMENT	
HEM 23030	HOTEL OPERATIONS	
HEM 30110	FUNDRAISING AND PHILANTHROPIC EVENT MANAGEMENT	
HEM 30120	WEDDINGS AND SPECIAL EVENT PROTOCOL	
HEM 33140	CONVENTION SALES AND MANAGEMENT	
HEM 33270	GLOBAL CUISINE	
HEM 41095	SPECIAL TOPICS IN HOSPITALITY AND EVENT MANAGEMENT	
HEM 43143	HOSPITALITY MEETINGS AND EVENT MANAGEMENT	
HEM 43092	PRACTICUM IN HOSPITALITY AND EVENT MANAGEMENT (ELR) [2]	
HEM 43231	FOOD, WINE AND BEVERAGE PAIRING	
RPTM 26030	LEADERSHIP IN RECREATION, PARKS AND TOURISM	
RPTM 26060	INTRODUCTION TO GLOBAL TOURISM (DIVG)	
RPTM 36040	INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)	
RPTM 36060	ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES	
RPTM 45047	GLOBAL ISSUES OF TOURISM TRADE	
RPTM 46000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	
RPTM 46095	SELECTED TOPICS IN RECREATION [3]	
SPAD 25092	PRACTICUM I IN SPORT ADMINISTRATION (ELR) [2]	
SPAD 35092	PRACTICUM II IN SPORT ADMINISTRATION (ELR) [2]	
SPAD 35025	FACILITY MANAGEMENT	
SPAD 45023	SPORT MARKETING	
SPAD 45024	SPORT IN GLOBAL PERSPECTIVE	

SPAD 45026	SPORT AND THE MEDIA
SPAD 45027	PUBLIC RELATIONS AND PROMOTION IN SPORT
SPAD 45030	SPORT ENTERPRISE (WIC)
SPAD 46080	LEGAL ISSUES IN SPORT AND RECREATION
SPAD 46095	SPECIAL TOPICS IN SPORT ADMINISTRATION [3]
Minimum Total Credit Hours:	**15**

[1] With permission, students may register for HEM 33129, RPTM 36075 and SPAD 45022 without completion of the prerequisite courses.
[2] A maximum of 3 credit hours of practicum may be used to fulfill minor requirements with advisor approval.
[3] Students may select a special topic with advisor approval.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply the event planning process in the design, implementation and evaluation of special events.
2. Integrate event planning principles in a variety of settings including hospitality, sport, recreation and tourism.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Higher Education Administration - Ph.D.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Ph.D. degree in Higher Education Administration prepares students for careers as highly effective higher education administrators and staff professionals. The coursework prepares students for the varied challenges facing two-year, four-year and graduate institutions and communities today, and helps shape educational institutions in the future.

Contact Information

- **Erica Eckert** | eeckert@kent.edu (eeckert@kent.edu&gt) | 330-672-2012
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education administrators, postsecondary

- 3.7% about as fast as the average
- 190,500 number of jobs
- $97,500 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Minimum 3.000 graduate GPA on a 4.000-point scale (minimum 3.500 graduate GPA is recommended)
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Program faculty will assess applicants holistically, considering academic credentials, related professional experience, academic or professional references and scholarly and professional activities, among others.

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Funding deadline: December 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) must be submitted by this deadline to be considered for an assistantship or any other funded position.
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
HIED 76598	RESEARCH IN HIGHER EDUCATION ADMINISTRATION	3
HIED 76653	COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE [1]	3
HIED 76656	HIGHER EDUCATION CURRICULUM	3
HIED 76657	LEADERSHIP IN EDUCATION ORGANIZATIONS [1]	3
HIED 76662	POLITICS AND POWER IN ORGANIZATIONS	3
HIED 76667	BUSINESS ADMINISTRATION IN HIGHER EDUCATION	3
HIED 76670	INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS	3
HIED 76671	THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION [1]	3
HIED 80080	DISSERTATION PREPARATION SEMINAR	3
HIED 86558	ADVANCED EDUCATIONAL LEADERSHIP	3
RMS 75510	STATISTICS I FOR EDUCATIONAL SERVICES	3
RMS 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	3
RMS 85516	QUALITATIVE RESEARCH DESIGN	3
Major Electives, choose from the following: [2]		18
CES 78182	CAREER COUNSELING	
RMS 78806	HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH	
Higher Education (HIED) Doctoral Courses (70000 or 80000 level)		
Additional courses as approved		
Research Electives, choose from the following:		6
RMS 78710	INTRODUCTION TO MEASUREMENT	
RMS 78711	MODERN TEST THEORY: ITEM RESPONSE THEORY	
RMS 78713	MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH	
RMS 78714	FACTOR ANALYSIS IN EDUCATIONAL RESEARCH	
RMS 78716	STATISTICS II: ANOVA AND NONPARAMETRIC TESTS	
RMS 78728	MULTIPLE REGRESSION	
RMS 78898	COMPARATIVE RESEARCH DESIGN	
RMS 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES	
RMS 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
RMS 85520	MIXED METHODS RESEARCH	
RMS 85540	GROUNDED THEORY AND PHENOMENOLOGICAL RESEARCH	
RMS 85560	CRITICAL SOCIAL RESEARCH	
RMS 88795	SPECIAL TOPICS: EVALUATION AND MEASUREMENT	
Additional courses as approved		
Culminating Requirement		
HIED 80199	DISSERTATION I [3]	30
Minimum Total Credit Hours:		**93**

[1] Students who completed HIED 66653, HIED 66657 and/or HIED 66671 (or their equivalents) at the master's degree level may have HIED 76657, HIED 76653 and/or HIED 76671 waived as requirements for the Ph.D. degree. **These students may graduate with fewer than 93 credit hours but no fewer than 84 total credit hours.**

[2] Major elective courses are to be determined by the students and their advisor(s).

[3] Upon admission to candidacy, each doctoral candidate must register for HIED 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter HIED 80299, each semester until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of the program will be able to:

1. Understand the administrative and financial functions performed on a college or university campus.

2. Understand the complexities of college/university budgeting process and construct a divisional or departmental budget.
3. Understand and commit to the diverse nature of higher education in the United States.
4. Articulate the challenges and opportunities associated with the provision of a diverse, multicultural educational setting, including the impact of demographic changes on higher education and familiarity with strategies to diversify higher education.
5. Understand the role of a faculty member and the curriculum development process in an institution of higher education.
6. Understand the rights and responsibilities of employees and students within institutions of higher education, as well as the responsibilities of the institutions.
7. Understand research methodology to conduct individual research.
8. Understand the internationalization of higher education institutions, including explaining the different rationales for internationalization that may motivate different stakeholders in higher education and analyzing an institution's internationalization goals and activities in terms of both an institutional strategy and in terms of student learning outcomes.

Higher Education Administration and Student Affairs - Ed.S.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

Advance your career in student affairs with Kent State's Education Specialist degree program. With a focus on student development, diversity and leadership, Kent State's Higher Education Administration-Student Affairs Ed.S. program provides continuing educational opportunities for practitioners who wish to hold or advance in careers as higher education administrators and staff professionals. Read more...

Contact Information

- **Kayon Hall, Ph.D.** | khall101@kent.edu | 330-672-2012
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education administrators, postsecondary

- 3.7% about as fast as the average
- 190,500 number of jobs
- $97,500 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Minimum 3.000 graduate GPA on a 4.000-point scale (minimum 3.250 graduate GPA is recommended)
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Applications are assessed holistically, considering applicants' academic credentials, related professional experience, academic or professional references, scholarly and professional activities, among others.

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Funding deadline: December 1
    Applications must be submitted by this deadline to be considered for an assistantship or any other funded position.
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
HIED 76653	COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE	3

HIED 76657	LEADERSHIP IN EDUCATION ORGANIZATIONS	3
HIED 76671	THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION	3
HIED 76749	ASSESSMENT AND ACCREDITATION IN HIGHER EDUCATION	3
Higher Education (HIED) Graduate Courses		18
Minimum Total Credit Hours:		**30**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate a broad understanding of theories of student and adult development that guide the profession and influence student learning and development within their collegiate environment.
2. Demonstrate, through practical experience in two or more functional areas within higher education, the potential to succeed in professional leadership positions.
3. Demonstrate an understanding of the administrative and financial functions performed on a college or university campus.
4. Demonstrate an understanding of and commitment to the diverse nature of higher education in the United States, and articulate the challenges and opportunities associated with the provision of a diverse, multicultural educational setting.

Full Description

The Educational Specialist degree in Higher Education Administration and Student Affairs provides continuing educational opportunities for practitioners who wish to hold careers as higher education administrators and staff professionals. The coursework prepares students for the varied challenges facing two-year, four-year and graduate institutions today and in the future.

Higher Education Administration and Student Affairs - M.Ed.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

Prepare for success in diverse administrative roles with our M.Ed. degree in Higher Education Administration and Student Affairs, as you gain a holistic understanding of the 'big picture' in higher education and develop expertise in areas such as campus life, career services, academic advising, international student services and more. Read more...

Contact Information

- **Erica Eckert** | eeckert@kent.edu | 330-672-2012
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education administrators, postsecondary

- 3.7% about as fast as the average
- 190,500 number of jobs
- $97,500 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Résumé or curriculum vitae
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Funding deadline: December 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) must be submitted by this deadline to be considered for an assistantship or any other funded position.
  - Rolling admissions

- **Spring Semester**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
HIED 66653	COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE	3
HIED 66657	LEADERSHIP IN EDUCATION ORGANIZATIONS	3
HIED 66667	BUSINESS ADMINISTRATION IN HIGHER EDUCATION	3
HIED 66671	THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION	3
HIED 66676	INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS	3
HIED 66749	ASSESSMENT AND ACCREDITATION IN HIGHER EDUCATION	3
Major Electives, choose from the following:		15
CES 68182	CAREER COUNSELING	
Higher Education (HIED) Graduate (50000 or 60000 level) Courses		
Additional electives as approved		
Culminating Requirement		
HIED 66492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION	6
Minimum Total Credit Hours:		**39**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a broad understanding of psychosocial and cognitive-structural theories of student and adult development that guide the profession and be able to describe the impact the college environment has on student learning and development.
2. Demonstrate practical experience in two or more functional areas within higher education.
3. Demonstrate an understanding of the administrative and financial functions performed on a college or university campus.
4. Demonstrate an understanding of and commitment to the diverse nature of higher education in the United States, and will be able to articulate the challenges and opportunities associated with the provision of a diverse, multicultural educational setting.

Dual Degree With Master of Business Administration

Students have the opportunity to complete a dual degree program with the M.Ed. degree in Higher Education Administration and Student Affairs and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HIED 66492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION	6
HIED 66652	LAW AND HIGHER EDUCATION	3
HIED 66653	COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE	3
HIED 66657	LEADERSHIP IN EDUCATION ORGANIZATIONS	3
HIED 66662	POLITICS AND POWER IN ORGANIZATIONS	3
HIED 66667	BUSINESS ADMINISTRATION IN HIGHER EDUCATION	3
HIED 66671	THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION	3
HIED 66676	INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS	3
HIED 66733	INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS	3
HIED 66749	ASSESSMENT AND ACCREDITATION IN HIGHER EDUCATION	3
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	1
MKTG 65051	MARKETING MANAGEMENT	2
Higher Education (HIED) Electives		3
Ambassador Crawford College of Business and Entrepreneurship Graduate Elective (50000 level or higher), choose from the following:		3
Accounting (ACCT) Course		
Business (BUS) Course		
Business Analytics (BA) Course		
Computer Information Systems (CIS) Course		
Economics (ECON) Course		
Entrepreneurship (ENTR) Course		
Finance (FIN) Course		
Human Resource Management (HRM) Course		
Management (MGMT) Course		
Marketing (MKTG) Course		
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**65**

[1] MGMT 68051 may be waived for students with at least two years of full-time work experience.

Full Description

The Master of Education degree in Higher Education Administration and Student Affairs prepares graduates to assume a wide variety of administrative positions within colleges and universities throughout the world, ranging from entry-level to director-level. The curriculum is grounded in theory and focused on practice to reinforce entry-level skills, support diverse student populations in their development and cultivate skills and competencies necessary to lead and administer programs. Focusing on the "big picture," students gain an understanding of the complex environment in which they will be working.

Graduates are prepared to work as staff and administrators in campus life, career services, judicial affairs, resident services, alumni, admissions, academic success, academic advising, international student services, institutional advancement, upward bound, student disability services, student multicultural center and undergraduate and graduate studies.

Hospitality and Event Management - B.S.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

Earn your bachelor's in Hospitality and Event Management and gain the business and hospitality expertise to manage hotels, resorts, restaurants, events and more. With real-world experience, industry partnerships and a supportive community, you'll learn the skills needed to succeed in this dynamic industry. Read more...

Contact Information

- **Aviad Israeli, Ph.D.** | aisraeli@kent.edu | 330-672-0210
- Speak with an Advisor
  - Ashtabula Campus
  - Kent Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

First-line supervisors of gambling services workers

- 16.4% much faster than the average
- 58,000 number of jobs
- $50,440 potential earnings

Food service managers

- 0.6% little or no change
- 352,600 number of jobs
- $56,590 potential earnings

Gambling managers

- 8.8% much faster than the average
- 5,100 number of jobs
- $75,470 potential earnings

Lodging managers

- -11.7% decline
- 57,200 number of jobs
- $56,670 potential earnings

Meeting, convention, and event planners

- 7.8% faster than the average
- 138,600 number of jobs
- $51,560 potential earnings

Personal service managers, all other; entertainment and recreation managers, except gambling; and managers, all other

- -1.8% decline
- 1,189,200 number of jobs
- $116,350 potential earnings

Accreditation

Accreditation Commission for Programs in Hospitality Administration

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the

seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
HEM 13022	SANITATION AND SAFETY PRINCIPLES AND PRACTICES	3
HEM 13023	FUNDAMENTALS OF FOOD PRODUCTION	3
HEM 13024	INTRODUCTION TO HOSPITALITY MANAGEMENT	3
HEM 20040	THE BUSINESS OF EVENT MANAGEMENT	3
HEM 23030	HOTEL OPERATIONS	3
HEM 23335	HOSPITALITY EXPERIENCE MANAGEMENT	3
HEM 33020	LEGAL ISSUES IN THE HOSPITALITY AND EVENT INDUSTRY	3
HEM 33050	PROFESSIONAL PRACTICE IN HOSPITALITY AND EVENT MANAGEMENT	2
HEM 43027	HOSPITALITY AND EVENT MANAGEMENT: HUMAN RESOURCE STRATEGIES (WIC) [1]	3
HEM 43092	PRACTICUM IN HOSPITALITY AND EVENT MANAGEMENT (ELR) [2]	1
HEM 43099	CAPSTONE: STRATEGIC HOSPITALITY AND EVENT MANAGEMENT (ELR)	2
HEM 43329	HOSPITALITY FINANCIAL POLICY	3
HEM 43388	LEADERSHIP AND ORGANIZATIONAL BEHAVIOR IN THE HOSPITALITY INDUSTRY	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Additional Requirements (courses do not count in major GPA)		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
UC 10001	FLASHES 101	1
Mathematics Elective, choose from the following:		3
MATH 10040	INTRODUCTORY STATISTICS PLUS (KMCR)	
or MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
MATH 10050	QUANTITATIVE REASONING PLUS (KMCR)	
or MATH 10051	QUANTITATIVE REASONING (KMCR)	
MATH 10675	ALGEBRA FOR CALCULUS BOOST (KMCR)	
or MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 10772	MODELING ALGEBRA PLUS (KMCR)	
or MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 10771	BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR)	
or MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	
MATH 11008	EXPLORATIONS IN MODERN MATHEMATICS (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR)	
MATH 12012	CALCULUS WITH PRECALCULUS II (KMCR)	
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	
Kent Core Composition		6
Kent Core Humanities		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		15
Concentrations		
Choose from the following:		18
Event Management/Food and Beverage Management		
Event Management/Hotel and Resort Management		
Food and Beverage Management/Hotel and Resort Management		
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] A minimum 1 credit hour of practicum experience must be in one of both of the concentration focus areas. A maximum 5 credit hours of HEM 43092 may apply towards major requirements.

Event Management/Food and Beverage Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
HEM 20201	FOOD AND BEVERAGE MANAGEMENT	3
HEM 33129	CATERING AND BANQUET MANAGEMENT	3
HEM 43031	LAYOUT AND DESIGN OF HOSPITALITY OPERATIONS	3
HEM 43226	FOOD AND BEVERAGE COST MANAGEMENT	3
HEM 43325	HOSPITALITY AND EVENT MARKETING	3
SPAD 45022	EVENT PLANNING AND PRODUCTION	3
Minimum Total Credit Hours:		**18**

Event Management/Hotel and Resort Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
HEM 23336	CLUB MANAGEMENT	3
HEM 33129	CATERING AND BANQUET MANAGEMENT	3
HEM 33140	CONVENTION SALES AND MANAGEMENT	3
HEM 43325	HOSPITALITY AND EVENT MARKETING	3
HEM 43377	REVENUE MANAGEMENT	3
SPAD 45022	EVENT PLANNING AND PRODUCTION	3
Minimum Total Credit Hours:		**18**

Food and Beverage Management/Hotel and Resort Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
HEM 20201	FOOD AND BEVERAGE MANAGEMENT	3
HEM 23336	CLUB MANAGEMENT	3
HEM 33140	CONVENTION SALES AND MANAGEMENT	3
HEM 43031	LAYOUT AND DESIGN OF HOSPITALITY OPERATIONS	3
HEM 43226	FOOD AND BEVERAGE COST MANAGEMENT	3
HEM 43377	REVENUE MANAGEMENT	3
Minimum Total Credit Hours:		**18**

Progression Requirements

Students must complete 400 hours of industry experience prior to taking HEM 33050 and HEM 43092.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
HEM 13022	SANITATION AND SAFETY PRINCIPLES AND PRACTICES	3
HEM 13024	INTRODUCTION TO HOSPITALITY MANAGEMENT	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
HEM 13023	FUNDAMENTALS OF FOOD PRODUCTION	3
Mathematics Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
HEM 23030	HOTEL OPERATIONS	3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
HEM 20040	THE BUSINESS OF EVENT MANAGEMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
HEM 23335	HOSPITALITY EXPERIENCE MANAGEMENT	3
HEM 33050	PROFESSIONAL PRACTICE IN HOSPITALITY AND EVENT MANAGEMENT	2
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
Concentration Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Six		
HEM 33020	LEGAL ISSUES IN THE HOSPITALITY AND EVENT INDUSTRY	3
HEM 43027	HOSPITALITY AND EVENT MANAGEMENT: HUMAN RESOURCE STRATEGIES (WIC)	3
HEM 43388	LEADERSHIP AND ORGANIZATIONAL BEHAVIOR IN THE HOSPITALITY INDUSTRY	3
Concentration Requirement		3
General Elective		3
	Credit Hours	**15**
Third Summer Term		
HEM 43092	PRACTICUM IN HOSPITALITY AND EVENT MANAGEMENT (ELR)	1
	Credit Hours	**1**
Semester Seven		
HEM 43329	HOSPITALITY FINANCIAL POLICY	3
Concentration Requirements		6

General Electives		6
	Credit Hours	**15**
Semester Eight		
HEM 43099	CAPSTONE: STRATEGIC HOSPITALITY AND EVENT MANAGEMENT (ELR)	2
Concentration Requirements		6
General Electives		6
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify and apply the knowledge and skills necessary for hospitality and tourism operations.
2. Develop and integrate a core set of business skills necessary to successfully operate a hospitality and tourism organization.
3. Demonstrate competence in the communication skills necessary for hospitality and tourism management.
4. Formulate business decisions in hospitality and tourism management.
5. Evaluate leadership principles necessary in the diverse and global hospitality and tourism industry.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science degree in Hospitality and Event Management prepares leaders for the hospitality industry. The curriculum combines specialty classes in hospitality and business management, preparing graduates for well-compensated positions as managers in restaurants, hotels and resorts, cruise ships, amusement parks, destination marketing organizations, convention centers, country clubs and many more.

The Hospitality and Event Management major comprises three concentrations, each encompassing two of the following three focus

areas. Students must choose one concentration that matches their interests and career preferences.

- The **Event Management** focus area emphasizes planning and managing events — from large to small and from corporate to personal — in addition to following protocols and ensuring safety and security during the events.
- The **Hotel and Resort Management** focus area emphasizes business skills such as managing staff and revenue, as well as the specific skills such as managing clubs and casinos.
- The **Food and Beverage Management** focus area emphasizes the business side of food, such as ordering and inventory, managing budgets and planning and pricing menus. In addition, students learn food science, food production and the pairing of food and beverages.

Hospitality and Event Management - Minor

College of Education Health and Human Services
www.kent.edu/ehhs/fla

About This Program

The Hospitality and Event Management minor is for students interested in a foundational knowledge of restaurants, hotels, private clubs, non-commercial food-service organizations and other hospitality organizations. Students in the minor may pursue specific areas of interest tied to the management of selected hospitality properties or management of events within hospitality organizations.

Contact Information

- **Aviad Israeli, Ph.D.** | aisraeli@kent.edu | 330-672-0210
- Speak with an Advisor
  - Ashtabula Campus
  - Kent Campus

Program Delivery

- **Delivery:**
  - Mostly online
  - In person
- **Location:**
  - Ashtabula Campus*
  - Kent Campus

** The Hospitality and Event Management minor is not accepting students at the Ashtabula Campus at this time.*

Admission Requirements

The Hospitality and Event Management minor is not accepting students at the Ashtabula Campus at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and have earned a minimum 2.500 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Students are encouraged to declare the minor with a minimum of three to four semesters remaining before graduation and should meet with a faculty advisor to plan their course of study.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
HEM 13024	INTRODUCTION TO HOSPITALITY MANAGEMENT	3
HEM 20040	THE BUSINESS OF EVENT MANAGEMENT	3
HEM 23030	HOTEL OPERATIONS	3
HEM 43092	PRACTICUM IN HOSPITALITY AND EVENT MANAGEMENT (ELR) [1]	1
HEM 43226	FOOD AND BEVERAGE COST MANAGEMENT	3
Minor Elective, choose from the following:		2-3
HEM 33140	CONVENTION SALES AND MANAGEMENT	
HEM 33270	GLOBAL CUISINE	
HEM 37377	CASINO MANAGEMENT AND GAMING OPERATIONS	
HEM 43099	CAPSTONE: STRATEGIC HOSPITALITY AND EVENT MANAGEMENT (ELR)	
HEM 43143	HOSPITALITY MEETINGS AND EVENT MANAGEMENT	
HEM 43329	HOSPITALITY FINANCIAL POLICY	
Faculty advisor-approved Hospitality and Event Management (HEM) course		
Minimum Total Credit Hours:		**18**

[1] Students are encouraged to complete the majority of the required courses in the minor before taking HEM 43092. Students may register for HEM 43092 (with permission) without completion of the prerequisite courses. Student who have completed a practicum/internship in another program area that had significant hospitality component may be able to substitute that practicum/internship for HEM 43092 in the minor with hospitality management faculty approval.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduate of this program will be able to:

1. Identify and apply the knowledge and skills necessary for hospitality and tourism operations
2. Develop and integrate a core set of business skills necessary to successfully operate a hospitality and tourism organization
3. Demonstrate competence in the communication skills necessary for hospitality and tourism management

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Hospitality and Tourism Management - M.S.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

Program revisions are pending approval from the Ohio Department of Higher Education. After final approval, the program revisions will display

About This Program

The Master of Science degree in Hospitality and Tourism Management provides an integrated hospitality and tourism education with an emphasis on regional, national and global implications of the field. The curriculum combines specialty classes in hospitality and business management, preparing graduates for well-compensated positions as managers in restaurants, hotels, conference centers, country clubs and other hospitality venues.

Contact Information

- **Aviad Israeli, Ph.D.** | aisraeli@kent.edu | 330-672-0210
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Applications to the M.S. in Hospitality and Tourism Management are not being accepted at this time.

Examples of Possible Careers and Salaries*

Business teachers, postsecondary

- 12.0% much faster than the average
- 105,100 number of jobs
- $88,010 potential earnings

First-line supervisors of gambling services workers

- 16.4% much faster than the average
- 58,000 number of jobs
- $50,440 potential earnings

Food service managers

- 0.6% little or no change
- 352,600 number of jobs
- $56,590 potential earnings

Gambling managers

- 8.8% much faster than the average
- 5,100 number of jobs
- $75,470 potential earnings

Lodging managers

- -11.7% decline
- 57,200 number of jobs
- $56,670 potential earnings

Meeting, convention, and event planners

- 7.8% faster than the average
- 138,600 number of jobs
- $51,560 potential earnings

Personal service managers, all other; entertainment and recreation managers, except gambling; and managers, all other

- -1.8% decline
- 1,189,200 number of jobs
- $116,350 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at

which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.S. in Hospitality and Tourism Management are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Work experience in hospitality or tourism is preferred.
- Goal statement describing professional and research goals
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
HTM 53025	HOSPITALITY MARKETING	3
HTM 55047	GLOBAL ISSUES OF TOURISM TRADE	3
HTM 56000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	3
HTM 63022	CURRENT ISSUES IN HOSPITALITY AND TOURISM MANAGEMENT	3
HTM 63091	RESEARCH SEMINAR	1
HTM 65041	TOURISM AND HOSPITALITY REVIEW	3
MGMT 64158	LEADERSHIP	2-3
or MKTG 65051	MARKETING MANAGEMENT	
or MKTG 65054	INTERNATIONAL MARKETING	
RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Culminating Experience		
HTM 51092	HOSPITALITY AND TOURISM MANAGEMENT PROFESSIONAL PRACTICUM	3
HTM 64099	HOSPITALITY AND TOURISM MANAGEMENT CAPSTONE	3
Minimum Total Credit Hours:		**30**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Fall Semester		Credits
HTM 53025	HOSPITALITY MARKETING	3
HTM 63091	RESEARCH SEMINAR	1
MGMT 64158 or MKTG 65051 or MKTG 65054	LEADERSHIP or MARKETING MANAGEMENT or INTERNATIONAL MARKETING	2-3
RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
	Credit Hours	**9**
Spring Semester		
HTM 55047	GLOBAL ISSUES OF TOURISM TRADE	3
HTM 56000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	3
RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	3
	Credit Hours	**9**
Summer Term		
HTM 51092	HOSPITALITY AND TOURISM MANAGEMENT PROFESSIONAL PRACTICUM	3
HTM 63022	CURRENT ISSUES IN HOSPITALITY AND TOURISM MANAGEMENT	3
HTM 64099	HOSPITALITY AND TOURISM MANAGEMENT CAPSTONE	3
HTM 65041	TOURISM AND HOSPITALITY REVIEW	3
	Credit Hours	**12**
	Minimum Total Credit Hours:	**30**

Program Learning Outcomes

Graduates of this program will be able to:

1. Critically analyze and discuss managerial problems and issues related to tourism and hospitality.
2. Discuss and evaluate the social/economic, global/multicultural, operational and environmental issues facing hospitality and tourism management.
3. Formulate professional attitudes and opinions related to the hospitality and tourism industry.

4. Use, interpret and report industry data.
5. Disseminate professional vision in a hospitality and tourism setting.

Dual Degree with Master of Business Administration

Applications to the Dual Degree M.B.A./M.S. Hospitality and Tourism Management are not being accepted at this time.

Student have the opportunity to complete a dual degree program with the M.B.A. degree in Business Administration and the M.S. degree in Hospitality and Tourism Management. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual M.B.A./M.S. degree prepares students for responsible leadership positions and provides an integrated hospitality and tourism education with an emphasis on regional, national and global implications of the field.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HTM 55047	GLOBAL ISSUES OF TOURISM TRADE	3
HTM 56000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	3
HTM 63022	CURRENT ISSUES IN HOSPITALITY AND TOURISM MANAGEMENT	3
HTM 63091	RESEARCH SEMINAR	1
HTM 65041	TOURISM AND HOSPITALITY REVIEW	3
MGMT 64158	LEADERSHIP	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Culminating Requirement		
HTM 51092	HOSPITALITY AND TOURISM MANAGEMENT PROFESSIONAL PRACTICUM	3
HTM 64099	HOSPITALITY AND TOURISM MANAGEMENT CAPSTONE	3
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		**50**

Hospitality Management - Undergraduate Certificate

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Hospitality Management undergraduate certificate provides entry level management skills for those interested in employment or a career in the field.

The certificate articulates into Kent State's Bachelor of Science degree in Hospitality and Event Management.

Contact Information

- **Mandy Ulicney** | mulicney@kent.edu | 330-565-6637
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Ashtabula Campus

Examples of Possible Careers and Salaries*

Food service managers

- 0.6% little or no change
- 352,600 number of jobs
- $56,590 potential earnings

Lodging managers

- -11.7% decline
- 57,200 number of jobs
- $56,670 potential earnings

Personal service managers, all other; entertainment and recreation managers, except gambling; and managers, all other

- -1.8% decline
- 1,189,200 number of jobs
- $116,350 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information on international admission visit the admissions website for international students.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Code	Title	Credit Hours
Certificate Requirements		
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
HEM 13022	SANITATION AND SAFETY PRINCIPLES AND PRACTICES	3
HEM 13023	FUNDAMENTALS OF FOOD PRODUCTION	3
HEM 13024	INTRODUCTION TO HOSPITALITY MANAGEMENT	3
HEM 33050	PROFESSIONAL PRACTICE IN HOSPITALITY AND EVENT MANAGEMENT	2
Certificate Electives, choose from the following:		6
ACTT 11000	ACCOUNTING I: FINANCIAL	
BMRT 21050	FUNDAMENTALS OF MARKETING TECHNOLOGY	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
ENOL 14600	INTRODUCTION TO ENOLOGY	
HEM 23030	HOTEL OPERATIONS	
HEM 23336	CLUB MANAGEMENT	
HEM 33020	LEGAL ISSUES IN THE HOSPITALITY AND EVENT INDUSTRY	
HEM 37377	CASINO MANAGEMENT AND GAMING OPERATIONS	
HEM 41095	SPECIAL TOPICS IN HOSPITALITY AND EVENT MANAGEMENT	
HEM 43231	FOOD, WINE AND BEVERAGE PAIRING	
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	
VIN 11800	INTRODUCTION TO BREWING	
Other courses subject to advisor and HEM faculty approval		
Minimum Total Credit Hours:		**20**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Program Learning Outcomes

Graduates of this program will be able to

1. Identify and apply the knowledge and skills necessary for hospitality and tourism operations.
2. Develop and integrate a core set of business skills necessary to successfully operate a hospitality and tourism organization.
3. Demonstrate competence in the communication skills necessary for hospitality and tourism management.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Institutional Research and Assessment - Graduate Certificate

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Institutional Research and Assessment graduate certificate is for professionals in or aspirants for leadership positions in post-secondary settings, as well for those who seek to learn more about assessment and institutional research and their role in American higher education.

The program provides knowledge and skills development in the areas of higher education assessment, institutional research, technology and the organization of higher education. Students have the option of an internship experience in higher education at the conclusion of the certificate (strongly recommended for students without full-time work experience).

Contact Information

- **Erica Eckert, Ph.D.** | eeckert@kent.edu | 330-672-0557
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education administrators, postsecondary

- 3.7% about as fast as the average
- 190,500 number of jobs
- $97,500 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Résumé
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
- Minimum 79 TOEFL iBT score
- Minimum 6.5 IELTS score
- Minimum 58 PTE score
- Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
HIED 66665	TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION	3
HIED 66749	ASSESSMENT AND ACCREDITATION IN HIGHER EDUCATION	3
RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
RMS 68710	INTRODUCTION TO MEASUREMENT	3
RMS 68806	HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH	3
Higher Education Knowledge Elective, choose from the following:		3
HIED 66492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION	
HIED 66651	STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION	
HIED 66656	HIGHER EDUCATION CURRICULUM	
HIED 66662	POLITICS AND POWER IN ORGANIZATIONS	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

Program Learning Outcomes

Graduates of this program will be able to:

1. Create outcomes, select measures, and plan assessment processes.
2. Collect and analyze data using the appropriate technique and interpret results in context.
3. Describe and plan for institutional politics and stakeholder positions related to the entire assessment process.
4. Apply technical knowledge (software and applications and systems) for assessment and institutional research.

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject

to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Internationalization of Higher Education - Graduate Certificate

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Internationalization of Higher Education graduate certificate meets the needs in higher education for administrative leaders, staff and faculty to have a comprehensive understanding of internationalization, along with well-articulated skills, knowledge and dispositions to improve institutional capacity for internationalization. Internationalization is one of the profound and transformational changes occurring in contemporary colleges and universities. Institution-wide commitment is needed if all students are to achieve learning outcomes with international and intercultural content. The certificate is designed to strengthen students' skills for working in college and university settings.

Contact Information

- **Martha Merrill** | mmerril@kent.edu | 330-672-2580
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the Internationalization of Higher Education graduate certificate are not being accepted at this time.

Examples of Possible Careers and Salaries*

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education administrators, postsecondary

- 3.7% about as fast as the average
- 190,500 number of jobs
- $97,500 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Internationalization of Higher Education graduate certificate are not being accepted at this time.

- Bachelor's degree from an accredited college or university (master's degree preferred)
- Minimum 2.750 GPA on a 4.000-point scale[1]
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] Post-baccalaureate work will be taken into consideration when interpreting GPA for admission.
[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
HIED 66492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION	3
HIED 66670	INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS	3
Certificate Electives, choose from the following:		9
HIED 66671	THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION	
HIED 66672	INTERNATIONAL STUDENTS AND AMERICAN COLLEGES	
HIED 66673	RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION	
HIED 66674	COMPARATIVE HIGHER EDUCATION	
HIED 66675	DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS	
HIED 66676	INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS	
Additional elective as approved by certification advisor		
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain the different rationales for internationalization that may motivate different stakeholders in higher education.
2. Analyze an institution's internationalization goals and activities in terms of both an institutional strategy and in terms of student learning outcomes.

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Interprofessional Leadership - Ed.D.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Doctor of Education degree in Interprofessional Leadership engages students in the study of leadership from an interprofessional perspective. Given the complexity of 21st-century education and society, educators and leaders in all fields must be prepared to address problems across organizational boundaries. Read more...

Contact Information

- **David Dees** | ddees@kent.edu | 330-337-4205
- **Tricia Niesz** | tniesz@kent.edu | 330-672-0591

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Adult basic education, adult secondary education, and English as a Second Language instructors

- -10.4% decline
- 59,300 number of jobs
- $55,350 potential earnings

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education administrators, kindergarten through secondary

- 3.9% about as fast as the average
- 283,200 number of jobs
- $98,490 potential earnings

Education administrators, postsecondary

- 3.7% about as fast as the average
- 190,500 number of jobs
- $97,500 potential earnings

Education and childcare administrators, preschool and daycare

- 1.0% slower than the average
- 69,200 number of jobs
- $49,160 potential earnings

Educational instruction and library workers, all other

- 4.4% about as fast as the average
- 141,400 number of jobs
- $41,570 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Minimum 2.750 graduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement (1-2 pages) explaining how applicant's career intentions relate to and will be supported by the program, what they bring to the program and how they intend to use the degree to affect their practice
- Three letters of recommendation from organizational supervisors evidencing the applicant's leadership capacity and experience in the organization and/or from former professors attesting to the applicant's capacity for doctoral work
- Interview with designated program faculty (face-to-face or by video conference)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Applicants are reviewed holistically based their professional experience and the requirements listed above.

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Summer Term**
  - Priority deadline: February 15
    Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CULT 85535	INTERPROFESSIONAL STUDIES	3
EDLE 76529	LEADING FOR SOCIAL JUSTICE	3
EHHS 75001	SYSTEMS THINKING IN PERSONAL AND PROFESSIONAL LEADERSHIP	3
EHHS 75501	THEORY AND PRACTICE OF LEADERSHIP	3
EHHS 75502	ETHICAL LEADERSHIP IN EDUCATION	3
RMS 75550	INTRODUCTION TO QUANTITATIVE RESEARCH IN EDUCATION	3
RMS 78807	PROGRAM EVALUATION	3
RMS 85516	QUALITATIVE RESEARCH DESIGN	3
RMS 85530	PRACTITIONER INQUIRY	3
Capstone or Individual Investigation Elective, choose from the following:		3
CI 77096	INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION	
CULT 89596	INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS	
EHHS 81099	CAPSTONE I	
ETEC 77496	INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY	
SPED 73996	INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION	
or other individual investigation course with advisor approval		
Culminating Requirement		
EHHS 80199	DISSERTATION I [1]	30
Concentrations		
Choose from the following:		12

Cultural Foundations of Education	
Curriculum and Instruction	
Educational Technology	
Leadership in Educational Contexts	
Special Education	
Minimum Total Credit Hours:	**72**

[1] Upon admission to candidacy, each doctoral candidate must register for EHHS 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter EHHS 80299, each semester until all requirements for the degree have been met. Student dissertation research will be aligned with the needs of their organizations, useful to their organizations and intended to effect positive change in their organizations.

Athletic Training Education Concentration Requirements

Code	Title	Credit Hours
Minimum Total Credit Hours:		**0**

Cultural Foundations of Education Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CULT 79575	ANTHROPOLOGY AND EDUCATION	3
CULT 80030	SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY	3
CULT 89521	MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY	3
CULT 89691	VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION	3
Minimum Total Credit Hours:		**12**

Curriculum and Instruction Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 71130	MULTICULTURAL EDUCATION: STRATEGIES	3
CI 77001	FUNDAMENTALS OF CURRICULUM	3
CI 77002	CURRICULUM LEADERSHIP	3
CI 77010	CURRICULUM EVALUATION	3
Minimum Total Credit Hours:		**12**

Educational Technology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
ETEC 77434	EMERGING TECHNOLOGIES FOR EDUCATION	3
ETEC 77445	DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS	3
ETEC 77491	SEMINAR: EDUCATIONAL TECHNOLOGY	3
ETEC 87450	LEARNING WITH EDUCATIONAL TECHNOLOGIES	3
Minimum Total Credit Hours:		**12**

Leadership in Educational Contexts Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CULT 80030	SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY	3
EHHS 75515	CONTEMPORARY ISSUES IN EDUCATIONAL LEADERSHIP DEVELOPMENT	3
EHHS 75516	GROUP DYNAMICS IN EDUCATIONAL LEADERSHIP	3
EHHS 75517	DEMOCRACY AND LEADERSHIP. PHILOSOPHIES AND PRACTICES FOR DEMOCRATIC EDUCATION.	3
Minimum Total Credit Hours:		**12**

Special Education Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
SPED 73204	LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION	3
SPED 80002	ANALYSIS OF THE LITERATURE IN SPECIAL EDUCATION	3
SPED 80005	EMPIRICAL INVESTIGATIONS IN SPECIAL EDUCATION	3
SPED 83201	CONTEMPORARY ISSUES IN SPECIAL EDUCATION	3
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Professional Portfolio

Students present a professional portfolio upon the completion of coursework. The portfolio will include elements of selected coursework that best represents the student's learning prior to moving onto the dissertation in practice. Students prepare the portfolio in an online format and defend to a committee of two faculty members from within the concentration. Once the portfolio has been successfully defended, the students move on to the final requirement: the dissertation in practice. Students propose a dissertation in practice that addresses a complex problem of practice. Students conduct an inquiry project to make a positive impact on the problem of practice.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

First Year		
Summer		**Credits**
CULT 85535	INTERPROFESSIONAL STUDIES	3
EHHS 75501	THEORY AND PRACTICE OF LEADERSHIP	3
	Credit Hours	**6**

Fall Semester		
RMS 85530	PRACTITIONER INQUIRY	3
Concentration Course 1		3
	Credit Hours	**6**
Spring Semester		
RMS 85516	QUALITATIVE RESEARCH DESIGN	3
Concentration Course 2		3
	Credit Hours	**6**
Second Year		
Summer		
EHHS 75502	ETHICAL LEADERSHIP IN EDUCATION	3
RMS 75550	INTRODUCTION TO QUANTITATIVE RESEARCH IN EDUCATION	3
	Credit Hours	**6**
Fall Semester		
RMS 78807	PROGRAM EVALUATION	3
Concentration Course 3		3
	Credit Hours	**6**
Spring Semester		
EDLE 76529	LEADING FOR SOCIAL JUSTICE	3
Concentration Course 4		3
	Credit Hours	**6**
Third Year		
Summer		
EHHS 75001	SYSTEMS THINKING IN PERSONAL AND PROFESSIONAL LEADERSHIP	3
Capstone or Individual Investigation Elective		3
	Credit Hours	**6**
Fall Semester		
EHHS 80199	DISSERTATION I	15
	Credit Hours	**15**
Spring Semester		
EHHS 80199	DISSERTATION I	15
	Credit Hours	**15**
	Minimum Total Credit Hours:	**72**

Program Learning Outcomes

Graduates of this program will be able to:

1. Frame questions of organizational leadership, educational change and social justice to bring about solutions to complex problems of practice
2. Develop and demonstrate a professional knowledge base that integrates both practical and research knowledge, and that links theory with systemic and systematic inquiry
3. Construct and apply knowledge interprofessionally to make a positive difference in the lives of individuals, families, organizations and communities
4. Develop and demonstrate interprofessional collaboration and communication skills to work with diverse communities and to build partnerships
5. Analyze problems of practice and use multiple interprofessional frames to develop meaningful solutions
6. Generate, transform and use professional knowledge in practice
7. Integrate technology as a tool for teaching, learning, assessment, management, planning and communication

Full Description

The Doctor of Education degree in Interprofessional Leadership engages students in the study of leadership from an interprofessional perspective. Given the complexity of 21st-century education and society, educators and leaders in all fields must be prepared to address problems across organizational boundaries. The objective of the degree is to develop leaders who are scholarly practitioners. The program is framed around questions of equity, ethics and social justice to foster leadership to address to complex problems of practice. The goal is to prepare leaders who can construct and apply knowledge to make a positive difference in the lives of individuals, families, organization and communities.

The Ed.D. degree is cohort-based and starts in the summer term. The program can be completed in three to four years.

The Interprofessional Leadership major comprises the following concentrations:

- The **Cultural Foundations of Education** concentration prepares students for leadership roles in educational settings seeking to address problems of practice that reflect broad societal problems and thus defy simple solutions. Immersion in the literature of the field of social foundations of education exposes students to historical, sociological anthropological and philosophical understandings, enabling them to contextualize problems of practice within and beyond their particular institutional setting. Students develop facility with conceptual, critical and normative modes of analysis needed to unpack contemporary problems of practice and propose approaches to addressing them in ways that do justice to their complexity. This concentration will appeal to students who are already grappling with these problems in institutional settings and to those who wish to prepare themselves for such roles.
- The **Curriculum and Instruction** concentration prepares students to be curriculum leaders and lead positive curricular change in their classrooms, schools and communities. Students attain the knowledge and skills necessary to identify, conceptualize and research important problems related to the practice of curriculum development, curriculum leadership and curriculum evaluation. Additionally, students learn to develop, implement and evaluate solutions that are informed by currently available theory and research in curriculum and instruction.
- The **Educational Technology** concentration prepare leaders who are conversant in critical research, theories and methods in educational technology to facilitate positive change in their professional settings. The concentration is designed to help students advance their knowledge in educational technology research to implement educational technology initiatives in educational and business environments using research-informed and data-driven decisions.
- The **Leadership in Educational Contexts** concentration provides education in multidisciplinary perspectives on leadership throughout the range of educational contexts. The concentration prepares students to lead positive change through their work as ethical- and social justice-oriented scholarly practitioners. Concentration coursework focuses on advanced leadership theories and skills, as well as on sociocultural contexts of education organizations and systems. This concentration is appropriate for leaders and emerging leaders in PK-12 schooling, higher education and other organizations in which non-formal, informal and formal education takes place.
- The **Special Education** concentration prepares students for leadership roles in improving the practice of special education, from birth to adulthood. Students attain the knowledge and skills necessary

to identify and conceptualize important problems related to the practice of special education, and to develop, implement and evaluate solutions that are informed by the best available research and theory in special education and related disciplines. This concentration provides doctoral level training to anyone seeking to lead positive change in how special education and related services are provided to learners with disabilities.

Ohio Superintendent's Licensure - Graduate Certificate

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Ohio Superintendent's Licensure graduate certificate is designed to meet the standards of the Educational Leadership Constituent's Council for preparation of district-level educational leadership. The Ohio superintendent license requires three years of experience in a position requiring a principal or administrative specialist license. This license permits the holder to serve in any school administrative position, pre-kindergarten to grade 12, with the exception of school treasurer.

Contact Information

- School of Foundations, Leadership and Administration | 330-672-2012

Program Delivery

- **Delivery:**
  - Fully online

Applications to the Ohio Superintendent's Licensure graduate certificate are not being accepted at this time.

Examples of Possible Careers and Salaries*

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education administrators, kindergarten through secondary

- 3.9% about as fast as the average
- 283,200 number of jobs
- $98,490 potential earnings

Education and childcare administrators, preschool and daycare

- 1.0% slower than the average
- 69,200 number of jobs
- $49,160 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Ohio Superintendent's Licensure graduate certificate are not being accepted at this time.

- Master's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Program Requirements

Code	Title	Credit Hours
Certificate Requirements		
EDLE 76492	INTERNSHIP IN EDUCATIONAL ADMINISTRATION	3
EDLE 76515	FACILITIES PLANNING AND ADMINISTRATION	3
EDLE 76522	PUBLIC SCHOOL FINANCE AND ECONOMICS	3
EDLE 76529	LEADING FOR SOCIAL JUSTICE	3
EDLE 76534	THE SUPERINTENDENCY	3
EDLE 76747	PERSONNEL	3
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- All coursework must be taken at Kent State University. Substitutions or modifications are considered on a case-by-case basis and must be approved in writing by the student's assigned advisor (degree students) or program coordinator (non-degree students).

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower

grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Park Management - Minor

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Park Management minor prepares students to have specialties in their careers in outdoor recreation and parks. Emphasis is on sustainable management of parks and other natural environments for human enjoyment, environmental education and ecological diversity. The program provides students with knowledge, skills and abilities through coursework and hands-on, field-based experiences.

This Park Management minor can relate to a variety of public agencies and non-profit organizations such as the National Park Service, the U.S. Forest Service, state and local park agencies and the Nature Conservancy, as well as private outfitters, guiding services, residential camps, Outward Bound and National Outdoor Leadership School.

Contact Information

- **Andrew Lepp** | alepp1@kent.edu
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Students declared in the Recreation, Park and Tourism Management major may not declare the Park Management minor.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.250 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
RPTM 26081	PRINCIPLES OF OUTDOOR RECREATION	3
RPTM 36082	INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	3
RPTM 36083	ENVIRONMENTAL EDUCATION AND CONSERVATION	3
RPTM 46070	PARK PLANNING	3
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify the public, private and non-profit providers of park and outdoor recreation employment opportunities at the local, state and national level.
2. Demonstrate understanding of common park management techniques and processes and recognize their application in a diversity of real-world park settings, locally, nationally and globally.
3. Define environmental education and develop learning outcomes appropriate for environmental education.
4. Create and plan fun, science-based environmental education programs.
5. Define interpretation as understood by the National Association for Interpretation.
6. Develop interpretation materials and programs suitable for parks, protected areas, museums and other settings where interpretation occurs.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Principal Grades 4-9 Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

Contact Information

- School of Foundations, Leadership and Administration | 330-672-2012

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the Principal Grades 4-9 Licensure Preparation non-degree program are not being accepted at this time.

Examples of Possible Careers and Salaries*

Education administrators, kindergarten through secondary

- 3.9% about as fast as the average
- 283,200 number of jobs
- $98,490 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Principal Grades 4-9 Licensure Preparation non-degree program are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Official transcript (s)
- Minimum 2.750 GPA on a 4.000-point scale
- GRE scores if GPA is below 2.750 GPA
- Goal statement
- Evidence of at least two years of successful teaching experience under a professional teacher license at the 4-9 grade level
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements		
EDLE 66492	INTERNSHIP IN EDUCATIONAL ADMINISTRATION [1]	3
EDLE 66518	SCHOOL AND SPECIAL EDUCATION LAW	3
EDLE 66525	THE EDUCATIONAL PRINCIPALSHIP	3
EDLE 66526	FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION	3
EDLE 66527	SCHOOL FINANCE FOR BUILDING ADMINISTRATORS	3
EDLE 66529	LEADING FOR SOCIAL JUSTICE	3
EDLE 66531	INSTRUCTIONAL LEADERSHIP [1]	3
EDLE 66536	THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT [1]	3
EDLE 66542	PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION	3
EDLE 66544	COMMUNITY RELATIONS AND COMMUNICATION SKILLS	3
RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Minimum Total Credit Hours:		**33**

[1] Content must be consistent with the certification level; internship must be completed within grade band of intended licensure.

Progression Requirements

- Must maintain a 3.000 overall GPA

Graduation Requirements

- Minimum 3.000 overall GPA
- A master's degree, with a core of coursework in Educational Leadership plus 3 additional credit hours for the internship is required for this license.
- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). The candidate must earn the qualifying score of 220 on the Ohio Assessments for Educators: Educational Leadership. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Principal Grades 4-9 Licensure Preparation non-degree program prepares students to obtain the Ohio Principal 4-9 License. In this program, students complete sequence of courses leading to license. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

This program is not a master's degree program. Students interested in obtaining a principal license and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Principal Grades 5-12 Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

Contact Information

- School of Foundations, Leadership and Administration | 330-672-2012

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the Principal Grades 5-12 Licensure Preparation non-degree program are not being accepted at this time.

Examples of Possible Careers and Salaries*

Education administrators, kindergarten through secondary

- 3.9% about as fast as the average
- 283,200 number of jobs
- $98,490 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Principal Grades 5-12 Licensure Preparation non-degree program are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- GRE scores if GPA is below 2.750 GPA
- Goal statement
- Evidence of at least two years of successful teaching experience under a professional teacher license at the 5-1 2 grade level
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements		
EDLE 66492	INTERNSHIP IN EDUCATIONAL ADMINISTRATION [1]	3
EDLE 66518	SCHOOL AND SPECIAL EDUCATION LAW	3
EDLE 66525	THE EDUCATIONAL PRINCIPALSHIP	3
EDLE 66526	FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION	3
EDLE 66527	SCHOOL FINANCE FOR BUILDING ADMINISTRATORS	3
EDLE 66529	LEADING FOR SOCIAL JUSTICE	3
EDLE 66531	INSTRUCTIONAL LEADERSHIP [1]	3
EDLE 66536	THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT [1]	3
EDLE 66542	PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION	3
EDLE 66544	COMMUNITY RELATIONS AND COMMUNICATION SKILLS	3
RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Minimum Total Credit Hours:		**33**

[1] Content must be consistent with the certification level; internship must be completed within grade band of intended licensure.

Progression Requirements

- Must maintain a 3.000 overall GPA

Graduation Requirements

- Minimum 3.000 overall GPA
- A master's degree, with a core of coursework in Educational Leadership plus 3 additional hours for the internship, is required for this license.
- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered..

Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). The candidate must earn the qualifying score of 220 on the Ohio Assessments for Educators: Educational Leadership. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for Principals
2. Describe the Ohio Standards for the Teaching Profession
3. Describe the Ohio Standards for Professional Development
4. Describe the Ohio School Operating Standards
5. Describe the Ohio Value Added Progress Dimension(s)
6. Demonstrate knowledge and skills consistent with the ELCC District and/or NELP District standards
7. Demonstrate knowledge and skills identified in CAEP Advanced Standard A. 1

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.

- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Principal Grades 5-12 Licensure Preparation non-degree program will prepare students to obtain the Ohio Principal 5-1 2 License. The administrative specialist license is valid for working in a central office or supervisory capacity. In this program, students will complete sequence of courses leading to license. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

The non-degree program is not a master's degree program. Students interested in obtaining a principal license and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Principal Grades PK-6 Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

Contact Information

- School of Foundations, Leadership and Administration | 330-672-2012

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the Principal Grades PK-6 Licensure Preparation non-degree program are not being accepted at this time.

Examples of Possible Careers and Salaries*

Education administrators, kindergarten through secondary

- 3.9% about as fast as the average
- 283,200 number of jobs
- $98,490 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Principal Grades PK-6 Licensure Preparation non-degree program are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- GRE scores if GPA is below 2.750 GPA
- Goal statement
- Evidence of at least two years of successful teaching experience under a professional teacher license at the PK-6 level
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements		
EDLE 66492	INTERNSHIP IN EDUCATIONAL ADMINISTRATION	3
EDLE 66518	SCHOOL AND SPECIAL EDUCATION LAW	3
EDLE 66525	THE EDUCATIONAL PRINCIPALSHIP	3
EDLE 66526	FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION	3
EDLE 66527	SCHOOL FINANCE FOR BUILDING ADMINISTRATORS	3
EDLE 66529	LEADING FOR SOCIAL JUSTICE	3
EDLE 66531	INSTRUCTIONAL LEADERSHIP	3

EDLE 66536	THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT	3
EDLE 66542	PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION	3
EDLE 66544	COMMUNITY RELATIONS AND COMMUNICATION SKILLS	3
RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Minimum Total Credit Hours:		**33**

Progression Requirements

- Must maintain a 3.000 overall GPA

Graduation Requirements

- Minimum 3.000 overall GPA
- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). The candidate must earn the qualifying score of 220 on the Ohio Assessments for Educators: Educational Leadership. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

A master's degree, with a core of coursework in Educational Leadership plus 3 additional hours for the internship, is required for this license.

Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for Principals.
2. Describe the Ohio Standards for the Teaching Profession.
3. Describe the Ohio Standards for Professional Development.
4. Describe the Ohio School Operating Standards.
5. Describe the Ohio Value Added Progress Dimension(s).
6. Demonstrate knowledge and skills consistent with the ELCC District and/or NELP District standards.
7. Demonstrate knowledge and skills identified in CAEP Advanced Standard A. 1.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Principal Grades PK-6 Licensure Preparation non-degree program will prepare students to obtain the Ohio Principal PK-6 License. In this program, students will complete sequence of courses leading to license. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

The non-degree program is not a master's degree program. Students interested in obtaining a principal license and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Professional Studies - B.S.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

Earn your B.S. in Professional Studies and advance your career in education, health or human services. This flexible, completer program builds skills in program planning, technology and multicultural communication, preparing you for roles in youth centers, social agencies, museums and more — or for graduate study in a related field.

Contact Information

- **Jennifer Ray-Tomasek** | jtomasek@kent.edu | 330-672-0216
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Mostly online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

Graduates have pursued careers in many education-related fields, including social service agencies, national parks, computer network

management, ministry, and museum education. This program can also prepare students for graduate work. Recent graduates have pursued advanced degrees in Higher Education Administration, law, library service, instructional technology, and counseling.

The Professional Studies program can be designed to meet many different career goals. Employers often look for employees who have strength in communications, the ability to work well on teams, who are well-rounded in their education, demonstrate leadership skills, and possess excellent computer skills

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Students wishing to declare the Professional Studies major must meet with either the program's coordinator or with the academic advisor within the College of Education, Health and Human Services to discuss their future academic and career goals and to develop an approved program of study. Ideally, students should begin the process for evaluation and program review at or near the time they have a minimum of 60 earned credit hours.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

This degree program may not be earned as a double major or dual degree with another major and cannot be earned as an additional degree after another degree at the same or higher level has been earned previously.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
PROS 44003	CAREER DEVELOPMENT IN PROFESSIONAL STUDIES	3
PROS 44004	RESEARCH AND WRITINGS IN PROFESSIONAL STUDIES (WIC) (min C grade) [1]	3
PROS 44005	EXPLORATION AND APPLICATION OF LEADERSHIP SKILLS FOR VARIED PROFESSIONAL SETTINGS	3
PROS 44092	PRACTICUM IN PROFESSIONAL STUDIES (ELR) [2]	1-12
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		73
Minimum Total Credit Hours:		**120**

1. Students who have successfully completed a designated writing-intensive course may be waived from PROS 44004 with approval by the Professional Studies program coordinator. A minimum C grade must be earned to fulfill the writing-intensive requirement.
2. State/Federal background checks may be required for practicum experiences. Students with prior work, internship, practicum, student teaching and/or field experience may be waived from PROS 44092 with approval by the Professional Studies program coordinator. However, the experiential learning requirement will still need to be met by a course or non-course activity. A maximum of 12 credit hours of PROS 44092 may apply toward graduation requirements.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- No dual degree/major may be earned with the Professional Studies major.

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7

Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a basic knowledge of education that meets the requirements of the College of Education, Health and Human Services.
2. Apply skills and competencies required in desired career paths.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science degree in Professional Studies is a completer program designed for those who wish to work in education, health and human services settings or to continue their studies in a related graduate program. The program reflects a consideration for the nature of the setting in which individuals will work (e.g., youth center, social agency, museum, park, business), the particular skills and competencies required in such career (e.g., program planning, technology utilization, interpersonal and multicultural facilitation) and the nature of the particular function which characterizes the option (e.g., program design, instruction, service delivery).

Qualitative Research - Graduate Certificate

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Qualitative Research graduate certificate provides advanced training in research methods, data analysis and theoretical approaches to qualitative research across a variety of disciplines. Whether you are a graduate student seeking to enhance your research skills or a professional looking to expand your expertise, this program will help you achieve your goals. Read more...

Contact Information

- **Sheryl Chatfield** | schatfi1@kent.edu | 330-672-3945
  Tricia Niesz | tniesz@kent.edu | 330-672-0591
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Area, ethnic, and cultural studies teachers, postsecondary

- 4.9% about as fast as the average
- 13,400 number of jobs
- $78,840 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Social sciences teachers, postsecondary, all other

- -0.3% little or no change
- 19,300 number of jobs
- $69,340 potential earnings

Social scientists and related workers, all other

- 0.8% little or no change
- 38,800 number of jobs
- $87,260 potential earnings

Sociologists

- 3.6% about as fast as the average
- 3,200 number of jobs
- $86,110 potential earnings

Survey researchers

- -3.7% decline
- 12,200 number of jobs
- $59,870 potential earnings

Additional Careers

- Epidemiology investigator
- Rural sociologist

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement
- Two letters of recommendations
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Review of applications will be handled by one of the certificate co-coordinators, who will also evaluate prerequisites (if substitute syllabi are submitted by student).

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
Introductory Elective, choose from the following: [1]		3
COMM 65040	QUALITATIVE RESEARCH METHODS IN COMMUNICATION	
GEOG 60900	QUALITATIVE RESEARCH METHODS IN GEOGRAPHY	
POL 60010	QUALITATIVE RESEARCH METHODS	
SBS 63010	QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH	
SOC 62219	QUALITATIVE METHODS IN SOCIOLOGY	
RMS 65516	QUALITATIVE RESEARCH DESIGN	
Research Design/Analysis Electives, choose from the following:		6
COMM 65040	QUALITATIVE RESEARCH METHODS IN COMMUNICATION	
GEOG 60900	QUALITATIVE RESEARCH METHODS IN GEOGRAPHY	
NURS 70742	ADVANCED QUALITATIVE METHODS FOR HEALTH SCIENCES	
POL 60010	QUALITATIVE RESEARCH METHODS	
RMS 65516	QUALITATIVE RESEARCH DESIGN	
RMS 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
SBS 63010	QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH	
SBS 63011	QUALITATIVE DATA ANALYSIS	
SOC 62219	QUALITATIVE METHODS IN SOCIOLOGY	
SOC 62221	ADVANCED QUALITATIVE METHODS IN SOCIOLOGY	
Certificate Electives, choose from the following: [2]		9
CULT 60050	HUMANITIES-ORIENTED RESEARCH IN EDUCATION	
GEOG 52053	GEOGRAPHIES OF MEMORY AND HERITAGE	
MUS 63283	RESEARCH IN MUSIC EDUCATION	
MUS 63285	PHILOSOPHY OF MUSIC EDUCATION	
MUS 63286	SOCIOLOGY OF MUSIC EDUCATION	
NURS 70742	ADVANCED QUALITATIVE METHODS FOR HEALTH SCIENCES	
RMS 65522	BASICS OF QUALITATIVE INTERVIEWING	
RMS 65530	PRACTITIONER INQUIRY	
RMS 65533	INTRODUCTION TO NARRATIVE INQUIRY AND ANALYSIS	
RMS 68795	SPECIAL TOPICS IN EVALUATION AND MEASUREMENT	
RMS 85520	MIXED METHODS RESEARCH	
RMS 85540	GROUNDED THEORY AND PHENOMENOLOGICAL RESEARCH	

RMS 85550	ETHNOGRAPHY AND CASE STUDY RESEARCH
RMS 85560	CRITICAL SOCIAL RESEARCH
RMS 88795	SPECIAL TOPICS: EVALUATION AND MEASUREMENT
SBS 60030	CODING FOR QUALITATIVE RESEARCH
SBS 60040	TRANSCRIBING INDIVIDUAL AND GROUP INTERVIEWS FOR QUALITATIVE RESEARCH
Minimum Total Credit Hours:	**18**

[1] These courses can be used to fulfill the requirement for other required courses if the following conditions are met: (1) the course was not previously taken to fulfill the required first course requirement; (2) the course is outside of the student's primary major or degree area.

[2] Other courses that may be applied toward this elective requirement are special topics and independent study courses offered by faculty/departments with courses represented by the certificate—or in Anthropology (ANTH), Computer Science (CS), Interior Design (ID) or in others—as approved by a program co-coordinator.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Students declared in a doctoral degree should enroll in the doctoral-level version of these courses if offered.
- Prior coursework may be counted for all requirements, as long as it is substantially similar as judged by syllabi from the course and is less than six years old at time of earning the certificate. Students may substitute courses at the discretion of the program coordinators.

Program Learning Outcomes

Graduates of this program will be able to:

1. Argue for the value of qualitative methodological approaches and help others understand the value of this form of inquiry to enhance understanding within their respective fields.
2. Critique and review a wide variety of qualitative research in their respective fields.
3. Create and enact a variety of forms of high-quality, ethical qualitative research in their respective fields.

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Full Description

The Qualitative Research graduate certificate is for students who wish to improve their ability to design, conduct, analyze and quality-assess qualitative approaches to research used in the context of funded research, educational assessment, program evaluation, critical, creative, exploratory or theoretical endeavors or other applications.

The courses in this program offer students inter- and trans-disciplinary opportunities to learn and develop skills in qualitative methodologies, including grounded theory, phenomenology, ethnography and descriptive approach; as well as methods, including observation, interviewing, transcription, data analysis, use of software, analytic memoing and others.

Recreation Management - Minor

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Recreation Management minor prepares students to be leaders in facilitating recreation activities in a variety of settings with diverse populations in community recreation agencies, youth development agencies, campus recreation and wellness centers, adventure centers, corporate recreation and fitness programs, military recreation, senior centers and youth sports organizations and camps. The minor provides students with knowledge, skills and abilities through coursework and hands-on, field-based experiences.

Contact Information

- **Mary Parr** | mparr@kent.edu | 330-672-0217
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

The Recreation Management minor is not accepting students at this time.

Admission Requirements

The Recreation Management minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Students declared in the Recreation, Park and Tourism Management major may not declare the Recreation Management minor.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.250 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
RPTM 16000	FOUNDATIONS OF RECREATION AND LEISURE	3
RPTM 26030	LEADERSHIP IN RECREATION, PARKS AND TOURISM	3
RPTM 36040	INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)	3
RPTM 36075	EXPERIENCE DESIGN IN RECREATION, PARK AND TOURISM SETTINGS	3
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply theoretical, philosophical and conceptual foundations of recreation and leisure to recreation program management.
2. Execute group facilitation techniques with diverse clientele to achieve recreation program outcomes.
3. Design, implement and evaluate recreation programs to meet the needs of diverse clientele.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Recreation, Park and Tourism Management - B.S.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Recreation, Park and Tourism Management B.S. program is perfect for students interested in sharing their passions and making a difference in people's lives. From outdoor recreation, travel and sports, to camping, performing/visual arts and health and fitness. Read more...

Contact Information

- **Mary Parr** | mparr@kent.edu | 330-672-0217
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

*Applications to the B.S. in Recreation, Park and Tourism Management are not being accepted at this time. Students interested in Park Management should contact Andrew Lepp (*alepp1@kent.edu*). Students interested in Tourism Management should contact Philip Wang (*pwang@kent.edu*)*

Examples of Possible Careers

- Managers and leaders with public/community park and recreation services
- Managers and leaders with non-profit recreation agencies
- Managers and leaders providing recreation, outdoor recreation, or tourism services to specialized groups such as youth, senior/older adults, people with disabilities, immigrant communities, marginalized populations
- Managers and leaders with health and wellness organization and services
- Managers and leaders who plan special events/community-wide events
- Managers and leaders with tourism services and agencies
- Interpreters, guides, managers, leaders with historic, cultural, nature-based organizations
- Park rangers, interpreters, guides, naturalists with regional, state, and national parks
- Leaders and organizers with outdoor recreation agencies

Accreditation

Council on Accreditation for Parks, Recreation, Tourism and Related Professions (COAPRT)

Admission Requirements

*Applications to the B.S. in Recreation, Park and Tourism Management are not being accepted at this time. Students interested in Park Management should contact Andrew Lepp (*alepp1@kent.edu*). Students interested in Tourism Management should contact Philip Wang (*pwang@kent.edu*)*

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
RPTM 16000	FOUNDATIONS OF RECREATION AND LEISURE	3
RPTM 16001	CAREER EXPLORATION IN RECREATION, PARK, AND TOURISM MANAGEMENT	1
RPTM 26010	COMMUNITY DEVELOPMENT IN RECREATION	3
RPTM 26030	LEADERSHIP IN RECREATION, PARKS AND TOURISM	3
RPTM 26060	INTRODUCTION TO GLOBAL TOURISM (DIVG)	3
RPTM 26081	PRINCIPLES OF OUTDOOR RECREATION	3
RPTM 36040	INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)	3
RPTM 36060	ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES	3
RPTM 36075	EXPERIENCE DESIGN IN RECREATION, PARK AND TOURISM SETTINGS	3
RPTM 36082	INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	3
RPTM 36085	LEISURE AND CULTURE (DIVD)	3
RPTM 46000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	3
RPTM 46030	DYNAMICS OF LEISURE BEHAVIOR (WIC) [1]	3
RPTM 46060	ADMINISTRATION OF LEISURE SERVICES	3
RPTM 46070	PARK PLANNING	3
RPTM 46091	SEMINAR FOR INTERNSHIP PREPARATION	1
RPTM 46092	INTERNSHIP IN RECREATION (ELR)	9
SPAD 46080	LEGAL ISSUES IN SPORT AND RECREATION	3
Additional Requirements (courses do not count in major GPA)		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		9
Kent Core Additional		3
Concentrations		

Choose from the following:		33
Recreation Management		
Park Management		
Tourism Management		
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Park Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 30360	GENERAL ECOLOGY	4
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
HDF 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	3
RPTM 36083	ENVIRONMENTAL EDUCATION AND CONSERVATION	3
Natural Resources Electives, choose from the following:		13
BSCI 30275	LOCAL FLORA (ELR)	
BSCI 40374	CONSERVATION BIOLOGY (ELR)	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
ESCI 33025	WATER AND THE ENVIRONMENT	
ESCI 41077	GEOLOGY OF THE NATIONAL PARKS	
Additional Requirements (courses do not count in major GPA)		
Kent Core Basic Sciences		2
Minimum Total Credit Hours:		**33**

Recreation Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
COMM 20001	INTERPERSONAL COMMUNICATION	3
or COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
HDF 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	3
HEM 20040	THE BUSINESS OF EVENT MANAGEMENT [1]	3
MKTG 25010	PRINCIPLES OF MARKETING	3
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION	3
Concentration Electives, choose from the following: (courses are grouped by interest, but any combination may be selected)		9
Human Development and Community Unity		
HDF 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	
HDF 44034	PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT	
HDF 44037	POSITIVE YOUTH DEVELOPMENT	
MDJ 28001	PRINCIPLES OF PUBLIC RELATIONS	
RPTM 36010	RECREATION, LEISURE AND AGING	
Community Health		
EXSC 40612	EXERCISE LEADERSHIP FOR THE OLDER ADULT	
HED 11590	COMMUNITY HEALTH EDUCATION	
HED 42041	HEALTH COACHING	
PH 10001	INTRODUCTION TO PUBLIC HEALTH	
Environment		
ENGR 27210	INTRODUCTION TO SUSTAINABILITY	
GEOG 32023	FOOD AND PLACE (ELR)	
RPTM 36083	ENVIRONMENTAL EDUCATION AND CONSERVATION	
Other Elective		
SPAD 45034	ESPORT MANAGEMENT	
Additional Requirements (courses do not count in major GPA)		
Kent Core Basic Sciences (must include one laboratory)		6-7
Minimum Total Credit Hours:		**33**

[1] With permission, students who complete RPTM 16000 and RPTM 16001 may register for HEM 20040.

Tourism Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
RPTM 45047	GLOBAL ISSUES OF TOURISM TRADE	3
Geography Electives, choose from the following		6
GEOG 41800	GLOBAL ENVIRONMENTAL ISSUES	
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE	
GEOG 46070	URBAN AND REGIONAL PLANNING	
Business Elective, choose from the following:		3
CIS 34054	USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS	
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
MGMT 34165	DYNAMICS OF LEADERSHIP	
MKTG 35035	CONSUMER BEHAVIOR	
MKTG 45045	ADVERTISING AND PROMOTION MANAGEMENT	
MKTG 45060	INTERNATIONAL MARKETING	
MKTG 45082	SERVICES MARKETING	
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
FIN 36053	BUSINESS FINANCE	3
MDJ 28001	PRINCIPLES OF PUBLIC RELATIONS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Basic Sciences (must include one laboratory)		6-7
Minimum Total Credit Hours:		**33**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

Roadmaps

Park Management Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	RPTM 16000	FOUNDATIONS OF RECREATION AND LEISURE	3
	RPTM 16001	CAREER EXPLORATION IN RECREATION, PARK, AND TOURISM MANAGEMENT	1
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	RPTM 26010	COMMUNITY DEVELOPMENT IN RECREATION	3
!	RPTM 26030	LEADERSHIP IN RECREATION, PARKS AND TOURISM	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	BSCI 30360	GENERAL ECOLOGY	4
!	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
!	RPTM 26060	INTRODUCTION TO GLOBAL TOURISM (DIVG)	3
	RPTM 36060	ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
!	RPTM 26081	PRINCIPLES OF OUTDOOR RECREATION	3
!	RPTM 36075	EXPERIENCE DESIGN IN RECREATION, PARK AND TOURISM SETTINGS	3
	Concentration Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	HDF 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	3
!	RPTM 36040	INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)	3
!	RPTM 36083	ENVIRONMENTAL EDUCATION AND CONSERVATION	3
	RPTM 36085	LEISURE AND CULTURE (DIVD)	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
!	RPTM 36082	INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	3
!	RPTM 46030	DYNAMICS OF LEISURE BEHAVIOR (WIC)	3
!	RPTM 46060	ADMINISTRATION OF LEISURE SERVICES	3
!	RPTM 46091	SEMINAR FOR INTERNSHIP PREPARATION	1
	Concentration Elective		4
	Kent Core Requirements		2
		Credit Hours	**16**
	Semester Seven		
	GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
	RPTM 46000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	3
!	RPTM 46070	PARK PLANNING	3
!	SPAD 46080	LEGAL ISSUES IN SPORT AND RECREATION	3
	Concentration Elective		3
		Credit Hours	**16**
	Semester Eight		
!	RPTM 46092	INTERNSHIP IN RECREATION (ELR)	9
	Concentration Elective		3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

Recreation Management Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	RPTM 16000	FOUNDATIONS OF RECREATION AND LEISURE	3
	RPTM 16001	CAREER EXPLORATION IN RECREATION, PARK, AND TOURISM MANAGEMENT	1
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	RPTM 26010	COMMUNITY DEVELOPMENT IN RECREATION	3
!	RPTM 26030	LEADERSHIP IN RECREATION, PARKS AND TOURISM	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
!	RPTM 26060	INTRODUCTION TO GLOBAL TOURISM (DIVG)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	COMM 20001 or COMM 35852	INTERPERSONAL COMMUNICATION or INTERCULTURAL COMMUNICATION (DIVG)	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
!	MKTG 25010	PRINCIPLES OF MARKETING	3
	RPTM 26081	PRINCIPLES OF OUTDOOR RECREATION	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	HEM 20040	THE BUSINESS OF EVENT MANAGEMENT	3
!	RPTM 36040	INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)	3
	RPTM 36060	ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES	3
!	RPTM 36075	EXPERIENCE DESIGN IN RECREATION, PARK AND TOURISM SETTINGS	3
!	RPTM 36085	LEISURE AND CULTURE (DIVD)	3

	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Six		
	POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION	3
	RPTM 36082	INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	3
!	RPTM 46030	DYNAMICS OF LEISURE BEHAVIOR (WIC)	3
!	RPTM 46060	ADMINISTRATION OF LEISURE SERVICES	3
!	RPTM 46091	SEMINAR FOR INTERNSHIP PREPARATION	1
	Concentration Elective		3
		Credit Hours	**16**
	Semester Seven		
	HDF 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	3
	RPTM 46000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	3
!	RPTM 46070	PARK PLANNING	3
!	SPAD 46080	LEGAL ISSUES IN SPORT AND RECREATION	3
	Concentration Elective		3
		Credit Hours	**15**
	Semester Eight		
!	RPTM 46092	INTERNSHIP IN RECREATION (ELR)	9
	Concentration Elective		3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

Tourism Management Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	RPTM 16000	FOUNDATIONS OF RECREATION AND LEISURE	3
!	RPTM 16001	CAREER EXPLORATION IN RECREATION, PARK, AND TOURISM MANAGEMENT	1
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	RPTM 26010	COMMUNITY DEVELOPMENT IN RECREATION	3
!	RPTM 26030	LEADERSHIP IN RECREATION, PARKS AND TOURISM	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Three		
!	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	MDJ 28001	PRINCIPLES OF PUBLIC RELATIONS	3
!	RPTM 26060	INTRODUCTION TO GLOBAL TOURISM (DIVG)	3
	Concentration Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
	MKTG 25010	PRINCIPLES OF MARKETING	3
!	RPTM 26081	PRINCIPLES OF OUTDOOR RECREATION	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
!	RPTM 36040	INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)	3
	RPTM 36060	ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES	3
!	RPTM 36075	EXPERIENCE DESIGN IN RECREATION, PARK AND TOURISM SETTINGS	3
	RPTM 36085	LEISURE AND CULTURE (DIVD)	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	MGMT 24163	PRINCIPLES OF MANAGEMENT	3
	RPTM 36082	INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	3
!	RPTM 46030	DYNAMICS OF LEISURE BEHAVIOR (WIC)	3
!	RPTM 46060	ADMINISTRATION OF LEISURE SERVICES	3
!	RPTM 46091	SEMINAR FOR INTERNSHIP PREPARATION	1
!	SPAD 46080	LEGAL ISSUES IN SPORT AND RECREATION	3
		Credit Hours	**16**
	Semester Seven		
	FIN 36053	BUSINESS FINANCE	3
	RPTM 45047	GLOBAL ISSUES OF TOURISM TRADE	3
!	RPTM 46000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	3
!	RPTM 46070	PARK PLANNING	3
	Concentration Requirement		3
		Credit Hours	**15**
	Semester Eight		
!	RPTM 46092	INTERNSHIP IN RECREATION (ELR)	9
	Concentration Elective		3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours

Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Articulate the impact of inclusive policies and practices targeted toward underrepresented individuals and groups including, but not limited to disability, race and/or ethnicity, age, social class, gender and sexual orientation.
2. Identify principles of inclusion, modification and laws related to equal opportunity; and select strategies to mitigate barriers influencing recreation participation for people with disabilities.
3. Outline the historical, scientific and philosophical foundations of the field.
4. Differentiate the nature and scope of the industry, including critical aspects of program development, service development, management and the components of leisure service delivery systems and various providers and levels of recreation.
5. Analyze and apply common management roles, responsibilities and approaches applicable to the field and the leadership styles and practices related to personnel management.
6. Investigate public relations and marketing strategies, planning and development issues, and fiscal/budgetary management.
7. Illustrate site specific attributes in relation to the field and the components of professional practice for successful engagement with the site.
8. Model ethical, professional, appropriate behavior and the ability to communicate effectively in oral, visual and written forms.
9. Apply basic principles of the program development cycle for recreation services and modifications for inclusivity.
10. Engage in academic research, writing and evaluation of literature and data for evidence-based improvement of services in leisure science.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science degree in Recreation, Park and Tourism Management provides students with an academic foundation and field experiences in preparation for the recreation, park and tourism professions. The program is comprised of three concentrations:

- The **Park Management** concentration focuses on providing opportunities for outdoor recreation and protecting the natural, cultural and historic resources on which those opportunities depend. Complementary minors include Disability Studies and Community Inclusion, Biology for Environmental Management and Conservation.
- The **Recreation Management** concentration focuses on providing opportunities for individuals and community health and wellbeing through recreation and parks in public, nonprofit and commercial settings. Complementary minors include: Disability Studies and Community Inclusion, Nonprofit Studies, Event Planning,
- The **Tourism Management** concentration focuses on providing entrepreneurial services for tourism industries as well as sustainable tourism destination management. Complementary minors include: Disability Studies and Community Inclusion, Event Planning, Business Management.

Research, Measurement and Statistics - M.Ed.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Master of Education degree in Research, Measurement and Statistics develops educators and specialists in the areas of assessment, measurement, research design and program evaluation. The program serves teachers and administrators seeking applied measurement, research and evaluation skills for use in schools (pre-kindergarten to grade 12) and in higher education. The program also serves professionals seeking careers in the areas of evaluation, research and psychometrics.

Contact Information

- **Jason Schenker** | jschenke@kent.edu | 330-672-5797
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Social scientists and related workers, all other

- 0.8% little or no change
- 38,800 number of jobs
- $87,260 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 15
- **Spring Semester**
  - Priority deadline: October 15
- **Summer Term**
  - Priority deadline: March 15

Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
RMS 55610	CLASSROOM ASSESSMENT	3
or RMS 68710	INTRODUCTION TO MEASUREMENT	
RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	3
RMS 65515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	3
RMS 65516	QUALITATIVE RESEARCH DESIGN	3
RMS 68715	SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION	3
RMS 68716	STATISTICS II: ANOVA AND NONPARAMETRIC TESTS	3
or RMS 68728	MULTIPLE REGRESSION	
RMS 68798	RESEARCH IN EVALUATION AND MEASUREMENT	3

RMS 68807	PROGRAM EVALUATION	3
Electives		3
Minimum Total Credit Hours:		**30**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students have six years from the term of first enrollment to complete their M.Ed. degree.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge of descriptive and inferential statistics at a conceptual and application level.
2. Demonstrate knowledge of research design and methods by selecting and executing the appropriate research design and methods for a variety of applications.
3. Demonstrate knowledge of measurement, including the methods to develop valid and reliable measures of constructs.
4. Demonstrate knowledge of contemporary and classic theories in program evaluation, the purposes and logic of program evaluation and the processes of different types of program evaluation.

Research, Measurement and Statistics - Ph.D.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

Discover Kent State University's Ph.D. program in Research, Measurement and Statistics within the College of Education, Health, and Human Services. This program equips students with advanced quantitative and methodological skills essential for conducting rigorous research in various fields. Gain expertise in statistical analysis, measurement theory and research design, preparing you for impactful careers in academia, government or industry. Read more...

Contact Information

- Program Coordinator: **Jason Schenker** | jschenke@kent.edu | 330-672-5797
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- $87,660 potential earnings

Social scientists and related workers, all other

- 0.8% little or no change
- 38,800 number of jobs
- $87,260 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Minimum 3.500 GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 15
- **Spring Semester**
  - Priority deadline: October 15
- **Summer Term**
  - Priority deadline: March 15

Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Code	Title	Credit Hours
Major Requirements		
RMS 75510	STATISTICS I FOR EDUCATIONAL SERVICES	3
RMS 78710	INTRODUCTION TO MEASUREMENT	3
or RMS 78715	SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION	
RMS 78711	MODERN TEST THEORY: ITEM RESPONSE THEORY	3
RMS 78713	MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH	3
RMS 78714	FACTOR ANALYSIS IN EDUCATIONAL RESEARCH	3
RMS 78716	STATISTICS II: ANOVA AND NONPARAMETRIC TESTS	3
RMS 78728	MULTIPLE REGRESSION	3
RMS 78735	STRUCTURAL EQUATION MODELING	3
RMS 78745	HIERARCHICAL LINEAR MODELING	3
RMS 78807	PROGRAM EVALUATION	3
RMS 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	3
RMS 85516	QUALITATIVE RESEARCH DESIGN	3
RMS 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	3
or RMS 85520	MIXED METHODS RESEARCH	
RMS 88791	SEMINAR: EVALUATION AND MEASUREMENT	3
Electives, as approved by program advisor		9
Culminating Requirement		
RMS 80199	DISSERTATION I [1]	30
Minimum Total Credit Hours:		**81**

[1] Upon admission to candidacy. each doctoral candidate must register for RMS 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter RMS 80299, each semester until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

After admission to the Ph.D. degree program, students plan a program of study with their respective faculty advisory committee headed by their advisor.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge of descriptive and inferential statistics at a conceptual and application level.
2. Demonstrate knowledge of research design and methods by selecting and executing the appropriate research design and methods for a variety of applications.
3. Demonstrate knowledge of measurement, including the methods to develop valid and reliable measures of constructs.
4. Demonstrate knowledge of contemporary and classic theories in program evaluation, the purposes and logic of program evaluation and the processes of different types of program evaluation.

Full Description

The Ph.D. degree in Research, Measurement and Statistics develops professionals who have the theoretical knowledge base and application skills to teach courses at the college level in research design, statistics, measurement and evaluation; conceptualize, design and evaluate a wide variety of research methodologies; choose appropriate analyses for questions and designs that have been proposed; communicate effectively with educators and other professionals in the development and application of research and psychometric materials; and evaluate programs culminating in written reports.

Course offerings encompass the broad range of expertise required of those who will assume leadership roles in the conduct and teaching of research, measurement, statistics and evaluation.

Sport Administration - B.S.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Sport Administration B.S. curriculum blends coursework in sports management, marketing, finance and law to prepare you for a career in the sports industry. With hands-on experiences through internships and real-world projects, you'll gain the skills and knowledge to excel in this exciting field. Read more...

Contact Information

- **Aaron Mulrooney** | amulroon@kent.edu | 330-672-0204
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Coaches and scouts

- 11.8% much faster than the average
- 292,000 number of jobs
- $36,330 potential earnings

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Fundraisers

- 14.3% much faster than the average
- 100,600 number of jobs
- $59,610 potential earnings

Market research analysts and marketing specialists

- 17.7% much faster than the average
- 738,100 number of jobs
- $65,810 potential earnings

Marketing managers

- 6.7% faster than the average
- 286,300 number of jobs
- $142,170 potential earnings

Sales and related workers, all other

- 1.9% slower than the average
- 142,900 number of jobs
- $30,550 potential earnings

Sales managers

- 3.5% about as fast as the average
- 433,800 number of jobs
- $132,290 potential earnings

Miscellaneous entertainers and performers, sports and related workers

- 4.2% about as fast as the average
- 33,300 number of jobs
- $N/A potential earnings

Personal service managers, all other; entertainment and recreation managers, except gambling; and managers, all other

- -1.8% decline
- 1,189,200 number of jobs
- $116,350 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BA 24056	BUSINESS ANALYTICS I	3
or BMRT 21004	BUSINESS ANALYTICS I	

or MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
SPAD 15000	INTRODUCTION TO SPORT ADMINISTRATION	3
SPAD 25000	SPORT IN SOCIETY (DIVD)	3
SPAD 25092	PRACTICUM I IN SPORT ADMINISTRATION (ELR) [1]	1
SPAD 35021	GOVERNANCE IN SPORT	3
SPAD 35025	FACILITY MANAGEMENT	3
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) [2]	3
or SPAD 45029	HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS	
SPAD 35092	PRACTICUM II IN SPORT ADMINISTRATION (ELR) [1]	1
SPAD 45020	ORGANIZATION, ADMINISTRATION AND LEADERSHIP IN SPORT	3
SPAD 45022	EVENT PLANNING AND PRODUCTION	3
SPAD 45023	SPORT MARKETING	3
SPAD 45024	SPORT IN GLOBAL PERSPECTIVE	3
SPAD 45026	SPORT AND THE MEDIA	3
SPAD 45027	PUBLIC RELATIONS AND PROMOTION IN SPORT	3
SPAD 45030	SPORT ENTERPRISE (WIC) [2]	3
SPAD 45032	SALES MANAGEMENT IN SPORT AND ENTERTAINMENT	3
SPAD 45091	SEMINAR FOR INTERNSHIP PREPARATION	1
SPAD 45092	INTERNSHIP IN SPORT ADMINISTRATION (ELR) [1]	6-12
SPAD 46080	LEGAL ISSUES IN SPORT AND RECREATION	3
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
MKTG 25010	PRINCIPLES OF MARKETING	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
or SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning [3]		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Basic Sciences (must include one laboratory)		6-7
Minor Requirements and General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [4]		23
Minimum Total Credit Hours:		**120**

1. State and Federal background checks may be required for practicum and internship experiences.
2. A minimum C grade must be earned to fulfill the writing-intensive requirement.
3. Students should review the mathematics requirement for their selected minor prior to registering for their Kent Core Mathematics and Critical Reasoning. If MATH 10041 has been taken, additional general electives may be required to maintain the 120 minimum total credit hours for graduation.
4. Students are required to declare and complete a minor as part of the sport administration program. Students may select one of the following minors at Kent State: Business; Data Analytics; Finance; International Business for Non-Business Majors; Management for Non-Business Majors; Marketing. The minor should be aligned with the student's overall educational and career goals. Number of credit hours depends on the minor selected.

Progression Requirements

Student must maintain a minimum 2.500 overall GPA and the minimum GPA for their selected minor(s) every semester, until graduation.

Students who do not maintain the minimum required GPA[1] will receive a warning and will be required to meet with their faculty and professional advisor to develop a plan of continuation. The plan will include all actions necessary to continue in the current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. Please refer to the Program Progression Requirements policy in the Academic Policies section in the University Catalog.

1. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Successful completion of one of the following minors is required for graduation: Business, Data Analytics, Finance, International Business for Non-Business Majors, Management for Non-Business Majors or Marketing. A minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing. Students should consult their advisor when choosing electives to fulfill minor requirements.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	SPAD 15000	INTRODUCTION TO SPORT ADMINISTRATION	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	PSYC 11762 or SOC 12050	GENERAL PSYCHOLOGY (DIVD) (KSS) or INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Minor Requirement or General Elective		3
		Credit Hours	**15**

	Semester Three		
!	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	SPAD 25000	SPORT IN SOCIETY (DIVD)	3
!	SPAD 25092	PRACTICUM I IN SPORT ADMINISTRATION (ELR)	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Minor Requirement or General Elective		3
		Credit Hours	**16**
	Semester Four		
	ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
!	MKTG 25010	PRINCIPLES OF MARKETING	3
	SPAD 35065 or SPAD 45029	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) or HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS	3
	Minor Requirement or General Elective		3
		Credit Hours	**15**
	Semester Five		
!	BA 24056 or BMRT 21004 or MATH 10041	BUSINESS ANALYTICS I or BUSINESS ANALYTICS I or INTRODUCTORY STATISTICS (KMCR)	3
!	SPAD 35021	GOVERNANCE IN SPORT	3
	SPAD 35025	FACILITY MANAGEMENT	3
	SPAD 45026	SPORT AND THE MEDIA	3
	Minor Requirement or General Elective		3
		Credit Hours	**15**
	Semester Six		
!	SPAD 35092	PRACTICUM II IN SPORT ADMINISTRATION (ELR)	1
	SPAD 45020	ORGANIZATION, ADMINISTRATION AND LEADERSHIP IN SPORT	3
	SPAD 45023	SPORT MARKETING	3
	SPAD 45032	SALES MANAGEMENT IN SPORT AND ENTERTAINMENT	3
	SPAD 46080	LEGAL ISSUES IN SPORT AND RECREATION	3
	Minor Requirement or General Elective		3
		Credit Hours	**16**
	Semester Seven		
	SPAD 45022	EVENT PLANNING AND PRODUCTION	3
	SPAD 45024	SPORT IN GLOBAL PERSPECTIVE	3
	SPAD 45027	PUBLIC RELATIONS AND PROMOTION IN SPORT	3
	SPAD 45030	SPORT ENTERPRISE (WIC)	3
!	SPAD 45091	SEMINAR FOR INTERNSHIP PREPARATION	1
	Minor Requirement or General Elective		2
		Credit Hours	**15**
	Semester Eight		
!	SPAD 45092	INTERNSHIP IN SPORT ADMINISTRATION (ELR)	6
	Minor Requirements and/or General Electives		6
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate comprehensive knowledge in the areas of promotion and marketing as related to sport.
2. Effectively and safely implement sporting events and fundraising events.
3. Demonstrate an understanding of the policies and organizations that govern sport.
4. Demonstrate knowledge of basic legal concepts and theory as it applies to sport.
5. Demonstrate financial knowledge of accounting, economics and finance as it applies to sport.
6. Demonstrate an understanding of ethics in sport management.
7. Demonstrate an understanding of management and organizational skills in sport.
8. Demonstrate an understanding of behavioral dimensions in sport.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after

the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science degree in Sport Administration prepares students for careers in the sport industry through a balanced academic program and numerous practical experiences.

Students complete a core group of courses developed to exceed accreditation guidelines, and all students are required to complete one of the following minors:

- Business
- Data Analytics
- Finance
- International Business for Non-Business Majors
- Management for Non-Business Majors
- Marketing

The curricular balance of sport, business and sociological courses along with three required practical experiences make the program of study one that is cutting edge compared to other programs within the state of Ohio and across the country.

Sport Administration - M.A.

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

Transform your passion for sports into a rewarding career with our master's degree in sport administration. Gain the skills and knowledge needed to thrive in the dynamic sports industry through our innovative curriculum and hands-on experience. Whether your dream is to work for a professional sports team, manage a sports facility or lead a sports marketing campaign, our program will empower you to turn your passion into a successful and fulfilling career. Read more...

Contact Information

- **Aaron Mulrooney** | amulroon@kent.edu | 330-672-0204
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Coaches and scouts

- 11.8% much faster than the average
- 292,000 number of jobs
- $36,330 potential earnings

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Fundraisers

- 14.3% much faster than the average
- 100,600 number of jobs
- $59,610 potential earnings

Market research analysts and marketing specialists

- 17.7% much faster than the average
- 738,100 number of jobs
- $65,810 potential earnings

Marketing managers

- 6.7% faster than the average
- 286,300 number of jobs
- $142,170 potential earnings

Sales and related workers, all other

- 1.9% slower than the average
- 142,900 number of jobs
- $30,550 potential earnings

Sales managers

- 3.5% about as fast as the average
- 433,800 number of jobs
- $132,290 potential earnings

Miscellaneous entertainers and performers, sports and related workers

- 4.2% about as fast as the average
- 33,300 number of jobs
- $N/A potential earnings

Personal service managers, all other; entertainment and recreation managers, except gambling; and managers, all other

- -1.8% decline
- 1,189,200 number of jobs
- $116,350 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
or RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	
SPAD 53018	ETHICS IN SPORT	3
SPAD 65008	SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY	3
SPAD 63091	RESEARCH SEMINAR	1
SPAD 65033	SPORT LAW	3
SPAD 65039	FINANCIAL ASPECTS OF SPORT	3
SPAD 65042	LEADERSHIP OF SPORT	3
SPAD 65045	SPORT MARKETING	3
Sport Administration (SPAD) Graduate-Level Electives (50000 level or higher) [1]		6-9
Culminating Requirement		
Choose from the following:		3-6
SPAD 63098	RESEARCH [2]	
or SPAD 65092	INTERNSHIP IN SPORT ADMINISTRATION	
SPAD 63199	THESIS I	
Minimum Total Credit Hours:		**34**

[1] Students may take other graduate courses with advisor approval.

[2] Students who select research or internship for their culminating requirement must select 9 credit hours of major electives to meet the overall minimum credit hours for the degree. Students choosing SPAD 65092 may be required to complete state or Federal background checks for their practicum or internship experience.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the knowledge and experience necessary to become successful as a professional in the sport industry.
2. Apply theoretical and practical knowledge of the industry in a professional career.

3. Engage and expand the number of international promotional, scholarly and educational research/presentation opportunities in the profession.

Dual Degree With Master of Business Administration

Students have the opportunity to complete a dual degree program with the M.A. degree in Sport Administration and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual M.B.A./M.A. in Sports Administration provides students with an integrated business and sports management education and prepares students for responsible leadership positions in sports settings. The program culminates with an internship, research project or thesis.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2-3
or RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2-3
or SPAD 65042	LEADERSHIP OF SPORT	
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
SPAD 65008	SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY	3
SPAD 63091	RESEARCH SEMINAR	1
SPAD 65039	FINANCIAL ASPECTS OF SPORT	3
SPAD 65045	SPORT MARKETING	3
Law Elective, choose from the following:		2-6
FIN 66050	LAW AND ETHICS	
SPAD 53018 & SPAD 65033	ETHICS IN SPORT and SPORT LAW	
Ambassador Crawford College of Business and Entrepreneurship Graduate Electives (50000 level or higher), choose from the following:		6
Accounting (ACCT) Course		
Business (BUS) Course		
Computer Information Systems (CIS) Course		
Economics (ECON) Course		
Entrepreneurship (ENTR) Course		
Finance (FIN) Course		
Human Resource Management (HRM) Course		
Management (MGMT) Course		
Marketing (MKTG) Course		
Sport Administration Major Electives, choose any SPAD or approved elective: [1]		6-9
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
Choose from the following: [1]		3-6
SPAD 63098	RESEARCH	
SPAD 63199	THESIS I	
SPAD 65092	INTERNSHIP IN SPORT ADMINISTRATION [2]	
Minimum Total Credit Hours:		**56**

1 Students who select SPAD 63098 or SPAD 65092 as the culminating requirement must select 9 credit hours of Sport Administration electives.

2 Students choosing SPAD 65092 may be required to complete state or Federal background checks for their practicum or internship experience.

Full Description

The Master of Arts degree in Sport Administration provides students a knowledge base in management theory and application in sport settings. The program culminates with an internship, research project or thesis.

Students have the opportunity to complete a dual degree program with the Master of Business Administration degree.

Sport Administration - Minor

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Sport Administration minor is for students who want an introduction to working in the sport industry.

Contact Information

- **Aaron Mulrooney** | amulroon@kent.edu | 330-672-0204
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new

students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
SPAD 25000	SPORT IN SOCIETY (DIVD)	3
SPAD 35021	GOVERNANCE IN SPORT	3
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC)	3
SPAD 45022	EVENT PLANNING AND PRODUCTION	3
SPAD 45023	SPORT MARKETING	3
SPAD 45024	SPORT IN GLOBAL PERSPECTIVE	3
or SPAD 45026	SPORT AND THE MEDIA	
SPAD 46080	LEGAL ISSUES IN SPORT AND RECREATION	3
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Tourism Management - Minor

College of Education Health and Human Services
School of Foundations, Leadership and Administration
www.kent.edu/ehhs/fla

About This Program

The Tourism Management minor prepares students to specialize in tourism service management and sustainable destination development relative to their careers. The minor provides students with the necessary skills for entrepreneurial success within the tourism industry. Exciting career opportunities exist in resorts, theme parks, special events, convention and visitors bureaus, regional planning, urban renewal, ecotourism, outdoor adventures, sport tourism and cultural tourism. The program provides students with knowledge, skills and abilities through coursework and hands-on, field-based experiences.

Contact Information

- **Mary Parr** | mparr@kent.edu | 330-672-0217
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Students declared in the Recreation, Park and Tourism Management major may not declare the Tourism Management minor.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.250 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
RPTM 26060	INTRODUCTION TO GLOBAL TOURISM (DIVG)	3
RPTM 36060	ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES	3
RPTM 36082	INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	3

RPTM 46000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	3	www.kent.edu/ehhs/hs
Minimum Total Credit Hours:		**12**	

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates with this minor will be able to:

1. Apply theoretical, philosophical, and conceptual knowledge to the management of tourists and tourism destinations.
2. Interpret tourism destination resources for the benefit and enjoyment of tourists.
3. Develop and promote domestic and international tourism itineraries.
4. Demonstrate understanding of the social and economic impacts of tourism at the local, regional and national levels.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

School of Health Sciences

College of Education Health and Human Services
School of Health Sciences
100 Nixson Hall
Kent Campus
330-672-2197

Undergraduate Programs

- Community Health Education - B.S.
- Exercise Science - B.S.
- Integrated Health Studies - B.S.
- Nutrition - B.S.
- School Health Education - B.S.E.
- Speech Pathology and Audiology - B.S.
- Sports Medicine - B.S.

Minors

- Community Health Education
- Human Sexuality
- Speech Pathology and Audiology
- Sports Medicine: Administration
- Sports Medicine: General Medical and Emergency Care
- Sports Medicine: Orthopedic Patient Care

Graduate Programs

- Athletic Training - M.S.
- Audiology - Au.D.
- Audiology - M.A.
- Audiology - Ph.D.
- Communication Sciences and Disorders - Ph.D.
- Exercise Physiology - M.S.
- Exercise Physiology - Ph.D.
- Health Education and Promotion - M.Ed.
- Health Education and Promotion - Ph.D.
- Nutrition - M.S.
- Speech Language Pathology - M.A.

Certificates

Undergraduate Certificates

- Alcohol, Tobacco and Other Drug Prevention

Licensure/Endorsement Programs - Non-Degree

Graduate

- School Health Education (P-12) Additional Licensure Preparation

School of Health Sciences Faculty

- Anderson, Alyssa (2023), Assistant Professor, Ph.D., University of North Carolina at Raleigh, 2023
- Arnold, Hayley S. (2010), Associate Professor, Ph.D., Vanderbilt University, 2007
- Axiotis, Irene R. (1985), Professor, Ph.D., Kent State University, 1996
- Backus, Angela S. (2003), Professor, Ph.D., Kent State University, 2010
- Baker, Emily A. (2012), Associate Lecturer, M.S., Case Western Reserve, 2001

- Barikoo, Ali (2017), Associate Professor, Ph.D., University of Florida, 2017
- Barkley, Jacob E. (2006), Professor, Ph.D., University at Buffalo, SUNY, 2007
- Berk, Lynn V. (2008), Senior Lecturer, M.A., Cleveland State University, 1981
- Bernert, Donna J. (2007), Associate Professor, Ph.D., Southern Illinois University, 2005
- Blakely, Carmen M. (2007), Associate Professor, Ed.D., AT Still University, 2020
- Bolden, William (2024), Lecturer, M.A., Kent State University, 2014
- Caine-Bish, Natalie L. (1997), Associate Professor, Ph.D., Kent State University, 2002
- Ding, Kele (2005), Professor, Ph.D., Indiana University-Bloomington, 2000
- Durant, Kathleen M. (2019), Assistant Professor, Ph.D., University Of Memphis, 2017
- Falcone, Tanya R. (2007), Senior Lecturer, M.S., Kent State University, 2009
- Forbes, Myrna A. (1998), Senior Lecturer, Au.D., University of Florida, 2005
- Glickman, Ellen L. (1995), Professor, Ph.D., University of Pittsburgh, 1988
- Ha, Eun-Jeong (2004), Professor, Ph.D., The Ohio State University, 1999
- Hale, Catherine C. (2000), Senior Lecturer, M.S., Indiana University, Bloomington, 1995
- Harnar, Hannah M. (2011), Associate Professor, M.S., Kent State Unviersity, 2013
- Huston, Jeffery L. (2007), Professor, Ed.D., Capella University, 2017
- Huyck, Julia J. (2013), Associate Professor, Ph.D., Northwestern University, 2010
- Jajtner, Adam (2016), Associate Professor, Ph.D., University of Central Florida, 2016
- Jonas, Jay C. (2006), Professor, Ph.D., Kent State University, 2018
- Kingsley, J. Derek (2013), Professor, Ph.D., Florida State University, 2009
- Kolonich, Erin M. (2017), Associate Lecturer, George Washington University, 2001
- Krumm, Mark P. (2005), Associate Professor, Ph.D., Wichita State University, 1990
- Magee, Meghan K. (2023), Assistant Professor, Ph.D., George Mason University, 2023
- Malone, Megan (2012), Senior Lecturer, M.A., Case Western Reserve University, 2000
- Matthews, Jamie C. (2014), Associate Lecturer, M.S., Kent State University, 2004
- McDaniel, John (2011), Professor, Ph.D., University of Utah, 2009
- Miracle, Amy L. (2012), Associate Professor, Ph.D., University of Nevada-Las Vegas, 2013
- O'Flannigan, Cara M. (2016), Associate Lecturer, M.A., Case Western Reserve University, 2007
- Peer, Kimberly S. (1999), Professor, Ed.D., University of Akron, 2001
- Ridgel, Angela L. (2008), Professor, Sc.D., Marshall University, 2000
- Roche, Jennifer M. (2014), Associate Professor, Ph.D., University of Memphis, 2011
- Visker, Jennifer N. (2016), Associate Lecturer, M.A., Case Western Reserve University, 2001
- Wagner, Laurie M. (1997), Associate Professor, Ph.D., Kent State University, 2008

Athletic Training (ATTR)

ATTR 15003 CAREERS IN HEALTH AND MEDICAL SCIENCES 2 Credit Hours

(Cross-listed with EXSC 15003 and IHS 15003) An overview of the profession of healthcare and medical professional associated including employment opportunities, academic preparation and clinical preparation. This course will address the qualities and skills required for a comprehensive list of professional opportunities in the healthcare and medical fields with an emphasis on professionalism, cultural competencies, ethics and self care. Students will be required to work with faculty and health care and medical professionals to outline a personalized program to assist in their professional development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ATTR 15012 DOCUMENTATION IN HEALTH CARE 2 Credit Hours

Addresses clinical writing skills associated with documentation in health care. Addresses the legal, ethical, and practical needs for proper documentation in health care. Focus is on reading, writing and interpreting various forms of medical documentation including but not limited to SOAP notes, progress notes, treatment notes, clinical record keeping, and facility records. Electronic medical record techniques and other clinical record methods will be addressed.
Prerequisite: Sports medicine major or sports medicine: administration minor or sports medicine: general medical and emergency care or sports medicine: orthopedic patient care minor.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ATTR 20001 SOCIOCULTURAL ASPECTS OF HEALTH CARE 3 Credit Hours

Advanced examination of the sociocultural aspects of healthcare careers. Specific emphasis will be placed of the recognition of diverse patient populations and effectively addressing their unique needs. Cultural competence will be the focus of of the course and will address various aspects of sociocultural diversity; including but not limited to racial, ethnic, religious, socioeconomic, regional beliefs, and alternative approaches to healthcare.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 25036 RESPONDING TO EMERGENCIES 3 Credit Hours

Principles of emergency care including prevention, management, and administrative aspects associated with injury and trauma. Practical competency in emergency care and first aid; American Red Cross Professional Rescuer Certification for CPR and AED.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lab, 2 other
Grade Mode: Standard Letter

ATTR 25037 PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE 3 Credit Hours
Anatomical, clinical assessment and kinesiology related to injuries and illnesses common in athletic training and sports medicine. Emphasis on orthopedic assessment and kinesiology concepts of the Lower extremity and spine.
Prerequisite: ATTR 25036; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 25038 PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE UPPER EXTREMITY, HEAD AND NECK 3 Credit Hours
Anatomical, clinical assessment and kinesiology realted to injuries and illnesses common in athletic training and sports medicine. Emphasis on orthopedic assessment and kinesiology concepts of the Upper Extremity, Health and neck.
Prerequisite: ATTR 25036 and ATTR 25037; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours
(Cross-listed with EXSC 25057) Comprehensive examination of anatomy and physiology related to the organization of the body and basic cell and tissue types. Specific structure and function of the muscular, skeletal, integumentary and nervous systems are addressed.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

ATTR 25058 HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 4 Credit Hours
(Cross-listed with EXSC 25058) Comprehensive examination of anatomy and physiology related to the human body under rest and exercise conditions. Specific structure and function of the metabolic, endocrine, lymphatic, digestive, urinary and reproductive systems are addressed. Advanced coverage of neurological, cardiovascular and respiratory systems are also addressed.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

ATTR 35037 ADVANCED PHYSICAL ASSESSMENT TECHNIQUES 3 Credit Hours
Anatomical, medical and clinical assessment techniques for injuries and illnesses common to the physically active. Emphasis on neurological and non-orthopedic assessment strategies for proper referral and care.
Prerequisite: ATTR 25037; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 35040 STRENGTH AND CONDITIONING 2 Credit Hours
Demonstrate didactic understanding and clinical application of energy systems, anatomy and proper techniques for strength and conditioning exercises for practical applications with athletes.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and athletic training or exercise science, or physical education and sport performance or sports medicine majors or sports medicine: administration or sports medicine: general medical and emergency care or sports medicine: orthopedic patient care minors.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 35045 EMERGENCY MEDICAL TECHNICIAN-BASIC 5 Credit Hours
Preparing for Emergency Medical Technician certification including patient assessment, airway and cardiac management, trauma management, medical patient management and clinical experience. Prepares students to challenge the National Registry Examination for the State of Ohio for EMT-Basic. Clinical hours are required for this course through Hudson EMS.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 6 lab
Grade Mode: Standard Letter

ATTR 35050 NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours
Advanced cognitive content in the areas of normal and pathological function of the nervous system and its components. Specific emphasis on the neurophysiological basis for motor learning, special senses, and memory serves to address the central and peripheral nervous system structure and function. Growth and Development and pathological responses to hypoxia, microbiologic agents, genetic derangements, nutritional deficiencies, chemicals, drugs and aging are addressed.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 35054 BIOMECHANICS 3 Credit Hours
(Cross-listed with EXSC 35054) Anatomical and mechanical bases of human movement. Emphasis is placed on tools and techniques for motion analysis, mechanical concepts, forces and performance analysis. Lecture and laboratory.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 35062 EVIDENCE-BASED RESEARCH IN HEALTH CARE 3 Credit Hours
An examination of evidence-based practice and evidence-based research in health care. The focus of the course will include understanding literature, research questions, methods of research, and how evidence-based research and evidence-based practice play a vital role in the delivery or modern day healthcare. Emphasis will be placed upon the process of evidence-based research, utilizing the outcomes of evidence-based research and the utilization of outcomes assessment in healthcare.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 43018 ETHICAL LEADERSHIP FOR HEALTH CARE (WIC) 3 Credit Hours
(Slashed with ATTR 53018) Examination of specific situations in healthcare from an ethical sensitivity, reasoning and decision making perspective. A problem-oriented case study approach based on contemporary moral issues and moral theory related to clinical and academic health professions. An examination and assessment of leadership styles and methods as they pertain to healthcare and healthcare administration.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ATTR 45019 PROFESSIONAL RESPONSIBILITY AND MANAGEMENT IN HEALTH CARE 3 Credit Hours
An investigation of the issues affecting the entry level healthcare providers. Professional development issues and career advancement are included. Investigation into current philosophies and legal aspects of healthcare management. Organization and administrative concepts and models will focus on the advancement of patient based healthcare.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 45040 PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS 3 Credit Hours
(Slashed with ATTR 55040) Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatment and physiologic effects for various afflictions.
Prerequisite: ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 45041 ADVANCED THERAPEUTIC INTERVENTIONS 3 Credit Hours
Addresses the physiological considerations of specific injuries and conditions commonly encountered in the athletic training profession. Focus is on contemporary rehabilitative programming for all of the major body regions. Specific units on Aquatic therapy and rehabilitation, Neurological considerations for rehabilitation, Return to Running Considerations, and Return to Throwing protocols are included.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020; and ATTR 35054 and ATTR 45039.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 1 lab
Grade Mode: Standard Letter

ATTR 45091 SENIOR SEMINAR IN ATHLETIC TRAINING 1 Credit Hour
(Repeatable for credit) Contemporary issues related to preparing students for entry-level careers in the athletic training profession including development of the foundational behaviors of professional practice. Specific emphasis on employment preparation or graduate school preparation.
Prerequisite: Athletic Training major; and senior standing.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ATTR 45492 INTER-PROFESSIONAL INTERNSHIP IN SPORTS MEDICINE (ELR) 3 Credit Hours
(Repeatable for credit) Inter-professional internship experience in a sports medicine discipline. An internship experience in a sports medicine facility focusing on inter-professional dynamics and aspects of the discipline. A comprehensive clinical experience will be supported by engagement in the inter-professional environment through projects and professional development experiences. Integration of professionalism, professional development, and transition to practice in a sports medicine discipline drives this internship.
Prerequisite: Sports medicine major; and senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ATTR 53018 ETHICAL LEADERSHIP FOR HEALTH CARE 3 Credit Hours
(Slashed with ATTR 43018) Examination of specific situations in healthcare from an ethical sensitivity, reasoning and decision making perspective. A problem-oriented case study approach based on contemporary moral issues and moral theory related to clinical and academic health professions. An examination and assessment of leadership styles and methods as they pertain to health care and health care administration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 55038 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING 3 Credit Hours
(Slashed with ATTR 45038) Investigation into current philosophies and legal aspects of athletic training. Organization and administration of all aspects of athletic training programs.
Prerequisite: ATTR 25036; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 55039 THERAPEUTIC REHABILITATION 3 Credit Hours
(Slashed with ATTR 45039) The study and clinical application of rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration and guidelines for program progression.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 55040 PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS 3 Credit Hours
Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatments and physiologic effects for various afflictions.
Prerequisite: ATTR 25058 or EXSC 25058.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 60000 CADAVER ANATOMY AND APPLIED ASSESSMENT 6 Credit Hours
Cadaver dissection with emphasis on the systems of the body to understand structure and function of the anatomical structures. Applied assessment components integrate functional assessment and diagnostic signs and symptoms of common athletic training conditions and injuries. Evidence-based assessment will be infused throughout the course.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 6 lab
Grade Mode: Standard Letter

ATTR 61000 ACUTE INJURY DIAGNOSIS, TREATMENT AND MANAGEMENT 3 Credit Hours
Mechanisms of acute injuries will provide the foundation for the integration of evidence-based knowledge in the diagnosis, treatment and management of athletic training injuries. Contemporary clinical guidelines and management strategies will provide a framework for critical thinking and practical application.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 62010 CONTEMPORARY ISSUES AND EXAM PREP IN ATHLETIC TRAINING 3 Credit Hours
The purpose of this course is to prepare student to successfully transition to practice through rigorous investigation of contemporary issue in athletic training. Understanding the dynamic issues facing the profession will better prepare students for the challenges facing the profession and how to function effectively in the healthcare environment as an athletic trainer. Passing the Board of Certification (BOC) examination is the threshold for entry level practice into the profession. This course will provide exam taking strategies, ACES programming, and post workshop self directed strategies to position the students to successfully challenge the BOC examination upon graduation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 62012 EDUCATION AND SUPERVISION PROCESSES IN ATHLETIC TRAINING 3 Credit Hours
A comprehensive examination of educational learning theories, curriculum design, evaluation and supervision strategies in athletic training education programs from didactic and clinical perspectives. Additional applications for continuing education programs will be included.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 62014 ADVANCED CLINICAL PROCEDURES IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours
Advanced clinical practice theory and skills as they relate to the profession of athletic training and sports medicine. Emphasis on contemporary clinical practice issues for a variety of athletic training and sports medicine professional settings.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 62015 ORTHOPEDIC ASSESSMENT FOR THE ATHLETIC TRAINER 3 Credit Hours
This course will provide a holistic approach to evidence based practice (EBP) information regarding the role of the athletic trainer in performing orthopedic examinations. This course builds upon the anatomic and injury pathology information in previous courses and broadens students knowledge and skill set regarding diagnostic skills and tools necessary to develop a more effective and efficient differential diagnosis of common and uncommon orthopedic injuries that fall within the scope of practice for an Athletic Trainer.
Prerequisite: Athletic Training major; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 62016 CLINICAL INQUIRY IN ATHLETIC TRAINING 3 Credit Hours
Principles of athletic training research methodologies with a focus on clinical athletic training research. Completion of a clinical research project will be required in this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 63091 RESEARCH SEMINAR 1 Credit Hour
(Slashed with ATTR 73091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

ATTR 63094 COLLEGE TEACHING IN HEALTH SCIENCES 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Guided teaching experiences in the Health Sciences. Specific emphasis on establishing and implementing a teaching philosophy in an instructional setting in the Health Sciences. Development of Professional Teaching Behaviors will be addressed. A comprehensive teaching experience rooted in contemporary teaching literature will guide this course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Seminar
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter

ATTR 63096 INDIVIDUAL INVESTIGATION IN ATHLETIC TRAINING 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and School director required prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

ATTR 63098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

ATTR 63193 VARIABLE TITLE WORKSHOP IN ATHLETIC TRAINING 1-3 Credit Hours
(Repeatable for credit) Workshop in athletic training; topics vary. Maximum 4 hours applied to the degree.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ATTR 63195 SPECIAL TOPICS IN ATHLETIC TRAINING 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Selected and varied topics of relevance in athletic training.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ATTR 63199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ATTR 63299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ATTR 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ATTR 65001 CLINICAL PRACTICE I: PREVENTION AND WELLNESS 3 Credit Hours
Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to prevention of injuries and medical conditions and overall wellness will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Students must complete a minimum of 180 hours in clinicals.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter

ATTR 65002 CLINICAL PRACTICE II: ADVANCED HEAD, NECK AND ORTHOPEDIC 3 Credit Hours
Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to Head, Neck, and Orthopedic conditions and overall wellness will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hours in clinicals.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter

ATTR 65003 CLINICAL PRACTICE III: GENERAL MEDICAL 3 Credit Hours
Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to general medical conditions will be the primary focus. Engagement in an inter-professional environment including rotations with physicians and-or nurse practitioners with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hour in clinicals.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter

ATTR 65004 BIOMECHANICS 3 Credit Hours
(Cross-listed with EXPH 75004) Survey of biomechanics, with particular emphasis on skeletal muscle mechanics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 65005 CLINICAL PRACTICE IV: ADVANCED COMPETENCIES 3 Credit Hours
Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to advanced competencies and skills in athletic training will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hours in clinicals.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter

ATTR 65036 GENERAL MEDICAL CONDITIONS IN ATHLETIC TRAINING 3 Credit Hours
The purpose of this course is to provide a holistic approach to evidence based practice (EBP) information regarding the role of the athletic trainer in the initial assessment and referral of common general medical conditions that fall within the scope of practice for athletic training. The course provides an overview of pathology, etiology, signs and symptoms, diagnosis and treatments that follow established national and international professional standards of care. This course will include, but is not limited to dermatologic, respiratory, cardiovascular, endocrine, urogenital, neurological, musculoskeletal and digestive general medical conditions.
Prerequisite: Athletic Training major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 65037 PHYSICAL AGENTS IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours
The study and practical application of physical modalities including physical principles, physiologic effects, indications-contradictions, and standard application procedures. Safety and legal issues of modality usage are also addressed.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 65038 ADMINISTRATION CONCEPTS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours
Investigation into current philosophies and legal aspects of athletic training and sports medicine programs. Organization and administration of all aspects of athletic training and sports medicine programs with specific emphasis on policy and regulation of programs anchored in contemporary healthcare practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 65039 PHYSICAL REHABILITATION IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours
The study and clinical application of evidence based rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration, and guidelines for program progression. This course will address the comprehensive concepts related to the rehabilitation of including but not limited to modality selection, pharmacological considerations, record keeping, program design and implementation, and safety aspects. The psychology of rehabilitation including goal setting and motivation will also be addressed. Current literature and techniques in the field will support the content of this course.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ATTR 65040 PATHOPHARMACOLOGY FOR HEALTHCARE PROVIDERS 3 Credit Hours
Advanced investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatment and physiologic effects for various afflictions anchored in evidence-based practice in health care.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 65050 NEUROLOGICAL CONCEPTS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours
Advanced cognitive content in normal and pathological function of the nervous system and its components. Specific emphasis on the neurophysiological basis for motor learning, special senses, and memory serves to address the central and peripheral nervous system structure and function. Growth and Development and pathological responses to hypoxia, microbiologic agents, genetic derangements, nutritional deficiencies, chemicals, drugs and aging are addressed. Evidence-based practice concepts will guide the integration from anatomy and physiology to effective interventions for selected neurological conditions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 69999 CLINICAL CAPSTONE IN ATHLETIC TRAINING 6 Credit Hours
Clinical Capstone is an intensive, immersion experience in the clinical setting under the direct supervision of a certified, licensed health care professional. Students will invest a minimum of 360 in the clinical setting working with inter-professional health care providers. Clinical capstone expectations include performance evaluations by supervisors and patient management to promote active clinical engagement and critical thinking. A portfolio will include professional skill assessments, performance assessment, case studies, mock interview, and formal evidence-based presentation to health care providers on an athletic training domain.
Prerequisite: Athletic Training major within the Master of Science degree; and graduate standing.
Schedule Type: Clinical Laboratory
Contact Hours: 24 other
Grade Mode: Standard Letter

ATTR 73091 RESEARCH SEMINAR 1 Credit Hour
(Slashed with ATTR 63091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

ATTR 75001 EVIDENCE BASED INTERVENTIONS IN ATHLETIC TRAINING 3 Credit Hours
This course will examine the use of Evidence Based Interventions (EBI) in Athletic Training Education. This course will examine the implementation of EBI constructs across the curriculum and program. Specific emphasis on designing and implementing EBI into didactic and clinical experiences in Athletic Training. Implementation of EBI into the development, implementation and dissemination of research will also be addressed. Through an extensive examination of the critical literature, students will gain an understanding of how to broadly integrate EBI constructs in their professional practice.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 75002 ACADEMIC AND ADMINISTRATIVE LEADERSHIP IN ATHLETIC TRAINING 3 Credit Hours
This course will address the key academic leadership constructs needed to navigate the higher education culture as a faculty and/or clinical faculty member. Human resources, politics, administrative processes and organizational factors related to successful higher education and clinical leadership will be the focus. Leadership and advocacy strategies for professional organizations will also be developed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 75003 CONTINUOUS QUALITY IMPROVEMENT AND ASSESSMENT IN ATHLETIC TRAINING 3 Credit Hours
The focus of the course includes the fundamental constructs associated with quality improvement through an academic program in athletic training. The development of inter-professional practice, engaging curriculum, creation of educational and administrative policy, and leading change within Athletic Training organizations. The course will assist students in developing action plans for their organization pertaining to organizational improvement.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ATTR 75004 TEACHING AND CLINICAL EDUCATION LEADERSHIP IN ATHLETIC TRAINING 3 Credit Hours
This course focuses on the comprehensive and integrated elements in athletic training education. An in-depth analysis of curriculum design and implementation, didactic and clinical education, program assessments, and accreditation policies and standards will be addressed. A framework rooted in the context of inter-professional education promote organizational and programmatic improvements related dynamic trends in HC education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Exercise Physiology (EXPH)

EXPH 50612 EXERCISE LEADERSHIP FOR THE OLDER ADULT 3 Credit Hours
(Cross-listed with EXSC 40612) Designed to provide the students with a knowledge base in exercise leadership in the senior population and includes special populations. Students participate in the leading supervision and evaluation of the participant within the exercise program. They also assist in the collection of functional fitness data.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 53093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE AND EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with EXSC 43093) Workshop in exercise science or physiology, topics vary.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

EXPH 55040 ADVANCED STRENGTH AND CONDITIONING 3 Credit Hours
(Slashed with EXSC 45040) Advanced principles in strength and conditioning. Learn and understand the energy systems, anatomy, physiology and proper lifting technique of strength, speed, agility and conditioning exercises for practical application with athletes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 55065 EXERCISE TESTING 3 Credit Hours
(Cross-listed with EXSC 45065) Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 55070 ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST 3 Credit Hours
(Cross-listed with EXSC 45070) Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 55081 ADVANCED PHYSIOLOGY OF EXERCISE 3 Credit Hours
(Slashed with EXSC 45081) This course is designed to provide an augmented understanding of acute and chronic responses to exercise. Focus is placed on understanding the physiological responses at both the systems and the cellular levels. Emphasis is placed on muscle bioenergetics, environmental physiology, ergogenic aids, sex differences, extreme sports, children and adolescents in sport and exercise and a greater understanding of muscle and cardiorespiratory responses to exercise.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 60610 PHYSIOLOGY OF AGING: IMPLICATIONS FOR HUMAN BEHAVIOR 3 Credit Hours
(Cross-listed with EXPH 70610) Examine physiological changes which accompany advancing age. Special attention is paid to the effect of these changes on sensory motor and cognitive behavior.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 63050 RESEARCH PROCESS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours
(Slashed with EXPH 73050) The research process and statistical concepts applied to those in athletic training and exercise physiology.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 63051 QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours
(Slashed with EXPH 73051) Research design and statistical methods applied to exercise, physiology and athletic training.
Prerequisite: EXPH 63050; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 63091 RESEARCH SEMINAR 1 Credit Hour
(Repeatable for credit) (Slashed with EXPH 73091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

EXPH 63096 INDIVIDUAL INVESTIGATION IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 73096) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

EXPH 63098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

EXPH 63193 VARIABLE TITLE WORKSHOP IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for credit) Workshop in exercise physiology; topics vary. Maximum 4 hours applied to the degree.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

EXPH 63195 SPECIAL TOPICS IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with EXPH 73195) Selected and varied topics of relevance in exercise physiology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EXPH 63199 THESIS I 2-6 Credit Hours
(Repeatable for credit)Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 63299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: EXPH 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 65075 MUSCLE FUNCTION AND EXERCISE 3 Credit Hours
(Slashed with EXPH 75075) Characteristics of skeletal muscle related to contraction during exercise, strength, elasticity, fatigue, and training. Electromyograph analysis of muscle function emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 65076 ENVIRONMENTAL STRESS AND EXERCISE 3 Credit Hours
(Slashed with EXPH 75076) Effects of heat, cold, pressure, pollution and psychological stress upon physiological responses to exercise. Lecture and laboratory.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65080 PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT 3 Credit Hours
(Slashed with EXPH 75080) Application of physiological concepts to human performance. Includes role of testing, training strength and endurance, nutritional considerations, environmental influences and, adapted exercise programs.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65081 ENERGY METABOLISM AND BODY COMPOSITION 3 Credit Hours
(Slashed with EXPH 75081) Measurement of metabolic response to exercise. Topics include ergometry spirometry energy expenditure body composition and performance correlates of strength power and endurance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 65082 CARDIO-RESPIRATORY FUNCTION 3 Credit Hours
(Slashed with EXPH 75082) Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 65083 EXERCISE ENERGY METABOLISM 3 Credit Hours
(Slashed with EXPH 75083) Energy transformations during exercise. Emphasis on controlling mechanisms that regulate the anabolic and catabolic responses to both acute and chronic exercise.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65084 CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE 3 Credit Hours
(Slashed with EXPH 75084) Responses of the cardiovascular and respiratory systems to exercise. Use of noninvasive methods to measure cardio-respiratory function emphasized. Lecture and laboratory.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65086 NEUROBIOLOGY OF MOVEMENT AND EXERCISE 3 Credit Hours
(Slashed with EXPH 75086) Provide students with knowledge to understand the role of the muscular and nervous systems in human movement and exercise. Motor disorders and rehabilitation techniques will also be discussed. Lecture and laboratory.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 65192 INTERNSHIP IN EXERCISE PHYSIOLOGY 1-9 Credit Hours
(Repeatable for a maximum of 9 credit hours) Field experience in exercise physiology programs and testing in Kent State University adult fitness program or cooperating agencies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 70610 PHYSIOLOGY OF AGING:IMPLICATIONS FOR HUMAN BEHAVIOR 3 Credit Hours
(Slashed with EXPH 60610) Examine physiological changes which accompany advancing age. Special attention is paid to the effect of these changes on sensory motor and cognitive behavior.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 73050 RESEARCH PROCESSES IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours
(Slashed with EXPH 63050) The research process and statistical concepts applied to athletic training and exercise physiology.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 73051 QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours
(Slashed with EXPH 63051) Research design and statistical methods applied to exercise physiology and athletic training.
Prerequisite: EXPH 73050; and doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 73091 RESEARCH SEMINAR 1 Credit Hour
(Repeatable for credit) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

EXPH 73096 INDIVIDUAL INVESTIGATION IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 63096) Independent student completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

EXPH 73195 SPECIAL TOPICS IN EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 63195) Selected and varied topics of relevance in exercise physiology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EXPH 75004 BIOMECHANICS 3 Credit Hours
(Cross-listed with ATTR 65004) Survey of biomechanics, with particular emphasis on skeletal muscle mechanics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 75075 MUSCLE FUNCTION AND EXERCISE 3 Credit Hours
(Slashed with EXPH 65075) Characteristics of skeletal muscle related to contraction during exercise, strength, elasticity, fatigue and training. Electromyograph analysis of muscle function emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 75076 ENVIRONMENTAL STRESS AND EXERCISE 3 Credit Hours
(Slashed with EXPH 65076) Effects of heat, cold, pressure, pollution and psychological stress upon physiological responses to exercise. Lecture and laboratory.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75080 PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT 3 Credit Hours
(Slashed with EXPH 65080) Application of physiological concepts to human performance. Includes role of testing, training, strength and endurance, nutritional considerations, environmental influences, and adapted exercise programs.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75081 ENERGY METABOLISM AND BODY COMPOSITION 3 Credit Hours
(Slashed with EXPH 65081) Measurement of metabolic response to exercise. Topics include ergometry, spirometry, energy expenditure, body composition and performance correlates of strength, power and endurance.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 75082 CARDIO-RESPIRATORY FUNCTION 3 Credit Hours
(Cross-listed with EXPH 65082) Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXPH 75083 EXERCISE ENERGY METABOLISM 3 Credit Hours
(Slashed with EXPH 65083) Energy transformations during exercise. Emphasis on controlling mechanisms that regulate the anabolic and catabolic responses to both acute and chronic exercise.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75084 CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE 3 Credit Hours
(Slashed with EXPH 65084) Responses of the cardiovascular and respiratory systems to exercise. Use of noninvasive methods to measure cardio-respiratory function emphasized. Lecture and laboratory.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75086 NEUROBIOLOGY OF EXERCISE AND MOVEMENT 3 Credit Hours
(Slashed with EXPH 65086) Provides students with knowledge to understand the role of the muscular and nervous systems in human movement and exercise. Motor disorders and rehabilitation techniques will also be discussed. Lecture and laboratory.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXPH 75192 INTERNSHIP IN EXERCISE PHYSIOLOGY 1-9 Credit Hours
(Repeatable for a maximum of 9 credit hours) Field experience in exercise physiology programs and testing in Kent State University adult fitness program or cooperating agencies.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 83098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for doctoral students.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

EXPH 83199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EXPH 83299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: EXPH 83199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Exercise Science (EXSC)

EXSC 15003 CAREERS IN HEALTH AND MEDICAL SCIENCES 2 Credit Hours
(Cross-listed with ATTR 15003 and IHS 15003) An overview of the profession of Healthcare and Medical Professional associated including employment opportunities, academic preparation, and clinical preparation. This course will address the qualities and skills required for a comprehensive list of professional opportunities in the healthcare and medical fields with an emphasis on professionalism, cultural competencies, ethics and self care. Students will be required to work with faculty and health care and medical professionals to outline a personalized program to assist in their professional development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EXSC 23093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE 1-3 Credit Hours
(Repeatable for credit) Workshop to develop mastery and application of knowledge and skills that address issues in exercise science; topics vary. Satisfactory/unsatisfactory (S/U) graded.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

EXSC 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours
(Cross-listed with ATTR 25057) Comprehensive examination of anatomy and physiology related to the organization of the body and basic cell and tissue types. Specific structure and function of the muscular, skeletal, integumentary, and nervous systems are addressed.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

EXSC 25058 HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 4 Credit Hours
(Cross-listed with ATTR 25058) Comprehensive examination of anatomy and physiology related to the human body under rest and exercise conditions. Specific structure and function of the metabolic, endocrine, lymphatic, digestive, urinary and reproductive systems are addressed. Advanced coverage of neurological, cardiovascular and respiratory systems are also addressed.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, Kent Core Basic Sciences Lab

EXSC 34000 EXERCISE SCIENCE FOR ESPORTS 3 Credit Hours
This course examines topics within the field of exercise science and relates them to esports performance. Topics will include physical activity, sedentary behavior, mental and physical health and exercise physiology. By relating these topics to esports, students will gain an understanding of what may enhance and also diminish esport performance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXSC 35040 PRACTICAL AND APPLIED CONCEPTS OF STRENGTH AND CONDITIONING 3 Credit Hours
(Equivalent to ATTR 35040) This course will discuss the practical and applied concepts related to strength and conditioning. Specifically, the course will focus on how to improve muscle strength, power, speed, agility, endurance, stamina, stability and muscle hypertrophy. Emphasis will be placed on the ability to create and administer safe and effective periodized training programs while ensuring safe and effective techniques fundamental to improvements in athletic performance.
Prerequisite: ATTR 25057 (and ATTR 25058) or BSCI 10020 (and BSCI 11010) or BSCI 21010 or BSCI 21020 or EXSC 25057 (and EXSC 25058).
Corequisite: ATTR 35054 (or EXSC 35054) and ATTR 35080 (or EXSC 35080).
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 35054 BIOMECHANICS 3 Credit Hours
(Cross-listed with ATTR 35054) Anatomical and mechanical bases of human movement. Emphasis is placed on tools and techniques for motion analysis, mechanical concepts, forces and performance analysis. Lecture and laboratory.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 35068 STATISTICS FOR THE EXERCISE SCIENTIST 3 Credit Hours
Measurement and statistics applied to physical education and exercise/sport sciences; laboratory experiences in statistics test construction and administration and evaluation.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 35075 EXERCISE PROGRAMMING 3 Credit Hours
Problems and issues in developing exercise programs in institutional and commercial settings.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 35080 PHYSIOLOGY OF EXERCISE 4 Credit Hours
Response of the human to acute and chronic exercise with emphasis on the underlying physiological mechanisms.
Prerequisite: ATTR 25057 or BSCI 11010 or BSCI 21010 or EXSC 25057; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 40612 EXERCISE LEADERSHIP FOR THE OLDER ADULT 3 Credit Hours
(Cross-listed with EXPH 50612) Designed to provide students with a knowledge base in exercise leadership in the older adult population, including special populations. Students participate in the leading, supervision and evaluation of participants within the exercise program. The also assist in the collection of functional fitness data.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EXSC 43093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE AND EXERCISE PHYSIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with EXPH 53093) Workshop in exercise science or physiology, topics vary.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 lecture
Grade Mode: Satisfactory/Unsatisfactory

EXSC 43098 RESEARCH IN EXERCISE SCIENCE (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Research project completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EXSC 45022 EXERCISE LEADERSHIP 2 Credit Hours
Designed to provide the students with the knowledge base in exercise leadership. Topic areas and competencies using a variety of techniques in leading and demonstrating safe and effective methods of applying the fundamental principles of exercise science. The exercise leader will demonstrate all forms of group exercise, flexibility and balance training. The final exam is the American College of Sports Medicine Certified Exercise Physiologist certification (ACSM-EP). To take this certification requires that you be in the last semester of your senior year.
Prerequisite: ATTR 25057 or BSCI 11010 or BSCI 21010 or EXSC 25057; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058; and EXSC 35080; and senior standing.
Pre/corequisite: EXSC 45081.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EXSC 45023 PROFESSIONAL CERTIFICATE PREPARATION 2 Credit Hours
This course is designed to prepare students to take the the National Strength and Conditioning Association Certified Strength and Conditioning Specialist (NSCA CSCS). Material covered will include basic exercise science, training adaptations, and methods of resistance-exercise training.
Prerequisite: ATTR 25057 or BSCI 11010 or BSCI 21010 or EXSC 25057; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058; and EXSC 35080; and senior standing.
Pre/corequisite: ATTR 35040 and EXSC 45081.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EXSC 45040 ADVANCED STRENGTH AND CONDITIONING 3 Credit Hours
(Slashed with EXPH 55040) Advanced principles in strength and conditioning. Learn and understand the energy systems, anatomy, physiology and proper lifting technique of strength, speed, agility and conditioning exercises for practical application with athletes.
Prerequisite: ATTR 25057 or BSCI 11010 or BSCI 21010 or EXSC 25057; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058; and ATTR 21020; and EXSC 35040; and EXSC 35080.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXSC 45065 EXERCISE TESTING 3 Credit Hours
(Cross-listed with EXPH 55065) Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Exercise Science

EXSC 45070 ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST 3 Credit Hours
(Cross-listed with EXPH 55070) Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist.
Prerequisite: ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EXSC 45081 ADVANCED PHYSIOLOGY OF EXERCISE (WIC) 3 Credit Hours
(Slashed with EXPH 45081) This course is designed to provide an augmented understanding of acute and chronic responses to exercise. Focus is placed on understanding the physiological responses at both the systems and the cellular levels. Emphasis is placed on muscle bioenergetics, environmental physiology, ergogenic aids, sex differences, extreme sports, children and adolescents in sport and exercise and a greater understanding of muscle and cardiorespiratory responses to exercise.
Prerequisite: ATTR 25057 (and ATTR 25058) or BSCI 11010 (and BSCI 11020) or BSCI 21010 or BSCI 21020 or EXSC 25057 (and EXSC 25058); and EXSC 35080.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

EXSC 45096 INDIVIDUAL INVESTIGATION IN EXERCISE SCIENCE (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EXSC 45480 INTERNSHIP SEMINAR IN EXERCISE SCIENCE 1 Credit Hour
Overview of the internship possibilities that are available for the exercise science major. The American College of Sports Medicine (ACSM) certification workshops and the scope of the practice for the exercises specialist is discussed in detail.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

EXSC 45481 SEMINAR IN EXERCISE PHYSIOLOGY 1 Credit Hour
Provides an overview of the research possibilities and the internship possibilities that are available for the exercise science major. The Institutional Review Board, research methodology and the risks and benefits of research in the area of exercise science are discussed in detail. Also covers The American College of Sports Medicine (ACSM) certification workshops and the scope of the practice for the exercises specialist.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

EXSC 45492 INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR) 1-9 Credit Hours
(Repeatable for a maximum of 9 credit hours) Supervised experience providing practical experience in administration and operation of programs in physical fitness, health enhancement and or cardiac rehabilitation. 45 clock hours per credit hour.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

EXSC 46095 SPECIAL TOPICS IN EXERCISE SCIENCE 1-3 Credit Hours
(Repeatable for credit) Selected topics in exercise science dependent upon interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

Health Education (HED)

HED 11570 PERSONAL HEALTH 3 Credit Hours
This course examines the leading causes of death and disability in the United States with an emphasis on the application of knowledge and skills to reduce risk and enhance the quality of life.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 11590 COMMUNITY HEALTH EDUCATION 3 Credit Hours
Identification of community health problems and measures for control. Emphasizes principles, objectives and methods of community health education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 13510 WINNING COMBINATION:HEALTH AND ATHLETES 1 Credit Hour
An exploration of strategies for promoting healthy lifestyles for athletes. The course is reserved for varsity athletes.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

HED 14020 MEDICAL TERMINOLOGY 3 Credit Hours
Identification of the meaning of various roots and terms and combining forms that are components of medical words, including anatomical physiological and pathological therapeutic terminology and implications for health literacy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Medical Terminology, TAG Health

HED 21030 INTRODUCTION TO HEALTH EDUCATION 3 Credit Hours
This course introduces the student to the health education profession. Roles and responsibilities of health educators in a variety of occupational settings are described.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 21050 HEALTH EDUCATION THEORIES 3 Credit Hours
Application of various attitude and behavior models to health and illness behavior in order to develop a framework for educational intervention.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 30000 TEACHING HEALTH TO YOUNG LEARNERS 3 Credit Hours
Investigate current health issues relevant to children in primary grades, and identify educational strategies to increase student health knowledge, foster positive health attitudes and promote healthy behaviors.
Prerequisite: None.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 1.5 other
Grade Mode: Standard Letter

HED 32530 DRUG USE AND MISUSE 3 Credit Hours
Introduction to the study of drug/alcohol abuse. Basic pharmacology of drug actions is reviewed. Common myths misconceptions about drug alcohol use are examined. Current drug problems and related prevention treatment issues are analyzed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 32542 METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC) 5 Credit Hours
Analysis observation, demonstration and experience in the teaching-learning process utilizing methods, materials and resources appropriate to the preparation of professional health educators. This course includes 50 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: HED 11570.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HED 32544 HUMAN SEXUALITY 3 Credit Hours
A study of the role and meaning of human sexuality throughout the life cycle for self and society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 32565 MARKETING IN HEALTH EDUCATION 3 Credit Hours
Examines the basic elements of marketing processes as they relate to promoting health in communities. Emphasis on application of marketing planning, concepts and practices for service providers involved with health education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 32575 CONSUMER HEALTH 3 Credit Hours
An overview of the health marketplace including health products, services, financing, promotional practices and consumer protection laws.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 34050 PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION 3 Credit Hours
Provides students with the knowledge and skills to assess health resources and needs, develop health programs to meet specific needs in particular populations and determine appropriate measures to evaluate the effectiveness of health programs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 34060 SMALL GROUP PROCESS 2 Credit Hours
(Cross-listed with CES 37800) Students learn to understand the dynamics of problem solving groups and how to become effective leaders and members. Topics include climate, goals, decision making, communication, leadership, membership. Experience-based learning combined with conceptualizing.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 40093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 50093 and 70093) Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop.
Prerequisite: HED 11590; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HED 42041 HEALTH COACHING 3 Credit Hours
(Slashed with HED 52041) Techniques of health coaching and motivational interviewing applied to health education. Individual and group approaches relative to personal, family and societal health issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 42222 ADULTING 101: SEVEN DIMENSIONS TO A HEALTHY ADULTHOOD 2 Credit Hours
The transition from college to post-college life can be uncertain. A design for the initial post-college years can alleviate the anxiety and stress that are often experienced. This course will examine issues related to a 7 dimensional model of health-financial, environmental, emotional, intellectual, physical, social, occupational-and apply those dimensions to a post-college life design process.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 42392 STUDENT TEACHING IN HEALTH EDUCATION (ELR) 9 Credit Hours
Provides a twelve week student teaching experience. See student teaching section of catalog. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Eligibility for admission to student teaching and admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

HED 42575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS 3 Credit Hours
(Slashed with HED 52575) Focus on health issues/education/ environment policy and practice/community strategies to respond to threats confronting students utilizing a coordinated school/community strategy to promote health to improve academic outcomes. CPR and first aid certification required for completion of course.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 42779 HAPPINESS AND HEALTH 2 Credit Hours
(Slashed with HED 52779) Happiness is a common life goal, yet how to achieve or maintain can be a challenge. The things people think should make them happy don't; and the things that have been proven to increase happiness are often a surprise. In this class, students explore proven methods to increase happiness, confront the common myths and misperceptions around it and discover how happiness is defined by cultures outside the United States. Students also explore how happiness is related to academic performance, immune function, diet, stress, heart disease and life expectancy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 44025 WOMEN'S HEALTH ISSUES 3 Credit Hours
(Slashed with HED 54025) Traditional and feminist analysis of women's health issues and the health educational responses to those issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44030 GAMBLING, GAMING AND HEALTH 3 Credit Hours
(Slashed with HED 54030) This course will provide information related to gambling, gaming, and their convergence to facilitate insight into personal decision-making and health outcomes. Emerging gambling and gaming trends will be investigated along with exploration of attitudes toward these activities that influence personal and community health. There is an emphasis on the application of knowledge and skills to assess and reduce personal risk.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44091 SCHOOL HEALTH EDUCATION VARIABLE CONTENT SEMINAR 1 Credit Hour
(Slashed with HED 54091) This course is designed to provide content for the K-12 health education topics required by the Ohio Department of Education to prepare students seeking school health licensure.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HED 44092 INTERNSHIP IN COMMUNITY HEALTH EDUCATION (ELR) 9 Credit Hours
(Repeatable for credit) Participation for one academic semester in the health education and promotion activities of an approved agency, organization or industry.
Prerequisite: Senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

HED 44095 SPECIAL TOPICS: HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 54095) Selected topics related to public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HED 44096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 54096 and 74096) Independent reading and/or research directed by a HED faculty member.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 44543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS 3 Credit Hours
(Slashed with HED 54543) Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44544 SEXUALITY EDUCATION PROGRAMS 3 Credit Hours
(Slashed with HED 54544) This course prepares students to develop, implement, and evaluate sexuality education programs in school and community settings.
Prerequisite: HED 32544.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 44550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS 3 Credit Hours
(Slashed with HED 54550) Drug abuse and violence prevention from theoretical, philosophical, empirical and practical perspectives. Application of theories to plan, implement, and evaluate drug and violence education programs.
Prerequisite: HED 32530.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 46052 STRESS: RECOGNITION AND MANAGEMENT 2 Credit Hours
(Slashed with HED 56052) An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 46057 ADVANCED HUMAN SEXUALITY 3 Credit Hours
(Slashed with HED 56057) Selected aspects of human sexuality; history, cross-cultural perspectives, medical/surgical conditions and sex therapy and counseling.
Prerequisite: HED 32544.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 47070 AIDS: ISSUES, EDUCATION AND PREVENTION 3 Credit Hours
(Slashed with HED 57070) This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to aids education and prevention issues and strategies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 47091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 57091 and 77091) Public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: Junior or senior standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE 3 Credit Hours
Interdisciplinary inquiry into teaching as a professional practice in health education; emphasis on teacher as disciplined investigator. Utilization of teaching and learning technology.
Prerequisite: School Health Education or Physical Education and Sport Performance majors; and admission to advanced study.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

HED 50093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 40093 and 70093) Discussion of major issues in health and safety education. Content emphasis vary depending on workshop.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HED 52041 HEALTH COACHING 3 Credit Hours
(Slashed with HED 42041) Techniques of health coaching and motivational interviewing applied to health education. Individual and group approaches relative to personal, family and societal health issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 52575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS 3 Credit Hours
(Slashed with HED 42575) Focus on health issues/education/environment policy and practice/community strategies to respond to threats confronting students, utilizing a coordinated school community strategy to promote health and improve academic outcomes. CPR first aid certification required for completion of course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 52779 HAPPINESS AND HEALTH 2 Credit Hours
(Slashed with HED 42779) Happiness is a common life goal, yet how to achieve or maintain can be a challenge. The things people think should make them happy don't; and the things that have been proven to increase happiness are often a surprise. In this class, students explore proven methods to increase happiness, confront the common myths and misperceptions around it and discover how happiness is defined by cultures outside the United States. Students also explore how happiness is related to academic performance, immune function, diet, stress, heart disease and life expectancy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 54025 WOMEN'S HEALTH ISSUES 3 Credit Hours
(Slashed with HED 44025) Traditional and feminist analysis of women's health issues and the health educational responses to those issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54030 GAMBLING, GAMING AND HEALTH 3 Credit Hours
(Slashed with HED 44030) This course will provide information related to gambling, gaming, and their convergence to facilitate insight into personal decision-making and health outcomes. Emerging gambling and gaming trends will be investigated along with exploration of attitudes toward these activities that influence personal and community health. There is an emphasis on the application of knowledge and skills to assess and reduce personal risk.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 44051) The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54091 SCHOOL HEALTH EDUCATION VARIABLE CONTENT SEMINAR 1 Credit Hour
(Slashed with HED 44091) This course is designed to provide content for the K-12 health education topics required by the Ohio Department of Education to prepare students seeking school health licensure.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

HED 54095 SPECIAL TOPICS:HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 44095) Selected topics related to public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HED 54096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 44096 and 74096) Independent reading and/or research directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 54543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS 3 Credit Hours
(Slashed with HED 44543) Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54544 SEXUALITY EDUCATION PROGRAMS 3 Credit Hours
(Slashed with HED 44544) This course prepares students to develop, implement, and evaluate sexuality education programs in school and community settings.
Prerequisite: HED 64063; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 54550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS 3 Credit Hours
(Slashed with HED 44550) Drug abuse and violence prevention from theoretical, philosophical, empirical, and practical perspectives. Application of theories to plan, implement, and evaluate drug and violence education programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 56052 STRESS: RECOGNITION AND MANAGEMENT 2 Credit Hours
(Slashed with HED 46052) An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HED 56057 ADVANCED HUMAN SEXUALITY 3 Credit Hours
(Slashed with HED 46057) Selected aspects of human sexuality: history, cross-cultural perspectives, medical/surgical therapy and counseling.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 57070 AIDS:ISSUES, EDUCATION AND PREVENTION 3 Credit Hours
(Slashed with HED 47070) This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to AIDS education and prevention issues and strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 57091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 47091 and 77091) Public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: HED 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 64030 INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64050 HEALTH BEHAVIOR 3 Credit Hours
(Slashed with HED 84050) Analysis of a broad range of theoretical and empirical models of health and illness behavior.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64055 NEEDS ASSESSMENT AND EVALUATION IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 84055) Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs.
Prerequisite: HED 64050; and HED 64061; and HED 64063; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64057 PROGRAM PLANNING AND IMPLEMENTATION IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 84057) Students will develop, implement, and evaluate a health education and promotion program plan specific to a target audience and health issue.
Prerequisite: HED 64050 and HED 64055 and HED 64061 and HED 64063; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64059 COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 84059) Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion.
Prerequisite: HED 64050 and HED 64061; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64061 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 84061) Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/ leadership, government initiatives, standards of practice and accreditations are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64062 ADMINISTRATION AND GRANT WRITING IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 84062) Basic concepts in the administration of health education promotion programs and grant writing. Coordination of program services, consultative relationships, management of human and fiscal resources, and organizational leadership are addressed as well as grant writing skills.
Prerequisite: HED 64061 and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64063 STRATEGIES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 84063) Health education and promotion methods and strategies are presented to develop programs and lesson plans for a variety of audiences, learning environments, and intervention levels.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64080 ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 84080) Emphasizes the advocacy role of health educators. Includes use of research results to develop, analyze and influence health policy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 64094 COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION 2 Credit Hours
(Repeatable for credit) (Cross-listed with HED 84094) Guided experiences in teaching selected undergraduate courses.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

HED 64096 INDIVIDUAL INVESTIGATION: READINGS IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Slashed with HED 84096) Independent study of approved topics in health and safety education related to the student's special interests. Adviser's permission required to repeat registration one time.
Prerequisite: Health Education or Public Health major; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-S/U

HED 64098 PROJECT IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 84098) Research or individual investigation for master's level graduate students.
Prerequisite: Grading standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 68092 DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION 3 Credit Hours
Develop and implement standards based, culturally sensitive, developmentally appropriate, and ability centered health education unit and lesson plans with K-12 school populations. Students complete ODHE required field experience hours in this course for additional licensure in school health.
Prerequisite: HED 54544 and HED 64063; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

HED 70093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 40093 and 50093) Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HED 74096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 44096 and 54096) Independent reading and/or research directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 77091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 47091 and 57091) Public health issues facing professionals in communities, schools, health care settings and the worksite.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 80292 PRACTICUM IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Repeatable for credit) In this course, students obtain permission to work with an individual faculty member on research, community projects, or other professional activities in various health education settings (school, community, medical care, worksite). Assignments are individualized to meet the needs of the practicum experience.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 81100 RESIDENCY SEMINAR: SYNTHESIS OF LITERATURE IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Exploration of philosophical, theoretical and empirical issues in health education and promotion. Students synthesize courses, research and practice in preparation for comprehensive examinations.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 81150 SEMINAR: PROFESSIONAL DEVELOPMENT IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Focuses on the process, practice and documentation of professional development in health education and promotion in the areas of instruction, program development, research and evaluation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

HED 81200 RESIDENCY SEMINAR: RESEARCH PROPOSAL, DEVELOPMENT AND PRESENTATION 3 Credit Hours
Review of the role of research and scholarly pursuits in the professorate, the professional health education literature, and in the development and dissemination of a range of scholarly products. Identification of requisite elements of a dissertation in health education and promotion. Refinement of a professional vita, updating of doctoral program prospectus, specification of dissertation topic, identification of potential dissertation committee members, development and presentation of draft dissertation proposal.
Prerequisite: Doctoral standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HED 81300 HEALTH EDUCATION PRACTICE 3 Credit Hours
Investigation of various health education settings including analysis of agency programming efforts and comparison to evidence-based practice. Application of community assessment, socioecological model, and community-based participatory research principles. Analysis of how health education theory and research are implemented in various practice settings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 81400 RESEARCH DISSEMINATION AND TECHNICAL WRITING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Examination and practice of technical writing for research proposals, technical reports, and journal publications in health education and promotion. Other methods of disseminating research such as preparation and submission of conference presentation applications and writing as part of consultative relationships with community agencies is explored.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 81450 ADVANCED PROGRAM EVALUATION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
A review of evaluation methods used in health education programs. Emphasis is placed on data collection procedures, linking program activities to outcomes, participant attrition and reporting of the results.
Prerequisite: HED 64055 and HED 64057; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 81550 APPLIED THEORY IN HEALTH EDUCATION RESEARCH AND PRACTICE 3 Credit Hours
Examination of theory/models/hypotheses applied to specific health behaviors. Emphasis on operationalization of theoretical constructs.
Prerequisite: HED 64050 or HED 84050.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84030 INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84050 HEALTH BEHAVIOR 3 Credit Hours
(Slashed with HED 64050) Analysis of a broad range of theoretical and empirical models of health and illness behavior.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84055 NEEDS ASSESSMENT AND EVALUATION IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 64055) Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs.
Prerequisite: HED 64050 or 84050; and HED 64061 or 84061; and HED 64063 or 84063; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84057 PROGRAM PLANNING AND IMPLEMENTATION IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 64057) Students will develop, implement, and evaluate a health education and promotion program plan specific to a target audience and health issue.
Prerequisite: HED 64050 or 84050; and HED 64055 or 84055; and HED 64061 or 84061; and HED 64063 or 84063; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84059 COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 64059) Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion.
Prerequisite: HED 64050 or 84050; and HED 64061 or 84061; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84061 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 64061) Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/ leadership, government initiatives, standards of practice and accreditations are examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84062 ADMINISTRATION AND GRANT WRITING IN HEALTH PROMOTION 3 Credit Hours
(Slashed with HED 64062) Basic concepts in the administration of health education promotion programs and grant writing. Coordination of program services, consultative relationships, management of human and fiscal resources, and organizational leadership are addressed as well as grant writing skills.
Prerequisite: HED 64061 or 84061; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84063 STRATEGIES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 64063) Health education and promotion methods and strategies are presented to develop programs and lesson plans for a variety of audiences, learning environments, and intervention levels.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84066 HEALTH IN THE DEVELOPING NATIONS 3 Credit Hours
Overview of national development, review of problems process and strategy of health development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84080 ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours
(Slashed with HED 64080) Emphasizes the advocacy role of health educators. Includes use of research results to develop analyze and influence health policy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HED 84094 COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION 2 Credit Hours
(Repeatable for credit) (Slashed with HED 64094) Guided experiences in teaching selected undergraduate courses.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

HED 84096 INDIVIDUAL INVESTIGATION: READINGS IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Slashed with HED 64096) Independent study of approved topics in health and safety education related to the student's special interests. Adviser's permission required to repeat registration one time.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-S/U

HED 84098 PROJECT IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HED 64098) Research or individual investigation for doctoral level graduate students.
Prerequisite: Doctoral standing and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HED 88092 DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION 3 Credit Hours
Develop and implement standards based, culturally sensitive, developmentally appropriate, and ability centered health education unit and lesson plans with K-12 school populations. Students complete ODHE required field experience hours in this course for additional licensure in school health.
Prerequisite: HED 54544 and HED 84063; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

Integrated Health Studies (IHS)

IHS 15003 CAREERS IN HEALTH AND MEDICAL SCIENCES 2 Credit Hours
(Cross-listed with ATTR 15003 and EXSC 15003) An overview of the profession of Healthcare and Medical professions including employment opportunities, academic preparation, and clinical preparation. This course will address the qualities and skills required for a comprehensive list of professional opportunities in the healthcare and medical fields with an emphasis on professionalism, cultural competencies, ethics and self care. Students will be required to work with faculty and health care and medical professionals to outline a personalized program to assist in their professional development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

IHS 40091 SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES 2 Credit Hours
(Repeatable for credit) Seminar focuses on applying concepts from previous educational experiences to the practicum work experience.
Prerequisite: ATTR 15003 or EXSC 15003 or IHS 15003.
Corequisite: IHS 44092.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

IHS 44010 RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS 3 Credit Hours
Fundamental concepts and procedures for systematic collection, analysis and interpretation of qualitative and quantitative data in health related fields includes group and single-subject designs and use of parametric and nonparametric statistics.
Prerequisite: PSYC 21621.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IHS 44091 PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC) 3 Credit Hours
(Repeatable for credit)This course presents and integrates the role of scientists, practitioners and administrators in the health care and human service professions as they attempt to meet the needs of the individual in diverse environments. Current issues will be addressed. 400 hours observation/work experience in health/human service-related fields required prior to registration for this course.
Prerequisite: Senior standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

IHS 44092 PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR) 3-10 Credit Hours
(Repeatable for credit) Practicum focuses on providing supervised practical experience in a health science, health care and human services organization which allows students to apply theoretical knowledge and skills learned in their coursework.
Prerequisite: Integrated health studies majors; and senior standing; and special approval.
Corequisite: IHS 40091.
Schedule Type: Practical Experience
Contact Hours: 9-30 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

IHS 44095 SPECIAL TOPICS IN INTEGRATED HEALTH STUDIES 1-3 Credit Hours
(Repeatable for credit) Selected topics in integrated health dependent upon interest.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

IHS 44096 INDIVIDUAL INVESTIGATION IN INTEGRATED HEALTH 1-3 Credit Hours
(Repeatable for credit) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

Nutrition (NUTR)

NUTR 10011 NUTRITIONAL OUTREACH: A HOW-TO FOR LIFE-LONG HEALTHY EATING 1 Credit Hour
Teaches basic nutrition information for healthy eating, including the important nutritional aspects of cooking, shopping, dining and disease prevention related to dietary intake.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 23012 INTRODUCTORY FOOD SCIENCE 3 Credit Hours
(Cross-listed with HEM 23212) Principles of food preparation and quality evaluation, with an emphasis on food science concepts, nutrition, food consumption trends and government regulation.
Prerequisite: NUTR 23511.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

NUTR 23016 WORLD FOOD CUSTOMS AND NUTRITION 3 Credit Hours
The course explores cultural foods of diverse populations and focuses on understanding the interrelationship between food and agricultural practices of racial, ethnic and religious populations within the United States and globally.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 23112 INTRODUCTION TO THE PROFESSION: NUTRITION AND DIETETICS 1 Credit Hour
Discusses academic requirements for the Nutrition major, the history of the nutrition profession as well as current credentialing and licensing requirements. Explores the opportunities within the field of dietetics. Teaches methods to document academic, personal and professional skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 23510 QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY 3 Credit Hours
(Cross-listed with HM 23510) The application of management principles in quantity food production and service systems, including safety and sanitation; production forecasting and management; distribution; and service, commercial equipment and physical facilities. Introduction to inventory, recipe standardization and considerations of nutrition, quality and sustainability in quantity production.
Prerequisite: NUTR 23112.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

NUTR 23511 SCIENCE OF HUMAN NUTRITION (KBS) 3 Credit Hours
Basic concepts and principles in the science of human nutrition, energy balance and weight control, individual nutrient needs, diet selection, nutrition related metabolism and physiological functions, nutritional diseases and current human nutrition controversies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Basic Sciences, TAG Health

NUTR 23520 SPORTS NUTRITION 3 Credit Hours
Teaches basic sports nutrition as well as practical applications of sports nutrition principles for students majoring in various healthcare related fields.
Prerequisite: NUTR 23511.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 33512 INTERMEDIATE NUTRITION SCIENCE 3 Credit Hours
Functions, sources, utilization and interactions of essential nutrients and associated physiology. Principles of designing a healthy diet using dietary standards and guidelines while considering nutrient needs of different populations.
Pre/corequisite: CHEM 20481 or CHEM 30481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 33522 INTRODUCTION TO NUTRITION ASSESSMENT 3 Credit Hours
Application of nutrition principles, including nutrition-focused physical assessment, dietary intake assessment, nutrition surveys, introduction to medical records, nutrition interviewing, dietary standards and food exchange lists.
Prerequisite: NUTR 23511; and nutrition major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

NUTR 33532 BUSINESS AND MANAGEMENT OF NUTRITION SERVICES 3 Credit Hours
Course explores the business management side of dietetics. Covers application of management theories, from dietetic programs and services to budgeting, billing and coding, in addition to quality improvement in dietetics programs and departments.
Prerequisite: NUTR 23511.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 35319 NUTRITION, HEALTH AND SOCIETY 3 Credit Hours
Course explores the role of environment, food, nutrition and lifestyle choices in promoting health and preventing disease. Focus is on the fundamentals of public policy, including legislative and regulatory basis of nutrition and dietetics practices.
Prerequisite: NUTR 23511.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 41095 SPECIAL TOPICS IN NUTRITION 1-4 Credit Hours
(Repeatable for credit)(Slashed with NUTR 51095) Discussion of a major topic within a specific field in nutrition and dietetics. Topic varies per curse offering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

NUTR 41096 INDIVIDUAL INVESTIGATION IN NUTRITION 1-3 Credit Hours
(Repeatable for credit) Students undertake an independent study in an area of nutrition and dietetics that is not covered by a regular course offering, with the guidance of a Kent State faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

NUTR 43013 RESEARCH AND STATISTICAL METHODS IN NUTRITION AND DIETETICS (WIC) 3 Credit Hours
(Slashed with NUTR 53013) Student gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing.
Prerequisite: NUTR 33512.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

NUTR 43030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours
(Slashed with HTM 53030 and NUTR 53030)(Cross-listed with HEM 43030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.
Prerequisite: HEM 23212 or NUTR 23012; and HEM 23510 or NUTR 23510.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43512 MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours
(Slashed with NUTR 53512) Course explores the mechanisms through which the macronutrients meet biological needs and how these related to applied human nutrition.
Prerequisite: (ATTR 25057 (or EXSC 25057) and ATTR 25058 (or EXSC 25058)) or (BSCI 21010 and BSCI 21020); and NUTR 33512; and NUTR 33522; and CHEM 20481.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43513 MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours
(Slashed with NUTR 53513) Course explores the mechanisms through which micronutrients meet human biological needs in the relationship to underlying applied human nutrition.
Prerequisite: (EXSC 25057 and EXSC 25058) or (ATTR 25057 and ATTR 25058) or (BSCI 21010 and BSCI 21020); and CHEM 20481; and NUTR 33512; and NUTR 33522.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43515 COMMUNITY NUTRITION (ELR) 3 Credit Hours
(Slashed with NUTR 53515) Introduction to nutrition problems and practices in the community. Principles and techniques of effective education, learning and behavior change theories and techniques. Includes an experiential laboratory component with a focus on planning, implementation, evaluation and outcomes in nutrition education, as well as nutrition communication, programming and counseling techniques.
Prerequisite: NUTR 33512 and NUTR 33522 and NUTR 33532.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NUTR 43518 LIFECYCLE NUTRITION 3 Credit Hours
(Slashed with NUTR 53518) Explores the nutrition needs through growth, development and aging. Focus is on nutritional needs and issues during conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood and older adulthood.
Prerequisite: NUTR 33512.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43522 INTEGRATIVE AND FUNCTIONAL NUTRITION 2 Credit Hours
(Slashed with NUTR 53522) Introduces the foundations of integrative and functional medicine as it relates to nutrition. Includes personalized nutrition, nutrigenomics, complementary and alternative therapies, nutraceuticals and functional foods, in addition to the interaction of food on supplement and drug efficacy.
Prerequisite: NUTR 33512.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NUTR 43523 NUTRITION AND DIETETICS: PROFESSIONAL PRACTICE 1 Credit Hour
Development of professional awareness. Evaluation of professional growth and formulation of plans for continued growth.
Prerequisite: Nutrition major; and senior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 43524 NUTRITION AND DIETETICS: PROFESSIONAL PRACTICE 2 Credit Hours
Development of professional awareness, leadership and career goals. Evaluation of professional growth and formulation of plans for continued growth in the profession of nutrition and dietetics.
Prerequisite: Nutrition major; and senior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NUTR 43532 METHODS AND EXPERIENCES IN NUTRITION OUTREACH 3 Credit Hours
(Slashed with NUTR 53532) Students learn methods for development and evaluation techniques used for nutrition outreach programming; the role of community nutrition education in public health; and the impact of nutrition programming on disease prevention and management. Students engage in service learning opportunities in community nutrition education.
Prerequisite: Special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 4 other
Grade Mode: Standard Letter

NUTR 43540 MEDICAL NUTRITION THERAPY I 3 Credit Hours
(Slashed with NUTR 53540) Exploration of the nutrition care process, including documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs. Students engage in case studies and nutrition assessment exercises.
Prerequisite: (ATTR 25057 and ATTR 25058) or (BSCI 21010 and BSCI 21020) or (EXSC 25057 AND EXSC 25058); and CHEM 20481; and NUTR 33512; and NUTR 33522; and senior standing.
Corequisite: NUTR 43541.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43541 MEDICAL NUTRITION THERAPY I LABORATORY 1 Credit Hour
(Slashed with NUTR 53541) Simulated laboratory experiences of the nutrition care process, including documentation, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs related to behavioral nutrition, gastrointestinal disorders, obesity, diabetes, cardiovascular disease and anemia. Students will engage in simulated case studies.
Prerequisite: CHEM 20481; and NUTR 33512; and NUTR 33522; and senior standing.
Corequisite: NUTR 43540.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

NUTR 43542 MEDICAL NUTRITION THERAPY II 3 Credit Hours
(Slashed with NUTR 53542) Continued exploration of the nutrition care process, including relevant documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutritional needs. Students engage in case studies and nutritional assessments.
Prerequisite: NUTR 43540.
Corequisite: NUTR 43543.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 43543 MEDICAL NUTRITION THERAPY II LABORATORY 1 Credit Hour
(Slashed with NUTR 53543) Simulated laboratory experiences of the nutrition care process, including documentation, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs related to wounds and burns, renal diseases, immune disorders, oncology, eating disorders, pediatrics and those requiring nutrition support. Students will engage in simulated case studies.
Prerequisite: NUTR 43511; and senior standing.
Corequisite: NUTR 43542.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

NUTR 45092 PRACTICUM IN NUTRITION (ELR) 1-3 Credit Hours
Application of education in pre-professional experience in clinical, community and nutrition foodservice environments. Combination of nutrition experiences throughout the semester.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NUTR 45098 RESEARCH IN NUTRITION (ELR) 1-3 Credit Hours
Students engage in research under the supervision of a nutrition faculty member. Students may develop a research idea or work on faculty-led research.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NUTR 51095 SPECIAL TOPICS IN NUTRITION 1-4 Credit Hours
(Repeatable for credit)(Slashed with NUTR 41095) Discussion of a major topic within a specific field in nutrition and dietetics. Topic varies per curse offering.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

NUTR 51096 INDIVIDUAL INVESTIGATION IN NUTRITION 1-3 Credit Hours
(Repeatable for credit) Students undertake an independent study in an area of nutrition and dietetics that is not covered by a regular course offering, with the guidance of a Kent State faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

NUTR 53013 RESEARCH AND STATISTICAL METHODS IN NUTRITION 3 Credit Hours
(Slashed with NUTR 43013) Students gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours
(Slashed with NUTR 43030)(Cross-listed with HEM 43030 and HTM 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53512 MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours
(Slashed with NUTR 43512) Course explores the mechanisms through which the macronutrients meet biological need and how these related to applied human nutrition.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53513 MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours
(Slashed with NUTR 43513) Course explores the mechanisms through which micronutrients meet human biological needs in the relationship to underlying applied human nutrition.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53515 COMMUNITY NUTRITION 3 Credit Hours
(Slashed with NUTR 43515) Introduction to nutrition problems and practices in the community. Principles and techniques of effective education, learning and behavior change theories and techniques. Includes an experiential laboratory component with a focus on planning, implementation, evaluation and outcomes in nutrition education, as well as nutrition communication, programming and counseling techniques.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

NUTR 53518 LIFECYCLE NUTRITION 3 Credit Hours
(Slashed with NUTR 43518) Explores the nutrition needs through growth, development and aging. Focus is on nutritional needs and issues during conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood and older adulthood.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53522 INTEGRATIVE AND FUNCTIONAL NUTRITION 2 Credit Hours
(Slashed with NUTR 43522) Introduces the foundations of integrative and functional medicine as it relates to nutrition. Includes personalized nutrition, nutrigenomics, complementary and alternative therapies, nutraceuticals and functional foods, in addition to the interaction of food on supplement and drug efficacy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NUTR 53532 METHODS AND EXPERIENCES IN NUTRITION OUTREACH 3 Credit Hours
(Slashed with NUTR 43532) Students learn methods for development and evaluation techniques used for nutrition outreach programming; the role of community nutrition education in public health; and the impact of nutrition programming on disease prevention and management. Students engage in service learning opportunities in community nutrition education.
Prerequisite: Nutrition major; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 4 other
Grade Mode: Standard Letter

NUTR 53540 MEDICAL NUTRITION THERAPY I 3 Credit Hours
(Slashed with NUTR 43540) Exploration of the nutrition care process, including documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs. Students engage in case studies and nutrition assessment exercises.
Prerequisite: Graduate standing.
Corequisite: NUTR 53541.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53541 MEDICAL NUTRITION THERAPY I LABORATORY 1 Credit Hour
(Slashed with NUTR 43541) Simulated laboratory experiences of the nutrition care process, including documentation, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs related to behavioral nutrition, gastrointestinal disorders, obesity, diabetes, cardiovascular disease and anemia. Students will engage in simulated case studies.
Prerequisite: Graduate standing.
Corequisite: NUTR 53540.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

NUTR 53542 MEDICAL NUTRITION THERAPY II 3 Credit Hours
(Slashed with NUTR 43542) Continued exploration of the nutrition care process, including relevant documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutritional needs. Students engage in case studies and nutritional assessments.
Prerequisite: Graduate standing.
Corequisite: NUTR 53543.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 53543 MEDICAL NUTRITION THERAPY II LABORATORY 1 Credit Hour
(Slashed with NUTR 43543) Simulated laboratory experiences of the nutrition care process, including documentation, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs related to wounds and burns, renal diseases, immune disorders, oncology, eating disorders, pediatrics, and those requiring nutrition support. Student will engage in simulated case studies.
Prerequisite: Graduate standing.
Corequisite: NUTR 53542.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

NUTR 61015 NUTRITION AND DISEASE 3 Credit Hours
This course will overview the physiologic and metabolic process of organ systems that are integral to diseases related to nutrition. The treatment methods for these diseases will also be introduced.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 61016 RESEARCH METHODS IN NUTRITION I 3 Credit Hours
Introduces the foundations of research methods and statistics in nutrition sciences. Students are exposed to basic research methods related to quantitative and qualitative methods with an emphasis on quantitative methods. Basic statistical concepts are introduced with a focus on descriptive and inferential statistic common in nutrition science research. During the course, students start developing their thesis or research project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 61017 RESEARCH METHODS IN NUTRITION II 3 Credit Hours
Course builds upon NUTR 61016 and develops understanding on important aspects of research methods and statistical tests used in nutrition and dietetics.
Prerequisite: NUTR 61016; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 61098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research for master's-level students. Credit earned may be applied toward meeting degree requirements with school approval.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

NUTR 61099 MASTER'S PROJECT 2-6 Credit Hours
(Repeatable for credit) (Cross-listed with HDFS 61099) Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NUTR 63199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NUTR 63299 THESIS II 2 Credit Hours
Students must continue registration each semester until all degree requirements are met.
Prerequisite: NUTR 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NUTR 63518 ADVANCED SPORTS NUTRITION 3 Credit Hours
Course focuses on nutritional concepts and principles related to athletic performance including energy needs, metabolism, and utilization in sports, macronutrient needs and metabolism, micronutrient needs of athletes, nutrient timing considerations, hydration needs and practices and other special considerations.
Prerequisite: Graduation standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63519 ADVANCED STUDY OF MICRONUTRIENTS 3 Credit Hours
Course covers intake, digestion and absorption of nutrients.
Prerequisite: Nutrition major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63520 MACRONUTRIENT NUTRITION 3 Credit Hours
Course covers metabolic utilization of macronutrients for body processes.
Prerequisite: Nutrition major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63521 NUTRITION AND DISEASE: CLINICAL APPLICATIONS 3 Credit Hours
Recent trends and concepts in research and practice of therapeutic dietetics.
Prerequisite: NUTR 61015; and nutrition major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63522 COMMUNICATION, MANAGEMENT AND PROFESSIONALISM IN DIETETICS 3 Credit Hours
Explores the importance of communication in a variety of medias as it relates to leadership and management and overall professionalism in nutrition. The areas of management focus include foodservice, community and clinical nutrition management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63524 PERSPECTIVE ON PREVENTION AND PRACTICE IN COMMUNITY NUTRITION 3 Credit Hours
Explores the relationship between nutritional epidemiology and the research, policies and programs for the successful treatment and prevention of nutrition related disease in the United States. Focuses on the behavioral and learning theories used in successful nutrition interventions and grant writing to sustain community programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NUTR 63525 DIETETIC PRACTICE: COMMUNITY 1 Credit Hour
Discussion focusing on nutrition care in the community setting. Evaluation and interpretation of the scientific literature.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 63526 DIETETIC PRACTICE: MANAGEMENT 1 Credit Hour
Discussion focusing on the management of food and nutrition services. Evaluation and interpretation of the scientific literature.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 63527 DIETETIC PRACTICE: CLINICAL 1 Credit Hour
Discussion focusing on nutrition care in the acute practice setting. Evaluation and interpretation of the scientific literature.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NUTR 63591 NUTRITION SEMINAR 1-3 Credit Hours
(Repeatable for credit) Evaluation and interpretation of recent literature in an area of nutrition. Topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

NUTR 63592 DIETETIC INTERNSHIP 1-4 Credit Hours
(Repeatable for credit) Supervised practice component of dietetic internship.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 12-48 other
Grade Mode: Satisfactory/Unsatisfactory

Speech Pathology and Audiology (SPA)

SPA 10002 INTRODUCTION TO COMMUNICATION DISORDERS AND DIFFERENCES 3 Credit Hours
An introduction to communication disorders and differences using a) case studies via film and video review and critique, b) lecture, and c) class discussions. Covers speech, language, swallowing and hearing disorders and cultural and linguistic differences in communication.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 14500 INTRODUCTION TO PSYCHOLINGUISTICS FOR COMMUNICATION SCIENCES AND DISORDERS 3 Credit Hours
Examines current theory and research specific to typical language — with a significant focus on the cognitive processes that inform our understanding of social, psychological and linguistic aspects of language use and understanding in the context of communication sciences and disorders.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 33101 HEARING AND SPEECH SCIENCE 3 Credit Hours
Acoustics, psychoacoustics, and acoustics of speech production and perception.
Prerequisite: Admittance into the SPA professional phase (minimum 3.000 overall GPA at 60 credits).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34102 APPLIED PHONETICS 3 Credit Hours
Basic principles of speech production and phonetic transcriptions of English with the international phonetic alphabet; emphasis on general American dialect.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34103 ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING 3 Credit Hours
Functional anatomy and physiology of the respiratory, phonatory, articulatory, neural, and auditory systems as they are used with normal and abnormal speech and hearing.
Prerequisite: SPA 34104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34104 SPEECH AND LANGUAGE ACQUISITION 3 Credit Hours
Normal development and linguistic analysis of language systems including phonology, morphology, syntax, semantics, and pragmatics.
Pre/corequisite: SPA 34102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34106 ARTICULATORY AND PHONOLOGICAL DISORDERS 3 Credit Hours
Assessment and remediation of disorders of articulation and phonology.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 34102 and SPA 34104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34107 LANGUAGE DISORDERS IN CHILDREN AND ADOLESCENTS 3 Credit Hours
Introduction to assessment and intervention procedures associated with language disorders in children and adolescents.
Prerequisite: SPA 34104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 34210 SPEECH AND LANGUAGE DEVELOPMENT 3 Credit Hours
Normal development and linguistic analysis of language systems including phonology, morphology, syntax, semantics, and pragmatics. This course is for non-speech pathology and audiology majors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 43402 AUDIOMETRY 3 Credit Hours
(Slashed with SPA 53402) Measurement of human hearing by pure-tone and speech audiometry; evaluation of middle ear function by immittance audiometry; screening techniques; pathologies of the conductive and sensorineural systems.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 33101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 43404 AURAL REHABILITATION 3 Credit Hours
Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing-impaired individuals.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 33101 and SPA 34102 and SPA 43402.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 43405 CLINICAL PREPARATION IN AUDIOLOGY (ELR) 2 Credit Hours
Exercises and practical experiences in audiometric procedures, test interpretation, and Audiological diagnosis.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 hours).
Corequisite: SPA 43402.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

SPA 44010 SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS 3 Credit Hours
Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores the use of assistive technology to enhance social communicative functioning in those with ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44020 MEDICAL ASPECTS OF AUTISM SPECTRUM DISORDERS 3 Credit Hours
(Cross-listed with SPED 44020) Description of medical issues facing individuals with autism spectrum disorders (ASD) and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours
(Slashed with SPA 54030, SPA 74030 and SPED 54030) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents and young adults with autism spectrum disorders (ASD). Students learning skills necessary to evaluate and develop programs designed to meet the changing and long term needs of those with ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY (DIVG) (ELR) 1-4 Credit Hours
(Slashed with SPA 54089 and SPA 74089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP
Attributes: Diversity Global, Experiential Learning Requirement

SPA 44096 INDEPENDENT STUDY: SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours
(Repeatable for credit) Readings and/or research on problems approved by chairman of department in consultation with student's adviser and project director.
Prerequisite: Speech pathology and audiology major and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

SPA 44110 SPEECH SCIENCE 3 Credit Hours
Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 34102 and SPA 34106.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44111 NEURAL PROCESSES 3 Credit Hours
(Slashed with SPA 54111) Anatomy and physiology of the nervous system underlying human neuromotor movements. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function, and neural maturation and learning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44112 AGE-RELATED CHANGES IN COMMUNICATION 3 Credit Hours
Nonpathological age-related changes in speech, language and voice. Topics include structural changes in orofacial, laryngeal and respiratory mechanism; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals.
Prerequisite: Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44130 COMMUNICATION DISORDERS OF THE AGING 2 Credit Hours
Hearing, speech and language disorders in geriatric population. Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process.
Prerequisite: Senior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 44310 CLINICAL PROCEDURES IN SPEECH PATHOLOGY 3 Credit Hours
This course addresses evaluation and intervention procedures in the field of speech-language pathology across the lifespan.
Prerequisite: Admittance into the admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits) professional phase (minimum 3.000 overall GPA at 60 credits); and Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 44311 CLINICAL PREPARATION IN SPEECH-LANGUAGE PATHOLOGY (ELR) (WIC) 2 Credit Hours
The course covers the essential professional written communication associated with evaluation and intervention methodology for individuals with communication disorders.
Prerequisite: Admittance into the speech pathology and audiology professional phase (3.000 overall GPA at 60 hours).
Corequisite: SPA 44310.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPA 53402 AUDIOMETRY 3 Credit Hours
(Slashed with SPA 43402) Measurement of human hearing by puretone and speech audiometry# evaluation of middle ear function by immittance audiometry# screening techniques# pathologies of the conductive and sensorineural systems.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 53404 AURAL REHABILITATION 3 Credit Hours
Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing-impaired individuals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54010 SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS 3 Credit Hours
(Slashed with SPA 44010) Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores the use of assistive technology to enhance social communicative functioning in those with ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours
(Cross-listed with SPED 54030) (Slashed with SPA 44030 and SPA 74030) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents and young adults with autism spectrum disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with SPA 44089 and SPA 74089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Graduate standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPA 54096 INDEPENDENT STUDY: SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours
(Repeatable for credit) Readings and/or research on problems approved by chair of department in consultation with student's adviser and project director.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

SPA 54110 SPEECH SCIENCE 3 Credit Hours
Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders.
Prerequisite: SPA 34102 and 34106; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54111 NEURAL PROCESSES IN SPEECH AND LANGUAGE 3 Credit Hours
Anatomy and physiology of the nervous system underlying speech and language. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function and neural maturation and learning.
Prerequisite: SPA 34103 or special approval of the instructor; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54112 AGE-RELATED CHANGES IN COMMUNICATION 3 Credit Hours
Nonpathological age-related changes in speech, language and voice. Topics include: structural changes in orofacial, laryngeal and respiratory mechanisms; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 54130 COMMUNICATION DISORDERS OF THE AGING 2 Credit Hours
Hearing, speech and language disorders in geriatric population. Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 54309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours
(Cross-listed with SPED 54309) (Slashed with SPED 44309 and SPA 74309) Provides an overview of autism spectrum disorders (ASD). Examines the history, characteristics, and prevalence of ASD. The different theoretical models for understanding ASD are explored as they relate to assessment and intervention.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 60708 CRITICAL ANALYSIS OF RESEARCH 2 Credit Hours
(Slashed with SPA 70708) Development of a reading knowledge of research and the ability to evaluate the quality of research studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 63691 SEMINAR IN AUDIOLOGY 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPA 64091 SEMINAR IN COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Special topics seminar for advanced students in speech-language pathology and audiology. Presentations and discussion of research projects are required.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64093 WORKSHOP IN COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for credit)Variable topic workshop offered when need arises, either on or off campus to update training in a particular area of speech pathology.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 64096 INDIVIDUAL INVESTIGATION:SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours) Independent study of topics to be selected in consultation with graduate faculty.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64191 SEMINAR:NEUROGENIC COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia.
Prerequisite: SPA 64301; and graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64291 SEMINAR:CHILD LANGUAGE 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Topics are selected for class investigation from the areas of child language development or disorders.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SPA 64199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64301 APHASIA 3 Credit Hours
Neuroanatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia in adults.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64302 LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD 3 Credit Hours
Methods of language assessment and intervention for infants, toddlers and preschoolers who are either at risk or diagnosed as presenting language delays or disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64303 DISORDERS OF ARTICULATION AND PHONOLOGY 3 Credit Hours
Diagnosis and remediation of children's articulation and phonological disorders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64304 ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS 3 Credit Hours
Cognitive functions and etiologies, symptomologies, evaluation and treatment methods related to adults with cognitive communicative disorders subsequent to right hemisphere damage, traumatic brain injury, dementia and related impairments.
Prerequisite: Speech language pathology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64305 FLUENCY DISORDERS 3 Credit Hours
Nature, theories and their derived therapeutic approaches to the treatment of fluency disorders.
Prerequisite: Speech language pathology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64306 VOICE DISORDERS 2 Credit Hours
Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 64308 LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS 3 Credit Hours
Theoretical background knowledge and practical assessment and intervention techniques for school-age children who demonstrate language disorders.
Prerequisite: SPA 34107; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64311 AUTISM SPECTRUM DISORDERS 2 Credit Hours
Provides an overview of the social, communication, and language needs of those with autism spectrum disorder. Reviews contemporary assessment and intervention strategies. This course is designed to prepare preservice speech language pathologists with foundational information about autism spectrum disorders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 64312 MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS 3 Credit Hours
(Slashed with SPA 74312) Anatomic and physiologic bases of congenital and acquired motor speech disorders. Etiology, symptomatology, evaluation and treatment techniques related to variety of motor speech disorders in children and adults.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64354 PEDIATRIC MEDICAL ISSUES 2 Credit Hours
Nature and rehabilitative procedures for speech-language pathology practice with pediatric medical issues, including dysphagia, maxillofacial anomalies, and resonance disorders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 64356 ADULT DYSPHAGIA 3 Credit Hours
(Slashed with SPA 74356) Anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to swallowing disorders in adults.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64391 SEMINAR:SEMINAR: ARTICULATION AND PHONOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 64491 SEMINAR:ORGANIC SPEECH DISORDERS 1-3 Credit Hours
(Repeatable for credit)A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64492 CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-12 Credit Hours
(Repeatable for credit) Supervised clinical practice with patients who have speech, hearing or language problems.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-12 other
Grade Mode: Standard Letter-IP

SPA 64500 NORMAL LANGUAGE PROCESSES 3 Credit Hours
Examines current theory and research specific to normal human development from birth to age 21. Significant neurological, cognitive, social, linguistic, emotional, literacy, and motor developmental changes are explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64501 SOCIAL COMMUNICATION ASPECTS OF AUTISM SPECTRUM DISORDER 3 Credit Hours
(Slashed with SPA 74501) Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores use of assistive technology to enhance social communicative functioning in those with ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64504 ADVANCED SPEECH AND VOICE SCIENCE 3 Credit Hours
Application of normal and disordered speech, swallowing, and voice production and perception; survey of literature; theories of production and perception.
Prerequisite: SPA 54110; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64525 PUBLIC SCHOOL TECHNIQUES IN COMMUNICATION DISORDERS:INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech language pathologist or audiologist as disciplined investigator. Combination of themes including organizational procedures, therapy techniques, collaboration, ethics and research.
Prerequisite: Graduate standing; and special approval.
Corequisite: SPA 64592.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64591 SEMINAR:FLUENCY DISORDERS 1-3 Credit Hours
(Repeatable for a maximum 9 credit hours)Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64592 STUDENT TEACHING IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 8 Credit Hours
Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech language pathologist or audiologist as disciplined investigator. Combination of themes including organization, procedures, therapy techniques, collaboration, ethics and research. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing; and special approval.
Corequisite: SPA 64525.
Schedule Type: Practical Experience
Contact Hours: 40 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 64600 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 3 Credit Hours
Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech language pathology and audiology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 64691 SEMINAR:VOICE DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment.
Prerequisite: SPA 6/74306; and graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64791 SEMINAR:SPEECH SCIENCE 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception.
Prerequisite: SPA 4/54110 and SPA 6/74504; graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-S/U-IP

SPA 64891 SEMINAR: COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY 2 Credit Hours
(Slashed with SPA 74891) (Repeatable for credit) Nature, etiologies and correlates of speech/language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication, language, learning and literacy.
Prerequisite: SPA 64302 and SPA 64500; and graduate standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

SPA 64991 SEMINAR:CRITICAL TOPICS IN SPEECH LANGUAGE 1-3 Credit Hours
(Repeatable for credit) Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework.
Prerequisite: Speech pathology and audiology major only; and graduate standing; and instructor special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 65092 CLINICAL PRACTICUM I IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 75092) (Repeatable twice for credit) Supervised, introductory clinical experience in assessment and intervention with populations within the Scope of Practice of speech language pathology per the current practice policy of the American Speech Language Hearing Association. To facilitate clinical competency and accrual of required clinical clock hours per current ASHA standards, students are expected to enroll in Clinical Practicum each semester that they are not enrolled in Externship or Student Teaching. A grade of B or better in this course is required for permission to register in SPA 65192.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 65192 CLINICAL PRACTICUM II IN SPEECH AND LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 75192) (Repeatable twice for credit) This course includes additional supervised, hands on clinical experience with clients in on campus clinics. Student clinicians are provided with opportunities to demonstrate increased independence in clinical decision making and performance. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for registration in SPA 65292.
Prerequisite: SPA 65092 with a minimum C grade; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 65292 CLINICAL PRACTICUM III IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 75292) (Repeatable twice for credit) Includes additional supervised, hands on clinical experience with clients in on campus clinics and or off-campus, supervised clinical experience in sites such as schools or long term care facilities. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that reflect readiness for Externship or Student Teaching experiences. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for permission to register in the following courses: Clinical Practicum IV in Speech Language Pathology SPA 65392, Externship in Speech Language Pathology: Adult SPA 65492, Externship in Speech Language Pathology: Pediatric SPA 65592, Student Teaching in Speech Language Pathology SPA 64528.
Prerequisite: SPA 65192 with a minimum B grade; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 65392 CLINICAL PRACTICUM IV IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 75392) (Repeatable twice for credit) This supervised, hands on clinical experience with clients in on campus clinics or off campus sites is for second year graduate students who are not yet scheduled for externship or student teaching. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that are reflective of readiness for externship or student teaching experiences. A grade of B or better in this course is required for permission to register in the following courses: Externship in speech language pathology: adult SPA 65492, externship in speech language pathology: pediatric SPA 65592, student teaching in speech language pathology SPA 64528.
Prerequisite: SPA 65292 with a minimum B grade; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 65492 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: ADULT 4-8 Credit Hours
(Slashed with SPA 75492) (Repeatable once for credit) Considered a culminating clinical experience. Includes supervised, hands-on clinical experience with patients in adult care settings such as hospitals, rehabilitation and long term care facilities.
Prerequisite: SPA 65292 or SPA 65392 with a minimum B grade; and graduate standing; and permission.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Standard Letter-IP

SPA 65592 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: PEDIATRIC 4-8 Credit Hours
(Slashed with SPA 75592) (Repeatable once for credit) Considered a culminating clinical experience. Students may choose this course as an alternative to student teaching in speech-language pathology. Includes supervised, hands-on clinical experience with children and adolescents in pediatric care settings such as hospitals and other habilitation and rehabilitation facilities.
Prerequisite: SPA 65292 or SPA 65392 with a minimum B grade; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Standard Letter-IP

SPA 70192 GRADUATE AUDIOLOGIST I 3 Credit Hours
Supervised clinical practicum in audiology which encompasses audiologic assessments and audiologic habilitation.
Prerequisite: SPA 70792; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

SPA 70292 GRADUATE AUDIOLOGIST II 3 Credit Hours
Supervised clinical practicum in audiology requiring the independent performance of audiologic assessment procedures, audiologic rehabilitation and vestibular assessment and rehabilitation.
Prerequisite: SPA 70192; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

SPA 70392 GRADUATE AUDIOLOGIST III 6 Credit Hours
Supervised clinical practicum in audiology which encompasses the entire range of audiologic procedures including neurophysiological based procedures.
Prerequisite: Passing score of 600 or higher on the PRAXIS examination; and SPA 70292; and doctoral standing; and special approval.
Corequisite: SPA 70791.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 70492 GRADUATE AUDIOLOGIST IV 8 Credit Hours
Full-time clinical practicum in audiology at an off-campus site. Students taking the course must have successfully completed the Praxis Examination.
Prerequisite: SPA 70392; and doctoral standing.
Corequisite: SPA 70791.
Schedule Type: Practical Experience
Contact Hours: 24 other
Grade Mode: Standard Letter

SPA 70592 GRADUATE AUDIOLOGIST V 8 Credit Hours
Full-time external audiology clinical placement with a licensed and appropriately credentialed preceptor who provides clinical teaching. This experience provides a capstone learning experience in the full scope of practice in the profession of audiology.
Prerequisite: SPA 70492; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 24 other
Grade Mode: Standard Letter

SPA 70615 CENTRAL AUDITORY PROCESSING EVALUATION AND MANAGEMENT 2 Credit Hours
Study of audiologic evaluation and (re)habilitation procedures for people central auditory processing disorders.
Prerequisite: SPA 70705 and SPA 70706; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70616 HEARING AID FITTING AND SELECTION ACROSS THE LIFESPAN 4 Credit Hours
Examination of the theory and practice of fitting hearing aids across the lifespan. Emphasis on special clinical procedures, research needs and evolving technology in hearing instruments.
Prerequisite: Admission to the audiology major; and SPA 70713; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70618 IMPLANTABLE TECHNOLOGY 4 Credit Hours
Study of implantable devices in children and adults including equipment, candidacy, programming, fitting, and troubleshooting.
Prerequisite: Admisstion to the audiology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70627 MULTICULTURAL ISSUES IN AUDIOLOGY 2 Credit Hours
An introduction to varying cultures and the audiologist's roles and responsibilities in planning treatment with a member of these cultures.
Prerequisite: Admission to the audiology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70630 PRACTICE MANAGEMENT IN AUDIOLOGY 3 Credit Hours
Study of issues which impact the management of audiological practices, including establishing a private practice, reimbursement, marketing, record keeping and professional liability.
Prerequisite: Admission to the audiology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70691 SEMINAR IN AUDIOLOGY 2 Credit Hours
(Repeatable for credit)Selected current topics in audiology with emphasis on review of current literature.
Prerequisite: Admission to the AUD program or special approval of the instructor; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

SPA 70692 INTERNSHIP IN AUDIOLOGY 2 Credit Hours
(Repeatable for credit) Supervised practicum in audiology requiring the independent performance of basic audiologic procedures, including hearing aid management.
Prerequisite: SPA 70744; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 70701 BASIC AND APPLIED PHYSICAL ACOUSTICS FOR AUDIOLOGY 4 Credit Hours
Study of physical acoustics, basic electricity and electronics, as well as principles, methodology, calibration and maintenance of audiologic equipment.
Prerequisite: Admission to the AUD program or special approval of instructor; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70702 ANATOMY AND PHYSIOLOGY OF PERIPHERAL AUDITORY AND VESTIBULAR SYSTEMS 4 Credit Hours
A study of the anatomy, biophysics and physiology of the auditory and vestibular systems.
Prerequisite: Admission to the Audiology program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70703 SPEECH ACOUSTICS AND SPEECH PERCEPTION 2 Credit Hours
Study of the nomenclature, acoustics, measurement, and perception of speech sounds and their impact and interpretation in audiology.
Prerequisite: Admission to the audiology program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70704 CRITICAL ANALYSIS OF RESEARCH IN AUDIOLOGY 2 Credit Hours
General introduction to the research process with an emphasis on acquiring a reading knowledge of research and an ability to evaluate research.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70705 AUDITORY DISORDERS 2 Credit Hours
Study of conditions/diseases that can affect the auditory system.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70706 ANATOMY AND PHYSIOLOGY UNDERLYING NEURO-OTOLOGY 4 Credit Hours
An in-depth study of the anatomy and physiology of the central auditory and vestibular nervous system (includes 1 hour lab.)
Prerequisite: SPA 70702; and doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

SPA 70707 PSYCHOACOUSTICS 3 Credit Hours
Study of the principles, procedures and research of psychoacoustics; the relationships between the physical dimensions of auditory stimuli and the resultant perceptual experience with normal and impaired hearing.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70708 CRITICAL ANALYSIS OF RESEARCH 2 Credit Hours
Development of a reading knowledge of research and the ability to evaluate the quality of research studies.
Prerequisite: SPA 70704; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70709 AUDIOLOGIC ASSESSMENT 3 Credit Hours
Theoretical basis for tests underlying basic audiologic assessments.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70710 INDUSTRY AND COMMUNITY NOISE 3 Credit Hours
Theoretical principles of noise measurement; etiology of noise-induced hearing loss and acoustic trauma; industrial hearing conservation programs; occupational safety and health act; community and recreational noise evaluation and management.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70712 DIAGNOSIS OF AUDITORY DISORDERS 3 Credit Hours
Underlying theory and principles of administration and interpretation of site-of-lesion tests.
Prerequisite: SPA 70709; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70713 HEARING AID TECHNOLOGY 4 Credit Hours
Study of amplification systems for the hearing impaired.
Prerequisite: SPA 70701; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70714 GERONTOLOGICAL ISSUES IN AUDIOLOGY 3 Credit Hours
Physiological, psychological and sociological theories of aging with a focus on the etiology, symptomatology, assessment and rehabilitation of older adults with hearing impairments.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70717 PEDIATRIC AUDIOLOGY 3 Credit Hours
Study of audiologic diagnostic and auditory habilitative protocols for the birth to 3 population. Both assessment and management strategies will be emphasized.
Prerequisite: SPA 70709; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70719 COUNSELING IN AUDIOLOGY 3 Credit Hours
Focus on interviewing, counseling and interacting with individuals with hearing impairments their families and significant others.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70721 EVALUATION AND MANAGEMENT OF BALANCE DISORDERS 3 Credit Hours
Study of the balance mechanism; differential diagnostic assessment of balance disorders including electronystagmography, posturography and rotational testing; rehabilitation of the balance disordered patient (1 hour lab included.)
Prerequisite: Admission to the AUD program or special approval of instructor; and doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SPA 70725 MEDICAL MANAGEMENT OF AUDITORY DISORDERS 2 Credit Hours
A study of the multidisciplinary approach to medical/surgical management of patients with auditory and vestibular disorders.
Prerequisite: SPA 70712; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 70726 ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY 3 Credit Hours
Study of evoked responses used in diagnostic audiology, including ABR, MLR,ECHOCHG, ENOG, ALR, P300, VER, and SSER.
Prerequisite: SPA 70706; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 70732 AUDIOLOGIC TREATMENT ACROSS THE LIFESPAN 4 Credit Hours
Study of current methodologies employed in the audiologic treatment of people with hearing loss across the lifespan. Implementation of remedial strategies is emphasized.
Prerequisite: Admission to the audiology major; and SPA 70616; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70733 ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES 4 Credit Hours
Advanced considerations in balance function assessment and management and in the study of evoked responses used in diagnostic audiology.
Prerequisite: Admission into the audiology program; and SPA 70726 and SPA 70721; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

SPA 70734 PRINCIPLES IN PRECEPTING 1 Credit Hour
Examination of the concepts and practices essential to the preceptor role. Emphasis on professional standards, adult learning theories, communication styles, ethical principles, and the multiple roles of a preceptor (educator, role model, mentor, facilitator and evaluator).
Prerequisite: Admission into the audiology major; and SPA 70748; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPA 70753 LABORATORY FOR ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY 1 Credit Hour
Laboratory exercises for the assessment of auditory disorders including electrocochleography, the auditory brainstem response and auditory steady state responses.
Prerequisite: Audiology major; and doctoral standing.
Corequisite: SPA 70726.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

SPA 70754 LABORATORY FOR EVALUATION AND MANAGEMENT OF BALANCE DISORDERS 1 Credit Hour
Laboratory exercises for the assessment of balance disorders including videonystagmography, posturography and informal evaluations; approaches for the rehabilitation and treatment of the balance disordered patient.
Prerequisite: Audiology major; and doctoral standing.
Corequisite: SPA 70721.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

SPA 70755 LABORATORY FOR ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES 1 Credit Hour
Laboratory exercises for the assessment, management and treatment of auditory and vestibular disorders including early, middle and late auditory evoked potentials and advanced vestibular measures.
Prerequisite: Audiology major; and doctoral standing.
Corequisite: SPA 70733.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

SPA 70791 FOURTH YEAR SEMINAR 1 Credit Hour
(Repeatable for credit) In-depth consideration of topics/issues in the practice of audiology with emphasis upon issues related to clinical rotation.
Prerequisite: Doctoral standing; and special approval.
Corequisite: SPA 70750 or SPA 70751.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

SPA 70792 INTERNSHIP IN AUDIOLOGY 2 Credit Hours
(Repeatable for credit) Supervised clinical practicum in audiology requiring the independent performance of diagnostic, hearing aids and audiologic rehabilitation procedures. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which student teaching/internship will take place.
Prerequisite: SPA 70692; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 70798 RESEARCH PROJECT IN AUDIOLOGY 3 Credit Hours
(Repeatable for credit) Completion of a doctoral research project including data collection, analysis write- up and oral presentation.
Prerequisite: Admission to the AUD program; and doctoral standing.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

SPA 70892 INTERNSHIP III 2 Credit Hours
Clinical practicum in audiology during which students perform discrete tasks under supervision.
Prerequisite: Admission to the audiology major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 70992 INTERNSHIP IV 2 Credit Hours
Clinical practicum in audiology during which students perform discrete tasks under supervision.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 73691 SEMINAR IN AUDIOLOGY 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPA 74030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours
(Slashed with SPA 44030, SPA 54030 and SPED 54030) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents and young adults with autism spectrum disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with SPA 44089 and SPA 54089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Doctoral standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPA 74093 WORKSHOP IN COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for credit)Variable topic workshop offered when need arises, either on or off campus to update training in a particular area of speech pathology.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 74191 SEMINAR:NEUROGENIC COMMUNICATION DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia.
Prerequisite: SPA 64301; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74291 SEMINAR:CHILD LANGUAGE 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Topics are selected for class investigation from the areas of child language, development or disorders.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74301 APHASIA 3 Credit Hours
Neuroanatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia in adults.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74302 LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD 3 Credit Hours
Methods of language assessment and intervention for infants, toddlers and preschoolers who are either at risk or diagnosed as presenting language delays or disabilities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74303 DISORDERS OF ARTICULATION AND PHONOLOGY 3 Credit Hours
Diagnosis and remediation of children's articulation and phonological disorders.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74304 ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS 3 Credit Hours
Cognitive functions and etiologies, symptomologies, evaluation and treatment methods related to adults with cognitive communicative disorders subsequent to right hemisphere damage, traumatic brain injury, dementia and related impairments.
Prerequisite: Speech language pathology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74305 FLUENCY DISORDERS 3 Credit Hours
Nature, theories and their derived approaches to the assessment and treatment of fluency disorders.
Prerequisite: Speech language pathology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74306 VOICE DISORDERS 2 Credit Hours
Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 74308 LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS 3 Credit Hours
Theoretical background knowledge and practical assessment and intervention techniques for school-age children who demonstrate language disorders.
Prerequisite: SPA 34107; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours
(Slashed with SPA 54309, SPED 44309 and SPED 54309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74312 MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS 3 Credit Hours
(Slashed with SPA 64312) Anatomic and physiologic bases of congenital and acquired motor speech disorders. Etiology, symptomatology, evaluation and treatment techniques related to variety of motor speech disorders in children and adults.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74354 PEDIATRIC MEDICAL ISSUES 2 Credit Hours
Nature and rehabilitative procedures for speech-language pathology practice with pediatric medical issues, including dysphagia and maxillofacial anomalies and resonance disorders.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SPA 74356 ADULT DYSPHAGIA 3 Credit Hours
Anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to swallowing disorders in adults.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74391 SEMINAR:ARTICULATION AND PHONOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 74491 SEMINAR:ORGANIC SPEECH DISORDERS 1-3 Credit Hours
(Repeatable for credit)A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74492 CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-12 Credit Hours
(Repeatable for credit) Supervised clinical practice with patients who have speech, hearing or language problems.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-12 other
Grade Mode: Standard Letter-IP

SPA 74500 NORMAL LANGUAGE PROCESSES 3 Credit Hours
Examines current theory and research specific to normal human development from birth to age 21. Significant neurological, cognitive, social, linguistic, emotional, literacy, and motor developmental changes are explored..
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74501 SOCIAL COMMUNICATION ASPECTS OF AUTISM SPECTRUM DISORDER 3 Credit Hours
Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores use of assistive technology to enhance social communicative functioning in those with ASD.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74504 ADVANCED SPEECH AND VOICE SCIENCE 3 Credit Hours
Application of normal and disordered speech, swallowing, and voice production and perception; survey of literature; theories of production and perception.
Prerequisite: SPA 4/54110; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74591 SEMINAR:FLUENCY DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours)Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74592 CLERKSHIP I 1 Credit Hour
Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.
Prerequisite: Admission to the audiology major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 74600 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY 3 Credit Hours
Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech language pathology and audiology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPA 74691 SEMINAR:VOICE DISORDERS 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment.
Prerequisite: SPA 6/74306; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74692 CLERKSHIP II 1 Credit Hour
Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.
Prerequisite: Admission to the audiology major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

SPA 74791 SEMINAR:SPEECH SCIENCE 1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception.
Prerequisite: SPA 4/54110 or SPA 6/74504; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 74891 SEMINAR: COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY 2 Credit Hours
(Slashed with SPA 64891) (Repeatable for credit) Nature, etiologies and correlates of speech language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication language, learning and literacy.
Prerequisite: Speech language pathology major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

SPA 74991 SEMINAR:CRITICAL TOPICS IN SPEECH LANGUAGE PATHOLOGY 1-3 Credit Hours
(Repeatable for credit) Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework.
Prerequisite: Speech pathology and audiology major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-S/U-IP

SPA 75092 CLINICAL PRACTICUM I IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 65092) (Repeatable twice for credit) Supervised, introductory clinical experience in assessment and intervention with populations within the scope of practice of speech language pathology per the current practice policy of the american speech language hearing association. To facilitate clinical competency and accrual of required clinical clock hours per current ASHA standards, students are expected to enroll in clinical practicum each semester that they are not enrolled in externship or student teaching. A grade of B or better in this course is required for permission to register in CLIN PR II SPE LANG PATH-SPA 65192.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 75192 CLINICAL PRACTICUM II IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 65192) (Repeatable twice for credit) This course includes additional supervised hands on clinical experience with clients in on campus clinics. Student clinicians are provided with opportunities to demonstrate increased independence in clinical decision making and performance. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for permission to enroll in Clinical Practicum III in Speech Language Pathology SPA 75292.
Prerequisite: SPA 75092 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 75292 CLINICAL PRACTICUM III IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Slashed with SPA 65292) (Repeatable twice for credit) Includes additional supervised, hands-on clinical experience with clients in on campus clinics and or off campus, supervised clinical experience in sites such as schools or long-term care facilities. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision-making and performance that reflect readiness for externship or student teaching experiences. Practicum requirements may include attendance at a weekly clinical colloquium. A grade of B or better in this course is required for permission to register in the following courses: clinical practicum IV in speech language pathology SPA 75392, externship in speech language pathology: adult SPA 75492, externship in speech language pathology: pediatric SPA 75592, student teaching in speech language pathology SPA 64528.
Prerequisite: SPA 75192 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 75392 CLINICAL PRACTICUM IV IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours
(Repeatable for credit) This supervised, hands on clinical experience with clients in on campus clinics or off campus sites is for second year graduate students who are not yet scheduled for externship or student teaching. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that are reflective of readiness for externship or student teaching experiences. A grade of B or better in this course is required for permission to register in the following courses: externship in speech language pathology: adult SPA 75492, externship in speech language pathology: pediatric SPA 75592, student teaching in speech language pathology SPA 64528.
Prerequisite: SPA 75292 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8-12 other
Grade Mode: Standard Letter-IP

SPA 75492 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: ADULT 4-8 Credit Hours
(Cross-listed with SPA 65492) (Repeatable once for credit) Considered a culminating clinical experience. Includes supervised, hands on clinical experience with patients in adult care settings such as hospitals, rehabilitation and long term care facilities.
Prerequisite: SPA 75292 or SPA 75392 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Standard Letter-IP

SPA 75592 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: PEDIATRIC 4-8 Credit Hours
(Slashed with SPA 65592) (Repeatable once for credit) Considered a culminating clinical experience. Students may choose this course as an alternative to Student Teaching in Speech Language Pathology. Includes supervised, hands on clinical experience with children and adolescents in pediatric care settings such as hospitals and other habilitation and rehabilitation facilities.
Prerequisite: SPA 75292 or SPA 75392 with a minimum B grade; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Standard Letter-IP

SPA 75792 INTERNSHIP I 1 Credit Hour
Clinical practicum in audiology during which students perform discrete tasks under supervision.
Prerequisite: Admission to the audiology major; and doctoral standing; and special approval.
Corequisite: SPA 70709.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 76792 INTERNSHIP II 1 Credit Hour
Supervised clinical practicum in audiology during which students will perform discrete clinical tasks while under supervision.
Prerequisite: Admission to the audiology major; and SPA 75792; and doctoral standing and special approval.
Schedule Type: Practical Experience
Contact Hours: 18 other
Grade Mode: Standard Letter

SPA 84091 SEMINAR IN COMMUNICATION DISORDERS 2 Credit Hours
(Repeatable for a maximum 9 credit hours)Special topics seminar for advanced students in speech-language pathology and audiology. Presentations and discussion of research projects are required.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

SPA 84096 INDIVIDUAL INVESTIGATION-SPEECH PATHOLOGY AND AUDIOLOGY 1-3 Credit Hours
(Repeatable for credit) Independent study of topics to be selected in consultation with graduate faculty.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 84098 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research opportunities for doctoral students who have not yet passed their candidacy examination.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-S/U-IP

SPA 84199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPA 84299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: SPA 84199; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Alcohol, Tobacco and Other Drug Prevention - Undergraduate Certificate

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Alcohol, Tobacco and Other Drug Prevention undergraduate certificate prepares graduates to sit for the Ohio Department of Alcohol and Drug Addiction Services exams to become a certified prevention specialist assistant in the state of Ohio.

Contact Information

- **Laurie M. Wagner, MCHES** | lyoo@kent.edu | 330-672-0685
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Health specialties teachers, postsecondary

- 20.5% much faster than the average
- 254,000 number of jobs
- $99,090 potential earnings

Mental health and substance abuse social workers

- 16.8% much faster than the average
- 123,200 number of jobs
- $48,720 potential earnings

Substance abuse, behavioral disorder, and mental health counselors

- 24.7% much faster than the average
- 319,400 number of jobs
- $47,660 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Code	Title	Credit Hours
Certificate Requirements		
HED 11590	COMMUNITY HEALTH EDUCATION	3
HED 32530	DRUG USE AND MISUSE	3
HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	5
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
HED 44030	GAMBLING, GAMING AND HEALTH	3
HED 44550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	3
Minimum Total Credit Hours:		**20**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Increase drug and substance use prevention education knowledge to prepare students to take the Ohio Chemical Dependency Professionals Board exam for the Ohio Certified Prevention Specialist Assistant (OCPSA) and Ohio Certified Prevention Specialist (OCPS) credential; and
2. Prepare students to practice as a certified prevention specialist assistant in the state of Ohio.

Athletic Training - M.S.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

Embark on a transformative journey with our two-year Athletic Training master's degree. Immerse yourself in a curriculum that seamlessly integrates theory into practice, emphasizing ethics, research and inter-professional collaboration. Learn from renowned mentors in cutting-edge healthcare facilities, developing both critical analysis and investigative research skills. By program completion, you'll be equipped to critically evaluate scientific research and excel in the Board of Certification national credentialing examination. Elevate your athletic training career with us – where passion meets proficiency! Read more...

Contact Information

- **Jay C. Jonas, Ph.D.** | jjonas2@kent.edu | 330-356-0598
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Athletic trainers

- 16.2% much faster than the average
- 32,100 number of jobs
- $49,860 potential earnings

Health specialties teachers, postsecondary

- 20.5% much faster than the average
- 254,000 number of jobs
- $99,090 potential earnings

Accreditation

Commission on the Accreditation of Athletic Training Education (CAATE)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Kent State University participates in the Athletic Training Centralized Application System (ATCAS) through the Commission on Accreditation of Athletic Training Education. Applicants to Kent State's program must apply via ATCAS.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Completion of prerequisite courses with minimum C grade [1]
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] Applicants are expected to have substantial preparation in the sciences, usually including coursework in biology, basic athletic training, biomechanics, anatomy and physiology (including exercise physiology), chemistry, research, physics, nutrition and general psychology. Prerequisites are evaluated for course content to ensure appropriate applicability for the program. Due to the program's highly prescriptive requirements, students cannot transfer in coursework directly into the Athletic Training major.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ATTR 53018	ETHICAL LEADERSHIP FOR HEALTH CARE	3
ATTR 60000	CADAVER ANATOMY AND APPLIED ASSESSMENT	6
ATTR 61000	ACUTE INJURY DIAGNOSIS, TREATMENT AND MANAGEMENT	3
ATTR 62010	CONTEMPORARY ISSUES AND EXAM PREP IN ATHLETIC TRAINING	3
ATTR 62014	ADVANCED CLINICAL PROCEDURES IN ATHLETIC TRAINING AND SPORTS MEDICINE	3
ATTR 62015	ORTHOPEDIC ASSESSMENT FOR THE ATHLETIC TRAINER	3
ATTR 62016	CLINICAL INQUIRY IN ATHLETIC TRAINING	3
ATTR 65001	CLINICAL PRACTICE I: PREVENTION AND WELLNESS	3
ATTR 65002	CLINICAL PRACTICE II: ADVANCED HEAD, NECK AND ORTHOPEDIC	3
ATTR 65003	CLINICAL PRACTICE III: GENERAL MEDICAL	3
ATTR 65005	CLINICAL PRACTICE IV: ADVANCED COMPETENCIES	3
ATTR 65036	GENERAL MEDICAL CONDITIONS IN ATHLETIC TRAINING	3
ATTR 65037	PHYSICAL AGENTS IN ATHLETIC TRAINING AND SPORTS MEDICINE	3
ATTR 65038	ADMINISTRATION CONCEPTS FOR THE HEALTHCARE PROFESSIONAL	3
ATTR 65039	PHYSICAL REHABILITATION IN ATHLETIC TRAINING AND SPORTS MEDICINE	3
ATTR 65040	PATHOPHARMACOLOGY FOR HEALTHCARE PROVIDERS	3
ATTR 65050	NEUROLOGICAL CONCEPTS FOR THE HEALTHCARE PROFESSIONAL	3
Culminating Requirement		
ATTR 69999	CLINICAL CAPSTONE IN ATHLETIC TRAINING	6
Minimum Total Credit Hours:		**60**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

First Year		
Summer		**Credits**
ATTR 60000	CADAVER ANATOMY AND APPLIED ASSESSMENT	6
ATTR 61000	ACUTE INJURY DIAGNOSIS, TREATMENT AND MANAGEMENT	3
ATTR 65037	PHYSICAL AGENTS IN ATHLETIC TRAINING AND SPORTS MEDICINE	3
	Credit Hours	**12**
Fall Semester		
ATTR 62015	ORTHOPEDIC ASSESSMENT FOR THE ATHLETIC TRAINER	3
ATTR 65001	CLINICAL PRACTICE I: PREVENTION AND WELLNESS	3
ATTR 65039	PHYSICAL REHABILITATION IN ATHLETIC TRAINING AND SPORTS MEDICINE	3
	Credit Hours	**9**
Spring Semester		
ATTR 65002	CLINICAL PRACTICE II: ADVANCED HEAD, NECK AND ORTHOPEDIC	3
ATTR 65036	GENERAL MEDICAL CONDITIONS IN ATHLETIC TRAINING	3
ATTR 65050	NEUROLOGICAL CONCEPTS FOR THE HEALTHCARE PROFESSIONAL	3
	Credit Hours	**9**
Second Year		
Summer		
ATTR 53018	ETHICAL LEADERSHIP FOR HEALTH CARE	3
ATTR 62014	ADVANCED CLINICAL PROCEDURES IN ATHLETIC TRAINING AND SPORTS MEDICINE	3
ATTR 62016	CLINICAL INQUIRY IN ATHLETIC TRAINING	3
ATTR 65003	CLINICAL PRACTICE III: GENERAL MEDICAL	3
	Credit Hours	**12**
Fall Semester		
ATTR 62010	CONTEMPORARY ISSUES AND EXAM PREP IN ATHLETIC TRAINING	3
ATTR 65005	CLINICAL PRACTICE IV: ADVANCED COMPETENCIES	3
ATTR 65040	PATHOPHARMACOLOGY FOR HEALTHCARE PROVIDERS	3
	Credit Hours	**9**
Spring Semester		
ATTR 65038	ADMINISTRATION CONCEPTS FOR THE HEALTHCARE PROFESSIONAL	3
ATTR 69999	CLINICAL CAPSTONE IN ATHLETIC TRAINING	6
	Credit Hours	**9**
	Minimum Total Credit Hours:	**60**

Program Learning Outcomes

Graduates of this program will be able to:

1. Successfully challenge the Board of Certification (BOC) national credentialing exam.
2. Demonstrate understanding of and competency in the domains of athletic training as defined by the BOC Practice Analysis and Commission on Accreditation of Athletic Training Education (CAATE). *2020 Standards for Accreditation of Professional Athletic Training Programs, Master's Degree Programs*.
3. Demonstrate competency in evaluating and completing scientific research and evidence-based practice.
4. Demonstrate competency in engaging in a variety of clinical practice settings related to athletic training with engagement in an inter-professional environment.
5. Apply the principles of the research process in athletic training.

Full Description

The Master of Science degree in Athletic Training prepares graduates for the athletic training profession. The program emphasizes both ethics and research across the curriculum to integrate theory to practice, and is designed to facilitate inter-professional practice as athletic trainers engage actively with professionals across the health care disciplines.

The Athletic Training major is a two-calendar year program with summer academic work. The curriculum focuses on building clinical and didactic knowledge and skills anchored in evidence-based practice, while developing strong research skills by developing not only critical analysis skills, but also investigative research skills. Students are exposed to and actively engage with state-of-the-art equipment in professional health care facilities and are mentored by highly recognized professionals. The program fosters inter-professional collaboration to promote professional development for the students who will be practicing and researching in inter-disciplinary teams. Students have the ability to critically evaluate and complete scientific research at the end of their academic program, in addition to preparing for the Board of Certification national credentialing examination.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Audiology - Au.D.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Doctor of Audiology degree program provides you with the theoretical knowledge and hands-on experience needed to excel in this rewarding field. With access to advanced technology and experienced faculty, you'll be prepared to diagnose and treat hearing and balance disorders and make a meaningful impact in patients' lives. Read more...

Contact Information

- **Cara O'Flannigan** | coflanni@kent.edu | 330-672-2141
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Audiologists

- 13.3% much faster than the average
- 13,800 number of jobs
- $81,030 potential earnings

Health specialties teachers, postsecondary

- 20.5% much faster than the average
- 254,000 number of jobs
- $99,090 potential earnings

Accreditation

The Doctor of Audiology degree in Audiology (residential) at Kent State University is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association, 2200 Research Boulevard, #310, Rockville, MD 20850, 800-498-2071 or 301-296-5700.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Northeast Ohio Audiology Consortium through Kent State University needs to be submitted through the Communication Sciences and Disorders Centralized Application Services (CSDCAS) by the application deadline.

- Bachelor's degree or higher from an accredited college or university (not necessarily in speech-language pathology and audiology)
- Minimum 3.000 GPA on a 4.000-point scale
- Official college transcript(s)
- Goal statement
- Three letters of recommendation
- Interview during NOAC Visitation Day or remote videoconference when unable to attend this event
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: January 15
    Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
SPA 70192	GRADUATE AUDIOLOGIST I	3
SPA 70292	GRADUATE AUDIOLOGIST II	3
SPA 70392	GRADUATE AUDIOLOGIST III	6
SPA 70492	GRADUATE AUDIOLOGIST IV	8
SPA 70592	GRADUATE AUDIOLOGIST V	8
SPA 70615	CENTRAL AUDITORY PROCESSING EVALUATION AND MANAGEMENT	2
SPA 70616	HEARING AID FITTING AND SELECTION ACROSS THE LIFESPAN	4
SPA 70618	IMPLANTABLE TECHNOLOGY	4
SPA 70627	MULTICULTURAL ISSUES IN AUDIOLOGY	2
SPA 70630	PRACTICE MANAGEMENT IN AUDIOLOGY	3
SPA 70691	SEMINAR IN AUDIOLOGY	2
SPA 70701	BASIC AND APPLIED PHYSICAL ACOUSTICS FOR AUDIOLOGY	4
SPA 70702	ANATOMY AND PHYSIOLOGY OF PERIPHERAL AUDITORY AND VESTIBULAR SYSTEMS	4
SPA 70703	SPEECH ACOUSTICS AND SPEECH PERCEPTION	2
SPA 70704	CRITICAL ANALYSIS OF RESEARCH IN AUDIOLOGY	2
SPA 70705	AUDITORY DISORDERS	2
SPA 70706	ANATOMY AND PHYSIOLOGY UNDERLYING NEURO-OTOLOGY	4
SPA 70707	PSYCHOACOUSTICS	3
SPA 70708	CRITICAL ANALYSIS OF RESEARCH	2
SPA 70709	AUDIOLOGIC ASSESSMENT	3
SPA 70710	INDUSTRY AND COMMUNITY NOISE	3
SPA 70712	DIAGNOSIS OF AUDITORY DISORDERS	3
SPA 70713	HEARING AID TECHNOLOGY	4
SPA 70714	GERONTOLOGICAL ISSUES IN AUDIOLOGY	3
SPA 70717	PEDIATRIC AUDIOLOGY	3
SPA 70719	COUNSELING IN AUDIOLOGY	3
SPA 70721	EVALUATION AND MANAGEMENT OF BALANCE DISORDERS	3

SPA 70725	MEDICAL MANAGEMENT OF AUDITORY DISORDERS	2
SPA 70726	ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY	3
SPA 70732	AUDIOLOGIC TREATMENT ACROSS THE LIFESPAN	4
SPA 70733	ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES	4
SPA 70734	PRINCIPLES IN PRECEPTING	1
SPA 70753	LABORATORY FOR ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY	1
SPA 70754	LABORATORY FOR EVALUATION AND MANAGEMENT OF BALANCE DISORDERS	1
SPA 70755	LABORATORY FOR ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES	1
SPA 70791	FOURTH YEAR SEMINAR (course is repeatable)	2
SPA 70892	INTERNSHIP III	2
SPA 70992	INTERNSHIP IV	2
SPA 74592	CLERKSHIP I	1
SPA 74692	CLERKSHIP II	1
SPA 75792	INTERNSHIP I	1
SPA 76792	INTERNSHIP II	1
Minimum Total Credit Hours:		**120**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Accrue 2000 clock hours of clinical experience
- Meet the requirements for conditional Ohio licensure in audiology
- Pass academic and clinical competency-based examinations

Clinical Setting

For any clinical practicum (on campus or off campus) in speech pathology or audiology that requires candidates to be placed within the on-campus speech and hearing clinics. school or agency setting, candidates are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned clinic/school/agency before the beginning of their placement or the first day of the semester in which the practicum will take place. Authorized school/agency personnel will determine whether a candidate may participate in practicum in the off-campus setting. The BCII and FBI background checks are good for one year, and the candidates will need to complete one each year that they are in the Au.D. degree.

Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed one month prior to clinical practicum. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the clinical coordinators for the Speech and Hearing Clinics. Visit the Ohio Department of Education website for more information about background check requirements for those wishing to hold pupil personnel licenses in Ohio. Contact the Office of Professional Conduct at the Ohio Department of Education for specific information about the results of the background check.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a broad-based knowledge of the foundations, theories and application of audiology.
2. Demonstrate clinical competencies in the prevention, diagnosis and treatment of hearing and balance disorders.
3. Demonstrate knowledge of research principles and their integration into evidence-based clinical practice in audiology.
4. Demonstrate knowledge and skills in the principles and practices of patient and family-centered care.
5. Demonstrate knowledge of the ethical standards and conduct expected in the profession of audiology.

Full Description

The Doctor of Audiology degree is a professional doctorate that prepares students to be licensed clinical audiologists. The program emphasizes the principles and practices underlying evaluation, treatment and provision of hearing care services. Graduates are independent professionals who specialize in the diagnosis, management and treatment of hearing and balance disorders.

The Au.D. degree is a full-time, continuous, 45-month, post-baccalaureate course of study designed to integrate classroom, laboratory and clinical experiences, culminating in the qualification for national certification and state (Ohio) licensure as an audiologist. All students attend full-time and take a fixed sequence of classroom- and clinic-based courses.

This program may be undertaken sequentially with Ph.D. in Communication Sciences and Disorders.

The Au.D. degree in Audiology is offered in affiliation with the Cleveland Clinic and the University of Akron.

Audiology - M.A.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Master of Arts degree in Audiology is an advanced non-clinical degree program designed for those students seeking careers in hearing and acoustics. Those interested in becoming a licensed clinical audiologist should apply to the Doctor of Audiology degree program.

Contact Information

- **Cara O'Flannigan** | coflanni@kent.edu | 330-672-2141
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Medical scientists, except epidemiologists

- 6.1% faster than the average
- 138,300 number of jobs
- $91,510 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university (not necessarily in speech-language pathology and audiology)
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official college transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Courswork in consultation with academic faculty advisor		30
Minimum Total Credit Hours:		**30**

Clinical Settings

For any clinical practicum (on campus or off campus) in speech pathology or audiology that requires candidates to be placed within the on-campus speech and hearing clinics, school or agency setting, the SPA program requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background check and submit the results to authorized personnel at their assigned clinic/school/agency before the beginning of their placement or the first day of the semester in which the practicum will take place. Authorized school/agency personnel will determine whether a candidate may participate in practicum in the off-campus setting. The BCII and FBI background checks are good for one year and the candidates will need to complete one each year that they are in graduate school.

Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed one month prior to clinical practicum. Candidates are responsible for fees incurred for this requirement. For more information on this policy contact the Clinical Coordinators for the Speech and Hearing Clinics. Visit the Ohio Department of Education website for more information about background check requirements for those wishing to hold pupil personnel licenses in Ohio. Contact the Office of Professional Conduct at the Ohio Department of Education for specific information about the results of the background check.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Audiology - Ph.D.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Ph.D. degree in Audiology provides the student with a strong theoretical background and research competencies in communication processes and/or disorders and is ideal for those interested academic and research careers in communication sciences. This program may be undertaken simultaneously or sequentially with the Doctor of Audiology degree. Read more...

Contact Information

- **Julia Hyuck** | jhuyck@kent.edu | 330-672-0249
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the Ph.D. in Audiology are not being accepted at this time.

Examples of Possible Careers and Salaries*

Audiologists

- 13.3% much faster than the average
- 13,800 number of jobs
- $81,030 potential earnings

Health specialties teachers, postsecondary

- 20.5% much faster than the average
- 254,000 number of jobs
- $99,090 potential earnings

Medical scientists, except epidemiologists

- 6.1% faster than the average
- 138,300 number of jobs
- $91,510 potential earnings

Speech-language pathologists

- 24.9% much faster than the average
- 162,600 number of jobs
- $80,480 potential earnings

Accreditation

Council on Academic Accreditation in Audiology and Speech-Language Pathology

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Ph.D. inAudiology are not being accepted at this time.

- Bachelor's degree or higher from an accredited college or university (not necessarily in speech-language pathology and audiology)
- Minimum 3.000 GPA on a 4.000-point scale (minimum 3.500 graduate GPA is recommended)
- Official college transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Major Area of Study [1]		24
Two Cognate Areas of Study [2]		15
Statistics and Research Design Coursework		6
Culminating Requirement		
SPA 84199	DISSERTATION I [3]	30
Minimum Total Credit Hours:		**75**

[1] This collection of coursework relates to the students' main areas of interest. It typically consists of lecture classes, seminars and independent studies. Included within the 24 credit hours are 4 credit hours of colloquium and 3 credit hours of research design. The colloquium provides information about areas that are of common interest to doctoral students regardless of specialties. Included are such topics as grant and manuscript writing, clinical and departmental administration, supervision and professional presentations.

[2] Courses that complement the students' interests in the cognates may be taken in other program areas (such as psychology, business, biology, counseling and special education); within speech pathology and audiology; or from an affiliated medical school.

[3] Upon admission to candidacy, each doctoral candidate must register for SPA 84199. It is expected that a doctoral candidate will continuously register for SPA 84199 for a total of 30 credit hours, and thereafter SPA 84299, each semester until all requirements for the degree have been met.

Comprehensive Examination

Students who have not completed a master's thesis are required to complete and defend a research project prior to taking their comprehensive examination. Students must maintain a minimum 3.000 overall grade point average throughout the program. After completion of doctoral coursework, students take the candidacy examinations, consisting of both written and oral portions. The written portion entails 16-20 hours of writing on material studies within the major and minor concentrations as predetermined by the examination committee. The oral portion occurs two to four weeks later and can cover pertinent general information in addition to that covered on the written portion. Successful completion of these examinations culminates in "admission to candidacy" and allows the candidate to begin work on the dissertation.

Clinical Setting

For any clinical practicum (on campus or off campus) in speech pathology or audiology that requires candidates to be placed within the on-campus speech and hearing clinics, school or agency setting, the SPA program requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background check and submit the results to authorized personnel at their assigned clinic/school/agency before the beginning of their placement or the first day of the semester in which the practicum will take place. Authorized school/agency personnel will determine whether

a candidate may participate in practicum in the off-campus setting. The BCII and FBI background checks are good for one year and the candidates will need to complete one each year that they are in graduate school.

Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed one month prior to clinical practicum. Candidates are responsible for fees incurred for this requirement. For more information on this policy contact the Clinical Coordinators for the Speech and Hearing Clinics. Visit the Ohio Department of Education website for more information about background check requirements for those wishing to hold pupil personnel licenses in Ohio. Contact the Office of Professional Conduct at the Ohio Department of Education for specific information about the results of the background check.

Licensure Information

Candidates seeking Audiology licensure are required to pass Praxis II test Audiology.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate competency within one major and two cognate areas of expertise.
2. Demonstrate skills necessary to develop, implement and evaluate a line of individual research.
3. Demonstrate oral and written communication skills and synthesis / application of materials needed to teach within a clinical and/or didactic context.

Full Description

The Ph.D. degree in Audiology provides the student with a strong theoretical background and research competencies in communication processes and/or disorders and is ideal for those interested academic and research careers in communication sciences. This program may be undertaken simultaneously or sequentially with the Doctor of Audiology degree.

Students may be in the Ph.D. program on a part-time basis; however, all students must meet a residency requirement with two consecutive semesters of full-time enrollment prior to acceptance into candidacy.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Communication Sciences and Disorders - Ph.D.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Ph.D. degree in Communication Sciences and Disorders provides the student with a strong theoretical background and competency in research skills applicable to communication (audiology, speech, language, cognition and/or swallowing) processes and/or disorders. The program ideal for those interested in academic and research careers in communication sciences or disorders. The curriculum and plan of study are individualized and collectively planned between the student and the doctoral committee.

Contact Information

- **Cara O'Flannigan** | coflanni@kent.edu | 330-672-2141
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Health specialties teachers, postsecondary

- 20.5% much faster than the average
- 254,000 number of jobs
- $99,090 potential earnings

Medical scientists, except epidemiologists

- 6.1% faster than the average
- 138,300 number of jobs
- $91,510 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university (not necessarily in areas of speech-language pathology and audiology)
- Bachelor's degree (not necessarily in areas of speech-language pathology and audiology)
- Minimum 3.000 undergraduate GPA on a 4.000-point scale (minimum 3.500 GPA is recommended)
- Official transcript(s)
- Goal statement
- Three letters of recommendation

- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Funding deadline: January 15
    Applications must be submitted by this deadline to be considered for an assistantship or any other funded position.
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Area of Study [1]		24
Electives [2]		12
Statistics and Research Design Coursework [3]		9
Culminating Requirement		
SPA 84199	DISSERTATION I [4]	30
Minimum Total Credit Hours:		**75**

[1] Concentration Area of Study: This collection of coursework relates to the students' main areas of interest. It must consist of a combination of lecture classes or seminars, courses in grant or manuscript writing and independent studies and/or research. These courses are meant to build upon the students' interests in a selected major area of study, and courses may be taken in other program areas (such as psychology, English, business, biology, counseling, special education, computer science, etc.); within speech-language pathology and audiology; or from an affiliated medical school. With the exception of allowed transfer credits, all courses must be taken at the doctoral 7/80000 level. Additional prerequisite coursework may be required at a lower level; this coursework would not count towards the 24 credit hours.

[2] Electives: Included within the 12 credit hours may be courses or independent studies related to student interests, including additional (non-concentration) academic or clinical areas of interest, interprofessional or cross-disciplinary topics and/or additional training in research methods, statistics or writing.

[3] Statistics and Research Methods: Each doctoral candidate must register and complete no less than two graduate-level statistics courses and no less than one advanced research methods course. Required statistics courses should include a focus on inferential statistics, including regression. Advanced research methods should include an advanced research methods course that covers both quantitative and/or qualitative approaches.

[4] Upon admission to candidacy, each doctoral candidate must register for SPA 84199. It is expected that a doctoral candidate will continuously register for Dissertation I each semester (fall, spring) for a total of 30 credit hours, and thereafter will register for SPA 84299, each semester (fall, spring) until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students may graduate with the Ph.D. degree with fewer than 75 total credit hours but no fewer than 60 total credit hours. Students may receive permission by graduate faculty to waive coursework if supported by the appropriate and recent coursework.

Program Learning Outcomes

Graduates of this program will be able to:

1. Develop, implement and evaluate a line of individual and collaborative research.
2. Teach within a clinical and/or didactic context.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Community Health Education - B.S.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Community Health Education B.S. program prepares you for a rewarding career in promoting health and wellness in communities, organizations and schools. With a focus on evidence-based practices, community-based research, and practical skills, the Community Health Education program will equip you with the knowledge and experience needed to make a positive impact on people's lives. Read more...

Contact Information

- **Laurie M. Wagner, MCHES** | lyoo@kent.edu | 330-672-0685
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Health education specialists

- 11.4% much faster than the average
- 62,200 number of jobs
- $56,500 potential earnings

Community and social service specialists, all other

- 11.7% much faster than the average
- 105,200 number of jobs
- $46,770 potential earnings

Community health workers

- 15.2% much faster than the average
- 64,900 number of jobs
- $42,000 potential earnings

Medical and health services managers

- 31.5% much faster than the average
- 422,300 number of jobs
- $104,280 potential earnings

Additional Careers

- Certified Health Education Specialist
- Community Health Educator
- Community Health Education Coordinator
- Diabetes Educator
- Health Educator
- Public Health Educator

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

<<use standard admission language for undergraduates>>

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
HED 11570	PERSONAL HEALTH (min C grade)	3
HED 11590	COMMUNITY HEALTH EDUCATION (min C grade)	3
HED 21030	INTRODUCTION TO HEALTH EDUCATION (min C grade)	3
HED 21050	HEALTH EDUCATION THEORIES (min C grade)	3
HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC) (min C grade)	5
HED 32544	HUMAN SEXUALITY (min C grade)	3
HED 32565	MARKETING IN HEALTH EDUCATION (min C grade)	3
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION (min C grade)	3
HED 44092	INTERNSHIP IN COMMUNITY HEALTH EDUCATION (ELR) (min S grade)	9
Data Analysis Elective, choose from the following (min C grade):		3-4
PH 30002	INTRODUCTORY BIOSTATISTICS	
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	
SOC 32220 & SOC 32221	DATA ANALYSIS and DATA ANALYSIS LABORATORY	
Additional Requirements (courses do not count in major GPA)		
BSCI 10001	HUMAN BIOLOGY (KBS) (min C grade)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
ETEC 47400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
or ETEC 47427	TECHNOLOGY AND LEARNING	
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
MDJ 26001	WRITING FOR MEDIA	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
or PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	
PWS 10035	LIFETIME FITNESS	2
UC 10001	FLASHES 101	1
Health Education (HED) Electives, choose from the following:		18
HED 14020	MEDICAL TERMINOLOGY	
HED 32530	DRUG USE AND MISUSE	
HED 32575	CONSUMER HEALTH	
HED 34060	SMALL GROUP PROCESS	
HED 42041	HEALTH COACHING	
HED 42222	ADULTING 101: SEVEN DIMENSIONS TO A HEALTHY ADULTHOOD	
HED 42779	HAPPINESS AND HEALTH	
HED 44025	WOMEN'S HEALTH ISSUES	
HED 44030	GAMBLING, GAMING AND HEALTH	
HED 44544	SEXUALITY EDUCATION PROGRAMS	
HED 44550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	
HED 46052	STRESS: RECOGNITION AND MANAGEMENT	
HED 46057	ADVANCED HUMAN SEXUALITY	
HED 47070	AIDS: ISSUES, EDUCATION AND PREVENTION	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences Laboratory		1
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		12
Minimum Total Credit Hours:		**120**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.750	2.750

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	HED 11590	COMMUNITY HEALTH EDUCATION	3
	UC 10001	FLASHES 101	1
	Health Education (HED) Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	HED 11570	PERSONAL HEALTH	3
	PHIL 11001 or PHIL 21001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) or INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
	PWS 10035	LIFETIME FITNESS	2
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Three		
	BSCI 10001	HUMAN BIOLOGY (KBS)	3
!	HED 21030	INTRODUCTION TO HEALTH EDUCATION	3
	HED 21050	HEALTH EDUCATION THEORIES	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	HED 32544	HUMAN SEXUALITY	3
	Data Analysis Elective		3-4
	General Electives		9
		Credit Hours	**15**
	Semester Five		
	ETEC 39525	EDUCATIONAL TECHNOLOGY	3
!	HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	5
	NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
	Health Education (HED) Elective		3
		Credit Hours	**14**
	Semester Six		
	HED 32565	MARKETING IN HEALTH EDUCATION	3
	HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
	MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
	PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
	Kent Core Requirement		1
	General Elective		3
		Credit Hours	**16**
	Semester Seven		
	ETEC 47427 or ETEC 47400	TECHNOLOGY AND LEARNING or TRENDS IN EDUCATIONAL TECHNOLOGY	3
	MDJ 26001	WRITING FOR MEDIA	3
	Health Education (HED) Electives		9
		Credit Hours	**15**
	Semester Eight		
	HED 44092	INTERNSHIP IN COMMUNITY HEALTH EDUCATION (ELR)	9
	Health Education (HED) Elective		3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of the program will be able to:

1. Conduct strategic planning, analyze the organization`s culture in relationship to program goals, facilitate cooperation between and

among levels of program personnel, formulate practical modes of collaboration among health agencies and organizations and develop volunteer opportunities.

2. Exhibit competence in carrying out planned educational programs; employ a wide range of educational methods and techniques, apply individual and group process methods as appropriate to given learning situations and select methods that best facilitate the practice of program objectives; infer enabling objectives as needed to implement instructional programs in specified settings, select methods and media best suited to implement program plans for specific learners and determine the availability of information, personnel, time and equipment needed to implement the program for a given audience; monitor educational programs, adjusting objectives and activities as necessary; and use the code of ethics in professional practice.
3. Analyze factors that influence decision-makers, assess the appropriateness of language in health education messages and select a variety of communication methods and techniques in providing health information; demonstrate proficiency in communicating health information and health education needs and respond to public input regarding health education information; identify the significance and implications of health care providers` messages to consumers; and develop a personal plan for professional growth.
4. Utilize computerized health information retrieval systems effectively and match an information need with the appropriate retrieval system; access online and other health information resources and interpret and select effective educational resource materials for dissemination; assemble educational material of value to the health of individuals and community groups, evaluate the worth and applicability of resource materials for given audiences and refer requesters to valid sources of information; and apply various processes in the acquisition of resource materials, compare different methods for distributing educational materials and analyze parameters of effective consultative relationships.
5. Obtain health-related data about social and cultural environments, growth and development factors, needs and interests, select valid sources of information about health needs and interests and utilize computerized sources of health-related information; employ or develop appropriate data-gathering instruments; distinguish between behaviors that foster and those that hinder well-being and investigate physical, social, emotional and intellectual factors that influence health behaviors; and analyze needs assessments.
6. Synthesize information presented in the literature, develop plans to assess achievement of program objectives, determine standards of performance to be applied as criteria of effectiveness and select appropriate methods for evaluating program effectiveness; carry out evaluation plans, utilize data collecting methods appropriate to the objectives and analyze resulting evaluation data; and interpret results of program evaluation and infer implications from findings for future program planning.
7. Communicate need for the program to those who will be involved; develop a logical scope and sequence plan for a health education program; organize the subject areas comprising the scope of a program in logical sequence; formulate appropriate and measurable program objectives, design educational programs consistent with specified program objectives; match proposed learning activities with those implicit in the stated objectives; select strategies best suited to implementation of educational objectives in a given setting; and plan a sequence of learning opportunities building upon and reinforcing mastery of preceding objectives.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science degree in Community Health Education gives students the necessary tools to plan, implement and evaluate health education programs for individuals, communities and groups. The major features a capstone internship experience during which the student works with a health educator in a community setting. The program qualifies students to take the Certified Health Education Specialist Exam administered by the National Commission for Health Education Credentialing.

State/Federal background checks may be required for practicum/internship experiences.

Community Health Education - Minor

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Community Health Education minor is for students seeking to have increased understanding of health issues in the community setting. This minor complements students with a major or an interest in the social sciences, or who plan to work in community settings, such as non-profit or voluntary agencies.

Contact Information

- **Laurie M. Wagner, MCHES** | lyoo@kent.edu | 330-672-0685
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Students declared in the School Health Education major may not declare the Community Health Education minor.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
HED 11570	PERSONAL HEALTH	3
HED 11590	COMMUNITY HEALTH EDUCATION	3
HED 21030	INTRODUCTION TO HEALTH EDUCATION	3
HED 21050	HEALTH EDUCATION THEORIES	3
HED 32530	DRUG USE AND MISUSE	3
or HED 32544	HUMAN SEXUALITY	
HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	5
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
HED 42041	HEALTH COACHING	3
Minimum Total Credit Hours:		**26**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Exercise Physiology - M.S.

College of Education Health and Human Services
School of Health Sciences

www.kent.edu/ehhs/hs

About This Program

Become a leader in exercise physiology with Kent State's master's degree. Our rigorous program is designed to prepare you for a successful career in academia or research. With access to cutting-edge facilities and expert faculty, you'll gain the knowledge and experience needed to make an impact in the field. Read more...

Contact Information

- **Jake Barkley** | jbarkle1@kent.edu
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Medical scientists, except epidemiologists

- 6.1% faster than the average
- 138,300 number of jobs
- $91,510 potential earnings

Additional Careers

- Strength and Conditioning Coach

Accreditation

National Strength and Conditioning Association (NSCA) Education Recognition Program

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree in exercise science, or equivalent preparation, from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Degree applicants are expected to have substantial preparation in the sciences, usually including coursework in biology, chemistry, physics, mathematics, anatomy, kinesiology and exercise physiology.

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ATTR 53018	ETHICAL LEADERSHIP FOR HEALTH CARE	3
EXPH 63050	RESEARCH PROCESS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	3
EXPH 63051	QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	3
EXPH 63091	RESEARCH SEMINAR	1
EXPH 65081	ENERGY METABOLISM AND BODY COMPOSITION	3
EXPH 65084	CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE	3
Major Electives, choose from the following:		9
BSCI 50020	BIOLOGY OF AGING	
BSCI 50431	NEUROENDOCRINOLOGY	
EXPH 50612	EXERCISE LEADERSHIP FOR THE OLDER ADULT	
EXPH 55065	EXERCISE TESTING	
EXPH 55070	ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST	
EXPH 55081	ADVANCED PHYSIOLOGY OF EXERCISE	
EXPH 60610	PHYSIOLOGY OF AGING: IMPLICATIONS FOR HUMAN BEHAVIOR	
EXPH 63098	RESEARCH	
EXPH 65080	PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT	
EXPH 65086	NEUROBIOLOGY OF MOVEMENT AND EXERCISE	

NUTR 63518	ADVANCED SPORTS NUTRITION	
Addtional electives chosen in consultation with advisor		
Culminating Requirement		
Choose from the following:		6
EXPH 63098 & EXPH 65192	RESEARCH and INTERNSHIP IN EXERCISE PHYSIOLOGY	
EXPH 63199	THESIS I	
EXPH 65192	INTERNSHIP IN EXERCISE PHYSIOLOGY	
Minimum Total Credit Hours:		**31**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Only in rare instances does a student fulfill the educational and research expectations within the minimum credit-hour requirement for this degree. Any deficiencies for a doctoral academic preparation must be corrected very early in the approved academic program.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe physiological responses to exercise for a variety of populations and conditions related to human performance.
2. Apply the knowledge, skills and abilities needed to assess, motivate and prescribe exercise or strength and conditioning as appropriate for an exercise physiologist.
3. Utilize statistical methods to analyze and interpret data applicable to the exercise physiology field.

Full Description

The Master of Science degree in Exercise Physiology prepares graduates for a wide variety of career options, including exercise prescription and research, as well as future doctoral study. Representative faculty research includes the areas of body composition, metabolism/nutritional requirements, environment, clinical exercise physiology and the physiology of aging as it is influenced by physical activity and fitness.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Exercise Physiology - Ph.D.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Ph.D. degree in Exercise Physiology prepares students for a wide variety of career options, including exercise prescription and research. The program develops the competencies needed for those who intend to teach exercise physiology, pursue research or apply exercise physiology in practice.

Contact Information

- **Jake Barkley** | jbarkle1@kent.edu
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Exercise physiologists

- 11.3% much faster than the average
- 19,800 number of jobs
- $50,280 potential earnings

Medical scientists, except epidemiologists

- 6.1% faster than the average
- 138,300 number of jobs
- $91,510 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Previous degree in exercise science or equivalent preparation
- Minimum 2.750 graduate GPA on a 4.000-point scale (minimum 3.500 GPA is recommended) *starting with spring 2026 admission term, minimum 3.000 graduate GPA will be required*
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement

- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
EXPH 73050	RESEARCH PROCESSES IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	3
EXPH 73051	QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	3
EXPH 73091	RESEARCH SEMINAR (taken twice) [1]	2
Exercise Physiology Electives, choose from the following:		9
EXPH 75075	MUSCLE FUNCTION AND EXERCISE	
EXPH 75076	ENVIRONMENTAL STRESS AND EXERCISE	
EXPH 75081	ENERGY METABOLISM AND BODY COMPOSITION	
EXPH 75084	CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE	
Physiology Electives, choose from the following:		6
EXPH 70610	PHYSIOLOGY OF AGING:IMPLICATIONS FOR HUMAN BEHAVIOR	
EXPH 75080	PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT	
EXPH 75086	NEUROBIOLOGY OF EXERCISE AND MOVEMENT	
Additional electives as approved by faculty advisor		
Culminating Requirement		
EXPH 83098	RESEARCH	12
EXPH 83199	DISSERTATION I [2]	30
Minimum Total Credit Hours:		**65**

[1] Students must enroll in EXPH 73091 for two semesters.

[2] Upon admission to candidacy, each doctoral candidate must register for EXPH 83199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter EXPH 83299, each semester until all requirements for the degree have been met. The dissertation must show that the student has the competency to conduct research in a discriminating and original manner. The quality of the dissertation must be such that one or more articles acceptable for publication in a professional journal may be expected to be derived from it.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Only in rare instances does a student fulfill the educational and research expectations within the minimum-credit-hour requirement for this degree. Any deficiencies in a doctoral student's academic preparation must be corrected very early in the approved academic program.

Candidacy Examination

Students will be required to pass an oral and written candidacy examination after coursework is completed before beginning their dissertation. Prior to taking the candidacy examination, the student must demonstrate his or her ability to conduct independent research related to the field of exercise physiology. This may be in the form of a completed thesis, an independent study project or an article published in an acceptable research journal. The acceptability of such evidence is to be determined by faculty advising students in exercise physiology.

Program Learning Outcomes

Graduates of this program will be able to:

1. Execute original research within the field of exercise physiology for publication or presentation.
2. Understand physiological responses to exercise for a variety of populations and conditions.
3. Statistically analyze and interpret research in the field of exercise physiology.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Exercise Science - B.S.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Exercise Science B.S. program focuses on the scientific study of human movement and exercise, preparing students for careers in fields such as sports performance, rehabilitation, fitness and health promotion. You'll learn from experienced faculty members and gain hands-on

experience through internships, research opportunities and our state-of-the-art exercise science lab. Read more...

Contact Information

- **Adam Jajtner** | ajajtner@kent.edu (ajajtner@kent.edu,)
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Locations:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Exercise physiologists

- 11.3% much faster than the average
- 19,800 number of jobs
- $50,280 potential earnings

Physical therapists

- 18.2% much faster than the average
- 258,200 number of jobs
- $91,010 potential earnings

Additional careers

- Strength and Conditioning Coach
- Exercise specialist

Careers requiring additional education

- Pre-Physical/Occupational
- Therapy/Podiatric Medicine
- Exercise physiologist
- Physical therapist

Accreditation

Commission on Accreditation of Allied Health Education Programs, Committee on Accreditation for the Exercise Sciences

National Strength and Conditioning Education Recognition Program

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ATTR 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	2
or EXSC 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	
or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	
ATTR/EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) [1]	4
ATTR/EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) [1]	4
ATTR/EXSC 35054	BIOMECHANICS	3
EXSC 35080	PHYSIOLOGY OF EXERCISE	4
EXSC 35068	STATISTICS FOR THE EXERCISE SCIENTIST [2]	3
EXSC 45065	EXERCISE TESTING [3]	3
or EXSC 45070	ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST	

EXSC 45081	ADVANCED PHYSIOLOGY OF EXERCISE (WIC) [4]	3
EXSC 45481	SEMINAR IN EXERCISE PHYSIOLOGY	1
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	3
or PESP 25033	LIFESPAN MOTOR DEVELOPMENT	
PH 30015	UNITED STATES HEALTH CARE SYSTEM	3
or SPAD 35025	FACILITY MANAGEMENT	
SEPP 20026	PSYCHOLOGICAL FOUNDATIONS OF SPORT AND EXERCISE	3
Additional Requirements (courses do not count in major GPA)		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Concentrations		
Choose from the following:		49
Exercise Physiology		
Exercise Specialist		
Pre-Physical/Occupational Therapy/Podiatric Medicine		
Strength and Conditioning Concentration		
Minimum Total Credit Hours:		**120**

1 Students who have successfully completed BSCI 11010/BSCI 11020 or BSCI 21010/BSCI 21020 may use those courses in place of ATTR 25057/ATTR 25058 and EXSC 25057/EXSC 25058.

2 Students who have successfully completed MATH 12022 or PSYC 21621 may use those courses in place of EXSC 35068.

3 EXSC 45065 is strongly recommended for students in the Strength and Conditioning concentration. Students in the Exercise Specialist concentration are required to take both courses; one will fulfill major requirements and the other will fulfill concentration requirements.

4 A minimum C grade must be earned to fulfill writing-intensive requirement.

Exercise Physiology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ATTR 25036	RESPONDING TO EMERGENCIES	3
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
or CHEM 30481	ORGANIC CHEMISTRY I	
EXSC 35040	PRACTICAL AND APPLIED CONCEPTS OF STRENGTH AND CONDITIONING	3
EXSC 45022	EXERCISE LEADERSHIP [1]	2
or EXSC 45023	PROFESSIONAL CERTIFICATE PREPARATION	
EXSC 45096	INDIVIDUAL INVESTIGATION IN EXERCISE SCIENCE (ELR) [2]	3
NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	3
Additional Requirements (courses do not count in major GPA)		
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [3]		28
Minimum Total Credit Hours:		**49**

1 For *Exercise Leadership,* the final exam is the American College of Sports Medicine Certified Exercise Physiologist (ACSM-EP) certification. This certification requires that you be in your last semester of your senior year. For *Professional Certification Preparation,* the final exam is the National Strength and Conditioning Association's Certified Strength and Conditioning Specialist (CSCS). This certification requires that you are in the last year of the program.

2 This course can be taken 1-6 credits. It is repeatable up to 6 credits (45 contact hours per credit).

3 Students are strongly encouraged to meet with faculty advisor when selecting electives.

Exercise Specialist Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ATTR 25036	RESPONDING TO EMERGENCIES	3
ATTR 45040	PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS	3
or EXSC 34000	EXERCISE SCIENCE FOR ESPORTS	
EXSC 35040	PRACTICAL AND APPLIED CONCEPTS OF STRENGTH AND CONDITIONING	3
EXSC 35075	EXERCISE PROGRAMMING	3
EXSC 40612	EXERCISE LEADERSHIP FOR THE OLDER ADULT	3
EXSC 45022	EXERCISE LEADERSHIP [1]	2
or EXSC 45023	PROFESSIONAL CERTIFICATE PREPARATION	
EXSC 45040	ADVANCED STRENGTH AND CONDITIONING	3
EXSC 45065	EXERCISE TESTING [2]	3
or EXSC 45070	ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST	
EXSC 45492	INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR) [3]	3
Additional Requirements (courses do not count in major GPA)		
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [4]		20
Minimum Total Credit Hours:		**49**

1 For *Exercise Leadership*, the final exam is the American College of Sports Medicine Certified Exercise Physiologist (ACSM-EP) certification. This certification requires that you be in your last semester of your senior year. For *Professional Certification Preparation*, the final exam is the National Strength and Conditioning Association's Certified Strength and Conditioning Specialist (CSCS). This certification requires that you are in the last year of the program.

2 EXSC 45065 and EXSC 45070 are both required for students in the Exercise Specialist concentration; one fulfills major requirements and the other fulfills concentration requirements.

3 State or Federal background checks may be required for practicum/internship experiences. This course can be taken for 1-8 credits and is repeatable up to 8 credits (45 contact hours per credit).

[4] Students are strongly encouraged to meet with faculty advisor when selecting electives.

Pre-Physical/Occupational Therapy/Podiatric Medicine Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
EXSC 43098	RESEARCH IN EXERCISE SCIENCE (ELR) [2]	3
or EXSC 45492	INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR)	
HED 14020	MEDICAL TERMINOLOGY	3
NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
PSYC 40111	PSYCHOPATHOLOGY	3
Chemistry Elective, choose from the following (depending on career goals):		4-8
CHEM 20481	BASIC ORGANIC CHEMISTRY I	
CHEM 30481 & CHEM 30482 & CHEM 30475 & CHEM 30476	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY I (ELR) and ORGANIC CHEMISTRY LABORATORY II [3]	
Additional Requirements (courses do not count in major GPA)		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [4]		9
Minimum Total Credit Hours:		**49**

[1] This course can be taken for 1-3 credits and is repeatable up to 12 credits (45 contact hours per credit).

[2] State or Federal background checks may be required for practicum/internship experiences. This course can be taken for 1-8 credits and is repeatable up to 8 credits (45 contact hours per credit).

[3] Organic Chemistry series recommended for those students planning to apply to the Doctor of Podiatric Medicine degree.

[4] Students are strongly encouraged to meet with faculty advisor when selecting electives. Maximum 9 credit hours from the Doctor of Podiatric Medicine degree can be used to fulfill general electives for students admitted to the combined bachelor's/doctoral degree program.

Strength and Conditioning Concentration Requirements

Code	Title	Credit Hours
ATTR 25036	RESPONDING TO EMERGENCIES	3
EXSC 35075	EXERCISE PROGRAMMING	3
EXSC 35040	PRACTICAL AND APPLIED CONCEPTS OF STRENGTH AND CONDITIONING	3
EXSC 45023	PROFESSIONAL CERTIFICATE PREPARATION [1]	2
EXSC 45040	ADVANCED STRENGTH AND CONDITIONING	3
EXSC 45492	INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR)	6
NUTR 23520	SPORTS NUTRITION	3
SEPP 40020	HIGH PERFORMANCE ATHLETES IN SPORT	3
Additional Requirements (courses do not count in major GPA)		
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [3]		20
Minimum Total Credit Hours:		**49**

[1] The final exam is the National Strength and Conditioning Association's Certified Strength and Conditioning Specialist. This certification requires that you are in the last year of the program.

[2] State or Federal background checks may be required for practicum/internship experiences. This course can be taken for 1-8 credits and is repeatable up to 8 credits (45 contact hours per credit).

[3] Students are strongly encouraged to meet with faculty advisor when selecting electives.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- Admission into physical therapy or occupational therapy graduate programs is competitive by GPA.

Roadmaps

Exercise Physiology Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ATTR 15003 or EXSC 15003 or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES	2
MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Two		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**14**

Semester Three		
ATTR 25057 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
EXSC 45481	SEMINAR IN EXERCISE PHYSIOLOGY	1
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
NURS 20950 or PESP 25033	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS or LIFESPAN MOTOR DEVELOPMENT	3
	Credit Hours	**16**
Semester Four		
ATTR 25058 or EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
EXSC 35068	STATISTICS FOR THE EXERCISE SCIENTIST	3
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
SEPP 20026	PSYCHOLOGICAL FOUNDATIONS OF SPORT AND EXERCISE	3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Five		
ATTR 25036	RESPONDING TO EMERGENCIES	3
ATTR 35054 or EXSC 35054	BIOMECHANICS or BIOMECHANICS	3
CHEM 20481 or CHEM 30481	BASIC ORGANIC CHEMISTRY I or ORGANIC CHEMISTRY I	4
EXSC 35080	PHYSIOLOGY OF EXERCISE	4
General Elective		3
	Credit Hours	**17**
Semester Six		
EXSC 35040	PRACTICAL AND APPLIED CONCEPTS OF STRENGTH AND CONDITIONING	3
EXSC 45065 or EXSC 45070	EXERCISE TESTING or ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST	3
General Electives		9
	Credit Hours	**15**
Semester Seven		
EXSC 45081	ADVANCED PHYSIOLOGY OF EXERCISE (WIC)	3
NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	3
PH 30015 or SPAD 35025	UNITED STATES HEALTH CARE SYSTEM or FACILITY MANAGEMENT	3
General Electives		6
	Credit Hours	**15**
Semester Eight		
EXSC 45022 or EXSC 45023	EXERCISE LEADERSHIP or PROFESSIONAL CERTIFICATE PREPARATION	2
EXSC 45096	INDIVIDUAL INVESTIGATION IN EXERCISE SCIENCE (ELR)	3
General Electives		7
	Credit Hours	**12**
	Minimum Total Credit Hours:	**120**

Exercise Specialist Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ATTR 15003 or EXSC 15003 or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES	2
MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Two		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Three		
ATTR 25057 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
NURS 20950 or PESP 25033	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS or LIFESPAN MOTOR DEVELOPMENT	3
SEPP 20026	PSYCHOLOGICAL FOUNDATIONS OF SPORT AND EXERCISE	3
	Credit Hours	**15**
Semester Four		
ATTR 25058 or EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
EXSC 35068	STATISTICS FOR THE EXERCISE SCIENTIST	3
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
General Elective		3
	Credit Hours	**16**
Semester Five		
ATTR 25036	RESPONDING TO EMERGENCIES	3
ATTR 35054 or EXSC 35054	BIOMECHANICS or BIOMECHANICS	3
EXSC 35080	PHYSIOLOGY OF EXERCISE	4
General Electives		6
	Credit Hours	**16**
Semester Six		
EXSC 35040	PRACTICAL AND APPLIED CONCEPTS OF STRENGTH AND CONDITIONING	3
EXSC 45065	EXERCISE TESTING	3
EXSC 45070	ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST	3
EXSC 45481	SEMINAR IN EXERCISE PHYSIOLOGY	1
PH 30015 or SPAD 35025	UNITED STATES HEALTH CARE SYSTEM or FACILITY MANAGEMENT	3
	Credit Hours	**13**
Semester Seven		
EXSC 40612	EXERCISE LEADERSHIP FOR THE OLDER ADULT	3
ATTR 45040 or EXSC 34000	PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS or EXERCISE SCIENCE FOR ESPORTS	3
EXSC 45081	ADVANCED PHYSIOLOGY OF EXERCISE (WIC)	3
General Electives		7
	Credit Hours	**16**
Semester Eight		
EXSC 35075	EXERCISE PROGRAMMING	3
EXSC 45022 or EXSC 45023	EXERCISE LEADERSHIP or PROFESSIONAL CERTIFICATE PREPARATION	2
EXSC 45040	ADVANCED STRENGTH AND CONDITIONING	3
EXSC 45492	INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR)	3
General Electives		4
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

Pre-Physical/Occupational Therapy/Podiatric Medicine Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ATTR 15003 or EXSC 15003 or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES	2
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
	Credit Hours	**15**
Semester Two		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
MATH 11022	TRIGONOMETRY (KMCR)	3
SEPP 20026	PSYCHOLOGICAL FOUNDATIONS OF SPORT AND EXERCISE	3
	Credit Hours	**15**
Semester Three		
ATTR 25057 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
HED 14020	MEDICAL TERMINOLOGY	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Chemistry Elective		4
	Credit Hours	**14**
Semester Four		
ATTR 25058 or EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
General Electives (may be used to fulfill Organic Chemistry series)		6
Kent Core Requirement		3
	Credit Hours	**16**
Semester Five		
ATTR 35054 or EXSC 35054	BIOMECHANICS or BIOMECHANICS	3
EXSC 35068	STATISTICS FOR THE EXERCISE SCIENTIST	3
EXSC 45481	SEMINAR IN EXERCISE PHYSIOLOGY	1
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	Credit Hours	**15**
Semester Six		
EXSC 35080	PHYSIOLOGY OF EXERCISE	4
NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	3
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**18**
Semester Seven		
EXSC 45081	ADVANCED PHYSIOLOGY OF EXERCISE (WIC)	3
NURS 20950 or PESP 25033	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS or LIFESPAN MOTOR DEVELOPMENT	3
PH 30015 or SPAD 35025	UNITED STATES HEALTH CARE SYSTEM or FACILITY MANAGEMENT	3
PSYC 40111	PSYCHOPATHOLOGY	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Eight		
EXSC 43098 or EXSC 45492	RESEARCH IN EXERCISE SCIENCE (ELR) or INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR)	3
EXSC 45065 or EXSC 45070	EXERCISE TESTING or ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST	3
Kent Core Requirement		3
General Electives		3
	Credit Hours	**12**
	Minimum Total Credit Hours:	**120**

Strength and Conditioning Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ATTR 15003 or EXSC 15003 or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES	2
MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Two		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3

Kent Core Requirement		3
	Credit Hours	**14**
Semester Three		
ATTR 25057 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
NURS 20950 or PESP 25033	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS or LIFESPAN MOTOR DEVELOPMENT	3
SEPP 20026	PSYCHOLOGICAL FOUNDATIONS OF SPORT AND EXERCISE	3
	Credit Hours	**15**
Semester Four		
ATTR 25058 or EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
EXSC 35068	STATISTICS FOR THE EXERCISE SCIENTIST	3
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
General Elective		3
	Credit Hours	**16**
Semester Five		
ATTR 25036	RESPONDING TO EMERGENCIES	3
ATTR 35054	BIOMECHANICS	3
EXSC 35040	PRACTICAL AND APPLIED CONCEPTS OF STRENGTH AND CONDITIONING	3
EXSC 35080	PHYSIOLOGY OF EXERCISE	4
NUTR 23520	SPORTS NUTRITION	3
	Credit Hours	**16**
Semester Six		
EXSC 45065 or EXSC 45070	EXERCISE TESTING or ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST	3
EXSC 45481	SEMINAR IN EXERCISE PHYSIOLOGY	1
PH 30015 or SPAD 35025	UNITED STATES HEALTH CARE SYSTEM or FACILITY MANAGEMENT	3
General Elective		9
	Credit Hours	**16**
Semester Seven		
EXSC 45081	ADVANCED PHYSIOLOGY OF EXERCISE (WIC)	3
EXSC 45492	INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR)	3
SEPP 40020	HIGH PERFORMANCE ATHLETES IN SPORT	3
General Elective		4
	Credit Hours	**13**
Semester Eight		
EXSC 35075	EXERCISE PROGRAMMING	3
EXSC 45023	PROFESSIONAL CERTIFICATE PREPARATION	2
EXSC 45040	ADVANCED STRENGTH AND CONDITIONING	3
EXSC 45492	INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR)	3
General Elective		4
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Master the scientific and theoretical concepts of physiology critical to an entry-level Exercise Scientist.
2. Apply the knowledge, skills and abilities needed to assess, motivate and prescribe exercise or strength and conditioning as appropriate for an entry-level Exercise Scientist.
3. Utilize statistical methods to analyze and interpret data applicable to the exercise science field

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science degree in Exercise Science comprises four concentrations:

- The **Exercise Physiology** concentration prepares students for graduate school in exercise physiology or health care professions.
- The **Exercise Specialist** concentration enables students to prepare for work in the clinical setting, ranging from a career in wellness to cardiac rehabilitation.
- The **Pre-Physical/Occupational Therapy/Podiatric Medicine** concentration prepares students for subsequent graduate school in these areas. The pre-podiatric medicine track is designed to be a combined program with Kent State University's College of Podiatric Medicine. Successful completion of this program, however does not guarantee acceptance into the Doctor of Podiatric Medicine degree. Please see the Podiatric Medicine doctoral program in the catalog for more information about the application process and acceptance criteria.
- The **Strength and Conditioning** concentration is designed to assist those that wish to pursue a career in the field of strength and conditioning. This may include working with all levels of athletes in a strength and conditioning facility.

The goal of the program is to prepare competent entry-level Exercise Science professionals in the cognitive (knowledge), psychomotor (skills), and affective (abilities) learning domains. Individual course content, objectives, and assessments are structured to achieve this larger goal.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Health Education and Promotion - M.Ed.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

Make an impact in health education and promotion with Kent State's program. Develop your leadership, communication and advocacy skills, while gaining the knowledge and experience needed to advance your career in this dynamic and rewarding field. Read more...

Contact Information

- **Laurie M. Wagner, MCHES** | (Community Health concentration) | lyoo@kent.edu | 330-672-0685
  Donna Bernert | (School Health Licensure concentration) | dbernert@kent.edu | 330-672-0682
- Connect with an Admissions Counselor. U.S. Student | International Student

Fully Offered

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Health education specialists

- 11.4% much faster than the average
- 62,200 number of jobs
- $56,500 potential earnings

Community and social service specialists, all other

- 11.7% much faster than the average
- 105,200 number of jobs
- $46,770 potential earnings

Community health workers

- 15.2% much faster than the average
- 64,900 number of jobs
- $42,000 potential earnings

Medical and health services managers

- 31.5% much faster than the average
- 422,300 number of jobs
- $104,280 potential earnings

Additional Careers

- Certified Health Education Specialist
- Community Health Educator
- Community Health Education Coordinator
- Diabetes Educator
- Health Educator
- Master Certified Health Education Specialist
- Public Health Educator

Accreditation

The School Health Licensure concentration is accredited by the Council for the Accreditation of Educator Preparation (CAEP).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Evidence of valid Resident Educator or Professional State of Ohio teaching license School Health Licensure concentration
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions

- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
HED 64050	HEALTH BEHAVIOR	3
HED 64055	NEEDS ASSESSMENT AND EVALUATION IN HEALTH PROMOTION	3
HED 64057	PROGRAM PLANNING AND IMPLEMENTATION IN HEALTH PROMOTION	3
HED 64059	COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION	3
HED 64061	FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION	3
HED 64063	STRATEGIES IN HEALTH EDUCATION AND PROMOTION	3
Concentrations		
Choose from the following:		13-15
Community Health		
School Health Licensure		
Minimum Total Credit Hours:		**31-33**

Community Health Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
HED 64030	INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION	3
HED 64062	ADMINISTRATION AND GRANT WRITING IN HEALTH PROMOTION	3
HED 64080	ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION	3
Health Education (HED) Electives (50000 or 60000 level) [1]		6
Minimum Total Credit Hours:		**15**

[1] Students are recommended to select courses around a common theme, such as sexuality, substance abuse or other options approved by advisor. Students who plan to pursue a doctorate are recommended to take courses in research and statistics.

School Health Licensure Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
HED 54091	SCHOOL HEALTH EDUCATION VARIABLE CONTENT SEMINAR	1
HED 54544	SEXUALITY EDUCATION PROGRAMS	3
HED 54550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	3
HED 54051	BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION	3
HED 68092	DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION	3
Minimum Total Credit Hours:		**13**

Field Experience and Licensure Information for the School Health Licensure Concentration

Students in the School Health Licensure concentration will complete a minimum of 50 Ohio Department of Education-required field experience hours. State or Federal background checks may be required for practicum/internship experiences.

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- M.Ed. degree candidates have six years from the term of first enrollment to complete the degree.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Assess needs, assets and capacity for health education.
2. Plan health education and promotion activities.
3. Implement health education and promotion programs in schools and communities.
4. Conduct program evaluation and research in health education.
5. Advocate for health and health education.
6. Communicate effectively with a variety of audiences using appropriate theory, methods and channels.
7. Administer and manage health education.
8. Serve as an authoritative resource on health education and promotion practices in accordance with established ethical principles.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student

teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Full Description

The Master of Education degree in Health Education and Promotion is designed to enable individuals to pursue their diverse interests in the field while addressing the competencies essential to the professional development of health educators.

Students in the program utilize theoretical models of attitude and behavioral change in assessing educational needs, designing educational interventions, evaluating the effectiveness of program efforts and advocating for creative and competent health education opportunities. These skills prepare graduates for various employment positions in local, state and national government; K-12 schools and community colleges; health care facilities; worksite wellness programs; and nonprofit organizations.

The Health Education and Promotion major comprises the following concentrations:

- The **Community Health** concentration provides background for those who will be involved in positions of leadership in a wide variety of health-related community settings, as well as for those who plan to pursue doctoral work in fields related to health education and health promotion. Students in the concentration can pursue certification as a Certified Health Education Specialist (CHES) or Master Certified Health Education Specialist (MCHES).
- The **School Health Licensure** concentration enables graduates to teach health in schools or pursue diverse interests in the field. Competencies essential to school health education are addressed. Students in the concentration can pursue an additional Ohio teaching license that requires students to already have an initial teaching license.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Health Education and Promotion - Ph.D.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

Elevate your career with the Health Education Ph.D. program. With experienced faculty, a flexible curriculum and opportunities for research and practical experience, you'll be prepared for leadership roles in the field. Read more...

Contact Information

- **Laurie M. Wagner, MCHES** | lyoo@kent.edu | 330-672-0685
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Health education specialists

- 11.4% much faster than the average
- 62,200 number of jobs
- $56,500 potential earnings

Community and social service specialists, all other

- 11.7% much faster than the average
- 105,200 number of jobs
- $46,770 potential earnings

Community health workers

- 15.2% much faster than the average
- 64,900 number of jobs
- $42,000 potential earnings

Medical and health services managers

- 31.5% much faster than the average
- 422,300 number of jobs
- $104,280 potential earnings

Health specialties teachers, postsecondary

- 20.5% much faster than the average
- 254,000 number of jobs
- $99,090 potential earnings

Recreation and fitness studies teachers, postsecondary

- 2.6% slower than the average
- 19,100 number of jobs
- $66,290 potential earnings

Additional Careers

- Certified Health Education Specialist
- Community Health Educator
- Community Health Education Coordinator
- Diabetes Educator
- Health Educator
- Master Certified Health Education Specialist
- Public Health Educator

Accreditation

National Council for the Accreditation of Teacher Education

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university[1]
- Minimum 2.750 graduate GPA on a 4.000-point scale (minimum 3.500 GPA is recommended)
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

The college will assess applicants holistically, considering academic credentials, related professional experiences, academic or professional references, scholarly activities and professional activities, among others.

1. Students who are admitted to the Ph.D. degree without an equivalent master's degree in health education and promotion may be required to complete additional coursework, which will not be counted towards the degree.
2. International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
HED 80292	PRACTICUM IN HEALTH EDUCATION AND PROMOTION [1]	3
HED 81100	RESIDENCY SEMINAR: SYNTHESIS OF LITERATURE IN HEALTH EDUCATION AND PROMOTION	3
HED 81150	SEMINAR: PROFESSIONAL DEVELOPMENT IN HEALTH EDUCATION AND PROMOTION	3
HED 81200	RESIDENCY SEMINAR: RESEARCH PROPOSAL, DEVELOPMENT AND PRESENTATION	3
HED 81400	RESEARCH DISSEMINATION AND TECHNICAL WRITING IN HEALTH EDUCATION AND PROMOTION	3
HED 81450	ADVANCED PROGRAM EVALUATION IN HEALTH EDUCATION AND PROMOTION	3
HED 81550	APPLIED THEORY IN HEALTH EDUCATION RESEARCH AND PRACTICE	3
RMS 75510	STATISTICS I FOR EDUCATIONAL SERVICES	3
RMS 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	3
RMS 85516	QUALITATIVE RESEARCH DESIGN	3
RMS 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES	3
or RMS 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
Specialization Courses [2]		6
Culminating Requirement		
HED 80199	DISSERTATION I [3]	30
Minimum Total Credit Hours:		**69**

1. State/Federal background checks may be required for practicum/internship experiences.
2. Students choose an area of specialization — such as school health, sexuality or substance abuse prevention — as developed with advisory phase committee.

[3] Upon admission to candidacy, each doctoral candidate must register for HED 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter HED 80299, each semester until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Graduates of this program will be able to:

1. Assess needs, assets and capacity for health education.
2. Plan health education and promotion activities.
3. Implement health education and promotion programs.
4. Conduct program evaluation and research in health education.
5. Serve as health education resource person.
6. Administer and manage health education.
7. Communicate and advocate for health and health education.

Full Description

The Ph.D. degree in Health Education and Promotion emphasizes the interaction among the theoretical, empirical and applied nature of health education. Health education borrows from many disciplines, including community organization, education, medicine, biological science, psychology, statistics and communication.

Although the program is designed for health educators, applicants are drawn from a variety of fields, including health education, nursing, nutrition, the medical technologies and social sciences. The program is particularly appropriate for those seeking employment in higher education or career advancement within the broad scope of health education. Graduates work in schools, higher education, government agencies, hospitals and non-profit agencies.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Human Sexuality - Minor

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Human Sexuality minor gives students an opportunity to study a range of issues—basic, in-depth and controversial—that covers women's health, HIV/AIDS and the teaching of sexuality in age and developmentally appropriate ways. The flexible nature of the minor allows students to design their program to align with their interests and primary study.

Contact Information

- **Laurie M. Wagner, MCHES** | lyoo@kent.edu | 330-672-0685
- Speak with an Advisor

Fully Offered

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Students declared in the School Health Education major or the Community Health Education major may not declare the Human Sexuality minor.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
HED 32544	HUMAN SEXUALITY	3
HED 44025	WOMEN'S HEALTH ISSUES	3
HED 46057	ADVANCED HUMAN SEXUALITY	3
HED 47070	AIDS: ISSUES, EDUCATION AND PREVENTION	3
Sexuality Electives, choose from the following:		6
COMM 35912	GENDER AND COMMUNICATION (DIVD)	
HDF 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	
HDF 44022	FAMILIES, GENDER AND POWER	
HDF 44030	FAMILY LIFE EDUCATION AND PREVENTION	
PSYC 40625	DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD)	
SOC 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES	
SOC 32560	SOCIOLOGY OF FAMILIES (DIVD)	

WMST 30091	KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD)	
Other electives courses require faculty approval		
Lesbian, Gay, Bisexual and Transgender Studies Elective, choose from the following:		3
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)	
LGBT 20020	INTRODUCTION TO LESBIAN, GAY, BISEXUAL, TRANSGENDER AND QUEER STUDIES	
POL 40620	POLITICS OF SOCIAL MOVEMENTS (DIVD)	
PSYC 40625	DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD)	
SOC 32560	SOCIOLOGY OF FAMILIES (DIVD)	
SOC 32565	SOCIOLOGY OF SEXUALITIES (DIVD)	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
SOC 42315	SOCIOLOGY OF GENDER (DIVD)	
SOC 42359	SOCIAL MOVEMENTS	
SOC 42400	SELF AND IDENTITY	
THEA 41115	LGBTQ THEATRE (DIVD)	
WMST 30091	KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD)	
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Integrated Health Studies - B.S.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

Earn your B.S. in Integrated Health Studies and prepare for a career in the growing health and medical fields! Choose a concentration in health care administration, health sciences or health services to tailor your path toward leadership, clinical roles or public health. Read more...

Contact Information

- **Laurie M. Wagner, MCHES** | lyoo@kent.edu | 330-672-0685
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Medical and health services managers

- 31.5% much faster than the average
- 422,300 number of jobs
- $104,280 potential earnings

Clinical laboratory technologists and technicians

- 7.3% faster than the average
- 337,800 number of jobs
- $54,180 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible

to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
HED 14020	MEDICAL TERMINOLOGY	3
ATTR 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	2
or EXSC 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	
or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	
IHS 40091	SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES	2
IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	3
IHS 44091	PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC) [1]	3
IHS 44092	PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR) [2]	3-10
NURS 45010	HEALTHCARE POLICY AND DELIVERY SYSTEMS	3
or NURS 46000	HEALTH CARE POLICY	
PHIL 40005	HEALTH CARE ETHICS	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
Additional Requirements (courses do not count in major GPA)		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		10
Concentrations		
Choose from the following:		66
Health Care Administration and Systems		
Health Sciences		
Health Services		
Minimum Total Credit Hours:		**120**

1. A minimum C grade must be earned to fulfill the writing-intensive requirement.
2. State or Federal background checks may be required for practicum/internship experiences.

Health Care Administration and Systems Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
ECON 42086	ECONOMICS OF HEALTH CARE	3
LTCA 44032	LONG-TERM CARE ADMINISTRATION I	3
MDJ 28001	PRINCIPLES OF PUBLIC RELATIONS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION	3
PSYC 41581	HEALTH PSYCHOLOGY	3
or SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
Additional Requirements (courses do not count in major GPA)		
MATH 11009	MODELING ALGEBRA (KMCR)	4
Biology (BSCI) Course from Kent Core Basic Sciences [1]		3-4
Chemistry (CHEM) Course from Kent Core Basic Sciences [1]		3-4
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		17
Minimum Total Credit Hours:		**66**

1. Minimum one course must include a laboratory.

Health Sciences Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) [1]	4
or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) [1]	4
or EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
ATTR 35054	BIOMECHANICS	3
or EXSC 35054	BIOMECHANICS	
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS) [2]	4
CHEM 10061	GENERAL CHEMISTRY II (KBS) [2]	4
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
EXSC 35080	PHYSIOLOGY OF EXERCISE	4
MATH 11022	TRIGONOMETRY (KMCR)	3
PSYC 41581	HEALTH PSYCHOLOGY	3
or SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SPA 44111	NEURAL PROCESSES	3
Health Sciences Electives, choose from the following: [3]		6
ATTR 45040	PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS	
BSCI 20021	BASIC MICROBIOLOGY	
BSCI 30130	HUMAN PHYSIOLOGY	
BSCI 30050	HUMAN GENETICS	
BSCI 30140	CELL BIOLOGY	
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	
EXSC 35075	EXERCISE PROGRAMMING	
HDF 44021	FAMILY INTERVENTION AND ADVOCACY	
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	
NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	
PESP 25033	LIFESPAN MOTOR DEVELOPMENT	
PSYC 40111	PSYCHOPATHOLOGY	
Additional Requirements (courses do not count in major GPA)		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Kent Core Social Sciences (must be from two disciplines)		3
Minimum Total Credit Hours:		**66**

1 Students who have successfully completed BSCI 11010/BSCI 11020 may use those courses in place of ATTR 25057/ATTR 25058.

2 Students who plan to pursue graduate studies are recommended to also take laboratories CHEM 10062 and CHEM 10063.

3 Students must complete a minimum of one upper division course (30000 or 40000 level) to fulfill this concentration elective requirement.

Health Services Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Introduction to Professional Electives, choose from the following: [1]		4-6
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
HDF 14027	INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY SCIENCE	
HDF 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	
HED 21030	INTRODUCTION TO HEALTH EDUCATION	
HSRV 11000	FOUNDATIONS OF HUMAN SERVICES	
NURS 10060	INTRODUCTION TO PROFESSIONAL NURSING PRACTICE	
NURS 20020	FOUNDATIONS OF ASSESSMENT AND COMMUNICATION IN NURSING	
OTA 10000	FOUNDATIONS IN OCCUPATIONAL THERAPY	
PTST 10000	INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT	
Human Development Electives, choose from the following:		15-16
BSCI 30050	HUMAN GENETICS	
BSCI 30130	HUMAN PHYSIOLOGY	
GERO 44030	RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD (WIC)	
HDF 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	
HDF 24012	RELATIONSHIPS AND DEVELOPMENT ACROSS CHILDHOOD	
HDF 44020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
HED 11570	PERSONAL HEALTH	
HED 21050	HEALTH EDUCATION THEORIES	
HED 32530	DRUG USE AND MISUSE	
HED 32544	HUMAN SEXUALITY	
HED 44025	WOMEN'S HEALTH ISSUES	
HED 46057	ADVANCED HUMAN SEXUALITY	
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	
NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	
PSYC 41581	HEALTH PSYCHOLOGY	
Health Services Electives, choose from the following: [1]		14
HDF 34031	CULTURAL DIVERSITY: IMPLICATIONS FOR THE HELPING PROFESSIONS	
HDF 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	
HDF 44034	PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT	
HED 11590	COMMUNITY HEALTH EDUCATION	
HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	
HED 42041	HEALTH COACHING	
NURS 20030	FOUNDATIONS OF NURSING INTERVENTIONS	
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
Additional Requirements (courses do not count in major GPA)		
MATH 11009	MODELING ALGEBRA (KMCR)	4

Biology (BSCI) Course from Kent Core Basic Sciences [2]	3-4
Chemistry (CHEM) Course from Kent Core Basic Sciences [2]	3-4
Kent Core Social Sciences (must be from two disciplines)	3
Kent Core Additional	6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	14
Minimum Total Credit Hours:	**66**

[1] Allied health coursework may be used to fulfill the requirements for the Introduction to Profession Electives (maximum 5 credit hours) and Health Services Electives (maximum 9 credit hours).

[2] Minimum one course must include a laboratory.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Roadmaps

Health Care Administration and Systems Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
ATTR 15003 or EXSC 15003 or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES	2
MATH 11009	MODELING ALGEBRA (KMCR)	4
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		1
	Credit Hours	**14**
Semester Two		
HED 14020	MEDICAL TERMINOLOGY	3
Biology (BSCI) or Chemistry (CHEM) Course from Kent Core Basic Sciences		3-4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MDJ 28001	PRINCIPLES OF PUBLIC RELATIONS	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
Biology (BSCI) or Chemistry (CHEM) Course from Kent Core Basic Sciences		3-4
General Elective		3
	Credit Hours	**15**
Semester Five		
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
General Elective		3
	Credit Hours	**15**
Semester Six		
ECON 42086	ECONOMICS OF HEALTH CARE	3
NURS 45010 or NURS 46000	HEALTHCARE POLICY AND DELIVERY SYSTEMS or HEALTH CARE POLICY	3

	PSYC 41581 or SOC 42563	HEALTH PSYCHOLOGY or SOCIOLOGY OF HEALTH AND HEALTH CARE	3
	General Electives		6
		Credit Hours	**15**
	Semester Seven		
	IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	3
	LTCA 44032	LONG-TERM CARE ADMINISTRATION I	3
	PHIL 40005	HEALTH CARE ETHICS	3
	General Electives		6
		Credit Hours	**15**
	Semester Eight		
!	IHS 40091	SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES	2
!	IHS 44091	PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC)	3
	IHS 44092	PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR)	3-10
	General Electives		8
		Credit Hours	**16**
		Minimum Total Credit Hours:	**120**

Health Sciences Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	ATTR 15003 or EXSC 15003 or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES	2
	BSCI 10110 or CHEM 10060	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB) or GENERAL CHEMISTRY I (KBS)	4
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	BSCI 10120 or CHEM 10061	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB) or GENERAL CHEMISTRY II (KBS)	4
	HED 14020	MEDICAL TERMINOLOGY	3
	MATH 11022	TRIGONOMETRY (KMCR)	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	ATTR 25057 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
	BSCI 10110 or CHEM 10060	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB) or GENERAL CHEMISTRY I (KBS)	4
	PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Four		
	ATTR 25058 or EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
	BSCI 10120 or CHEM 10061	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB) or GENERAL CHEMISTRY II (KBS)	4
	Kent Core Requirement		3
	General Electives		4
		Credit Hours	**15**
	Semester Five		
	ATTR 35054 or EXSC 35054	BIOMECHANICS or BIOMECHANICS	3
	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	General Electives		6
		Credit Hours	**14**
	Semester Six		
	NURS 45010 or NURS 46000	HEALTHCARE POLICY AND DELIVERY SYSTEMS or HEALTH CARE POLICY	3
	PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
	PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
	PSYC 41581 or SOC 42563	HEALTH PSYCHOLOGY or SOCIOLOGY OF HEALTH AND HEALTH CARE	3
	Health Sciences Elective		3
		Credit Hours	**14**
	Semester Seven		
	CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
!	IHS 40091	SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES	2
	IHS 44092	PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR)	3-10
	PHIL 40005	HEALTH CARE ETHICS	3
	Health Science Elective		3
		Credit Hours	**15**
	Semester Eight		
	EXSC 35080	PHYSIOLOGY OF EXERCISE	4
	IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	3
!	IHS 44091	PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC)	3
	SPA 44111	NEURAL PROCESSES	3
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

Health Services Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	ATTR 15003 or EXSC 15003 or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES	2
	MATH 11009	MODELING ALGEBRA (KMCR)	4
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		1
		Credit Hours	**14**
	Semester Two		
	HED 14020	MEDICAL TERMINOLOGY	3
	Biology (BSCI) or Chemistry (CHEM) Course from Kent Core Basic Sciences		3-4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Human Development Electives		6-7
	Introduction to Professions Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
	Biology (BSCI) or Chemistry (CHEM) Course from Kent Core Basic Sciences		3-4
	Human Development Elective		3
	Introduction to Professions Elective		1-3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**16**
	Semester Five		
	Health Services Electives		6
	Human Development Elective		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Six		
	NURS 45010 or NURS 46000	HEALTHCARE POLICY AND DELIVERY SYSTEMS or HEALTH CARE POLICY	3
	Health Services Elective		3
	Human Development Elective		3
	General Electives		6
		Credit Hours	**15**
	Semester Seven		
	IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	3
	PHIL 40005	HEALTH CARE ETHICS	3
	General Electives		9
		Credit Hours	**15**
	Semester Eight		
!	IHS 40091	SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES	2
!	IHS 44091	PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC)	3
	IHS 44092	PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR)	3-10
	Health Services Electives		5
	General Elective		2
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

Program Learning Outcomes

Graduates of this program will be able to:

1. Integrate and apply knowledge, values and skills across the health and human services fields to applicable work settings.
2. Identify, present and critique the role of health care professionals and policies/issues facing the health and human services fields in order to better meet the needs of individuals, communities and society in the provision of services.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.

- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science degree in Integrated Health Studies is designed for students interested in the health and medical professions. The primary mission of the program is to educate individuals to serve present and future needs of an increasingly diverse society in the professional fields associated with health and/or medical services. Fundamental to its mission is the education of students to excel as practitioners and provide leadership to their respective disciplines.

The major comprises the following concentrations:

- The **Health Care Administration and Systems** concentration prepares students for administrative positions in the health care industry. In addition, students may wish to pursue graduate study in such fields as business administration, health administration, exercise/leisure/sports administration and public health. Students may earn the Business minor with additional coursework and GPA requirements.
- The **Health Sciences** concentration includes a strong basic science core (biology, chemistry, physics), as well as an applied science core (physiology of exercise, nutrition). Graduates are prepared for science-based graduate programs, especially physical or occupational therapy, and other advanced study options such as physicians assistant programs.
- The **Health Services** concentration provides a comprehensive study of health professions, human development and human services. Graduates are prepared for careers in the service-delivery sector of the health care industry, such as non-profit and/or government agencies (e.g., health departments, national/state/local health organizations). This program is designed to offer more flexibility in coursework selection for pre-nursing coursework or for students to declare a minor or certificate (e.g., health educator, non-profit management, psychology). The program also provides students in associate degrees in the allied health areas (e.g., physical or occupational therapy assisting technology) with the opportunity to obtain a highly relevant bachelor's degree.

Nutrition - B.S.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

Earn your B.S. in Nutrition and build a strong foundation in dietetics, health and science! This program blends theory, research and hands-on application, preparing you for accredited internships and careers in nutrition and wellness. Learn from expert faculty in clinical, community and exercise science fields. Read more...

Contact Information

- **Natalie Caine-Bish** | ncaine@kent.edu | 330-672-2148
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Dietitians and nutritionists

- 8.0% much faster than the average
- 74,200 number of jobs
- $63,090 potential earnings

Accreditation

The program is currently fully accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND).

Phone: 800-877-1600 ext. 5400
Mail: 120 South Riverside Plaza, Suite 2190, Chicago, IL 60606-6995
Website: https://www.eatrightpro.org/acend

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic

Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
or BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
or BSCI 21020	ANATOMY AND PHYSIOLOGY II	
or EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 20021	BASIC MICROBIOLOGY	3
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
HEM 23212	INTRODUCTORY FOOD SCIENCE	3
or NUTR 23012	INTRODUCTORY FOOD SCIENCE	
HEM 23510	QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY	3
or NUTR 23510	QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY	
HEM 43030	FOOD SERVICE SYSTEMS MANAGEMENT	3
or NUTR 43030	FOOD SERVICE SYSTEMS MANAGEMENT	
NUTR 23016	WORLD FOOD CUSTOMS AND NUTRITION	3
NUTR 23112	INTRODUCTION TO THE PROFESSION: NUTRITION AND DIETETICS	1
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	3
NUTR 33522	INTRODUCTION TO NUTRITION ASSESSMENT	3
NUTR 33532	BUSINESS AND MANAGEMENT OF NUTRITION SERVICES	3
NUTR 35319	NUTRITION, HEALTH AND SOCIETY	3
NUTR 43013	RESEARCH AND STATISTICAL METHODS IN NUTRITION AND DIETETICS (WIC) [1]	3
NUTR 43512	MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY	3
NUTR 43513	MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY	3
NUTR 43515	COMMUNITY NUTRITION (ELR)	3
NUTR 43518	LIFECYCLE NUTRITION	3
NUTR 43522	INTEGRATIVE AND FUNCTIONAL NUTRITION	2
NUTR 43524	NUTRITION AND DIETETICS: PROFESSIONAL PRACTICE	2
NUTR 43540	MEDICAL NUTRITION THERAPY I	3
NUTR 43541	MEDICAL NUTRITION THERAPY I LABORATORY	1
NUTR 43542	MEDICAL NUTRITION THERAPY II	3
NUTR 43543	MEDICAL NUTRITION THERAPY II LABORATORY	1
Additional Requirements (courses do not count in major GPA)		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
MATH 11009	MODELING ALGEBRA (KMCR)	4
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		16
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
	MATH 11009	MODELING ALGEBRA (KMCR)	4
!	NUTR 23112	INTRODUCTION TO THE PROFESSION: NUTRITION AND DIETETICS	1
	NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
		Credit Hours	**16**

	Semester Two		
!	ATTR 25057 or BSCI 21010 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
	HEM 23510 or NUTR 23510	QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY or QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY	3
	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
		Credit Hours	**14**
	Semester Three		
!	ATTR 25058 or BSCI 21020 or EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY II or HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
	CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
	HEM 23212 or NUTR 23012	INTRODUCTORY FOOD SCIENCE or INTRODUCTORY FOOD SCIENCE	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
		Credit Hours	**14**
	Semester Four		
	NUTR 23016	WORLD FOOD CUSTOMS AND NUTRITION	3
	NUTR 33522	INTRODUCTION TO NUTRITION ASSESSMENT	3
	NUTR 35319	NUTRITION, HEALTH AND SOCIETY	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	BSCI 20021	BASIC MICROBIOLOGY	3
	NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	3
	NUTR 33532	BUSINESS AND MANAGEMENT OF NUTRITION SERVICES	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	NUTR 43013	RESEARCH AND STATISTICAL METHODS IN NUTRITION AND DIETETICS (WIC)	3
	NUTR 43518	LIFECYCLE NUTRITION	3
	General Electives		9
		Credit Hours	**15**
	Semester Seven		
	HEM 43030 or NUTR 43030	FOOD SERVICE SYSTEMS MANAGEMENT or FOOD SERVICE SYSTEMS MANAGEMENT	3
	NUTR 43512	MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY	3
	NUTR 43522	INTEGRATIVE AND FUNCTIONAL NUTRITION	2
	NUTR 43524	NUTRITION AND DIETETICS: PROFESSIONAL PRACTICE	2
	NUTR 43540	MEDICAL NUTRITION THERAPY I	3
	NUTR 43541	MEDICAL NUTRITION THERAPY I LABORATORY	1
	General Elective		1
		Credit Hours	**15**
	Semester Eight		
	NUTR 43513	MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY	3
	NUTR 43515	COMMUNITY NUTRITION (ELR)	3
	NUTR 43542	MEDICAL NUTRITION THERAPY II	3
	NUTR 43543	MEDICAL NUTRITION THERAPY II LABORATORY	1
	General Electives		6
		Credit Hours	**16**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of the program will be able to:

1. Apply knowledge and skills necessary to plan and evaluate menus and diets of individuals/groups to promote nutritional health and well-being.
2. Demonstrate the ability to use oral and written communication skills effectively in the practice of nutrition and dietetics.
3. Demonstrate the ability to interpret current research and utilize critical thinking skills in the practice of nutrition and dietetics.

4. Apply acquired knowledge and skills to enroll in a supervised practice program, advanced/professional study or employment.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Full Description

The Bachelor of Science degree in Nutrition provides students with a broad general education and a strong foundation in nutrition, dietetics and the sciences. The emphasis is integrating theory, research and application of knowledge to the profession of dietetics. The curriculum meets the didactic program in dietetics requirements of the Academy of Nutrition and Dietetics, and graduates are eligible for admission to accredited internships. The faculty has expertise in nutritional sciences, exercise science, clinical and community practice and leadership studies.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Nutrition - M.S.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

Specialize in nutrition with Kent State's Master of Science in Nutrition. Our program offers you the opportunity to deepen your knowledge of nutrition science and specialize in areas such as clinical nutrition, community nutrition or sports nutrition. Read more...

Contact Information

- **Natalie Caine-Bish, Ph.D., RD, LD** | ncaine@kent.edu | 330-672-2148
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Dietitians and nutritionists

- 8.0% much faster than the average
- 74,200 number of jobs
- $63,090 potential earnings

Accreditation

The Dietetic Internship concentration is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Upper level, undergraduate coursework in biochemistry, physiology and advanced nutrition
- Official transcript(s)
- Goal statement
- Didactic Program in Dietetics (DPD) verification statement (required for Dietetic Internship concentration only)
- Dietetic internship application through the Dietetic Internship Centralized Application System (DICAS) with D & D Digital Computer Matching (required for Dietetic Internship concentration only)
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
NUTR 61015	NUTRITION AND DISEASE	3
NUTR 61016	RESEARCH METHODS IN NUTRITION I	3
NUTR 61017	RESEARCH METHODS IN NUTRITION II	3
NUTR 63519	ADVANCED STUDY OF MICRONUTRIENTS	3
NUTR 63520	MACRONUTRIENT NUTRITION	3
NUTR 63521	NUTRITION AND DISEASE: CLINICAL APPLICATIONS	3
Supporting Electives, choose from the following in consultation with advisor:		3
NUTR 51095	SPECIAL TOPICS IN NUTRITION	
NUTR 51096	INDIVIDUAL INVESTIGATION IN NUTRITION	
NUTR 53013	RESEARCH AND STATISTICAL METHODS IN NUTRITION	
NUTR 53512	MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY	
NUTR 53513	MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY	
NUTR 53515	COMMUNITY NUTRITION	
NUTR 53518	LIFECYCLE NUTRITION	
NUTR 53522	INTEGRATIVE AND FUNCTIONAL NUTRITION	
NUTR 53532	METHODS AND EXPERIENCES IN NUTRITION OUTREACH	
NUTR 53540	MEDICAL NUTRITION THERAPY I	
NUTR 53541	MEDICAL NUTRITION THERAPY I LABORATORY	
NUTR 53542	MEDICAL NUTRITION THERAPY II	
NUTR 53543	MEDICAL NUTRITION THERAPY II LABORATORY	
NUTR 63518	ADVANCED SPORTS NUTRITION	
NUTR 63524	PERSPECTIVE ON PREVENTION AND PRACTICE IN COMMUNITY NUTRITION	
NUTR 63591	NUTRITION SEMINAR [1]	
Culminating Requirement		
Choose from the following:		6
NUTR 61099	MASTER'S PROJECT [2]	
NUTR 63199	THESIS I [3]	
Additional Requirements or Concentration		
Choose from the following:		5-16
Additional Requirements for Students Not Declaring a Concentration		
Dietetic Internship Concentration		
Minimum Total Credit Hours:		**32-43**

[1] Maximum 3 credit hours of NUTR 63591 may be applied towards the degree.

[2] The master's project is intended for students who do not plan to continue graduate work beyond the master's degree. The option provides the opportunity to approach research and theory in a more applied manner. The presentation and interpretation of original research is not required. However, approval of the intended project by the student's master's project committee is required, as is the successful completion of an oral final examination conducted by the master's project committee.

[3] The thesis is intended for research-oriented students and is designed to provide the opportunity to conduct original research. Approval of a thesis proposal by the student's thesis committee is required as is the successful completion of an oral final examination conducted by the thesis committee.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements		
Additional Requirements (may be selected from other graduate courses in clearly related areas)		5
Minimum Total Credit Hours:		**5**

Dietetic Internship Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
NUTR 63522	COMMUNICATION, MANAGEMENT AND PROFESSIONALISM IN DIETETICS	3
NUTR 63525	DIETETIC PRACTICE: COMMUNITY	1
NUTR 63526	DIETETIC PRACTICE: MANAGEMENT	1
NUTR 63527	DIETETIC PRACTICE: CLINICAL	1
NUTR 63592	DIETETIC INTERNSHIP [1]	10
Minimum Total Credit Hours:		**16**

[1] All students in dietetic internships are required to obtain criminal background checks, including the Bureau of Criminal Investigation and Identification (BCII) for the State of Ohio and the Federal Bureau of Investigation (FBI) prior to beginning practice experiences, annually, until internship practice experiences are complete and additionally as required by facilities.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the physiological functions, metabolism, dietary requirements, deficiency symptoms, food sources and the metabolic utilization of macronutrients and micronutrients for physiological processes; and how they relate to nutrition, health promotion and disease prevention/treatment.
2. Contribute to the quality of life, well-being and wellness of individuals and families by utilizing their nutrition knowledge and participating in activities that promote nutritional well-being.
3. Demonstrate an understanding of research methods and apply knowledge gained by participation in research and/or outreach.

Full Description

The Master of Science degree in Nutrition emphasizes a strong nutritional sciences foundation through coursework and opportunities to participate in interdisciplinary research in community settings. Graduates obtain positions as nutrition-exercise specialists; cooperative extension nutrition specialists; higher education instructors; research associates; and as nutritionists in health care and community agencies such as Head Start and Women, Infants and Children (WIC).

The Nutrition major includes the following optional concentration:

- The **Dietetic Internship** concentration provide students with the resources and experiences needed to develop the skills necessary to become competent Registered Dietitian Nutritionists (RDN). Emphasis is placed on intellectual, technological and professional development while fostering ethical and humanitarian values.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

School Health Education (P-12) Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The School Health Education P-12 Additional Licensure Preparation program is designed for those who already have a bachelor's degree in education and want to add a P-12 health education endorsement to their existing Ohio teaching license. With a focus on comprehensive health education, this program will prepare you to provide students with the knowledge and skills necessary for healthy living. Read more...

Contact Information

- **Donna Bernert** | dbernert@kent.edu | 330-672-0682
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Evidence of valid Resident Educator or Professional State of Ohio teaching license

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions

- **Summer Term**
  - Rolling admissions

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements		
HED 54051	BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION	3
HED 54091	SCHOOL HEALTH EDUCATION VARIABLE CONTENT SEMINAR	1
HED 54550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	3
HED 64050	HEALTH BEHAVIOR	3
HED 64063	STRATEGIES IN HEALTH EDUCATION AND PROMOTION	3
HED 68092	DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION	3
Minimum Total Credit Hours:		**16**

Progression Requirements

- Must maintain a 3.000 overall GPA

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Students must complete a minimum of 50 Ohio Department of Education-required field experience hours. State or Federal background checks may be required for practicum or internship experiences.
- An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum B grade is required in each of these courses. This coursework would be in addition to requirements for the School Health Education non-degree program.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Health Education and Promotion program for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Demonstrate competency in health education content, health literacy skills and digital literacy skills for the purpose of instilling healthy behaviors in all learners.
2. Plan relevant, meaningful, age- and developmentally appropriate, ability centered and culturally sensitive school health education instruction and programs that are theoretically based, sequential and aligned with the national health education K-12 standards.
3. Implement a range of school health education instructional strategies equitably and reflectively to meet the diverse needs of all learners.
4. Use multiple methods of assessment to enhance the acquisition of functional health knowledge and health-related skill proficiency for all learners.
5. Work collaboratively with various stakeholders in advocating school health education as an integral component of the school experience, demonstrate ethical behavior and engage in and reflect on various professional learning.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The School Health Education (P-12) Additional Licensure Preparation non-degree program is designed for professionals who already hold a teaching license and who desire an additional teaching license in school health education. The program meets the national and state professional preparation standards for school health educators that emphasize program planning, implementation and evaluation of accurate and current health education information for diverse learners in PreK-1 2 educational settings.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete requirements for the master's program, in addition to courses that are prescribed here for endorsement.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for

state licensing boards at Kent State's website for professional licensure disclosure.

School Health Education - B.S.E.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

Promote healthy habits and behaviors with the School Health Education B.S.E. program. Learn to design and implement effective health education programs for K-12 students through a blend of classroom instruction and practical experience. Read more...

Contact Information

- **Laurie M. Wagner, MCHES** | lyoo@kent.edu | 330-672-0685
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

Council for the Accreditation of Educator Preparation

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

<<use standard admission language for undergraduates>>

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA; minimum C grade in all courses)		
HED 11570	PERSONAL HEALTH	3
HED 21030	INTRODUCTION TO HEALTH EDUCATION	3
HED 21050	HEALTH EDUCATION THEORIES	3
HED 30000	TEACHING HEALTH TO YOUNG LEARNERS [1]	3
HED 32530	DRUG USE AND MISUSE	3
HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC) [1]	5
HED 32544	HUMAN SEXUALITY	3
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
HED 42041	HEALTH COACHING	3
HED 44543	ADMINISTRATION OF SCHOOL HEALTH PROGRAMS	3
HED 44544	SEXUALITY EDUCATION PROGRAMS	3
HED 44550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	3
Additional Requirements (courses do not count in major GPA)		
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD (min C grade)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS) (min C grade)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS) (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10001	FLASHES 101	1
Kent Core Composition (minimum C grade)		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences (must be from two disciplines)		3
Additional Requirements or Concentration		
Choose from the following:		42-79
Additional Requirements for Students Not Declaring a Concentration		
Health and Physical Education concentration		
Minimum Total Credit Hours:		**120-157**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
HED 11590	COMMUNITY HEALTH EDUCATION (min C grade)	3
HED 42392	STUDENT TEACHING IN HEALTH EDUCATION (ELR) [1]	9
HED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE (min C grade)	3
PWS 10035	LIFETIME FITNESS (min C grade)	2
Health Education Electives, choose from the following (min C grade):		8
HED 32575	CONSUMER HEALTH	
HED 34060	SMALL GROUP PROCESS	
HED 42575	HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS	
HED 44025	WOMEN'S HEALTH ISSUES	
HED 46052	STRESS: RECOGNITION AND MANAGEMENT	
HED 46057	ADVANCED HUMAN SEXUALITY	
HED 47070	AIDS: ISSUES, EDUCATION AND PREVENTION	
Additional Requirements (courses do not count in major GPA)		
BSCI 10001	HUMAN BIOLOGY (KBS) (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
ETEC 47427	TECHNOLOGY AND LEARNING (min C grade)	3
or ETEC 47400	TRENDS IN EDUCATIONAL TECHNOLOGY	
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) (min C grade)	3
or PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS) (min C grade)	3
Kent Core Basic Sciences Laboratory		1
General Elective		1
Minimum Total Credit Hours:		**42**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Health and Physical Education Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ATTR/EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) (min C grade) [1]	4
EHHS 49592	STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION (ELR) [2]	10
HED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE (min C grade)	3
PESP 15010	INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT (min C grade)	3
PESP 15011	DEVELOPMENT AND ANALYSIS OF INVASION GAMES (min C grade)	3
PESP 15015	DEVELOPMENT AND ANALYSIS OF NET GAMES (min C grade)	3
PESP 15016	DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES (min C grade)	3
PESP 15020	FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE (min C grade)	3
PESP 25025	TEACHING IN PHYSICAL EDUCATION (min C grade) [2]	3
PESP 25026	OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION (min C grade)	3
PESP 25033	LIFESPAN MOTOR DEVELOPMENT (min C grade)	3
PESP 25056	ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT (min C grade)	3
PESP 35020	FITNESS EDUCATION (min C grade)	3
PESP 35084	MOTOR SKILL ANALYSIS (min C grade)	3
PESP 45037	ADAPTED PHYSICAL EDUCATION (min C grade) [2]	3
PESP 45051	ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS (min C grade) [2]	3
PESP 45053	ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT (min C grade) [2]	3
PESP 45058	SECONDARY SCHOOL PHYSICAL EDUCATION METHODS (min C grade) [2]	3
PESP 45059	SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT (min C grade) [2]	3
PESP 49525	INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION (min C grade)	3
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) (min C grade)	3
Physical Activity, Wellness and Sport (PWS) Electives, choose from the following (min C grade):		2
PWS 10020	DEVELOPMENT AND CONDITIONING	
PWS 10036	FITNESS WALKING	
PWS 10306	JOGGING	
PWS 10403	BEGINNING BALLROOM DANCE	
PWS 10413	LATIN SOCIAL DANCE	
PWS 11426	VARSITY SPORT TRAINING AND CONDITIONING	
PWS 11604	BEGINNING KARATE	
PWS 11633	JU JITSU	
PWS 11634	SELF-DEFENSE	
PWS 11663	BEGINNING YOGA	
PWS 11664	PILATES	
PWS 11665	ZUMBA	
PWS 11666	BEGINNING SPINNING	
PWS 11667	BOOT CAMP I	
PWS 11673	INTERMEDIATE YOGA	
PWS 11674	INTERMEDIATE PILATES	
PWS 11675	ZUMBA TONING	
PWS 12324	WEIGHT TRAINING	
PWS 12325	WOMEN'S WEIGHT TRAINING	
PWS 12424	EXERCISE AND WEIGHT CONTROL	
PWS 12425	NAUTILUS EXERCISES	
PWS 13003	DANCE EXERCISE	
PWS 13010	JUDO-JUJITSU	
PWS 13016	CYCLING	
PWS 13040	CARDIO KICKBOXING	
Additional Requirements (courses do not count in major GPA)		
Kent Core Humanities and Fine Arts (minimum one course from each)		3
Kent Core Additional		3
Minimum Total Credit Hours:		**79**

[1] Students who have successfully completed BSCI 11010 may use that course in place of ATTR 25057/EXSC 25057.

[2] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

Progression Requirements

Students must meet all professional requirements for admission to advanced study.

To manage enrollment and deliver high-quality programs, the faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA[1]) at Kent State University; non-academic criteria; and other specific program criteria.

Please be aware that reapplication may be necessary if postponing advanced study coursework or if withdrawn for one year or more.

[1] Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.750	2.750

- Students in the Health Physical Education concentration must provide evidence of certification in First Aid, CPR, and minimum equivalence to level 5 competency in Red Cross Swimming.

Roadmaps

School Health Education (No Concentration)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	HED 11590	COMMUNITY HEALTH EDUCATION	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
!	HED 11570	PERSONAL HEALTH	3
!	PHIL 11001 or PHIL 21001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) or INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
!	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	PWS 10035	LIFETIME FITNESS	2
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Three		
	Requirement: minimum 2.750 overall GPA by the end of term; minimum 2.750 major GPA		
!	BSCI 10001	HUMAN BIOLOGY (KBS)	3
	HED 21030	INTRODUCTION TO HEALTH EDUCATION	3
!	PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	Requirement: apply online for Advanced Study by the second Friday of the term; 2.750 minimum overall GPA; minimum 2.750 major GPA		
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	HED 32530	DRUG USE AND MISUSE	3
	HED 32544	HUMAN SEXUALITY	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement		1
	General Elective		1
		Credit Hours	**14**
	Semester Five		
	Requirement: minimum 2.750 major GPA; minimum 2.750 overall GPA		
	HED 21050	HEALTH EDUCATION THEORIES	3
!	HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	5
	ETEC 39525	EDUCATIONAL TECHNOLOGY	3
	NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
	Health Education (HED) Elective		2
		Credit Hours	**16**
	Semester Six		
	Requirement: apply for student teaching; minimum 2.750 major GPA; minimum 2.750 overall GPA		
	HED 30000	TEACHING HEALTH TO YOUNG LEARNERS	3
	HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
	HED 44543	ADMINISTRATION OF SCHOOL HEALTH PROGRAMS	3
	HED 44544	SEXUALITY EDUCATION PROGRAMS	3
	HED 44550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	3
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.750 major GPA; minimum 2.750 overall GPA		

	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	HED 42041	HEALTH COACHING	3
	ETEC 47427 or ETEC 47400	TECHNOLOGY AND LEARNING or TRENDS IN EDUCATIONAL TECHNOLOGY	3
	Health Education (HED) Electives		6
		Credit Hours	**15**
	Semester Eight		
	Requirement: minimum 2.750 major GPA; minimum 2.750 overall GPA		
	HED 42392	STUDENT TEACHING IN HEALTH EDUCATION (ELR)	9
!	HED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

Health and Physical Education Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	HED 11570	PERSONAL HEALTH	3
	PESP 15010	INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT	3
	PESP 15020	FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	PESP 15015	DEVELOPMENT AND ANALYSIS OF NET GAMES	3
	PESP 25026	OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION	3
!	Physical Activity, Wellness and Sport (PWS) Elective		1
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	HED 21030	INTRODUCTION TO HEALTH EDUCATION	3
	PESP 15011	DEVELOPMENT AND ANALYSIS OF INVASION GAMES	3
	PESP 15016	DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	HED 32530	DRUG USE AND MISUSE	3
	PESP 25056	ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Physical Activity, Wellness and Sport (PWS) Electives		1
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Five		
	Requirement: minimum 2.750 overall GPA by the end of term; minimum 2.750 major GPA		
	ATTR 25057 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
	HED 21050	HEALTH EDUCATION THEORIES	3
	PESP 25033	LIFESPAN MOTOR DEVELOPMENT	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Six		
	Requirement: apply online for Advanced Study by the second Friday of the term; 2.750 minimum overall GPA; minimum 2.750 major GPA		
	HED 30000	TEACHING HEALTH TO YOUNG LEARNERS	3
	HED 32544	HUMAN SEXUALITY	3
	HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
	PESP 25025	TEACHING IN PHYSICAL EDUCATION	3
	PESP 35084	MOTOR SKILL ANALYSIS	3
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.750 major GPA; minimum 2.750 overall GPA		
!	HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	5
	HED 42041	HEALTH COACHING	3
	PESP 35020	FITNESS EDUCATION	3
	SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC)	3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Eight		
	Requirement: apply for student teaching; minimum 2.750 major GPA; minimum 2.750 overall GPA		
	HED 44543	ADMINISTRATION OF SCHOOL HEALTH PROGRAMS	3
	HED 44544	SEXUALITY EDUCATION PROGRAMS	3
	HED 44550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	3
	PESP 45058	SECONDARY SCHOOL PHYSICAL EDUCATION METHODS	3
	PESP 45059	SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT	3
		Credit Hours	**15**
	Semester Nine		
	Requirement: minimum 2.750 major GPA; minimum 2.750 overall GPA		
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
	PESP 45037	ADAPTED PHYSICAL EDUCATION	3
!	PESP 45051	ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS	3
!	PESP 45053	ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT	3
		Credit Hours	**15**
	Semester Ten		
	Requirement: minimum 2.750 major GPA; minimum 2.750 overall GPA		
	EHHS 49592	STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION (ELR)	10
!	HED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE	3
!	PESP 49525	INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION	3
		Credit Hours	**16**
		Minimum Total Credit Hours:	**157**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of the program will be able to:

1. Analyze factors affecting the successful implementation of health education and Coordinated School Health (CSH); select media and resources best suited to implement plans for diverse learners; exhibit competence in carrying out planned programs; and monitor educational programs, adjusting objectives and instructional strategies as necessary.
2. Evaluate the effectiveness of CSH; develop plans to assess student achievement of program objectives; carry out evaluation plans; interpret results of program evaluation; and infer implications of evaluation findings for future programs.
3. Coordinate provision of health education programs and services and develop a plan for comprehensive school health education with other components of a school health program; demonstrate the dispositions and skills to facilitate cooperation among health educators, other teachers, and appropriate school staff; formulate practical modes of collaboration among health educators in all settings and other school and community health professionals; and organize professional development programs for teachers, other school personnel, community members, and other interested individuals.
4. Utilize computerized health information retrieval systems effectively; establish effective consultative relationships with those requesting assistance in solving health-related problems; interpret and respond to requests for health information; and select effective educational resource materials for dissemination.
5. Communicate health information needs, concerns, and resources; interpret concepts, purposes, and theories of health education; predict the impact of social value systems on health education programs; select a variety of communication methods and techniques in providing health information; and foster communication between health care providers and consumers.
6. Obtain health-related data about social and cultural environments, growth and development factors, and needs and interests of students; distinguish between the behaviors that foster and those that hinder well-being; and determine health education needs based on observed and obtained data.
7. Recruit school and community representatives to support and assist in program planning; develop a logical scope and sequence plan for a health education program; formulate appropriate and measurable learner objectives; and design educational strategies consistent with specified learner objectives.
8. Communicate and advocate for health and school health education by analyzing and responding to factors that impact current and future needs in comprehensive school health education, applying a variety of communication methods and techniques, advocating for school health education, and demonstrating professionalism.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity
- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:
  - MATH 14001 (or equivalent)
  - MATH 14002
- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following courses (i.e., both courses must be completed with a minimum C grade for graduation):
  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration (minimum C grade) to be eligible for advanced study. Students should meet with their advisor.
- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science, Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.
- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas: pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may

delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science in Education degree in School Health Education prepares individuals to teach health education in the schools. Graduates are eligible to pursue the state's multi-age licensure. Students complete a variety of field experiences and a culminating student teaching experience.

The Health and Physical Education optional concentration allows students to seek Ohio teacher licensure in both health education and physical education. The program is designed to be completed in five years, and can allow students to satisfy up to 12 credit hours of program requirements with graduate courses.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Speech Language Pathology - M.A.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Master of Arts degree in Speech Language Pathology educates competent speech-language pathologists to critically evaluate communication disorders and the methods used in the habilitation and rehabilitation of those disorders.

Contact Information

- **Ali Barikroo** | abarikro@kent.edu | 330-672-0250
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Speech-language pathologists

- 24.9% much faster than the average
- 162,600 number of jobs
- $80,480 potential earnings

Accreditation

The Master of Arts degree in Speech Language Pathology (residential) at Kent State University is accredited by the Council on Academic

Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association, 2200 Research Boulevard, #310, Rockville, MD 20850, 800-498-2071 or 301-296-5700.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

The admissions process for the master's degree program begins by submitting an application through the Communication Sciences and Disorders Centralized Application Service (CSDCAS). Only after program acceptance, applicants choosing to attend Kent State will be asked to apply to Kent State University.

- Bachelor's degree from an accredited college or university[1]
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

1 The bachelor's degree may not necessarily be in the areas of speech-language pathology and/or audiology. However, students wishing to enter the master's degree who have neither completed an undergraduate degree in speech-language pathology and audiology nor possess the necessary prerequisite coursework, are required to complete that coursework.

2 International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: January 15
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
- **Spring Semester**
  - Priority deadline: October 1
    Admission for spring semester is reserved for Kent State University students in the combined B.S./M.A. degree program. All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
SPA 53404	AURAL REHABILITATION [1]	3
SPA 60708	CRITICAL ANALYSIS OF RESEARCH	2
SPA 64301	APHASIA	3
SPA 64302	LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD	3
SPA 64303	DISORDERS OF ARTICULATION AND PHONOLOGY	3
SPA 64304	ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS	3
SPA 64305	FLUENCY DISORDERS	3
SPA 64306	VOICE DISORDERS	2
SPA 64308	LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS	3
SPA 64311	AUTISM SPECTRUM DISORDERS [2]	2
SPA 64312	MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS	3
SPA 64354	PEDIATRIC MEDICAL ISSUES	2
SPA 64356	ADULT DYSPHAGIA	3
SPA 64891	SEMINAR: COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY	2
Clinical Requirements [3]		
SPA 64492	CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY	8
SPA 64525	PUBLIC SCHOOL TECHNIQUES IN COMMUNICATION DISORDERS:INQUIRY INTO PROFESSIONAL PRACTICE	3
SPA 64592	STUDENT TEACHING IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY	8
SPA 65092	CLINICAL PRACTICUM I IN SPEECH LANGUAGE PATHOLOGY	3
SPA 65192	CLINICAL PRACTICUM II IN SPEECH AND LANGUAGE PATHOLOGY	2-3
SPA 65292	CLINICAL PRACTICUM III IN SPEECH LANGUAGE PATHOLOGY	2-3
SPA 65392	CLINICAL PRACTICUM IV IN SPEECH LANGUAGE PATHOLOGY	3
Minimum Total Credit Hours:		**67**

1 SPA 53404 is required for students who didn't complete SPA 43404 (or equivalent) at the bachelor's degree level. Students who are waived the course may graduate with the M.A. degree with 64 credit hours.

2 SPA 64311 is required for students who did not complete Kent State's Autism Spectrum Disorders minor or who do not have previous appropriate coursework in autism spectrum disorders approved by the program coordinator. Students who are waived the course may graduate with the M.A. degree with 65 credit hours.

3 Students who do not plan to be licensed and certified may be waived from the clinical practicum courses SPA 64492, SPA 64525, SPA 64592, SPA 65092, SPA 65192, SPA 65292 and SPA 65392. Therefore, students may graduate with the M.A. degree with fewer than 62 total credit hours but no fewer than 32 total credit hours.

Progression Requirements

To meet requirements for certification by the American Speech-Language-Hearing Association (ASHA), students must register and successfully complete the program's clinical practicum sequence (see Program Requirements above). Practicum registration is required each semester that a student is enrolled, including registration for the school-based practicum and externship placement.

Thesis Option

Students who elect to complete a thesis must register for SPA 64199 for a total of 6 credit hours. It is expected that students will continuously register for SPA 64199 — and, thereafter SPA 64299 — each semester until all requirements for the thesis have been met. Credit hours for SPA 64299 do not count toward the degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Clinical Settings

For any clinical practicum (on campus or off campus) in speech pathology or audiology that requires candidates to be placed within the on-campus speech and hearing clinics, school or agency setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background check and submit the results to authorized personnel at their assigned clinic/school/agency before the beginning of their placement or the first day of the semester in which the practicum will take place. Authorized school/agency personnel will determine whether a candidate may participate in practicum in the off-campus setting. The BCII and FBI background checks are good for one year and the candidates will need to complete one each year that they are in graduate school.

Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed one month prior to clinical practicum. Candidates are responsible for fees incurred for this requirement. For more information on this policy contact the Clinical Coordinators for the Speech and Hearing Clinics. Visit the Ohio Department of Education website for more information about background check requirements for those wishing to hold pupil personnel licenses in Ohio. Contact the Office of Professional Conduct at the Ohio Department of Education for specific information about the results of the background check.

Licensure Information

Candidates seeking Speech-Language Pathologist licensure are required to pass Praxis II test Speech-Language Pathology and minimum of 400 clock hours of supervised clinical experience in the practice of speech language pathology. Additional clinical coursework is required for Ohio Board of Speech Pathology License and optional ASHA certification.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

First Year		
Fall Semester		**Credits**
SPA 64302	LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD	3
SPA 64303	DISORDERS OF ARTICULATION AND PHONOLOGY	3
SPA 64305	FLUENCY DISORDERS	3
SPA 65092	CLINICAL PRACTICUM I IN SPEECH LANGUAGE PATHOLOGY	3
	Credit Hours	**12**
Spring Semester		
SPA 60708	CRITICAL ANALYSIS OF RESEARCH	2
SPA 64301	APHASIA	3
SPA 64308	LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS	3
SPA 64311	AUTISM SPECTRUM DISORDERS	2
SPA 64354	PEDIATRIC MEDICAL ISSUES	2
SPA 65192	CLINICAL PRACTICUM II IN SPEECH AND LANGUAGE PATHOLOGY	3
	Credit Hours	**15**
Summer Term		
SPA 64304	ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS	3
SPA 64306	VOICE DISORDERS	2
SPA 65292	CLINICAL PRACTICUM III IN SPEECH LANGUAGE PATHOLOGY	2
	Credit Hours	**7**
Second Year		
Fall Semester		
SPA 53404	AURAL REHABILITATION	3
SPA 64312	MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS	3
SPA 64356	ADULT DYSPHAGIA	3
SPA 64891	SEMINAR: COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY	2
SPA 65392	CLINICAL PRACTICUM IV IN SPEECH LANGUAGE PATHOLOGY	3
	Credit Hours	**14**
Spring Semester		
SPA 64525	PUBLIC SCHOOL TECHNIQUES IN COMMUNICATION DISORDERS:INQUIRY INTO PROFESSIONAL PRACTICE	3
SPA 64592	STUDENT TEACHING IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY	8
	Credit Hours	**11**
Summer Term		
SPA 64492	CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY	8
	Credit Hours	**8**
	Minimum Total Credit Hours:	**67**

Program Learning Outcomes

Graduates of this program will be able to:

1. Effectively communicate knowledge and interact with diverse populations (age, culture, disability).

2. Collect, analyze, synthesize and apply research and data regarding the nature, prevention, diagnosis and treatment of communication disorders throughout the lifespan and across cultures.
3. Engage in the development and implementation of research-based and ethical prevention, assessment, diagnostic and treatment plans for individuals with a variety of communication disorders throughout the lifespan.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Speech Pathology and Audiology - B.S.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Speech Pathology and Audiology B.S. program at Kent State University offers a dynamic and innovative learning experience for students passionate about helping individuals with communication disorders. With state-of-the-art facilities, expert faculty, and a curriculum that emphasizes hands-on clinical experience, this program provides students with the skills and knowledge necessary to succeed in this rewarding field. Read more...

Contact Information

- **Cara O'Flannigan** | coflanni@kent.edu | 330-672-2141
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In-person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Audiologists

- 13.3% much faster than the average
- 13,800 number of jobs
- $81,030 potential earnings

Health specialties teachers, postsecondary

- 20.5% much faster than the average
- 254,000 number of jobs
- $99,090 potential earnings

Speech-language pathologists

- 24.9% much faster than the average
- 162,600 number of jobs
- $80,480 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Admission to this major is selective. A minimum 3.000 GPA is required to be admitted to the major. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 3.000. They may then submit a change of program to declare this major.

Starting with the spring 2026 admission term, a minimum 3.000 GPA will no longer be required. Admission decisions will be based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Admission to the combined bachelor's/master's degree program: Minimum 3.000 GPA (after 90 earned credit hours) and three letters of recommendation.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	3-4
or PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	

PSYC 41043	BASIC LEARNING PROCESSES	3
SPA 10002	INTRODUCTION TO COMMUNICATION DISORDERS AND DIFFERENCES	3
SPA 14500	INTRODUCTION TO PSYCHOLINGUISTICS FOR COMMUNICATION SCIENCES AND DISORDERS	3
SPA 33101	HEARING AND SPEECH SCIENCE	3
SPA 34102	APPLIED PHONETICS	3
SPA 34103	ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING	3
SPA 34104	SPEECH AND LANGUAGE ACQUISITION	3
SPA 34106	ARTICULATORY AND PHONOLOGICAL DISORDERS	3
SPA 34107	LANGUAGE DISORDERS IN CHILDREN AND ADOLESCENTS	3
SPA 43402	AUDIOMETRY	3
SPA 43404	AURAL REHABILITATION	3
SPA 43405	CLINICAL PREPARATION IN AUDIOLOGY (ELR)	2
SPA 44111	NEURAL PROCESSES	3
SPA 44112	AGE-RELATED CHANGES IN COMMUNICATION	3
SPA 44310	CLINICAL PROCEDURES IN SPEECH PATHOLOGY	3
SPA 44311	CLINICAL PREPARATION IN SPEECH-LANGUAGE PATHOLOGY (ELR) (WIC) [1]	2
Additional Requirements (courses do not count in major GPA)		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Biology (BSCI) Course from Kent Core [2]		3-4
Chemistry (CHEM) or Physics (PHY) Course from Kent Core (except PHY 11030) [2]		3-4
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [3]		34
Minimum Total Credit Hours:		**120**

1 A minimum C grade must be earned to fulfill writing-intensive requirement.

2 Students must complete a laboratory from the Kent Core Basic Sciences category.

3 Maximum 9 credit hours may be used toward the major from courses in the M.A. degree for students admitted into the combined bachelor's/master's degree program. Any student interested in the combined program will be required to complete a total of 111 (undergraduate) credit hours prior to entry into the master's degree program.

Progression Requirements

- Minimum 3.000 overall GPA[1] (after 60 credit hours) is required to be admitted into the professional phase of the major.
- Students will not be able to register for professional phase courses until they meet the required GPA.[1] Professional phase are all SPA courses required in the major with the exception of SPA 10002, SPA 14500, SPA 34102, SPA 34103, SPA 34104, SPA 34107 and SPA 44111.

1 Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	UC 10001	FLASHES 101	1
	Biology (BSCI) Course from Kent Core		3-4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	SPA 10002	INTRODUCTION TO COMMUNICATION DISORDERS AND DIFFERENCES	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
	SPA 14500	INTRODUCTION TO PSYCHOLINGUISTICS FOR COMMUNICATION SCIENCES AND DISORDERS	3
!	SPA 34102	APPLIED PHONETICS	3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Four		
	MATH 10041 or PSYC 21621	INTRODUCTORY STATISTICS (KMCR) or QUANTITATIVE METHODS IN PSYCHOLOGY I	3-4
	PSYC 41043	BASIC LEARNING PROCESSES	3
	SPA 34103	ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING	3
	SPA 34104	SPEECH AND LANGUAGE ACQUISITION	3
	Chemistry (CHEM) or Physics (PHY) Course from Kent Core (except PHY 11030)		3-4
		Credit Hours	**15**
	Semester Five		
	Minimum 3.000 overall GPA to be admitted into the professional phase of the major; apply after 60 credit hours are completed or in progress.		
!	SPA 33101	HEARING AND SPEECH SCIENCE	3
	SPA 34107	LANGUAGE DISORDERS IN CHILDREN AND ADOLESCENTS	3
	SPA 44111	NEURAL PROCESSES	3
	General Electives		6
		Credit Hours	**15**
	Semester Six		
!	SPA 34106	ARTICULATORY AND PHONOLOGICAL DISORDERS	3
!	SPA 43402	AUDIOMETRY	3
!	SPA 43405	CLINICAL PREPARATION IN AUDIOLOGY (ELR)	2
!	SPA 44112	AGE-RELATED CHANGES IN COMMUNICATION	3
	General Electives		4
		Credit Hours	**15**
	Semester Seven		
!	SPA 43404	AURAL REHABILITATION	3
!	SPA 44310	CLINICAL PROCEDURES IN SPEECH PATHOLOGY	3
!	SPA 44311	CLINICAL PREPARATION IN SPEECH-LANGUAGE PATHOLOGY (ELR) (WIC)	2
	General Electives		7
		Credit Hours	**15**
	Semester Eight		
	General Electives		14
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge of the nature of speech, language and hearing processes and disorders in children and adults.

2. Demonstrate the skills necessary to be successful speech-language pathologists, audiologists or other health and human service professionals.
3. Gain entry into graduate programs in speech pathology, audiology and/or related fields, or obtain positions in health and human services related professions.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science degree in Speech Pathology and Audiology is a pre-professional program focusing on the basic sciences of human communication, as well as the evaluation and treatment of communication disorders. This program provides a firm foundation for continuing to the master's degree in speech-language pathology or the doctorate in audiology.

The curriculum integrates a sequence of coursework designed to provide a strong liberal arts background and an understanding of normal and disordered aspects of the human communication process. Specific coursework includes anatomy and physiology of the speech and hearing mechanisms, hearing and speech science, neurology, phonetics, normal speech and language development, speech and language disorders, audiometry and aural rehabilitation.

Speech-language pathologists are required to hold a master's degree, while audiologists hold a doctorate in audiology. Both are employed in a variety of settings, including rehabilitation centers, hospitals, schools, community clinics, private practice, research laboratories and colleges and universities.

Student may apply early to the Master of Arts degree in Speech Language Pathology and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Speech Pathology and Audiology - Minor

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

Through the Speech Pathology and Audiology minor, you'll explore the intricacies of speech-language pathology and audiology, learning from our expert faculty in the field. Whether you plan to pursue graduate studies or want to work in a clinical setting, our program will provide you with the foundational knowledge and hands-on experience you need to succeed. Read more...

Contact Information

- **Cara O'Flannigan** | coflanni@kent.edu | 330-672-2141
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.750 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
SPA 10002	INTRODUCTION TO COMMUNICATION DISORDERS AND DIFFERENCES	3
or SPA 34106	ARTICULATORY AND PHONOLOGICAL DISORDERS	
SPA 33101	HEARING AND SPEECH SCIENCE [1]	3
SPA 34102	APPLIED PHONETICS	3
SPA 34103	ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING	3
SPA 34104	SPEECH AND LANGUAGE ACQUISITION	3
SPA 43402	AUDIOMETRY [1]	3
SPA 43404	AURAL REHABILITATION	3
Minimum Total Credit Hours:		**21**

[1] With permission, students may register for SPA 33101 and SPA 43402 without being admitted into the SPA Professional Phase.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.750	2.00

- Students must meet with the speech pathology and audiology undergraduate coordinator at the time they declare the minor if they are interested in applying to a master's program in speech pathology upon completion of the minor. Students will very likely need to take additional non-speech pathology courses (e.g. statistics, chemistry or physics, biology) to meet the requirements of ASHA (the professional, scientific and credentialing association for the field) and graduate schools to which they apply.

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduate of this program will be able to:

1. Increase their knowledge of the fields of speech pathology and audiology, and the professional roles of speech-language pathologists and audiologists.
2. Understand the basic principles of speech production and phonetic transcription of English with the International Phonetic Alphabet.
3. Understand acoustics and psychoacoustic as they relate to speech production and perception.
4. Describe typical speech and language development and apply this knowledge to analyze the language development of individuals of various ages.
5. Describe the functional anatomy and physiology of the respiratory phonatory, articulatory, neural, and auditory systems as they are used within typical and atypical speech and hearing.
6. Measure human hearing by pure-tone and speech audiometry, evaluate middle ear function by immittance audiometry, screen for hearing loss, and identify pathologies of the conductive and sensorineural systems.
7. Identify disordered speech and language development in children, adolescents, and/or adults and select appropriate, evidence-based intervention procedures to address areas of need.

Full Description

The Speech Pathology and Audiology minor provides students with an understanding of the basic sciences of human communication, as well as introduces them to the evaluation and treatment of communication disorders. The coursework includes a solid foundation in typical and atypical development that may be useful to students considering graduate degrees in speech pathology, audiology, psychology, counseling and other health and human service fields.

Students interested in entering into a master's program in speech pathology or audiology upon completion of the minor should contact the undergraduate program coordinator when the minor is declared to discuss any additional prerequisite coursework that may be required to meet the educational requirements of the American Speech-Language-Hearing Association.

Sports Medicine - B.S.

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Bachelor of Science in Sports Medicine program equips you with the knowledge and skills needed to work with athletes and patients to prevent, diagnose and treat injuries. With access to advanced facilities, expert faculty and real-world opportunities, you'll be prepared for a fulfilling career in sports medicine. Read more...

Contact Information

- **Jay C. Jonas, Ph.D.** | jjonas2@kent.edu | 330-672-7900
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Exercise physiologists

- 11.3% much faster than the average
- 19,800 number of jobs
- $50,280 potential earnings

Physical therapists

- 18.2% much faster than the average
- 258,200 number of jobs
- $91,010 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ATTR 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	2
or EXSC 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	
or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	
ATTR 15012	DOCUMENTATION IN HEALTH CARE	2
ATTR 20001	SOCIOCULTURAL ASPECTS OF HEALTH CARE	3
ATTR 25036	RESPONDING TO EMERGENCIES	3
ATTR 25037	PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE	3
ATTR 25038	PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE UPPER EXTREMITY, HEAD AND NECK	3
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
ATTR 35037	ADVANCED PHYSICAL ASSESSMENT TECHNIQUES	3
ATTR 35040	STRENGTH AND CONDITIONING	2
ATTR 35050	NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL	3
ATTR 35054	BIOMECHANICS	3
ATTR 35062	EVIDENCE-BASED RESEARCH IN HEALTH CARE	3
ATTR 43018	ETHICAL LEADERSHIP FOR HEALTH CARE (WIC) [1]	3
ATTR 45019	PROFESSIONAL RESPONSIBILITY AND MANAGEMENT IN HEALTH CARE	3
ATTR 45040	PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS	3
ATTR 45041	ADVANCED THERAPEUTIC INTERVENTIONS	3
ATTR 45492	INTER-PROFESSIONAL INTERNSHIP IN SPORTS MEDICINE (ELR)	3
Additional Requirements (courses do not count in major GPA)		
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30130	HUMAN PHYSIOLOGY	3
BSCI 30140	CELL BIOLOGY	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
EXSC 35068	STATISTICS FOR THE EXERCISE SCIENTIST	3
EXSC 35080	PHYSIOLOGY OF EXERCISE	4
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		6

Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (must be from two disciplines)	3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	3
Minimum Total Credit Hours:	**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ATTR 15003 or EXSC 15003 or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES or CAREERS IN HEALTH AND MEDICAL SCIENCES	2
ATTR 15012	DOCUMENTATION IN HEALTH CARE	2
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
	Credit Hours	**15**
Semester Two		
ATTR 25036	RESPONDING TO EMERGENCIES	3
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
MATH 11022	TRIGONOMETRY (KMCR)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
Kent Core Requirement		3
	Credit Hours	**17**
Semester Three		
ATTR 20001	SOCIOCULTURAL ASPECTS OF HEALTH CARE	3
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
ATTR 35040	STRENGTH AND CONDITIONING	2
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Kent Core Requirement		3
	Credit Hours	**14**
Semester Five		
ATTR 25037	PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE	3
ATTR 35062	EVIDENCE-BASED RESEARCH IN HEALTH CARE	3
BSCI 30140	CELL BIOLOGY	4
EXSC 35068	STATISTICS FOR THE EXERCISE SCIENTIST	3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Six		
ATTR 25038	PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE UPPER EXTREMITY, HEAD AND NECK	3
ATTR 35037	ADVANCED PHYSICAL ASSESSMENT TECHNIQUES	3
ATTR 35050	NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL	3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Seven		
ATTR 35054	BIOMECHANICS	3
ATTR 45019	PROFESSIONAL RESPONSIBILITY AND MANAGEMENT IN HEALTH CARE	3
BSCI 30130	HUMAN PHYSIOLOGY	3
Kent Core Requirement		3
	Credit Hours	**12**
Semester Eight		
ATTR 43018	ETHICAL LEADERSHIP FOR HEALTH CARE (WIC)	3
ATTR 45040	PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS	3
ATTR 45041	ADVANCED THERAPEUTIC INTERVENTIONS	3
ATTR 45492	INTER-PROFESSIONAL INTERNSHIP IN SPORTS MEDICINE (ELR)	3
EXSC 35080	PHYSIOLOGY OF EXERCISE	4
	Credit Hours	**16**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses

Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Develop foundational knowledge for admission to advanced studies in graduate athletic training programs or employment in associated sports medicine fields.
2. Demonstrate sound decision-making through analysis and application in the prevention, management and resolution of health-related issues associated with sports medicine issues.
3. Engage in comprehensive sports medicine care while integrating disciplined-specific, synthesized, creative, respectful and ethical elements.
4. Develop confidence and competence to successfully transition into practice and/or higher education programs in sports medicine.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The B.S. degree in Sports Medicine will focus on the knowledge and skills that are required for sports medicine and athletic training professionals with specific coursework in anatomy, physiology, kinesiology, biomechanics, chemistry, physics, basics of sports medicine, strength and conditioning, first aid, pathologies of injury and illness, pathologies of general medical conditions, pharmacology, therapeutic intervention in health care (including modality application and rehabilitation), healthcare organization and management, emergency medical skills, documentation and record keeping in health care and psychology.

Students completing this program gain experience in direct patient care and patient care skills, preparing them for their specific career path. Direct patient care skills taught and evaluated include, but are not limited to, first aid and CPR; assessment of biomechanics; gait analysis; goniometry; manual muscle testing; postural assessment; palpation; auscultation; emergency management; and obtaining medical and family histories through patient encounters.

Sports Medicine: Administration - Minor

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Sports Medicine Administration minor provides students with a comprehensive understanding of the sports medicine industry, including injury prevention and treatment, athletic training, rehabilitation and program management. Through coursework and hands-on experiences, students gain valuable skills and knowledge that can be applied to a variety of careers in the sports industry. Read more...

Contact Information

- **Jay C. Jonas, Ph.D.** | jjonas2@kent.edu | 330-672-7900
- Speak with an Advisor

Fully Offered

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
ATTR 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	2
or EXSC 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	
or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	
ATTR 15012	DOCUMENTATION IN HEALTH CARE	2
ATTR 20001	SOCIOCULTURAL ASPECTS OF HEALTH CARE	3
ATTR 25036	RESPONDING TO EMERGENCIES	3
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
ATTR 35062	EVIDENCE-BASED RESEARCH IN HEALTH CARE	3
ATTR 43018	ETHICAL LEADERSHIP FOR HEALTH CARE (WIC)	3
ATTR 45019	PROFESSIONAL RESPONSIBILITY AND MANAGEMENT IN HEALTH CARE	3
Minimum Total Credit Hours:		**23**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of different professions and their scope of practice in the medical and health care fields.
2. Demonstrate an understanding of required patient documentation and administrative policies and procedures associated in the medical and health care fields.
3. Demonstrate an understanding of social cultural issues associated with the care and treatment of patients.
4. Demonstrate an understanding of clinical skills required for first responds when responding to emergencies.
5. Demonstrate an understanding and working knowledge of fundamental neuromuscular and musculoskeletal anatomy and physiology as it relates to injury and illnesses commonly seen in the fields of sports medicine.
6. Demonstrate an understanding of
   a. professional roles and administrative responsibilities of individuals in the medical and health care professions;
   b. the professional role in establishing and maintaining professional ethical standards in the care and treatment of patients; and
   c. an appreciation for the standards for developing and using evidence-based research into clinical practice in medical and health care fields.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Full Description

The Sports Medicine: Administration minor focuses on administrative and academic information and skills for students who want to enter into sports medicine administration positions in hospitals, clinics, physician offices and academic research.

The minor's curriculum provides the common skills, techniques and knowledge associated with administrative responsibilities in medical and health care, as well as academic careers, including, but not limited to, evidence-based research, medical and healthcare ethics and administration in health care.

Sports Medicine: General Medical and Emergency Care - Minor

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Sports Medicine: General Medical Emergency Care minor provides you with the knowledge and skills necessary to assist athletes and patients in emergency situations. You will learn how to evaluate, diagnose and treat common injuries, as well as how to provide basic life support and emergency medical care. With hands-on training and real-world experience, you'll be well-prepared to work in a variety of settings, from athletic training rooms to emergency rooms. Read more...

Contact Information

- **Jay C. Jonas, Ph.D.** | jjonas2@kent.edu | 330-672-7900
- Speak with an Advisor

Fully Offered

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Certificate Requirements		
ATTR 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	2
or EXSC 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	
or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	
ATTR 15012	DOCUMENTATION IN HEALTH CARE	2
ATTR 20001	SOCIOCULTURAL ASPECTS OF HEALTH CARE	3
ATTR 25036	RESPONDING TO EMERGENCIES	3
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
Certificate Electives, choose from the following:		6-8
ATTR 35037	ADVANCED PHYSICAL ASSESSMENT TECHNIQUES	
ATTR 35045	EMERGENCY MEDICAL TECHNICIAN-BASIC	
ATTR 35050	NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL	
ATTR 45040	PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS	
Minimum Total Credit Hours:		**24**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of different professions and their scope of practice in the medical and health care fields.
2. Demonstrate an understanding of required patient documentation and administrative policies and procedures associated in the medical and health care fields.
3. Demonstrate an understanding of social cultural issues associated with the care and treatment of patients.
4. Demonstrate an understanding of clinical skills required for first responds when responding to emergencies.
5. Demonstrate an understanding and working knowledge of fundamental neuromuscular and musculoskeletal anatomy and physiology as it relates to injury and illnesses commonly seen in the fields of sports medicine.
6. Demonstrate an understanding of
   a. emergency medical management of injury and medical conditions;
   b. general medical and acute and chronic injuries sustained to the head, neck, thorax and abdomen;
   c. the role of neurology structure and function in healthy and affects patient populations; and

d. the role of pharmaceutical interventions in the treatment of common pathologies.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Full Description

The Sports Medicine: General Medical and Emergency Care minor focuses on general medical, pharmaceutic and EMT skills and is designed for students interested in medical or pharmacy school.

The minor's curriculum includes general anatomy and physiology of the head, neck, thorax, abdomen and neurologic structures; and organs associated with general medical pathologies scene in the sports medicine field (including, but not limited to, diabetes, respiratory, digestive and cardiovascular conditions).

Sports Medicine: Orthopedic Patient Care - Minor

College of Education Health and Human Services
School of Health Sciences
www.kent.edu/ehhs/hs

About This Program

The Sports Medicine: Orthopedic Patient Care minor offers students the opportunity to explore the intersection of these two fields and gain hands-on experience in providing care for orthopedic injuries. With a focus on clinical skills and knowledge of therapeutic exercises and rehabilitation techniques, graduates are prepared for careers in sports medicine, physical therapy and more. Read more...

Contact Information

- **Jay C. Jonas, Ph.D.** | jjonas2@kent.edu | 330-672-7900
- Speak with an Advisor

Fully Offered

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Certificate Requirements		
ATTR 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	2
or EXSC 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	
or IHS 15003	CAREERS IN HEALTH AND MEDICAL SCIENCES	
ATTR 15012	DOCUMENTATION IN HEALTH CARE	2
ATTR 20001	SOCIOCULTURAL ASPECTS OF HEALTH CARE	3
ATTR 25036	RESPONDING TO EMERGENCIES	3
ATTR 25037	PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE	3
ATTR 25038	PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE UPPER EXTREMITY, HEAD AND NECK	3
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
ATTR 35054	BIOMECHANICS	3
or EXSC 35054	BIOMECHANICS	
ATTR 45041	ADVANCED THERAPEUTIC INTERVENTIONS [1]	3
Minimum Total Credit Hours:		**26**

[1] With approval, ATTR 25058, and ATTR 35054 may be waived as prerequisites for ATTR 45041.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of different professions and their scope of practice in the medical and health care fields.
2. Demonstrate an understanding of required patient documentation and administrative policies and procedures associated in the medical and health care fields.
3. Demonstrate an understanding of social cultural issues associated with the care and treatment of patients.
4. Demonstrate an understanding of clinical skills required for first responds when responding to emergencies.
5. Demonstrate an understanding and working knowledge of fundamental neuromuscular and musculoskeletal anatomy and physiology as it relates to injury and illnesses commonly seen in the fields of sports medicine.
6. Demonstrate an understanding of the importance of patient history, evaluation differential diagnosis, treatment and prognosis musculoskeletal and general medicine conditions.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Full Description

The Sports Medicine: Orthopedic Patient Care minor focuses on orthopedic and rehabilitation classes and is designed for students interested in fields such as athletic training, orthopedics (orthotists, prosthetist), orthopedic physician, chiropractic, physical and occupational therapy.

The program's curriculum covers musculoskeletal anatomy and physiology, patient assessment, diagnosis and treatment techniques for common musculoskeletal injuries.

School of Lifespan Development and Educational Sciences

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
405 White Hall
Kent Campus
330-672-2294
www.kent.edu/ehhs/ldes

Undergraduate Programs

- American Sign Language/English Interpreting - B.S.
- Career and Community Studies - Non-Degree
- Career and Community Studies-College Preparation - Non-Degree
- Career and Community Studies-Employment Readiness - Non-Degree
- Human Development and Family Science - B.S.
- Long-Term Care Administration - B.S.
- Special Education - B.S.E.

Minors

- Autism Spectrum Disorders
- Child and Youth Practice
- Early Intervention
- Gerontology
- Human Development and Family Science
- International Family Science
- Mild to Moderate Special Education
- Nonprofit Studies

Graduate Programs

- Clinical Mental Health Counseling - M.Ed.
- Clinical Rehabilitation Counseling - M.Ed.
- Counseling - Ed.S.
- Counselor Education and Supervision - Ph.D.
- Educational Psychology - M.Ed.
- Human Development and Family Science - M.A.
- Learning Science - M.A.
- Learning Science - Ph.D.
- School Counseling - M.Ed.
- School Psychology - Ed.S.
- School Psychology - M.Ed.
- School Psychology - Ph.D.
- Special Education - Ed.S.
- Special Education - M.Ed.
- Special Education - Ph.D.

Certificates

Undergraduate Certificates

- Addictions Counseling
- Deaf Education Multiple Disabilities

Graduate Certificates

- Addictions Counseling
- Autism Spectrum Disorders
- Behavioral Intervention Specialist
- Deaf Education Multiple Disabilities
- Early Intervention
- Gerontology
- Nursing Home Administration

Licensure/Endorsement Programs - Non-Degree

Graduate

- American Sign Language/English Interpreting Licensure Preparation
- Gifted Education Endorsement Preparation
- Special Education Deaf Education Additional Licensure Preparation
- Special Education Deaf Education Initial Licensure Preparation
- Special Education Early Childhood (PK-5) Additional Licensure Preparation
- Special Education Early Childhood (PK-5) Initial Licensure Preparation
- Special Education Mild/Moderate Needs Additional Licensure Preparation
- Special Education Mild/Moderate Needs Initial Licensure Preparation
- Special Education Moderate/Intensive Needs Additional Licensure Preparation
- Special Education Moderate/Intensive Needs Initial Licensure Preparation
- Special Education Pre-K Special Needs Endorsement Preparation
- Special Education Transition-to-Work Endorsement Preparation

School of Lifespan Development and Educational Sciences Faculty

- Alexander, Donna C. (2008), Associate Lecturer, M.B.A., Ashland University, 2004
- Anhalt, Karla (2003), Professor, Ph.D., West Virginia University, 2000
- Balan, Christine M. (1986), Professor, Ph.D., Kent State University, 1994
- Barber, Brian R. (2013), Associate Professor, Ph.D., University of Florida, 2013
- Bedesem, Pena L. (2010), Associate Professor, Ph.D., University of Central Florida, 2010
- Bergh, Kathleen A. (2000), Senior Lecturer, M.Ed., University of Akron, 1985
- Blankemeyer, Maureen S. (1996), Associate Professor, Ph.D., Oklahoma State University, 1996
- Borriello, Giulia A. (2023), Assistant Professor, Ph.D., Pennsylvania State University, 2018
- Bruns, Kristin L. (2024), Assistant Professor, Ph.D., Kent State University, 2014
- Burgess, Sloane R. (2008), Associate Professor, Ph.D., Case Western Reserve University, 2007
- Chen, Ching-I (2014), Associate Professor
- Cichy, Kelly E. (2008), Professor, Ph.D., Pennsylvania State University, 2007
- Cimera, Robert E. (2007), Professor, Ph.D., University of Illinois-Urbana, Champaign, 1998
- Cowan, Richard J. (2003), Associate Professor, Ph.D., University of Nebraska, 2003
- Cureton, Jenny (2016), Associate Professor, Ph.D., University of Northern Colorado, 2016
- Erby, Adrienne (2021), Assistant Professor, Ph.D., University of North Carolina-Charlotte, 2014
- Guillot-Miller, Lynne M. (2003), Associate Professor, Ph.D., University of New Orleans, 2003
- Harjusola-Webb, Sanna M. (2006), Associate Professor, Ph.D., University of Kansas, 2006
- Herman McMillan, Emily R. (2024), Assistant Professor, Ph.D., The Ohio State University, 2021
- Jencius, Martin J. (2000), Associate Professor, Ph.D., University of South Carolina, 1996
- Jones, Samantha K. (2020), Assistant Professor, M.A., Kent State University, 2015
- Kenyon, Cynthia (2009), Associate Professor, Ph.D., Kent State University, 2018
- Krise, Olivia B. (2003), Lecturer, M.Ed., Kent State University, 2012
- Kritzer, Karen (2007), Associate Professor, Ph.D., University of Pittsburgh, 2007
- Liou, Chih-Ling (2014), Associate Professor, Ph.D., Virginia Polytechnic Institute and State University, 2011
- Lockwood, Adam B. (2021), Associate Professor, Ph.D., Northern Arizona University, 2015
- Lockwood, Adam B. (2024), Associate Professor, Ph.D., Northern Arizona University, 2015
- Manring, Danielle E. (2013), Lecturer, M.Ed., Kent State University, 2019
- McCartney, Jamie L. (2007), Associate Professor, Ph.D., University of Akron, 2004
- Miller, Jennifer L. (2016), Associate Lecturer, M.Ed., Kent State University, 2019
- Moore, Alma J. (2012), Assistant Professor, Ph.D., Kent State University, 2019
- Morris, Bradley J. (2012), Professor, Ph.D., The Ohio State University, 1998
- Oldham, Bryn (2024), Assistant Professor, M.Ed., Kent State University, 2007
- Osborn, Cynthia J. (1997), Professor, Ph.D., Ohio University, 1996
- Salpietro, Lena (2023), Assistant Professor, Ph.D., University of Toledo, 2020
- Sansosti, Frank J. (2006), Professor, Ph.D., University of South Florida, 2005
- Smith, Gregory C. (2001), Professor, Ph.D., University of Rochester, 1983
- Stevenson, Nathan (2015), Associate Professor, Ph.D., Michigan State University, 2015
- Storlie, Cassandra A. (2013), Professor, Ph.D., University of Iowa, 2013

- Tankersley, Melody J. (1993), Professor, Ph.D., University of Virginia, 1992
- Tobias, Scott A. (2009), Associate Professor, D.Sci., University of Missouri, 2009
- Toepfer, Steven M. (2004), Associate Professor, Ph.D., The Ohio State University, 2001
- Unger, Darlene D. (2016), Professor, Ph.D., Virginia Commonwealth University, 2001
- Walker, Kathleen K. (2002), Associate Professor, Ph.D., Kansas State University, 2002
- Waugh, Jennifer A. (2012), Assistant Professor, Ph.D., Kent State University, 2019
- Wiley, Andrew L. (2008), Associate Professor, Ed.D., University of Virginia, 2008
- Zhang, Jing (2018), Associate Professor, Virgina Tech, 2012

American Sign Language/English Interpreting (ASEI)

ASEI 30095 SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING 1-4 Credit Hours
(Repeatable for credit) Special topics courses to be offered on as-needed basis when the content cannot be covered in the traditional curriculum.
Prerequisite: ASL 29201 and ASEI 43102; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ASEI 40092 ADVANCED PRACTICUM: AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING-COMMUNITY SETTING INTERPRETING (ELR) 9 Credit Hours
(Repeatable for credit) This course is required for students who do not wish to apply for K-12 Licensure to interpret in Ohio Schools. Field-based practicum experience provides pre-service interpreters with an opportunity to learn from currently practicing master community interpreters. Advanced practicum includes a minimum of 405 total hours during a 15- week placement. University supervisor and teacher mentor observe and assess student's skill. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks may be required based on community placement. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. A 3.000 major GPA is required for registration.
Prerequisite: Minimum B- grade in ASEI 43104; and minimum C grades in ASEI 43112 and ASL 49108; and ASL/English Interpreting major; and admission to professional phase; and 2.750 overall GPA; and passing score on the SLPI (Intermediate) or ASLPI (Level 2); and special approval.
Corequisite: ASEI 49625.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ASEI 43092 DEAF CULTURE IMMERSION EXPERIENCE (ELR) 1 Credit Hour
(Repeatable for credit) Intensive week-long practicum at a school for the deaf or camp where students interact with deaf children and/or adults. Conduct, interaction, sign language skills, maturity, responsibility, and performance are evaluated by staff at the school or camp administrators.
Prerequisite: ASL/English interpreting major.
Pre/corequisite: Minimum grade of C in ASL 39201.
Schedule Type: Practical Experience
Contact Hours: 8.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ASEI 43100 SURVEY OF THE INTERPRETING PROFESSION 3 Credit Hours
(Slashed with ASEI 53100) Introduction to the field of ASL-English interpreting. The following will be discussed: the history of the interpreting profession; the varied roles and responsibilities of interpreters; issues and concerns facing interpreters; legal mandates and constraints governing the provision of interpreters; diversity issues; ethical guidelines and their application to educational environments. Since interpreters are expected to be fluent in both English and ASL, this course will strive to enhance students' facility with both languages.
Prerequisite: Minimum C grade in ASL 19202.
Pre/corequisite: Minimum C grade in ASL 29201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43102 INTERPRETING PROCESSES I 3 Credit Hours
(Slashed with ASEI 53102) Beginning level interpreting course that examines the models of interpreting and their application to practice. Consecutive and simultaneous interpreting strategies are used to develop processing skills for both English to ASL and ASL to English interpretations. Samples of narrative genre are the texts used for interpretations as students examine the linguistic and cultural differences between ASL and English narratives. There will be 30 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum C grade in ASL 29201; and minimum B- grade in ASEI 43100; and ASL English Interpreting major.
Pre/corequisite: Minimum grade of C in ASL 29202.
Corequisite: ASL 39401 and ASEI 43113.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43103 INTERPRETING PROCESSES II 3 Credit Hours
(Slashed with ASEI 53103) Intermediate level interpreting course that challenges students to interpret the more complex genres including expository, procedural, and argumentative texts. Students will study and apply contextualization strategies. Discourse that is common to both the adult deaf community and educational settings will be interpreted and transliterated. There will be 45 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum C grade in the following courses: ASL 29202 and ASEI 43102; and ASL English Interpreting major; and admission to professional phase with a passing score on the entrance assessment.
Pre/corequisite: Minimum C grade in ASL 39201.
Corequisite: ASEI 43106, ASEI 43111 and ASEI 43114.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43104 INTERPRETING PROCESSES III 3 Credit Hours
(Slashed with ASEI 53104) Advanced level interpreting course focused on enhancing students' English to ASL and ASL to English skills in a variety of settings. Complex texts are selected from a variety of disciplines from both community and educational settings. Students build on previously developed self-assessment skills to create detailed and analytical diagnostic charts of their interpreted work. There will be 45 clinical application hours that students will need to accrue in this course. Students must pass the SLPI (Intermediate) or ASLPI (Level 2) prior to first semester senior year classes.
Prerequisite: Minimum C grade in ASL 39202 and ASEI 43107; and ASL English Interpreting major; and passing score of Intermediate on the SLPI or Level 2 on the ASLPI; and admission to professional phase.
Corequisite: ASEI 43112, ASEI 43118 and ASL 49108.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43105 TRANSLITERATING 3 Credit Hours
(Slashed with ASEI 53105) Receptive and expressive use of English-based sign language systems; ASL root words, prefix suffix use, simultaneous speaking and signing. Explanation and demonstration of Cued speech; exploration of the research related to individuals who use Cued speech.
Prerequisite: Minimum C grade in ASEI 43103 and in ASL 39201; and ASL English Interpreting (ASEI) major; and admission to professional phase.
Pre/corequisite: Minimum C grade in ASL 39201.
Corequisite: ASEI 43107, ASEI 43110, ASEI 43092 and ASL 39202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43106 SCHOOL SETTING INTERPRETING 3 Credit Hours
(Slashed with ASEI 53106) Issues, challenges, roles, responsibilities, and ethics of classroom-based educational interpreting are explored. Students are exposed to the variety of classroom designs where interpreters work such us mainstreaming, inclusion, resource room, and self-contained classrooms. K-12 settings place additional expectations for interpreter participation including IEP meetings, counseling, school assemblies and performing arts presentations.
Prerequisite: Minimum grade of C in ASL 29202; and American Sign Language/English Interpreting major; and special approval.
Pre/corequisite: Minimum grade of C in ASL 39201.
Corequisite: ASEI 43103, ASEI 43111 and ASEI 43114.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43107 COMMUNITY SETTING INTERPRETING 3 Credit Hours
(Slashed with ASEI 53107) This course explores the various venues that interpreters can work in the community. Emphasis will be given to the development of specialized vocabulary. Students participate in mock interpreting situations common to community interpreting in order to identify ethical dilemmas, demands and controls. There will be 30 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum C grade in the following courses: ASEI 43103, ASEI 43111, ASEI 43114 and ASL 39201; and ASL English Interpreting major; and admission to professional phase.
Pre/corequisite: Minimum grade of C in ASL 39202.
Corequisite: ASEI 43092, ASEI 43105, ASEI 43110 and ASEI 43119.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43110 DISCOURSE ANALYSIS FOR INTERPRETERS 3 Credit Hours
(Slashed with ASEI 53110) This course will explore the field of discourse analysis and its relation to the work of an interpreter. Students will complete the course with an understanding of terminology specific to discourse analysis, a better understanding of one's own discourse style and a better idea of how English and ASL use various discourse features. These features include the following: Turn-taking, Conversational Repair-false starts, Discourse Markers, Constructing Dialogue and Action, Cohesion, Rhythm, Rhyme and Repetition.
Prerequisite: Minimum grade of C in ASL 39201; and ASEI 43103 and ASEI 43111; and admission to the professional phase.
Pre/corequisite: Minimum grade of C in ASL 39202.
Corequisite: ASEI 43105, ASEI 43107 and ASEI 43119.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43111 THE PROFESSIONAL INTERPRETER 3 Credit Hours
(Slashed with ASEI 53111) Covers current trends in the field regarding situational and ethical issues. Demand-control schema and the RID Code of Professional Conduct are key components of the students' investigation and application. Students receive guidance in preparing for the RID NIC and participate in practicing for the RID performance test.
Prerequisite: Minimum grade of C in ASEI 43102 and ASL 39401; and ASL English Interpreting major; and admission to professional phase.
Pre/corequisite: Minimum grade of C in ASL 39201.
Corequisite: ASEI 43103 and ASEI 43106.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43112 INTERACTIVE INTERPRETING 3 Credit Hours
(Slashed with ASEI 53112) Guides students through a process of examining the complex nature of interpreting interactive discourse. Discussions will focus on managing this multi-layered process when participants' roles, assumptions, and goals can be congruent or adversarial. Student will learn to navigate contrasting cultural, linguistic, and discourse expectations. This course will present numerous interactive scenarios for students to interpret typical of a variety of settings with different participant configurations.
Prerequisite: Minimum grade of C in the following courses: ASL 29202, ASL 39401, ASEI 43102, ASEI 43103 and ASEI 43106; and minimum grade of B- in ASEI 43100; and ASL English Interpreting major; passing score of intermediate on the SLPI or Level 2 on the ASLPI; and admission to professional phase.
Pre/corequisite: ASL 39201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43113 ASL TO ENGLISH INTERPRETING PROCESSES (WIC) 3 Credit Hours
(Slashed with ASEI 53113) Guides students in developing interpreting skills from their L2 (ASL) to their L1 (English). Students will learn strategies for increasing their ASL and English vocabularies for the purposes of understanding equivalents when applying English vocabulary to ASL signs. Students will examine their ability to apply this proficiency to various registers of ASL. Course will also emphasize incorporating Academic English into written scholarly papers to increase students' abilities to apply this to their interpretations.
Prerequisite: Minimum C grade in ASL 29201; and minimum B- in ASEI 43100; and ASL English Interpreting major.
Pre/corequisite: Minimum C grade in ASL 29202.
Corequisite: ASEI 43102 and ASL 39401.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ASEI 43114 SOCIAL MEDIA AND CURRENT EVENTS INTERPRETING 3 Credit Hours
(Slashed with ASEI 53114) This course introduces students to a wide variety of media sources that highlight current events and happenings within the Deaf and interpreting communities. In this course, students will develop linguistic, analytical and interpretation skills. Students will discuss current events related to topics including but not limited to culture, mental health, politics, economics and education.
Prerequisite: ASEI 43102, ASEI 43113 and ASL 29202; and American Sign Language/English Interpreting major; and Admission to Professional Phase.
Corequisite: ASEI 43103, ASEI 43111 and ASL 39201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43118 MEDICAL INTERPRETING 3 Credit Hours
(Slashed with ASEI 53118) This course provides students with the opportunity to explore medical topics, terminologies, and areas of practice to enable them to more effectively meet the needs of deaf patients in a variety of health care settings. This course is designed to equip students with basic skills and knowledge to meet the demands of this setting. Students in this course will become familiar with body systems structures, functions, and common conditions-diseases affecting these systems. Students will be exposed to a variety of medical protocols, scripts, testing procedures, and areas of medical practice. As a result, students will be able to interpret medical information into ASL appropriate structures. They will specifically be able to apply strategies of depiction and spatial mapping.
Prerequisite: Minimum C grade in ASEI 43103; and American Sign Language/English Interpreting major; and passing score of Intermediate on the SLPI or Level 2 on the ASLPI.
Corequisite: ASEI 43104, ASEI 43112 and ASL 49108.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43119 MENTAL HEALTH INTERPRETING 3 Credit Hours
(Slashed with ASEI 53119) This course will provide students with a foundation of common diagnoses, mental health professionals and their various roles, common mental health settings interpreters may work, and terminology paired with ASL equivalents. This course will also emphasize the relationship between interpreter and mental health professional, providing skill sets in which to pre-and-post conference to ensure an accurate interpretation is rendered, and the goals of the therapist-professional have been met.
Prerequisite: Minimum C grade in ASEI 43103; and American Sign Language/English Interpreting major.
Pre/corequisite: Minimum C grade in ASL 39202.
Corequisite: ASEI 43092, ASEI 43105, ASEI 43107 and ASEI 43110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 43192 ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING (ELR) 9 Credit Hours
(Repeatable for credit) This course is required for students who want to apply for K-12 Licensure to interpret in Ohio Schools. Advanced practicum provides pre-service interpreters with an opportunity to learn from currently practicing master interpreters. Advanced practicum includes a minimum of 405 total hours during a 15- week placement with a minimum of 300 hours in educational settings to qualify for Ohio license for educational interpreters. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. Students must pass the SLPI (Intermediate) or ASLPI (Level 2) prior to first semester senior year classes. A 3.000 major GPA is required.
Prerequisite: Minimum B- grade in ASEI 43104; and minimum C grade in ASEI 43112 and ASL 49108; and ASL English Interpreting major; and admission to professional phase; and 2.750 overall GPA; and a passing score on the SLPI (Intermediate) or ASLPI (Level 2); and special approval.
Corequisite: ASEI 49625.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ASEI 43996 INDIVIDUAL INVESTIGATION IN AMERICAN SIGN LANGUAGE/ENGLISH INTERPRETING 1-3 Credit Hours
(Repeatable for credit) A student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of an ASL-English Interpreting approved instructor. The student is expected to complete pre-determined assignments, which may include a final research paper and a presentation on the findings of the study.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ASEI 49625 INQUIRY SEMINAR FOR AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING 3 Credit Hours
(Slashed with ASEI 59625) Final semester course to coincide with the advanced practice. Students present a professional description of their interpreting site analyzing students' needs, school and instructor expectations or barriers, application of the Demand – Control Schema, and ethical challenges. Current research in the field of interpreting is examined and a diagnostic chart of a work sample is created. Students explore the EIPA exam, its theoretical foundations and participate in practicing for the EIPA.
Prerequisite: Minimum B- in ASEI 43104; and minimum C grade in the following courses ASEI 43112 and ASEI 43118 ASL 49108 and COMM 35852.
Corequisite: ASEI 43092 or ASEI 43192.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ASEI 50092 ADVANCED PRACTICUM: AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING-COMMUNITY SETTING INTERPRETING 9 Credit Hours
(Repeatable for credit) This course is required for students who do not wish to apply for K-12 Licensure to interpret in Ohio Schools. Field-based practicum experience provides pre-service interpreters with an opportunity to learn from currently practicing master community interpreters. Advanced practicum includes a minimum of 405 total hours during a 15- week placement. University supervisor and teacher mentor observe and assess student's skill. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks may be required based on community placement. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. A major GPA of 3.000 is required.
Prerequisite: Minimum B- grade in ASEI 53104; and ASEI 53112 and ASL 49108; and enrolled in the ASL/English Interpreting Licensure Preparation program; and admission to professional phase; and 2.750 overall GPA; and passing score on the SLPI (Intermediate) or ASLPI (Level 2); and graduate standing; and special approval.
Corequisite: ASEI 59625.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ASEI 53092 DEAF CULTURE IMMERSION EXPERIENCE 1 Credit Hour
Intensive week-long practicum at a school for the deaf or camp where students interact with deaf children and/or adults. Conduct, interaction, sign language skills, maturity, responsibility and performance are evaluated by staff at the school or camp administrators.
Prerequisite: Graduate standing.
Pre/corequisite: Minimum grade of C in ASL 39201.
Schedule Type: Practical Experience
Contact Hours: 8.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ASEI 53100 SURVEY OF THE INTERPRETING PROFESSION 3 Credit Hours
(Slashed with ASEI 43100) Introduction to the field of ASL-English interpreting. The following will be discussed: the history of the interpreting profession; the varied roles-responsibilities of interpreters; issues and concerns facing interpreters; legal mandates and constraints governing the provision of interpreters; ethical guidelines and their application to educational environments. Since interpreters are expected to be fluent in both English and ASL, this course will strive to enhance students' facility with both languages.
Prerequisite: ASL 19202; and graduate standing.
Pre/corequisite: ASL 29201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53102 INTERPRETING PROCESSES I 3 Credit Hours
(Slashed with ASEI 43102) Beginning level interpreting course that examines the models of interpreting and their application to practice. Consecutive and simultaneous interpreting strategies are used to develop processing skills for both English to ASL and ASL to English interpretations. Samples of narrative genre are the texts used for interpretations as students examine the linguistic and cultural differences between ASL and English narratives. There will be 30 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum of a B- in ASEI 53100; and graduate standing.
Pre/corequisite: ASL 29202.
Corequisite: ASL 39401 and ASEI 53113.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53103 INTERPRETING PROCESSES II 3 Credit Hours
(Slashed with ASEI 43103) Intermediate level interpreting course that challenges students to interpret the more complex genres including expository, procedural, and argumentative texts. Students will study and apply contextualization strategies. Discourse that is common to both the adult deaf community and educational settings will be interpreted and transliterated. There will be 45 clinical application hours that students will need to accrue in this course.
Prerequisite: ASL 29202 and ASEI 53102; and admission to the professional phase with a passing score on the entrance assessment; and graduate standing.
Pre/corequisite: ASL 39201.
Corequisite: ASEI 53106, ASEI 53111 and ASEI 53114.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53104 INTERPRETING PROCESSES III 3 Credit Hours
(Slashed with ASEI 43104) Advanced level interpreting course focused on enhancing students' English to ASL and ASL to English skills in a variety of settings. Complex texts are selected from a variety of disciplines from both community and educational settings. Students build on previously developed self-assessment skills to create detailed and analytical diagnostic charts of their interpreted work. There will be 45 clinical application hours that students will need to accrue in this course. Students must pass the SLPI (Intermediate) or ASLPI (Level 2) prior to first semester senior year classes.
Prerequisite: Minimum C grade in ASL 39202; and ASEI 53107; and ASL/English Interpreting Licensure Preparation program; and passing score of Intermediate on the SLPI or Level 2 on the ASLPI; and graduate standing.
Corequisite: ASEI 53112, ASEI 53118 and ASL 49108.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53105 TRANSLITERATING 3 Credit Hours
(Slashed with ASEI 43105) Students are exposed to the various English-based sign systems that are used in the education of deaf students as well as variations of sign communication in the deaf community. Focus is placed on developing transliterating skills utilizing conceptually accurate signed English. Students examine the implications of a diverse sign continuum and the professional expectation of identifying and meeting the language preferences of deaf consumers.
Prerequisite: Minimum B- grade in ASEI 53100; and a minimum C grade in ASL 29202; and graduate standing.
Corequisite: ASL 39201 and ASEI 53102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53106 SCHOOL SETTING INTERPRETING 3 Credit Hours
(Slashed with ASEI 43106) Issues, challenges, roles, responsibilities, and ethics of classroom-based educational interpreting are explored. Students are exposed to the variety of classroom designs where interpreters work such us mainstreaming, inclusion, resource room, and self-contained classrooms. K-12 settings place additional expectations for interpreter participation including IEP meetings, counseling, school assemblies and performing arts presentations.
Prerequisite: ASL 29201; and ASL/English Interpreting Licensure Preparation program; graduate standing; and special approval.
Pre/corequisite: Minimum grade of C in ASL 39201.
Corequisite: ASEI 53103, ASEI 53111 and ASEI 53114.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53107 COMMUNITY SETTING INTERPRETING 3 Credit Hours
(Slashed with ASEI 43107) This course explores the various venues that interpreters can work in the community. Emphasis will be given to the development of specialized vocabulary. Students participate in mock interpreting situations common to community interpreting on order to identify ethical dilemmas, demands and controls. There will be 30 clinical application hours that students will need to accrue in this course.
Prerequisite: Minimum C grade in the following courses: ASEI 53103, ASEI 53111, ASEI 53114 and ASL 39201; and ASL/English Interpreting Licensure Preparation; and graduate standing.
Pre/corequisite: Minimum grade of C in ASL 39202.
Corequisite: ASEI 53092, ASEI 53105, ASEI 53110 and ASEI 53119.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53110 DISCOURSE ANALYSIS FOR INTERPRETERS 3 Credit Hours
(Slashed with ASEI 43110) This course will explore the field of discourse analysis and its relation to the work of an interpreter. Students will complete the course with an understanding of terminology specific to discourse analysis, a better understanding of one's own discourse style, and a better idea of how English and ASL use various discourse features. These features include the following: Turn-taking, Conversational Repair - false starts, Discourse Markers, Constructing Dialogue & Action, Cohesion, Rhythm, Rhyme, and Repetition.
Prerequisite: Minimum grade of C in ASL 39201; and ASEI 53103 and ASEI 53111.
Pre/corequisite: Minimum grade of C in ASL 39202.
Corequisite: ASEI 53105, ASEI 53107 and ASEI 53119.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53111 THE PROFESSIONAL INTERPRETER 3 Credit Hours
(Slashed with ASEI 53111) Covers current trends in the field regarding situational and ethical issues. Demand-Control Schema and the RID Code of Professional Conduct are key components of the students' investigation and application. Students receive guidance in preparing for the RID performance test.
Prerequisite: Minimum grade of C in ASL 29202; and ASEI 53100 and ASEI 53107; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53112 INTERACTIVE INTERPRETING 3 Credit Hours
(Slashed with ASEI 43112) Guides students through a process of examining the complex nature of interpreting interactive discourse. Discussions will focus on managing this multi-layered process when participants' roles, assumptions, and goals can be congruent or adversarial. Student will learn to navigate contrasting cultural, linguistic, and discourse expectations. This course will present numerous interactive scenarios for students to interpret typical of a variety of settings with different participant configurations.
Prerequisite: ASL 29202 with a minimum C grade; and ASEI 53100 and ASEI 53103; passing score of intermediate on the SLPI or level 2 on the ASLPI.
Corequisite: ASEI 53102.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53113 ASL TO ENGLISH INTERPRETING PROCESSES 3 Credit Hours
(Slashed with ASEI 43113) Guides students in developing interpreting skills from their L2 (ASL) to their L1 (English). Students will learn strategies for increasing their ASL and English vocabularies for the purposes of understanding equivalents when applying English vocabulary to ASL signs. Students will examine their ability to apply this proficiency to various registers of ASL. Course will also emphasize incorporating Academic English into written scholarly appears to increase students' abilities to apply this to their interpretations.
Prerequisite: ASL 29202 and ASEI 53100; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53114 SOCIAL MEDIA AND CURRENT EVENTS INTERPRETING 3 Credit Hours
(Slashed with ASEI 43114) This course introduces students to a wide variety of media sources that highlight current events and happenings within the Deaf and interpreting communities. In this course, students will develop linguistic, analytical, and interpretation skills. Students will discuss current events related to topics including but not limited to culture, mental health, politics, economics and education.
Prerequisite: ASEI 53102, ASEI 53113 and ASL 29202; and American Sign Language/English Interpreting Licensure Preparation program; and admission to professional phase.
Corequisite: ASEI 53103, ASEI 53111, ASEI 53106 and ASL 39201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53118 MEDICAL INTERPRETING 3 Credit Hours
(Slashed with ASEI 43118) This course provides students with the opportunity to explore medical topics, terminologies, and areas of practice to enable them to more effectively meet the needs of deaf patients in a variety of healthcare settings. This course is designed to equip students with basic skills and knowledge to meet the demands of this setting. Students in this course will become familiar with body systems structures, functions, and common conditions-diseases affecting these systems. Students will be exposed to a variety of medical protocols, scripts, testing procedures, and areas of medical practice. As a result, students will be able to interpret medical information into ASL-appropriate structures. They will specifically be able to apply strategies of depiction and spatial mapping.
Prerequisite: ASEI 53102; passing score of Intermediate on the SLPI or Level 2 on the ASLPI; and graduate standing.
Corequisite: ASEI 53104.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53119 MENTAL HEALTH INTERPRETING 3 Credit Hours
(Slashed with ASEI 43119) This course will provide students with a foundation of common diagnoses, mental health professionals and their various roles, common mental health settings interpreters may work, and terminology paired with ASL equivalents. This course will also emphasize the relationship between interpreter and mental health professional, providing skill sets in which to pre- and -post conference to ensure an accurate interpretation in rendered, and the goals of therapist-professional have been met.
Prerequisite: ASEI 53103; and graduate standing.
Corequisite: ASEI 53107 and ASEI 53110 and ASEI 53105.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ASEI 53192 ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING 9 Credit Hours
(Repeatable for credit) This course is required for students who want to apply for K-12 Licensure to interpret in Ohio Schools. Advanced practicum provides pre-service interpreters with an opportunity to learn from currently practicing master interpreters. Advanced practicum includes a minimum of 405 total hours during a 15- week placement with a minimum of 300 hours in educational settings to qualify for Ohio license for educational interpreters. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. Students must pass the SLPI (Intermediate) or ASLPI (Level 2) prior to first semester senior year classes. A 3.000 major GPA is required.
Prerequisite: Minimum B- grade in ASEI 53104; and ASEI 53112 and ASL 49108; and ASL English Interpreting Licensure Preparation non-degree; and admission to professional phase; and 2.750 overall GPA; passing score on the SLPI (Intermediate) or ASLPI (Level 2); and graduate standing; and special approval.
Corequisite: ASEI 59625.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory

ASEI 59625 INQUIRY SEMINAR FOR AMERICAN SIGN LANGUAGE/ ENGLISH INTERPRETING 3 Credit Hours
(Slashed with ASEI 49625) Final semester course to coincide with the advanced practicum. Students present a professional description of their interpreting site analyzing student needs, school and instructor expectations or barriers, application of the Demand Control Schema, and ethical challenges. Current research in the field of interpreting is examined and a diagnostic chart of the work sample is created. Students explore the Educational Interpreter Performance Assessment (EIPA) exam, its theoretical foundations, and participate in practicing for the EIPA.
Prerequisite: Minimum B- in ASEI 53104; and minimum C grade in the following: COMM 35852, ASL 49108 and ASEI 53112; and graduate standing.
Corequisite: ASEI 53192.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Career and Community Services (CCS)

CCS 00010 INDEPENDENT LIVING SKILLS I 3 Credit Hours
This class helps students identify their strengths, preferences, interests and needs regarding independent living. Students set goals and practice skills that will help them be more successful in managing their adult lives. This class focus is on areas of independent living related to personal health and nutrition.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00015 SELF-ADVOCACY: DISABILITY AWARENESS AND THE LAWS 3 Credit Hours
This course promotes development of self-awareness through identifying characteristics of a person's disability, and how it affects a person academically, socially, and at work.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00020 APPLYING TECHNOLOGY 1 Credit Hour
This course is an introduction to the uses of Flashline, Canvas or other Learning Management System (LMS), and applications such as Microsoft Word to enhance student skills with technology applications.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00025 MANAGING MONEY IN COLLEGE 1 Credit Hour
This introductory course will provide the student with an opportunity to develop attitudes and skills to manage their money and expenses while in college. Topics include how to set up a budget, considering where one might save money in daily living, managing expenses, understanding Flashcash, Meal Swipes and Spend Down Accounts.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00035 SELF-ADVOCACY: COMMUNICATION SKILLS 3 Credit Hours
Effective communication enhances personal, family, and community health. Select personal and social skills are presented in order to improve the health of the student. The student will participate in activities that allow them to practice and perform skills in work and in their personal lives.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00105 INTRODUCTION TO JOB EXPLORATION 1 Credit Hour
The student will be introduced to the world of work and begin the first step towards finding employment that will be rewarding for them and that will match their strengths, preferences, interests and needs.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00110 INDEPENDENT LIVING SKILLS II 3 Credit Hours
Students will identify independent living skills required to set and reach short- and long-term goals. Students will reflect on and apply their strengths, preferences, interests, and needs as they make plans for adult life.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00115 SELF-ADVOCACY AND SELF-DETERMINATION 3 Credit Hours
This course will provide students with opportunities to recognize and develop skills that can help them to increase success in all areas of their lives. Persons who are more self-determined often experience academic, employment, community living and personal satisfaction.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00120 PERSON-CENTERED PLANNING: FRESHMAN 1 Credit Hour
Students will create and present a Person-Centered Plan (PCP). A PCP is an individualized way of helping the student to achieve their goals, get the life they want for themselves, identify supports that may be needed, and help them reach their vision of a good life.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00135 SELF-ADVOCACY: HUMAN RELATIONSHIPS 3 Credit Hours
Students will learn of different types of relationships and how to advocate and communicate wants and needs in various types of relationships.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00145 DEVELOPING PROFESSIONAL SKILLS: FRESHMAN 3 Credit Hours
(Repeatable for credit) This course is designed to teach students how to successfully manage all areas of one's life. It is important to know how to prioritize social and personal responsibilities to complete tasks in a competent manner.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00205 JOB EXPLORATION I 3 Credit Hours
This course begins the process of the student identifying an employment pathway by completing interest inventories to identify occupational interests, establishing membership to job exploration tools, researching local labor market information, exploring Job Seekers Guide on OhioEmploymentFirst.org or other tools that aid the student as they make important employment decisions.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00206 JOB EXPLORATION II 3 Credit Hours
The purpose of this course is to help the student to narrow employment possibilities and to identify the occupation of their choice. The course provides information regarding work settings, work duties, personnel, shifts, expectations, accommodations, and appropriate behaviors at work. The student will begin to identify their network of people who can help them achieve future employment goals.
Prerequisite: CCS 00205; and Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00220 PERSON-CENTERED PLANNING: SOPHOMORE 1 Credit Hour
Each year a student completes a person-centered planning presentation to share with their support team. The student provides information on what they are or have learned this academic year, goals being worked on or accomplished and future plans. The student creates a Microsoft Power Point, or other form of presenting in order to connect knowledge and learning experiences for student success.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00235 SELF-ADVOCACY: INDEPENDENT LIVING AND INJURY PREVENTION 3 Credit Hours
Students will learn independent living skills related to injury prevention and safety in adult life.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00245 DEVELOPING PROFESSIONAL SKILLS: SOPHOMORE 3 Credit Hours
(Repeatable for credit) This course is designed to teach strategies to successfully manage all areas of one's life. It is important to know how to prioritize work, social and personal responsibilities so one can make connections and communicate appropriately to those with whom they work, live and interact with.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00292 WORK EXPERIENCE: SOPHOMORE 3 Credit Hours
(Repeatable for credit) This course provides the student with the opportunity to identify supports needed to achieve more independence in a work environment.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CCS 00306 EMPLOYMENT READINESS I 3 Credit Hours
This course prepares the student for entering the work force by addressing professional skills such as teamwork, networking, safety, personal skills, work ethic, responsibility, time management, interview skills, creating a resume and filling out a job application.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00307 EMPLOYMENT READINESS II 3 Credit Hours
This course is designed to continue to prepare the student for entering into the work force by expanding interview skills, creating documents used to acquire employment and learning how to fill out a job application.
Prerequisite: CCS 00306; and Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00320 PERSON-CENTERED PLANNING: JUNIOR 1 Credit Hour
Each year a student completes a person-centered planning presentation to share with their support team. The student provides updated information on what they are learning, goals being worked on or accomplished and future plans. The student creates a Microsoft Power Point, or other form of presenting in order to connect knowledge and learning experiences for student success.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00335 SELF-ADVOCACY: HEALTHY LIVING 3 Credit Hours
This course will support behavior that encourages students to make responsible choices for lifelong health, wellness, and life satisfaction.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00345 DEVELOPING PROFESSIONAL SKILLS: JUNIOR 3 Credit Hours
(Repeatable for credit) This course supports the student as they advance skills in learning strategies, critical thinking, problem-solving, and study skills; and as they apply skills to tasks that prepares for a specific employment interest. The student practices effective communicate through reading, writing, and speaking while completing tasks and projects.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00392 WORK EXPERIENCE: JUNIOR 4 Credit Hours
(Repeatable for credit) This course provides the student with opportunities to gain skills in the occupation of choice in order to prepare for satisfying employment as an adult. This allows for the student to evaluate the fit to help to ensure that they have chosen wisely.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Standard Letter

CCS 00410 EMPLOYMENT CERTIFICATIONS 3 Credit Hours
This course guides the student as they prepare for employment by completing online employment certifications that apply to employment interests. The student will set goals on skills development, research and completion of certificates.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CCS 00425 MANAGING MONEY AFTER COLLEGE 1 Credit Hour
This course will provide the student with a more detailed opportunity to reflect on one's desire and ability to manage money in adult life to achieve personal financial wellness and satisfaction. Topics include earning and saving money, how to calculate wages and understanding federal, state and local taxes and establishing a realistic budget that will help the student to transition into adult life.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00445 DEVELOPING PROFESSIONAL SKILLS: SENIOR 1 Credit Hour
This course supports the student as they advance skills in learning strategies, critical thinking, problem-solving, and study skills; and as they apply skills to coursework that prepares for a specific career interest. The student practices effective communicate through reading, writing and speaking while completing assignments and projects.
Prerequisite: Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CCS 00492 WORK EXPERIENCE: SENIOR 1-12 Credit Hours
(Repeatable for credit) The work experience internship occurs in on- or off-campus settings and provides an environment to practice specific occupational knowledge, skills and professional behaviors.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Practical Experience
Contact Hours: 3-36 other
Grade Mode: Standard Letter

CCS 00499 PERSON-CENTERED PLANNING: SENIOR 3 Credit Hours
(Repeatable for credit) The student will develop two valuable resources to aid in the transition back to their community. One is a portfolio that contains projects that will serve as resource guides. The second is a Person-Centered Plan that identifies past, present and future skills and goal development.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

CCS 01095 SPECIAL TOPICS: FRESHMAN LECTURE 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCS 01195 SPECIAL TOPICS: FRESHMAN LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Laboratory
Contact Hours: 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 01295 SPECIAL TOPICS: FRESHMAN COMBINED LECTURE AND LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-4 lecture, 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 02095 SPECIAL TOPICS: SOPHOMORE LECTURE 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCS 02195 SPECIAL TOPICS: SOPHOMORE LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Laboratory
Contact Hours: 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 02295 SPECIAL TOPICS: SOPHOMORE COMBINED LECTURE AND LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in for greater success in their college experience. Students must get approval from their academic advisor and/or course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-4 lecture, 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 03095 SPECIAL TOPICS: JUNIOR LECTURE 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCS 03195 SPECIAL TOPICS: JUNIOR LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Laboratory
Contact Hours: 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 03295 SPECIAL TOPICS: JUNIOR COMBINED LECTURE AND LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-4 lecture, 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 04095 SPECIAL TOPICS: SENIOR LECTURE 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Satisfactory/Unsatisfactory

CCS 04195 SPECIAL TOPICS: SENIOR LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Laboratory
Contact Hours: 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

CCS 04295 SPECIAL TOPICS: SENIOR COMBINED LECTURE AND LABORATORY 1-4 Credit Hours
(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.
Prerequisite: Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1-4 lecture, 2-12 lab
Grade Mode: Satisfactory/Unsatisfactory

Counselor Education and Supervision (CES)

CES 20092 FIELD EXPERIENCE I: MIDDLE CHILDHOOD (ELR) 1 Credit Hour
(Repeatable for credit) Course augments from an experiential perspective knowledge of early adolescence period of development. Placement in school settings (30 hrs.).
Corequisite: HDFS 24013.
Schedule Type: Field Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CES 34650 PRACTICES AND THEORIES IN ADDICTIONS COUNSELING 3 Credit Hours
Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.
Prerequisite: CES 37662.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 34654 EVIDENCE-BASED APPROACHES IN ADDICTIONS COUNSELING 3 Credit Hours
Intensive study of a select number of evidence-based or empirically-supported approaches in addictions counseling, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.
Prerequisite: CES 37665.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 37662 INTRODUCTION TO ADDICTIONS COUNSELING 3 Credit Hours
Introduction to fundamental concepts and recommended practices in addictions counseling today, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 37665 PLANNING CARE IN ADDICTIONS COUNSELING 3 Credit Hours
Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative and coordinated care.
Prerequisite: CES 34650.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 37668 INTRODUCTION TO MOTIVATIONAL INTERVIEWING 3 Credit Hours
Introduction to motivational interviewing (MI), a strengths-based and evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 37692 ADDICTIONS COUNSELING PRACTICUM (ELR) 4-9 Credit Hours
(Repeatable for credit) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six or seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.
Prerequisite: CES 34654 or CES 37665.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 21-56 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

CES 37800 SMALL GROUP PROCESS 2 Credit Hours
(Cross-listed with HED 34060) Students learn to understand the dynamics of problem-solving groups and how to become effective leaders and members. Topics include climate, goals, decision making, communication, leadership, membership. Experience- based learning combined with conceptualizing.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CES 40093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) Topics of special interest to students who desire to increase their knowledge in counseling and related areas. Kent faculty and experts from other institutions and agencies. Topics will be announced in the schedule of classes booklet.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

CES 44084 BEHAVIORAL SCIENCE IN HEALTH PROFESSIONS 1-3 Credit Hours
(Repeatable for a maximum of 12 hours) Behavioral science perspective on individual and social issues affecting medical care delivery. Individually arranged. May include field projects participation in health related investigations and presentations and personal development programs.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 50093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours
(Repeatable for credit) (Slashed with CES 70093) Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of college of continuing studies. Limit of 6 hours with adviser's permission toward any degree program.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 60193 VARIABLE TITLE WORKSHOP IN CLINICAL REHABILITATION COUNSELING 1-4 Credit Hours
(Repeatable for credit)(Slashed with CES 70193) Variable topic workshop designed to respond to emerging or specialized needs in clinical rehabilitation counseling.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CES 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 64084 BEHAVIORAL SCIENCE IN THE HEALTH PROFESSIONS 1-3 Credit Hours
Behavioral science perspective on individual and social issues that affect medical care delivery. Individually arranged.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

CES 65511 RESEARCH IN COUNSELING 3 Credit Hours
Introduction to purposes and practice of qualitative and quantitative research related to counseling. There will be emphasis on elements of conducting research and using products of research to support and enhance practice. Authentic examples from counseling will be used as illustration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67492 PRACTICUM I: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
Students begin supervised practice of counseling with clients, primarily in The Counseling Center. Individual supervision and seminar discussion are used for the development of counseling skills, strategies and professional role.
Prerequisite: CES 67530 and CES 67531 and CES 67580 and CES 67628 and CES 67663 and CES 68126; and Clinical Mental Health Counseling major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Standard Letter

CES 67530 COUNSELING THEORIES 3 Credit Hours
(Slashed with CES 77530) A survey of counseling practice that examines the nature of counseling process and relationships as described from major theoretical perspectives.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67531 COUNSELING SKILLS AND TECHNIQUES 3 Credit Hours
(Slashed with CES 77531) Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67580 MULTICULTURAL COUNSELING 3 Credit Hours
(Slashed with CES 77580) Seminar focused on sensitivities needed to work effectively with diverse clients. Consideration given to racism, oppression, poverty, ageism, gender, and relational affinity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67591 SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) Variable topic seminars considering problems, research and current practices for counselors and personnel workers. Topic to be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

CES 67592 PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Repeatable for credit) (Slashed with CES 77592) Involves individual counseling and group work with appropriate populations. Caseload geared toward preparation for internship.
Prerequisite: CES 67492; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Standard Letter

CES 67595 SPECIAL TOPICS IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 87595) Presentation of topics of special interest to students in counselor education and supervision. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 67596 INDIVIDUAL INVESTIGATION IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 87596) Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 67628 DIAGNOSIS IN COUNSELING 3 Credit Hours
(Slashed with CES 77628) Students develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67662 FOUNDATIONS OF ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77662) Introduction to fundamental concepts and recommended practices in addictions counseling, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67663 ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Slashed with CES 77663) Attention is given to the identity, ethics, professional standards and organizations, and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67664 THEORIES AND PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77664) Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.
Prerequisite: CES 67662; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67665 TREATMENT PLANNING IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77665) Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative, coordinated, and ethical care.
Prerequisite: CES 67664; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67666 EVIDENCE-BASED PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77666) Intensive study of a select number of evidence-based practices (EBPs) in addictions counseling for individuals, groups, and families, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.
Prerequisite: CES 67665; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67668 MOTIVATIONAL INTERVIEWING 3 Credit Hours
(Slashed with CES 77668) Introduction to motivational interviewing (MI), a strengths-based evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67692 PRACTICUM IN ADDICTIONS COUNSELING 3-6 Credit Hours
(Slashed with CES 77692) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six to seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and counselor self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.
Prerequisite: CES 67665 or CES 67666; and graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter-IP

CES 67695 SPECIAL TOPICS IN CLINICAL MENTAL HEALTH COUNSELING 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 77695) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 67698 INDIVIDUAL RESEARCH IN CLINICAL MENTAL HEALTH COUNSELING 1-9 Credit Hours
(Repeatable for credit) Student pursues research project on selected aspect of clinical mental health counseling under supervision of instructor. Arrangements with instructor must be made prior to registration. Credit hours to be fixed at registration time.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-9 other
Grade Mode: Satisfactory/Unsatisfactory

CES 67712 ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Slashed with CES 77712) Introductory course surveys philosophy, history and legislation in rehabilitation, which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67723 MEDICAL INFORMATION FOR CLINICAL REHABILITATION COUNSELORS 3 Credit Hours
(Slashed with CES 77723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours
(Slashed with CES 77725) Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours
(Slashed with CES 77732) An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67776 RESEARCH IN CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Slashed with CES 77776) Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Course acquaints students with current research. Evaluation of design statistical analysis and conclusions.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 67792 INTERNSHIP I: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Repeatable for credit) Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders.
Prerequisite: Clinical Mental Health Counseling major; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 67795 SPECIAL TOPICS IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours
(Repeatable for credit)(Slashed with CES 77795) Presentation of special interest to students. Topics vary per course offering.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 67796 INDIVIDUAL INVESTIGATION IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours
(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

CES 67798 INDIVIDUAL RESEARCH IN CLINICAL REHABILITATION COUNSELING 1-6 Credit Hours
(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of an instructor. Students must make arrangements with the instructor prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 67820 GROUP WORK: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 77820) This is an experiential and didactic course designed to provide both an overview of groups and a basic group experience. Involvement in a group is part of this course as is practice of group leadership skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 67858 SEMINAR: GROUP COUNSELING 2 Credit Hours
(Slashed with CES 77858) Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

CES 67892 INTERNSHIP II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Repeatable for credit) Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders.
Prerequisite: Clinical Mental Health Counseling major; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 68011 FOUNDATIONS OF SCHOOL COUNSELING 3 Credit Hours
(Slashed with CES 78011) Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel and on the development of comprehensive school counseling programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68066 COUNSELING ADOLESCENTS 3 Credit Hours
(Slashed with CES 78066) A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans and referral procedures for youth will be covered.
Prerequisite: CES 67530 and 67531; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68067 COUNSELING CHILDREN 3 Credit Hours
(Slashed with CES 78067) Seminar focusing on intra and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play media.
Prerequisite: CES 67530 or 77530 and 67531 or 77531; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68068 SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP 3 Credit Hours
(Slashed with CES 78068) Focuses on the management, leadership and implementation of comprehensive school counseling program including developmental counseling approaches, management systems and outcome research.
Prerequisite: CES 68011; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68069 ORIENTATION AND ETHICS: SCHOOL COUNSELING 3 Credit Hours
(Slashed with CES 78069) Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards, roles and functions of school counselors, and ethical standards and legal issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68070 COLLEGE AND CAREER READINESS 3 Credit Hours
This course will provide students with a knowledge base of the role of school counselors in college and career readiness and counseling. This course is designed to promote college and career advisement knowledge and skills to enable them to effectively work with students and stakeholders in post-secondary options.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68095 SPECIAL TOPICS IN SCHOOL COUNSELING 1-3 Credit Hours
(Repeatable for credit) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 68126 INTRODUCTION TO ASSESSMENT IN COUNSELING 3 Credit Hours
(Slashed with CES 78126) Instruction and experience in utilizing observational, measurement and appraisal methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68128 CLINICAL ASSESSMENT IN COUNSELING 3 Credit Hours
(Slashed with CES 78128) Experience in selecting, administering and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology.
Prerequisite: CES 68126 and 67628; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68130 PSYCHOPATHOLOGY FOR COUNSELORS 3 Credit Hours
(Slashed with CES 78130) This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment and psychopharmocological aspects of treatment are considered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68167 CASE CONCEPTUALIZATION AND TREATMENT PLANNING 3 Credit Hours
(Slashed with CES 88167) Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used.
Prerequisite: CES 67628 and CES 67492; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68168 ADVANCED COUNSELING THEORIES 3 Credit Hours
(Repeatable twice for credit) (Slashed with CES 88168) Consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used.
Prerequisite: CES 67492 with a minimum S grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68182 CAREER COUNSELING 3 Credit Hours
(Slashed with CES 78182) The world of work, theories of career choice, techniques in career counseling. An introductory course in the career area for practitioners in education, helping services, human resources and personnel.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68192 INTERNSHIP I: SCHOOL COUNSELING 3 Credit Hours
(Repeatable for credit) Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the implementation of advocacy, leadership, collaboration, and systemic change is highlighted. This course meets specific CACREP standards.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 68284 SUPERVISION IN COUNSELING I 3 Credit Hours
(Repeatable twice for credit) (Slashed with CES 88284) Focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences.
Prerequisite: CES 67592 or 77592 with a minimum S grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68292 INTERNSHIP II: SCHOOL COUNSELING 3 Credit Hours
(Repeatable for credit) Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the application of advocacy, leadership, collaboration and systemic change are highlighted in this course. This course meets specific CACREP standards.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 68392 SCHOOL COUNSELING PRACTICUM 3 Credit Hours
Students begin supervised practice of counseling with clients, primarily in a K-12 school. Direct observation, audio video recording, individual supervision, and seminar discussion are used for the development of counseling skills, strategies, and professional role. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the practicum will take place.
Prerequisite: CES 67530 and CES 67531 and CES 67820 and CES 68069; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 68529 COUPLES THERAPY:THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 78529) Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68533 FAMILY THERAPY: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 78533) Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic experiential and applied atmosphere.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 68538 ADVANCED MULTICULTURAL COUNSELING 3 Credit Hours
(Slashed with CES 78538) This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided.
Prerequisite: CES 67580 or CES 77580 and CES 67531 or CES 77531; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 69192 PRACTICUM: CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Repeatable for credit) Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.
Prerequisite: CES 67492 and CES 67628 and CES 67725; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 69792 INTERNSHIP IN CLINICAL REHABILITATION COUNSELING 3,6 Credit Hours
(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor.
Prerequisite: CES 69192; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 23-43 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 70093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours
(Repeatable for credit) (Slashed with CES 50093) Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of College of Continuing Studies. Limit of 6 hours with adviser's permission toward any degree program.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 70193 VARIABLE TITLE WORKSHOP IN CLINICAL REHABILITATION COUNSELING 1-4 Credit Hours
(Repeatable for credit)(Slashed with CES 60193) Variable topic workshop designed to respond to emerging or specialized needs in clinical rehabilitation counseling.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 77530 COUNSELING THEORIES 3 Credit Hours
(Slashed with CES 67530) A survey of counseling practice that examines the nature of counseling process and relationships as described from major theoretical perspectives.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77531 COUNSELING SKILLS AND TECHNIQUES 3 Credit Hours
(Slashed with CES 67531) Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77580 MULTICULTURAL COUNSELING 3 Credit Hours
(Slashed with CES 67580) Seminar focused on sensitivities needed to work effectively with diverse clients. Consideration given to racism, oppression, poverty, ageism, gender and relational affinity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77584 WRITING FOR PROFESSIONAL PUBLICATIONS 3 Credit Hours
Seminar experience designed to prepare professionals to publish research findings, conceptualizations and professional field experiences in refereed journals and books. Elements of grant writing also treated.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77592 PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Repeatable for credit) (Slashed with CES 67592) Involves individual counseling and group work with appropriate populations. Caseload geared toward preparation for internship. Controlled registration.
Prerequisite: CES 77628; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Standard Letter

CES 77628 DIAGNOSIS IN COUNSELING 3 Credit Hours
(Slashed with CES 67628) Students develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77662 FOUNDATIONS OF ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 67662) Introduction to fundamental concepts and recommended practices in addictions counseling, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77663 ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours
(Slashed with CES 67663) Attention is given to the identity, ethics, professional standards and organizations and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77664 THEORIES AND PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 77664) Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.
Prerequisite: CES 67662 or CES 77662; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77665 TREATMENT PLANNING IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 67665) Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative, coordinated, and ethical care.
Prerequisite: CES 67664 or CES 77664; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77666 EVIDENCE-BASED PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours
(Slashed with CES 67666) Intensive study of a select number of evidence-based practices (EBPs) in addictions counseling for individuals, groups, and families, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.
Prerequisite: CES 77665; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77668 MOTIVATIONAL INTERVIEWING 3 Credit Hours
(Slashed with CES 67668) Introduction to motivational interviewing (MI), a strengths-based evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77692 PRACTICUM IN ADDICTIONS COUNSELING 3-6 Credit Hours
(Slashed with CES 67692) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six to seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and counselor self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.
Prerequisite: CES 67665 or CES 77665 or CES 67666 or CES 77666; and doctoral standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter-IP

CES 77695 SPECIAL TOPICS IN CLINICAL MENTAL HEALTH COUNSELING 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 67695) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 77712 ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Slashed with CES 67712) Introductory course surveys philosophy, history and legislation in rehabilitation, which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77723 MEDICAL INFORMATION FOR CLINICAL REHABILITATION COUNSELORS 3 Credit Hours
(Slashed with CES 67723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours
(Slashed with CES 67725) Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours
(Slashed with CES 67732) An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77776 RESEARCH IN CLINICAL REHABILITATION COUNSELING 3 Credit Hours
(Slashed with CES 67776) Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Course acquaints students with current research. Evaluation of design statistical analysis and conclusions.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 77795 SPECIAL TOPICS IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours
(Repeatable for credit)(Slashed with CES 67795) Presentation of special interest to students. Topics vary per course offering.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 77796 INDIVIDUAL INVESTIGATION IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours
(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

CES 77798 INDIVIDUAL RESEARCH IN CLINICAL REHABILITATION COUNSELING 1-6 Credit Hours
(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of an instructor. Students must make arrangements with the instructor prior to registration.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 77820 GROUP WORK: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 67820) This is an experiential and didactic course designed to provide both an overview of groups and a basic group experience. Involvement in a group is part of this course as is practice of group leadership skills.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 77858 SEMINAR: GROUP COUNSELING 2 Credit Hours
(Slashed with CES 67858) Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 78011 FOUNDATIONS OF SCHOOL COUNSELING 3 Credit Hours
(Slashed with CES 68011) Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel and on the development of comprehensive school counseling program.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78066 COUNSELING ADOLESCENTS 3 Credit Hours
(Slashed with CES 68066) A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans and referral procedures for youth will be covered.
Prerequisite: CES 67530 or CES 77530 and CES 67531 or CES 77531; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78067 COUNSELING CHILDREN 3 Credit Hours
(Slashed with CES 68067) Seminar focusing on intra and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play media.
Prerequisite: CES 67530 or CES 77530 and CES 67531 or CES 77531; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78068 SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP 3 Credit Hours
(Slashed with CES 68068) Focuses on the management, leadership and implementation of comprehensive school counseling program including developmental counseling approaches, management systems and outcome research.
Prerequisite: CES 68011 or CES 78011; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78069 ORIENTATION AND ETHICS: SCHOOL COUNSELING 3 Credit Hours
(Slashed with CES 68069) Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards roles and functions of school counselors and ethical standards and legal issues.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78126 INTRODUCTION TO ASSESSMENT IN COUNSELING 3 Credit Hours
(Slashed with CES 68126) Instruction and experience in utilizing observational, measurement and appraisal methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78128 CLINICAL ASSESSMENT IN COUNSELING 3 Credit Hours
(Slashed with CES 68128) A laboratory experience in selecting, administering and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology.
Prerequisite: CES 68126 or CES 78126; and CES 67628 or CES 77628; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78130 PSYCHOPATHOLOGY FOR COUNSELORS 3 Credit Hours
(Slashed with CES 68130) This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment, and psychopharmocological aspects of treatment are considered.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78182 CAREER COUNSELING 3 Credit Hours
(Slashed with CES 68182) The world of work, theories of career choice, techniques in career counseling. An introductory course in the career area for practitioners in education, helping services, human resources and personnel.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78529 COUPLES THERAPY:THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 68529) Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78533 FAMILY THERAPY: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with CES 68533) Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic experiential and applied atmosphere.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78538 ADVANCED MULTICULTURAL COUNSELING 3 Credit Hours
(Slashed with CES 68538) This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided.
Prerequisite: CES 67580 or CES 77580; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 78592 PRACTICUM IN COUPLES AND FAMILY THERAPY 3 Credit Hours
(Repeatable for credit) Supervised experience in the practice of couples and family counseling. Students meet for individual supervision and seminar groups to assess their effectiveness in helping relationships.
Prerequisite: Doctoral standing in Counselor Education and Supervision major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 14 other
Grade Mode: Standard Letter

CES 79192 PRACTICUM II: CLINICAL REHABILITATION COUNSELING 3 Credit Hours
Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 16 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 79792 INTERNSHIP IN CLINICAL REHABILITATION COUNSELING 6 Credit Hours
(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor.
Prerequisite: CES 69192 or CES 79192; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 43 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 80090 DOCTORAL RESIDENCY SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours
Focus on professional identity, current issues and trends and involvement in professional activities.
Prerequisite: Doctoral standing in Counselor Education and Supervision major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral candidates work on dissertation research in consultation with their advisors. Doctoral candidates will register for two consecutive semesters of CES 80199 Dissertation I for 15 hours each semester, immediately following successful completion of doctoral comprehensive exams. Thereafter, students will register for CES 80299 Dissertation II each semester, including summer, until all degree requirements have been met.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 80200 FUNDAMENTALS OF WRITING AND RESEARCH IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours
Didactic and experiential training in the fundamentals of academic or scholarly writing and research in the counseling profession. Emphasis on reading practices; elements, principles, and processes of academic or scholarly writing; and generativity and systematic methodology in applied research in counseling and counselor education and supervision.
Prerequisite: Doctoral standing in the Counselor Education and Supervision major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of Dissertation I and continuing until all degree requirements are met. Satisfactory/unsatisfactory (S/U) graded. In-progress (IP) mark permissible.
Prerequisite: CES 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 80300 LEADERSHIP AND ADVOCACY IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours
This course is designed to assist doctoral level CES students to become knowledgeable and skillful professionals in leadership and advocacy efforts. Students will learn aspects of leadership and advocacy, such as applications in various settings and with diverse populations, to enable them to develop ethical and culturally relevant practices. Students must have completed one semester in the Counselor Education and Supervision doctoral program to enroll in this course.
Prerequisite: Doctoral standing in the Counselor Education and Supervision major.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 87392 ADVANCED INDIVIDUAL COUNSELING PRACTICUM 3 Credit Hours
(Repeatable for credit) Supervised experience in counseling. Students meet for individual supervision and in seminar groups to assess their effectiveness in helping relationships.
Prerequisite: Doctoral standing in the Counselor Education and Supervision major.
Schedule Type: Practical Experience
Contact Hours: 14 other
Grade Mode: Standard Letter

CES 87595 SPECIAL TOPICS IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) Presentation of topics of special interest to students in counselor education and supervision. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CES 87596 INDIVIDUAL INVESTIGATION IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CES 67596) Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 88167 CASE CONCEPTUALIZATION AND TREATMENT PLANNING 3 Credit Hours
(Slashed with CES 68167) Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used.
Prerequisite: CES 67628 or CES 77628; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 88168 ADVANCED COUNSELING THEORIES 3 Credit Hours
(Repeatable twice for credit) (Slashed with CES 68168) Consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 88281 RESEARCH SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours
Topics or problems of current concern in counselor education and supervision services. Review of significant studies, design strategies, instrumentation, data analysis and research issues. Topic to be announced in schedule of classes booklet.
Prerequisite: CES 80200, EVAL 75510, EVAL 85515 and EVAL 85516; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CES 88284 SUPERVISION IN COUNSELING I 3 Credit Hours
(Repeatable twice for credit) (Slashed with CES 68284) This seminar focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 88292 INTERNSHIP IN COUNSELOR EDUCATION AND SUPERVISION 3-6 Credit Hours
(Repeatable for credit) Opportunity to integrate learning and skills in Counseling, Teaching, Research and Scholarship, Leadership, and Supervision. Each experience requires supervision. Completion of program course requirements is necessary prior to registration. Limited to 12 students.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience, Seminar
Contact Hours: 23-46 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CES 88294 COLLEGE TEACHING IN COUNSELOR EDUCATION AND SUPERVISION I 3 Credit Hours
(Repeatable for credit) An overview of teaching counseling at a graduate college level. The course consists of foundations, structural, and process components of college teaching. Students will be involved in activities that address each of these areas. Students will develop a reflective process that will support continual improvement in teaching.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CES 88298 INDIVIDUAL RESEARCH IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours
(Repeatable for credit) Individual research on selected aspect of counseling and human development services under supervision of instructor. Arrangements with instructor must be made prior to registration. Satisfactory/unsatisfactory (S/U) graded.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CES 88392 COLLEGE TEACHING IN COUNSELOR EDUCATION AND SUPERVISION II 3 Credit Hours
(Repeatable for credit) Supervised experience in the practice of college teaching in Counselor Education and Supervision. Students will teach a master's level course in Counselor Education and Supervision and then meet for group supervision to assess their effectiveness in college teaching. Live and recorded supervisory processes will be utilized to assist with skill development.
Prerequisite: CES 88294; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CES 88492 SUPERVISION IN COUNSELING II 3 Credit Hours
(Repeatable for credit) This practicum focuses on the application of theoretical perspectives and practices of counseling supervision. It includes multiple supervisory experiences, including facilitation of individual and group supervision of counseling students in master's practicums or internships.
Prerequisite: CES 88284; and doctoral standing in the Counselor Education and Supervision major.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

Educational Psychology (EPSY)

EPSY 29525 EDUCATIONAL PSYCHOLOGY 3 Credit Hours
Examines major theories of human development and learning, motivation, instructional strategies, assessment; similarities and differences in learners. The role of factors in the students' learning and development is considered. Participation in the educational psychology research participant pool or an alternative research assignment is required.
Prerequisite: CULT 29535.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

EPSY 49525 RELATIONAL LEARNING IN EDUCATION 3 Credit Hours
(Repeatable for credit) Seminar focuses on national and international relational learning approaches to education. Current literature on relational learning is critiques. Professional identity is supported through engages learning opportunities in per mentoring experiences and faculty-let research. Course may be repeated for maximum 9 credit hours.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

EPSY 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EPSY 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

EPSY 63531 CURRICULUM DEVELOPMENT FOR GIFTED LEARNERS 3 Credit Hours
Focus on design/development of curriculum for gifted learners; adapt/modify existing curricula; design curricular materials through predetermined process assessment of suitability of materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 63532 GIFTED PROGRAM DESIGN, ASSESSMENT AND ADMINISTRATION 3 Credit Hours
Fundamentals of designing gifted programs are reviewed. Topics include student identification, assessment, advocacy, program evaluation, compliance with state standards, and teacher preparation.
Prerequisite: EPSY 63540 and EPSY 63545; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 63535 SOCIAL AND EMOTIONAL ASPECTS OF THE GIFTED AND SPECIAL SUBPOPULATIONS 3 Credit Hours
The affective needs and characteristics of gifted learners and special subpopulations are examined with consideration of the implications for instruction and socio-emotional supports.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 63540 NATURE AND NEEDS OF GIFTED 3 Credit Hours
Personal characteristics, abilities and potentialities of gifted through review of related research. Evaluation of research findings and implications for psycho-educational development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 63545 INSTRUCTIONAL PROCESSES FOR GIFTED CHILDREN 3 Credit Hours
Education and guidance of gifted students, K-12. Classroom strategies for instruction and accommodation including selection of appropriate instructional strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 64892 ADVANCED PRACTICUM: GIFTED AND TALENTED EDUCATION 3 Credit Hours
This course is designed to provide an opportunity to practice skills and demonstrate appropriate dispositions for meeting the needs of students who are gifted and talented.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

EPSY 65520 CHILD AND ADOLESCENT DEVELOPMENT 3 Credit Hours
(Slashed with EPSY 75520) Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 65523 LIFE SPAN DEVELOPMENT 3 Credit Hours
(Slashed with EPSY 75523) Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 65524 LEARNING THEORIES 3 Credit Hours
(Slashed with EPSY 75524) Theories of learning with special emphasis on application to professional practice. A critical examination of research on human learning processes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 65529 EDUCATIONAL MOTIVATION 3 Credit Hours
Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 68901 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credit Hours
(Slashed with EPSY 78901) Overview of human development, particularly adolescence, and implications for educational policy and programming, generally and specifically for secondary schools.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 68905 EDUCATIONAL PSYCHOLOGY 3 Credit Hours
(Slashed with EPSY 78905) Analysis and critique of major learning theories, state-of-the-art development in theory, research and application to educational practice in selected disciplines.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 69091 SEMINAR IN LEARNING AND DEVELOPMENT 1-5 Credit Hours
(Repeatable for credit)Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

EPSY 69092 ADVANCED PRACTICUM AND INTERNSHIP 1-6 Credit Hours
Supervised program in field setting involving application of theories, principles, and methodology in learning and development; planned with and supervised by graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.333-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPSY 69095 SPECIAL TOPICS IN LEARNING AND DEVELOPMENT 1-3 Credit Hours
(Repeatable for credit)Specific topic course offering in response to emerging student or program needs in learning and development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EPSY 69096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT 1-3 Credit Hours
(Repeatable for credit)Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPSY 69098 RESEARCH IN LEARNING AND DEVELOPMENT 1-15 Credit Hours
(Repeatable for credit)Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPSY 70093 VARIABLE TOPIC WORKSHOP IN EDUCATIONAL PSYCHOLOGY 1-4 Credit Hours
(Repeatable once for a maximum of 6 credit hours) (Cross-listed with EPSY 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

EPSY 75520 CHILD AND ADOLESCENT DEVELOPMENT 3 Credit Hours
(Slashed with EPSY 65520) Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 75523 LIFE SPAN DEVELOPMENT 3 Credit Hours
(Slashed with EPSY 65523) Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 75524 LEARNING THEORIES 3 Credit Hours
(Slashed with EPSY 65524) Theories of learning with special emphasis on application to professional practice. A critical examination of research on human learning processes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 75529 EDUCATIONAL MOTIVATION 3 Credit Hours
Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 78901 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credit Hours
(Slashed with EPSY 68901) Overview of human development and its implications for educational policy and programming for schools.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 78905 EDUCATIONAL PSYCHOLOGY 3 Credit Hours
(Slashed with EPSY 68905) Analysis and critique of major learning theories, state-of-the-art development in theory, research and application to educational practice in selected disciplines.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

EPSY 87450 PSYCHOLOGICAL PRINCIPLES OF EDUCATION 3 Credit Hours
Provides an exploration of educational psychology as the study of learning and teaching, in particular the mental representations and processes involved in the acquisition, storage, retrieval and use of knowledge in educational settings. Discusses how research and theory in educational psychology can be applied to real world classroom problems. Students are also required to develop a research project, which utilizes technology to test psychological theories about learning and instruction.
Prerequisite: Doctoral standing.
Corequisite: ETEC 87450.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPSY 89091 SEMINAR IN LEARNING AND DEVELOPMENT 1-5 Credit Hours
(Repeatable for credit) Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-5 other
Grade Mode: Standard Letter

EPSY 89092 ADVANCED PRACTICUM AND INTERNSHIP 1-6 Credit Hours
Supervised program in field setting involving application of theories, principles, and methodology in learning and development; planned with and supervised by graduate faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3.333-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPSY 89095 SPECIAL TOPICS IN LEARNING AND DEVELOPMENT 1-3 Credit Hours
(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in learning and development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

Gerontology (GERO)

GERO 14029 INTRODUCTION TO GERONTOLOGY (DIVD) (KSS) 3 Credit Hours
Interdisciplinary approach to the study of the aging process.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

GERO 40656 PSYCHOLOGY OF AGING 3 Credit Hours
(Slashed with GERO 50656 and GERO 70656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.
Prerequisite: PSYC 11762.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GERO 41095 SPECIAL TOPICS IN GERONTOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with GERO 51095) Discussion of a major topic within a specific field of gerontology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

GERO 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit)Independent study in gerontology.
Prerequisite: Written permission from instructor.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

GERO 44030 RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD (WIC) 3 Credit Hours
(Slashed with GERO 54030) This is an advanced level course that focuses on current research on physiological, psychological, and social dimensions of development across adulthood. The course considers continuity and change throughout the entire adult lifespan from young adulthood to midlife to later life.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

GERO 44031 SOCIAL POLICY AND COMMUNITY RESOURCES FOR OLDER ADULTS 3 Credit Hours
Overview of national, state and local public policy affecting older adults. Legislation, funding, planning and the service delivery system are examined.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GERO 44092 PRACTICUM IN GERONTOLOGY (ELR) 3-6 Credit Hours
(Repeatable for a total of 6 credit hours) Observation and participation in long-term care or community agencies serving older adults. One class discussion per week. Major GPA of 2.250 required.
Prerequisite: HDF 44018; and human development and family studies majors; and senior standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

GERO 50656 PSYCHOLOGY OF AGING 3 Credit Hours
(Slashed with GERO 40656 and GERO 70656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GERO 51095 SPECIAL TOPICS IN GERONTOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with GERO 41095) Discussion of a major topic or topics within the field of gerontology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

GERO 51096 INDIVIDUAL INVESTIGATION IN GERONTOLOGY 1-3 Credit Hours
(Repeatable for credit)Independent study in the area of gerontology.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

GERO 54030 RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD 3 Credit Hours
(Slashed with GERO 44030) This is an advanced level course that focuses on current research on physiological, psychological, and social dimensions of development across adulthood. The course considers continuity and change throughout the entire adult lifespan from young adulthood to midlife to later life.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GERO 61091 SEMINAR IN GERONTOLOGY 1-3 Credit Hours
(Repeatable for credit)Seminar dealing with topics in the field of gerontology.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

GERO 61191 INTERDISCIPLINARY SEMINAR IN GERONTOLOGY 3 Credit Hours
(Repeatable for credit)Course is designed to assist students in developing the knowledge and skills needed to understand the major issues in gerontological theory, research and practice from a multi-disciplinary perspective.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

GERO 70656 PSYCHOLOGY OF AGING 3 Credit Hours
(Slashed with GERO 40656 and GERO 50656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Human Development and Family Science (HDF)

HDF 14027 INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY SCIENCE 3 Credit Hours
This course is intended to introduce students to the study of lifespan development and family science. Career opportunities available to human development and family science graduates are explored and skills required to succeed in the field are introduced.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD) 3 Credit Hours
(Cross-listed with SOC 24011) Exploration of the sociological nature of families across the lifespan, focusing on structure, diversity and life course processes such as dating, mate selection, cohabitation, marriage, parenthood, divorce, remarriage, singlehood, widowhood, parent-child interactions, sexual orientation, inequality and difference.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

HDF 24012 RELATIONSHIPS AND DEVELOPMENT ACROSS CHILDHOOD 3 Credit Hours
This course introduces students to the study of child development, including the relationships between theory, research, and practice. It is intended to give students an in-depth look at relationships and other aspects of child development from conception across childhood as well as the multiple influences on children's development. Additionally, this course introduces students to the practice of working with children and their families.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 24013 EARLY ADOLESCENCE 3 Credit Hours
Examines the fundamental transitions, social contexts and psychosocial processes involved in human development from ages 10 through 15. Implications for working with this age group within schools, human services agencies and youth development programs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 24014 BRIDGING CROSS-NATIONAL RELATIONSHIPS FOR INDIVIDUALS AND FAMILIES 3 Credit Hours
This an interactive course designed to promote students' intercultural competence. The course provides students with an introduction to key components of various cultures around the world and with skills with which to build effective relationships with individuals from countries others than their own.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 24095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-4 Credit Hours
(Repeatable for credit) Discussion of a major topic within human development or family science.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HDF 25512 MANAGEMENT OF FAMILY RESOURCES 3 Credit Hours
Management as applied to individuals, families and human science professionals.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 34031 CULTURAL DIVERSITY: IMPLICATIONS FOR THE HELPING PROFESSIONS 3 Credit Hours
This class is designed to enhance the competence and success of students planning to work in human services. Learning how different cultural backgrounds influence the perceptions and behaviors of clients in the human service setting is emphasized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 41093 VARIABLE TOPIC WORKSHOP IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with HDF 51093) Workshop setting dealing with a topic or topics in human development and family science. Learning experiences are provided in a wide range of areas.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HDF 41095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-4 Credit Hours
(Repeatable for credit) (Slashed with HDF 51095) Discussion of a major topic within human development or family science.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HDF 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HDF 51096) Independent study in human development and family science.
Prerequisite: Written special approval from instructor.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HDF 42089 HUMAN DEVELOPMENT AND FAMILY SCIENCE INTERNATIONAL EXPERIENCE (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) (Slashed with HDF 52089) Exploration of human development and family science related topics while visiting various cultural contexts.
Prerequisite: Minimum 2.750 overall GPA; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP
Attributes: Diversity Global, Experiential Learning Requirement

HDF 44018 PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 3 Credit Hours
Preparation of students for professional work experiences as well as providing an opportunity to discuss recent developments in the fields of human development, family science and gerontology.
Prerequisite: HDF 24011; and Human Development and Family Science or Long-Term Care Administration majors; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44020 RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD 3 Credit Hours
(Slashed with HDF 54020) This course is designed to provide an in-depth understanding of development across adolescence and emerging adulthood, including the relationship between theory, research, and practice. The course focuses on transitions and relationships experienced during adolescence and emerging adulthood and context of these changes, as well as the application of theory and research to working with adolescents and emerging adults and their families.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44021 FAMILY INTERVENTION AND ADVOCACY 3 Credit Hours
(Slashed with HDF 54021) This course focuses on daily hassles, transitions, and crisis events that individuals and families may experience throughout the lifespan. Coping skills, support systems, and others resources that aid in managing these events as well as strategies for self-advocacy and advocacy on behalf of individuals and families are all addressed in this course.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44022 FAMILIES, GENDER AND POWER 3 Credit Hours
(Slashed with HDF 54022) The course uses a family science lens to focus on the intersection of gender with race, socioeconomic status and other factors related to power dynamics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44023 BUILDING FAMILY STRENGTHS (WIC) 3 Credit Hours
(Slashed with HDF 54023) The Building Family Strengths Model builds upon family life potential; based on extensive research emphasizing identified family strengths.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

HDF 44028 PARENT-CHILD RELATIONSHIPS 3 Credit Hours
(Slashed with HDF 54028) Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research.
Prerequisite: HDF 24011; and HDF 24012 or PSYC 20651.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44029 FAMILY POLICY 3 Credit Hours
(Slashed with HDF 54029) Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy making.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44030 FAMILY LIFE EDUCATION AND PREVENTION 3 Credit Hours
Addresses the family life education content areas, the integral role of prevention education in helping individuals and families and developing effective facilitation methods and techniques for family life education and prevention.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44032 NONPROFIT FUNDRAISING AND GRANTWRITING 3 Credit Hours
(Slashed with HDF 54032) Provides comprehensive preparation in planning, seeking and acquiring funding from available resources in supporting the mission of nonprofit human service agencies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44033 COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR) 3 Credit Hours
An overview of nonprofit organizations at the local, national and international levels, including how to start and manage one. A comprehensive examination of the Board of Directors, advocacy and lobbying, program development, mission, vision and strategic goals, philanthropic fundraising and the financial management process, as well as the legal aspects. In addition, students will study service learning and complete a Field Experience at a nonprofit organization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HDF 44034 PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT 3 Credit Hours
An overview of nonprofit organizations including the areas of risk management, mentoring, cultural competence, social entrepreneurship, and how to effectively manage paid staff and volunteers. In addition, students will learn about earned income strategies and the marketing-communication process, including the use of technology. The course will also cover leadership, communication and conflict resolution skills. Other areas of study include accountability and transparency, ethical behavior, building capacity, change management and the importance of collaborations and mergers and government support in the sector.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44035 TRAUMA-RESPONSIVE ASSESSMENT AND STRATEGIES 3 Credit Hours
This course examines the process of evaluating client needs and assessment of clients' condition in the context of work in human services. This course emphasizes interviewing as a major assessment strategy and incorporates trauma-informed practices into assessment of clients' needs and conditions.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44037 POSITIVE YOUTH DEVELOPMENT 3 Credit Hours
(Slashed with HDF 54037) Examines individual, family, school and community characteristics that comprise developmental assets contributing to positive youth development (PYD). Definitions and descriptions of PYD approaches are examined as well as evaluations of program effectiveness. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn healthy behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44038 PROFESSIONAL CHILD AND YOUTH PRACTICE 3 Credit Hours
(Slashed with HDF 54038) Provides students with an understanding of the historical and current methodologies and organizational structures of professional child and youth work practice, emphasizing a synthesis of previous and new learning regarding five domains of competence (professionalism, cultural and human diversity, applied human development, relationship and communication and developmental practice methods). Practice issues in community-based and out-of-home care settings as well as work with various child and youth populations are explored.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44039 BEREAVEMENT AND LOSS 3 Credit Hours
(Slashed with HDF 54039) Those who choose to work in helping professions often discover loss issues as the reason families seek assistance. Loss issues are also entangled in the complexity and dynamics of family scenarios. This course is taught in an applied, experiential manner and introduces phraseology, adaptive strategies and skills to more effectively work with the bereaved.
Prerequisite: HDF 24011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 44089 FAMILIES IN FLORENCE, ITALY: LOVE, PARENTING AND POLICY (DIVG) (ELR) 3 Credit Hours
The course explores how preventative family science and family policy are developed and executed in an international setting, specifically Florence, Italy. The course uses the city of Florence and its existing resources as experiential learning examples of course content. In this course, we will explore how historical family honor, rituals, culture, and social context continue to influence the modern Florentine family and policies devoted to families. Students will engage in experiential learning experiences to explore how modern policies impact families, and how preventative family education (Family Life Education) exists internationally. We aim to gain a comprehensive understanding of the modern Florentine/Italian family given current government policies while exploring Italian preventative family education.
Prerequisite: Minimum 2.500 overall GPA.
Schedule Type: International Experience, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

HDF 44092 PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY SCIENCE (ELR) 3-6 Credit Hours
(Repeatable for credit) Observation and participation in child, family and social service agencies. One class discussion per week. If the Practicum site requires it, students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned agency before the first day of the semester in which internship will take place. Major GPA of 2.250 is required.
Prerequisite: HDF 24011 and HDF 44018 and senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HDF 45089 LIFESPAN DEVELOPMENT PRACTICES AND OUTCOMES: THE ITALIAN EXPERIENCE (DIVG) (ELR) 3 Credit Hours
This course will explore lifespan development theories through the lens of Italian culture, policy and practices. Most class periods will be spent visiting and observing historical sites, schools, non-profit organizations, and observing everyday life while learning about the influence of religion, education, SES, and state policy on child, adolescent, and adult outcomes. Students will have the opportunity to actively engage with Florentines in a brief in-country volunteer experience.
Prerequisite: Minimum 2.500 overall GPA.
Schedule Type: International Experience, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

HDF 51093 VARIABLE TITLE WORKSHOP IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-3 Credit Hours
(Repeatable for credit) (Slashed with HDF 41093) Workshop setting dealing with a topic or topics in human development and family science. Learning experiences are provided in a wide range of areas.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

HDF 51095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 1-4 Credit Hours
(Repeatable for credit) (Slashed with HDF 41095) Discussion of a major topic within human development and family science.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

HDF 51096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with HDF 41096) Independent study in human development and/or family science.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

HDF 52089 HUMAN DEVELOPMENT AND FAMILY SCIENCE INTERNATIONAL EXPERIENCE 3 Credit Hours
(Repeatable for credit) (Slashed with HDF 42089) Exploration of human development and family science related topics while visiting various cultural contexts.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

HDF 54020 RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD 3 Credit Hours
(Slashed with HDF 44020) This course is designed to provide an in-depth understanding of development across adolescence and emerging adulthood. The relationship between theory, research, and practice. The course focuses on relationships and transitions experienced during adolescence and emerging adulthood and the context of these changes as well as the application of theory and research to working with adolescents and emerging adults and their families.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54021 FAMILY INTERVENTION AND ADVOCACY 3 Credit Hours
(Slashed with HDF 44021) This course focuses on daily hassles, transitions, and crisis events that individuals and families may experience throughout the lifespan. Coping skills, support systems, and others resources that aid in managing these events as well as strategies for self-advocacy and advocacy on behalf of individuals and families are all addressed in this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54022 FAMILIES, GENDER AND POWER 3 Credit Hours
(Slashed with HDF 44022) The course uses a family science lens to focus on the intersection of gender with race, socioeconomic status, and other factors related to power dynamics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54023 BUILDING FAMILY STRENGTHS 3 Credit Hours
(Slashed with HDF 44023) The building family strengths model builds upon family life potential, based on extensive research emphasizing identified family strengths.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54028 PARENT-CHILD RELATIONSHIPS 3 Credit Hours
(Slashed with HDF 44028) Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research.
Prerequisite: Human development and family science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54029 FAMILY POLICY 3 Credit Hours
(Slashed with HDF 44029) Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy making.
Prerequisite: Human development and family science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54032 NONPROFIT FUNDRAISING AND GRANTWRITING 3 Credit Hours
(Slashed with HDF 44032) Provides comprehensive preparation in planning, seeking and acquiring funding from available resources in supporting the mission of nonprofit human services agencies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54037 POSITIVE YOUTH DEVELOPMENT 3 Credit Hours
(Slashed with HDF 44037) Examines individual, family, school and community characteristics that comprise developmental assets contributing to positive youth development (PYD). Definitions and descriptions of PYD approaches are examined as well as evaluations of program effectiveness. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn health behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed. Students complete a program development project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54038 PROFESSIONAL CHILD AND YOUTH PRACTICE 3 Credit Hours
(Slashed with HDF 44038) Provides students with an understanding of the historical and current methodologies and organizational structures of professional child and youth work practice emphasizing a synthesis of previous and new learning regarding five domains of competence (professionalism, culture and human diversity, applied human development, relationship and communication and developmental practice methods). Practice issues in community-based and out of home care settings as well as work with various child and youth populations are to be explored. Students complete a program development and evaluation project.
Prerequisite: Human development and family science major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 54039 BEREAVEMENT AND LOSS 3 Credit Hours
(Slashed with HDF 44039) Those who choose to work in helping professions often discover loss issues as the reason families seek assistance. Loss issues are also entangled in the complexity and dynamics of family scenarios. This course is taught in an applied, experiential manner and introduces phraseology, adaptive strategies and skills to more effectively work with the bereaved.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 61091 SEMINAR 2-3 Credit Hours
(Repeatable for credit) Evaluation and interpretation of recent literature in human development and/or family science. Topic selected for semester will be indicated in the schedule of classes.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 2-3 other
Grade Mode: Standard Letter

HDF 61098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward meeting degree requirements if school approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

HDF 61099 MASTER'S PROJECT 2-6 Credit Hours
(Repeatable for credit) Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HDF 61199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HDF 61299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis II students must continue registration each semester until all degree requirements are met.
Prerequisite: HDF 61199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HDF 64023 FAMILY THEORIES AND PROCESSES 3 Credit Hours
An examination of theories and research for understanding family dynamics and changes in families across the lifespan. Includes attention to diverse family structures, dyadic and group processes applicable to families, and social and cultural contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 64024 FAMILY LIFE EDUCATION 3 Credit Hours
Developing community acceptance, teaching aids and techniques and curriculum for family life education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 64026 PROFESSIONAL ISSUES IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 2 Credit Hours
This course covers ethical and professional issues related to the field of human development and family science. The course will cover both conceptual ideas related to research and practice in the field as well as practical tools for professional development and successful completion of the Master's Thesis or Project.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HDF 64027 EARLY ADOLESCENCE 3 Credit Hours
Examines the fundamental changes, social contexts and psychosocial processes involved in human development from ages 8-15. Implications for working with this age group within schools and human service agencies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HDF 64092 PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY SCIENCE 3-6 Credit Hours
(Repeatable for credit) Observation and participation in child, family and social service agencies. One class discussion per week. If the Practicum site requires it, students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned agency before the first day of the semester in which internship will take place. Major GPA of 2.250 is required.
Prerequisite: Human development and family science major; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 14-35 other
Grade Mode: Standard Letter

Learning Science (LRNS)

LRNS 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 60299 THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: LRNS 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 65525 INFORMAL LEARNING 3 Credit Hours
(Slashed with LRNS 75525) Learning opportunities across the lifespan often occur outside of formal settings. Informal Learning explores learning in the wild, or learning without the use of formal techniques, curriculum, or assessments. The course will focus on helping students develop critical skills needed to read and synthesize basic research, as it is an important tool for lifelong learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 66510 INTRODUCTION TO R FOR EDUCATIONAL AND LEARNING SCIENCES 3 Credit Hours
(Slashed with LRNS 76510) An introduction to R for statistical computing for graduate students in educational, learning, cognitive, language and human behavioral sciences. Students will learn skills necessary to create graphical figures and tables and manipulate data structures and variables in executable code in R, R Studio and R markdown. Students will learn how to read, understand and synthesize code to develop readable data/results reporting formats on data repositories.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 66511 STATISTICAL PROGRAMMING IN R FOR LEARNING SCIENCE 3 Credit Hours
(Slashed with LRNS 76511) This is not a statistics course, but a programming course for statistics in R. The purpose of this course is to teach syntax for common analyses used in R among psychological and social sciences researchers. Theory, as related to statistics, will only be covered in reference to modeling constraints for each analysis. The purpose of this course will be to introduce students to basic syntax and data consideration for statistical analyses commonly used in R – such as t-tests, ANOVA, Regression, MANOVA, Power Analysis, and Mixed Random Effects Models.
Prerequisite: LRNS 66510 and RMS 68713 and RMS 68726; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 75525 INFORMAL LEARNING 3 Credit Hours
(Slashed with LRNS 66511) Learning opportunities across the lifespan often occur outside of formal settings. Informal Learning explores learning in the wild, or learning without the use of formal techniques, curriculum, or assessments. The course will focus on helping students develop critical skills needed to read and synthesize basic research, as it is an important tool for lifelong learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 76510 INTRODUCTION TO R FOR EDUCATIONAL AND LEARNING SCIENCES 3 Credit Hours
(Slashed with LRNS 66510) An introduction to R for statistical computing for graduate students in educational, learning, cognitive, language and human behavioral sciences. Students will learn skills necessary to create graphical figures and tables and manipulate data structures and variables in executable code in R, R Studio and R markdown. Students will learn how to read, understand and synthesize code to develop readable data/results reporting formats on data repositories.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 76511 STATISTICAL PROGRAMMING IN R FOR LEARNING SCIENCE 3 Credit Hours
(Slashed with LRNS 66511) This is not a statistics course, but a programming course for statistics in R. The purpose of this course is to teach syntax for common analyses used in R among psychological and social sciences researchers. Theory, as related to statistics, will only be covered in reference to modeling constraints for each analysis. The purpose of this course will be to introduce students to basic syntax and data consideration for statistical analyses commonly used in R – such as t-tests, ANOVA, Regression, MANOVA, Power Analysis, and Mixed Random Effects Models.
Prerequisite: LRNS 76510 and RMS 78713 and RMS 78726; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LRNS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: LRNS 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 89096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT 1-3 Credit Hours
(Repeatable for credit) Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

LRNS 89098 RESEARCH IN LEARNING AND DEVELOPMENT 1-6 Credit Hours
(Repeatable for credit) Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Long-Term Care Administration (LTCA)

LTCA 43092 INTERNSHIP IN NURSING HOME ADMINISTRATION/ HEALTH SERVICES EXECUTIVE (ELR) 9 Credit Hours
Internship in skilled nursing facility. One, 3 hour, on-campus seminar every three weeks (meets four times). Approximately 35-40 clock hours per week at internship site is required. Students participate in weekly online course discussions and have an on-site visit to their internship site during the semester.
Prerequisite: Minimum B grade in LTCA 44032; and human development and family studies majors or long-term care administration majors; and senior standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 33.33 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

LTCA 43192 INTERNSHIP IN NURSING HOME ADMINISTRATION/ HEALTH SERVICES EXECUTIVE (ELR) 9 Credit Hours
Internship in skilled nursing facility. One 3-hour, on-campus seminar every three weeks (meets four times). Approximately 35 clock hours per week at internship site is required. Students participate in weekly online course discussions and have an on-site visit to their internship site during the semester.
Prerequisite: Minimum B grade in LTCA 43092; and human development and family studies major or long-term care administration; and senior standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 33.33 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

LTCA 44032 LONG-TERM CARE ADMINISTRATION I 3 Credit Hours
(Slashed with LTCA 54032) Presents an overview and introduction to the principles of long-term care administration and other administration options.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LTCA 44033 LONG-TERM CARE ADMINISTRATION II 3 Credit Hours
(Slashed with LTCA 54033) Presents a focus on Assisted Living (AL) and Home and Community Based Services (HCBS) and Supports in long term care to align with accreditation standards for Nursing Home Administration-Health Services Executive (NHA-HSE).
Prerequisite: Minimum B- in LTCA 44032; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LTCA 54032 LONG-TERM CARE ADMINISTRATION I 3 Credit Hours
(Slashed with LTCA 44032) Presents an overview and introduction to the principles of long-term care (LTC) administration and other administration options.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LTCA 54033 LONG-TERM CARE ADMINISTRATION II 3 Credit Hours
(Slashed with LTCA 44033) Presents a focus on Assisted Living (AL) and Home and Community Based Services (HCBS) and Supports in long term care to align with accreditation standards for Nursing Home Administration-Health Services Executive (NHA-HSE).
Prerequisite: Minimum B grade in LTCA 54032; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LTCA 63092 INTERNSHIP IN NURSING HOME ADMINISTRATOR/ HEALTH SERVICES EXECUTIVE I 6 Credit Hours
Internship in skilled nursing facility and other lines of service. Seminar meetings during the semester. Weekly online discussions. Assignments and projects throughout the semester. Minimum 35 clock hours per week at internship site is required.
Prerequisite: Minimum B- grade in LTCA 54032; and graduate standing; and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 33.33 other
Grade Mode: Standard Letter

LTCA 63192 INTERNSHIP IN NURSING HOME ADMINISTRATOR/ HEALTH SERVICES EXECUTIVE II 6 Credit Hours
Internship in skilled nursing facility and other lines of service. Seminar meetings during the semester. Weekly online discussions. Assignments and projects throughout the semester. Minimum 35 clock hours per week at internship site is required.
Prerequisite: A minimum B grade in both LTCA 54032 and LTCA 63092; and graduate standing; and special approval.
Schedule Type: Practical Experience, Seminar
Contact Hours: 2 lecture, 33.33 other
Grade Mode: Standard Letter

Special Education (SPED)

SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD) 3 Credit Hours
Introduction to student exceptionalities, service delivery/placement options, and multidisciplinary team process. Focus on identification of characteristics definition and identification procedures of students with exceptionalities.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, TAG Education

SPED 24000 INCLUSIVE PRACTICES 3 Credit Hours
Overview of current special education issues as they relate to inclusive practices. Students gain an understanding of the challenges faced by exceptional students and analyze the responsibilities of educational professionals in addressing these challenges. Students develop a productive orientation toward effective instruction in inclusive settings through a study of legal, practical, professional and attitudinal issues relevant to inclusive education.
Prerequisite: SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 40093 WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours
(Slashed with SPED 50093 and SPED 70093)(Repeatable for credit) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University faculty and other institutions. Offered irregularly.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 42030 ISSUES IN MODERATE-INTENSIVE DISABILITIES 3 Credit Hours
(Slashed with SPED 52030) Addresses a variety of topics relevant to the education of students with moderate to intensive (MDIN) educational needs, including contemporary issues, evidence-based interventions and the understanding and addressing of mental health issues in educational environments. Prepares pre-service MDIN teachers to understand challenges they are likely to encounter in the classroom, and connects them with local and national professional development resources to help address those challenges.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 42951 EARLY INTERVENTION IN NATURAL ENVIRONMENTS 3 Credit Hours
Course targets a broad array of early childhood professionals that comprise the field of early intervention from practitioners to future leaders in the field. Primary focus is on identifying natural opportunities for infants and toddlers to acquire and practice functional skills and behaviors. Recommended practice guidelines of the Division for Early Childhood indicate that interventions should be embedded and distributed within and across the routines, activities and places that are part of the child's daily experience. Course explores issues related to the various natural environments of the children in search of the routines, activities and places that offer the maximum learning and practice opportunities that are family-centered, developmentally and individually appropriate, culturally sensitive and least intrusive.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43010 FAMILY AND PROFESSIONAL COLLABORATION 3 Credit Hours
(Slashed with SPED 53010) This course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions who provide services to them. Use of collaborative, interdisciplinary, and inter-agency models in special education.
Prerequisite: Admission to advanced study or the professional phase; and SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43021 ASSESSMENT FOR SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 53021) Investigates issues and methods for assessing the academic, behavioral, physiological, mental health, and life skills of individuals with mild, moderate, and intensive disabilities. Interpretation of norm- and criterion formal assessments, creation of alternative assessments, modification of informal assessments, ecological and community-based assessments specific to individuals with low incidence and multiple disabilities.
Prerequisite: SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43022 INDIVIDUALIZED PROGRAMMING AND ASSESSMENT IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 53022) Course provides students with the knowledge and skills to select appropriate screening and assessment tools for the purpose of determining eligibility for special education services. In addition, students learn how to administer, score and use assessment results to develop an individualized education program (IEP) for students identified with disabilities.
Prerequisite: Admission to advanced standing; and SPED 24000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with SPED 53030) Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are emphasized. Procedures for assessing and modifying classroom environments/ instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours.
Prerequisite: Admission to advanced study or the professional phase; and SPED 23000.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 1.5 other
Grade Mode: Standard Letter

SPED 43031 APPLIED BEHAVIOR ANALYSIS II: APPLICATION 3 Credit Hours
Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 43030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours.
Prerequisite: Admission to advanced study; and SPED 43030.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

SPED 43040 LANGUAGE AND READING IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 53040) Course focuses on instructional approaches to teaching reading and language arts to students with disabilities. Major emphasis throughout is on research-based techniques to improve student reading performance, focusing on the direct instruction approach to teaching reading. Students develop intervention strategies to adapt instructional techniques, materials and assessments to meet the needs of diverse learners with disabilities.
Prerequisite: Admission to advanced study; and SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43041 SUPPLEMENTAL AND INTENSIVE INSTRUCTION FOR MATHEMATICAL DIFFICULTIES 3 Credit Hours
This course provides students with the knowledge and skills to plan, deliver, and evaluate supplemental and intensive math instruction using research-based programs and practices. Data based individualization will be used to determine what and how to teach to promote mastery and understanding of critical math skills and concepts. Students learn effective strategies and instructional approaches for improving outcomes for students experiencing persistent difficulties learning math, including students with disabilities.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43042 INTENSIVE READING INTERVENTIONS AND PHONICS 3 Credit Hours
(Slashed with SPED 53042) Prepares students to provide high-quality evidence-based reading instruction to children with significant reading difficulties, including those with and without disabilities. Students will learn how to diagnose specific reading strengths and difficulties, select appropriate evidence-based interventions based on data and provide intensive interventions consistent with the science of reading. Students will learn foundational and advanced concepts in phonics necessary to teach children with dyslexia, learning disabilities, autism and other disabilities that impact reading development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43050 CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS 3 Credit Hours
Definitions, causes and characteristics, and social and educational implications of learning, developmental and emotional/behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions, current issues.
Prerequisite: SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43051 CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS 3 Credit Hours
Overview of specific facets and causes of severe disabilities, physical/psychological aspects, family societal responses political trends etiology and medical implications educational and vocational programming assessment and treatment planning assistive technology.
Prerequisite: SPED 23000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43062 CURRICULUM METHODS MILD/MODERATE INTERVENTION 3 Credit Hours
(Slashed with SPED 53062) Effective methods for teaching students with mild to moderate disabilities. Research-based practices for individualizing the general education curriculum. Emphasis on specially designed instruction, collaboration, and team-based problem solving.
Prerequisite: Admission to advanced study or the professional phase; and SPED 24000.
Corequisite: SPED 44092.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43063 CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION 3 Credit Hours
(Slashed with SPED 53063) Delivery and adaptation of evidence based practices for students with moderate to intensive educational needs. An emphasis is placed on instruction of functional academic and life skills within naturalistic contexts.
Prerequisite: Admission to advanced study or the professional phase.
Corequisite: SPED 44192.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43070 PLANNING AND PROGRAMMING FOR TRANSITIONS 3 Credit Hours
This course discusses transitions that occur throughout the lifespan for individuals with and without disabilities, and the planning, support development and services available to successfully accomplish them. Introduction to community agencies and adult services.
Prerequisite: SPED 43050 or SPED 43051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43080 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES 3 Credit Hours
(Slashed with SPED 53080) Examines the application of high and low technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students.
Prerequisite: Admission to advanced study or professional phase; and SPED 43050 or SPED 43051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43306 FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS 3 Credit Hours
(Slashed with SPED 53306) This course focuses on providing non-audiology majors, specifically deaf education, educational interpreting, and ASL majors, with knowledge to support and serve children with a variety of hearing disorders in the educational setting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43307 LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS 3 Credit Hours
(Slashed with SPED 53307) This class focuses on listening, language and phonemic development for individuals with hearing loss. Specific areas will focus on typical language development and the impacts of hearing loss on language development in receptive, expressive, semantic, phonological, social, morphological and syntactical domains with an emphasis on reading and written language. The Auditory-Visual continuum, SCALES, along with strategies for zone of development will be focused on with auditory development strategies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43309 INTRODUCTION TO DEAF STUDIES (ELR) (WIC) 3 Credit Hours
(Cross-listed with ASL 49309) (Slashed with SPED 53309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment and the various communication systems used by deaf individuals. Specifically, topics discussed include historical, medical and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational and vocational experiences of deaf children, adults and their families.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

SPED 43310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS 3 Credit Hours
(Slashed with SPED 53310) Reviews research, theories and theorists in the field of language development for hearing and deaf children; develops awareness of language differences commonly demonstrated by deaf and hard-of hearing children; demonstrates ways to assess linguistic differences and facilitate instruction. Six topic areas include theories of language development (review), language and cognition, normal language acquisition in signed and spoken languages, child-caregiver interaction, language learning in a bilingual setting and language assessment. Students gain foundational understanding of language development and awareness of classroom applications for this knowledge. Deaf Education majors must achieve a minimum grade of B (3.000) in SPED 43309 before registering for this course.
Prerequisite: Admission to advanced study; and SPED 43309; and ASL 19202; and special education major or ASL english interpreting major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS 3 Credit Hours
IEP and transition planning strategies and program content for deaf/hard-of-hearing students w/ADHD, BD, DD, VI, DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson development and adaptation for impacted areas.
Prerequisite: Admission to advaned study; and SPED 43313 with a minimum B grade.
Corequisite: SPED 43392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS 6 Credit Hours
(Slashed with SPED 53313) Theoretical overview of integrated linguistics curriculum and reading theories. Strategies to address DHH difficulties and barriers, instructional planning and materials design, and ongoing assessment strategies. Course includes a practicum placement.
Prerequisite: Admission to advanced study; and SPED 43310 with a minimum B grade; and CI 47504 or ECED 40402.
Pre/corequisite: ASL 29202.
Corequisite: SPED 43392.
Schedule Type: Lecture
Contact Hours: 6 lecture
Grade Mode: Standard Letter

SPED 43324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD-OF-HEARING STUDENTS 3 Credit Hours
Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing.
Prerequisite: Admission to advanced study; and SPED 43313 with a minimum C grade; and CI 47501 and CI 47502.
Corequisite: SPED 43392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43392 PRACTICUM: DEAF EDUCATION (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) This classroom and field-based experience is designed to provide pre-service deaf education teachers with the opportunity to develop professional-level skills in working with deaf and hard-of-hearing (DHH) students. The field component will provide experience in working with DHH students with diverse needs, disabilities and ethnic-cultural backgrounds. The class will address appropriate lesson planning and implementation. Students will spend a minimum of 50 hours in the educational setting (a classroom/educational environment) working with at least one student with hearing loss.
Prerequisite: Deaf education concentration in the special education major.
Schedule Type: Practical Experience
Contact Hours: 3.33-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPED 43950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 53950 and SPED 73950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43953 FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours
The course is specifically designed to examine issues facing families and professionals serving young children with disabilities and those who are at-risk. This course will provide students with theory, general principles, and procedures for fostering partnerships among families, professionals, students, and other stakeholders that lead to outcomes of individual and mutual empowerment.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43954 PRACTICAL APPLICATION: TEAMING 3 Credit Hours
The purpose of this course is to help students understand and apply the principles of effective collaborative teaming as related to their professional roles and responsibilities in a variety of educational settings serving young children with disabilities. A range of topics will be addressed throughout the course, including team models, consultation, reflective practices, effective meetings, conflict resolution and communication skills and coaching.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43955 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours
This course provides an overview of typical and atypical development in young children from birth through age eight, both at the pre-natal and peri-natal levels. Traditional and modern theories of development are discussed within an ecological framework, with an emphasis on brain research, risk factors, culture, and the implications of atypical development as it relates to play and learning. Emphasis on the interrelatedness of development as well as the sequences of development (pedagogical, developmental and logical) is explored.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43958 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours
This course is designed to provide an overview of topics and issues in regard to young children with disabilities within the context of family and current society. This course is a foundational course relevant to early childhood intervention (ECI) professionals from a variety of fields, and includes the current practices in serving young children and their families. All the information provided is interdisciplinary, inclusive and family-focused by nature. The core principles of the Individuals with Disabilities Education Improvement Act (IDEIA) will be reviewed with specific emphasis on Part B 619 and Part C provisions.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43964 ASSESSMENT AND EVALUATION IN EARLY INTERVENTION AND EARLY CHILDHOOD SPECIAL EDUCATION 3 Credit Hours
This course provides an overview of assessment and evaluation in early childhood services. We will examine a range of systems for comparing and observing early childhood services, practices, for young children and families including: screening, eligibility, programmatic assessment, performance monitoring, program evaluation, and accountability. The theoretical concepts of assessment and program evaluation in early childhood services will be investigated in this course, and there will also be opportunities for you to apply this knowledge of assessment instruments, curriculum and instructional strategies and program evaluation methods to intervention settings. Issues and trends related to assessing young children with disabilities (e.g., assessing family outcomes, cultural and linguistic differences) will also be discussed.
Prerequisite: Minimum 2.750 overall GPA; and sophomore or higher standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 43991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Undergraduate seminar in special education; varied topics.
Prerequisite: Admission to advanced study.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SPED 43995 SPECIAL TOPICS IN SPECIAL EDUCATION 1-4 Credit Hours
(Repeatable for credit) Selected topics intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of faculty within Special Education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

SPED 43996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) Student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Special Education faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 44020 MEDICAL ASPECTS OF AUTISM SPECTRUM DISORDERS 3 Credit Hours
(Cross-listed with SPA 44020) Description of medical issues facing individuals with autism spectrum disorders (ASD) and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 44092 FIELD EXPERIENCE 1 FOR INTERVENTION SPECIALISTS (ELR) 3 Credit Hours
(Repeatable for credit) This course is designed to introduce the teacher candidates to the Intervention Specialist Profession. Students will be placed to a setting where they are expected to work with an intervention specialist. Students will also attend a seminar that includes assignments in conjunction with the field activities. Teacher candidates will be evaluated in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with DEC/CEC standards.
Prerequisite: Special Education major; and 2.75 overall GPA.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

SPED 44192 FIELD EXPERIENCE 2 FOR INTERVENTION SPECIALISTS (ELR) 3 Credit Hours
(Repeatable for credit) This course is designed to introduce the teacher candidates to the Intervention Specialist Profession. Students will be placed to a setting where they are expected to work with an intervention specialist. Students will also attend a seminar that includes assignments in conjunction with the field activities. Teacher candidates will be evaluated in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with DEC/CEC standards.
Prerequisite: SPED 44092; and admission to advanced study or the professional phase.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

SPED 44309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours
(Slashed with SPA 54309, SPA 74309 and SPED 64309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 44492 STUDENT TEACHING IN SPECIAL EDUCATION (ELR) 4-9 Credit Hours
Provides opportunity to demonstrate skills in teaching. Students placed in education-based settings; assume total teaching responsibilities of students with exceptionalities for 480 clock hours under the supervision of the school-based mentor teacher and the university supervisor. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Admission to advanced study.
Corequisite: SPED 49525.
Schedule Type: Practical Experience
Contact Hours: 17-35 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SPED 44951 CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC) 3 Credit Hours
In this course, students will become familiar with the federal law and state rules as well as recommended practices governing IFSP and IEP development. Students will use this knowledge to competently develop and prepare to implement IFSP outcomes and strategies, and or IEP goals, objectives and benchmarks through the identification of appropriate strategies as well as related supports and services. Family-centered, strengths-based planning and collaboration within the teaming approach will be emphasized. Students will learn about the process of facilitating the development, implementation, and monitoring of the IFSP and IEP as well as learn about the products of this process.
Prerequisite: Minimum 2.750 overall GPA; SPED 43021; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

SPED 45089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION (DIVG) (ELR) 1-4 Credit Hours
(Repeatable for credit) (Slashed with SPED 55089 and SPED 75089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: None.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP
Attributes: Diversity Global, Experiential Learning Requirement

SPED 45090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION (ELR) 1-4 Credit Hours
(Slashed with SPED 55090 and SPED 75090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: None.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

SPED 48880 DEAF EDUCATION TEACHING LABORATORY 1-3 Credit Hours
(Repeatable for credit) The purpose of the "teaching lab" is to provide pre-service teachers with the opportunity to develop their teaching skills prior to student teaching experiences, and to be more effective in their practicum placements. This is accomplished through the planning, teaching, and reflection of mock lessons. Through the "teaching lab" experience, pre-service deaf education teachers will have the opportunity to develop professional-level skills necessary for working with deaf and hard-of-hearing (DHH) students, along with self-reflection and giving and/or receiving feedback. Participating faculty members will observe and assess pre-service teachers as they develop their teaching skills and understanding of what it means to be a professional in the field.
Prerequisite: Enrollment in advanced study.
Schedule Type: Laboratory
Contact Hours: 2-6 lab
Grade Mode: Satisfactory/Unsatisfactory

SPED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE 3 Credit Hours
Focus on effective, ethical and responsible implication of professional practice. Provides vehicle to articulate and demonstrate professional competencies, commitment and ethical decision making for providing services to students.
Prerequisite: Admission to advanced study.
Corequisite: SPED 44492.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPED 50093 VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours
(Slashed with SPED 40093 and 70093)(Repeatable for credit) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University and other institution faculty. Offered irregularly.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

SPED 52030 ISSUES IN MODERATE-INTENSIVE DISABILITIES 3 Credit Hours
(Slashed with SPED 42030) Addresses a variety of topics relevant to the education of students with moderate to intensive (MDIN) educational needs, including contemporary issues, evidence-based interventions and the understanding and addressing of mental health issues in educational environments. Prepares pre-service MDIN teachers to understand challenges they are likely to encounter in the classroom, and connects them with local and national professional development resources to help address those challenges.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53010 FAMILY AND PROFESSIONAL COLLABORATION 3 Credit Hours
(Slashed with SPED 43010) This course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions who provide services to them. Use of collaborative, interdisciplinary, and inter-agency models in special education.
Prerequisite: SPED 23000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53021 ASSESSMENT FOR SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 43021) Investigates issues and methods for assessing the academic, behavioral, physiological, mental health, and life skills of individuals with mild, moderate, and intensive disabilities. Interpretation of norm- and criterion formal assessments, creation of alternative assessments, modification of informal assessments, ecological and community-based assessments specific to individuals with low incidence and multiple disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53022 INDIVIDUALIZED PROGRAMMING AND ASSESSMENT IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 43022) Course provides students with the knowledge and skills to select appropriate screening and assessment tools for the purpose of determining eligibility for special education services. In addition, students learn how to administer, score and use assessment results to develop an Individualized Education Program (IEP) for students identified with disabilities.
Prerequisite: SPED 24000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES 3 Credit Hours
(Slashed with SPED 43030) Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are emphasized. Procedures for assessing and modifying classroom environments/ instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2.5 lecture, 1.5 other
Grade Mode: Standard Letter

SPED 53031 APPLIED BEHAVIOR ANALYSIS II: APPLICATION 3 Credit Hours
Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 43030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours.
Prerequisite: SPED 53030; and graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

SPED 53040 LANGUAGE AND READING IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 43040) This course focuses on instructional approaches to teaching language and reading to students with disabilities. The major emphasis throughout the course will be on research based techniques to improve student reading performance, focusing on the direct instruction approach to teaching reading. The course will also include intervention strategies to adapt instructional techniques, materials and assessments to meet the needs of diverse learners with disabilities.
Prerequisite: SPED 23000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53041 SUPPLEMENTAL AND INTENSIVE INSTRUCTION FOR MATHEMATICAL DIFFICULTIES 3 Credit Hours
(Slashed with SPED 43041) This course provides students with the knowledge and skills to plan, deliver, and evaluate supplemental and intensive math instruction using research-based programs and practices. Data based individualization will be used to determine what and how to teach to promote mastery and understanding of critical math skills and concepts. Students learn effective strategies and instructional approaches for improving outcomes for students experiencing persistent difficulties learning math, including students with disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53042 INTENSIVE READING INTERVENTIONS AND PHONICS 3 Credit Hours
(Slashed with SPED 43042) This course prepares students to provide high-quality evidence-based reading instruction to children with significant reading difficulties, including those with and without disabilities. Students will learn how to diagnose specific reading strengths and difficulties, select appropriate evidence-based interventions based on data, and provide intensive interventions consistent with the science of reading. Students will learn foundational and advanced concepts in phonics necessary to teach children with dyslexia, learning disabilities, autism, and other disabilities that impact reading development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53050 CHARACTERISTICS OF STUDENTS WITH MILD/ MODERATE INTERVENTION NEEDS 3 Credit Hours
Definitions, causes, characteristics; social, educational implications of learning developmental and emotional behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions; current issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53051 CHARACTERISTICS OF STUDENTS WITH MODERATE/ INTENSIVE INTERVENTION NEEDS 3 Credit Hours
Overview of specific facets and causes of severe disabilities, physical/ psychological aspects family/societal responses, political trends, etiology and medical implications, educational and vocational programming, assessment and treatment planning, assistive technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53062 CURRICULUM METHODS MILD/MODERATE INTERVENTION 3 Credit Hours
(Slashed with SPED 43062) Effective methods for teaching students with mild to moderate disabilities. Research-based practices for individualizing the general education curriculum. Emphasis on specially designed instruction, collaboration, and team-based problem solving.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53063 CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION 3 Credit Hours
(Slashed with SPED 43063) Delivery and adaptation of evidence based practices for students with moderate to intensive educational needs. An emphasis is placed on instruction of functional academic and life skills within naturalistic contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53070 PLANNING AND PROGRAMMING FOR TRANSITIONS 3 Credit Hours
This course addresses life-span community participation and the planning, support, development, and services available to accomplish it. Introduction to community agencies and adult services. 10 clinical 15 field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53080 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES 3 Credit Hours
Examines the application of high and low technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students.
Prerequisite: SPED 53050 or SPED 53051; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53101 DEAF CULTURE AND COMMUNITY 3 Credit Hours
(Slashed with ASL 49401) Exploration of historical events and figures from deaf community perspective. Life experiences of "typical" deaf individuals as minority culture representatives interacting with majority culture institutions and processes as depicted in narrative storytelling and folklore.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53108 AMERICAN SIGN LANGUAGE LINGUISTICS AND USAGE 3 Credit Hours
(Cross-listed with ASL 49108) Analytical study of American Sign Language syntactic, semantic, morphology and pragmatics; comparison of spoken languages and ASL using the Stokoe system, impact of educational-setting characteristics on linguistic processes.
Prerequisite: SPED 4/53100; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53306 FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS 3 Credit Hours
(Slashed with SPED 43306) This course focuses on providing non-audiology majors, specifically deaf education, educational interpreting, and ASL majors, with knowledge to support and serve children with a variety of hearing disorders in the educational setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53307 LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS 3 Credit Hours
(Slashed with SPED 43307) This class focuses on listening, language and phonemic development for individuals with hearing loss. Specific areas will focus on typical language development and the impacts of hearing loss on language development in receptive, expressive, semantic, phonological, social, morphological and syntactical domains with an emphasis on reading and written language. The Auditory-Visual continuum, SCALES, along with strategies for zone of development will be focused on with auditory development strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53309 INTRODUCTION TO DEAF STUDIES 3 Credit Hours
(Slashed with ASL 49309 and SPED 43309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment and the various communication systems used by deaf individuals. Specifically, topics discussed include historical, medical and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational and vocational experiences of deaf children, adults and their families.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS 3 Credit Hours
Reviews research, theories and theorists in the field of language development for hearing and deaf children; develops awareness of language differences commonly demonstrated by deaf and hard-of hearing children; demonstrates ways to assess linguistic differences and facilitate instruction. Six topic areas include theories of language development (review), language and cognition, normal language acquisition in signed and spoken languages, child-caregiver interaction, language learning in a bilingual setting and language assessment. Students gain foundational understanding of language development and awareness of classroom applications for this knowledge. Deaf Education majors must achieve a minimum grade of B (3.000) in SPED 53309 before registering for this course.
Prerequisite: SPED 53309 and ASL 19202; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS 3 Credit Hours
IEP and transition planning strategies and program content for deaf/hard-of-hearing students with ADHD, BD, DD,VI,DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson development and adaptation for impacted areas.
Prerequisite: SPED 53313 with a minimum B grade; and graduate standing.
Corequisite: SPED 63392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS 6 Credit Hours
Theoretical overview of integrated linguistics curriculum and reading theories. Strategies to address DHH difficulties and barriers, instructional planning and materials design, and ongoing assessment strategies. Course includes a practicum placement.
Prerequisite: SPED 53310 with a minimum B grade; and CI 67310 or CI 57504; and graduate standing.
Pre/corequisite: ASL 29202 and SPED 63392.
Schedule Type: Lecture
Contact Hours: 6 lecture
Grade Mode: Standard Letter

SPED 53316 EARLY CHILDHOOD DEAF EDUCATION: FAMILY AND CHILD SERVICE PROVISION 3 Credit Hours
Targets the issues and needs of young deaf/hard-of-hearing children and their families. Topics covered relate to service provision in the home and classroom for deaf/hard-of-hearing children from birth to 5 years of age. Includes 30 hours of work in a practicum placement with a young D/HH child and his/her family.
Prerequisite: SPED 4/53310; ASL/SPED 29202 or sign language proficiency interview (SLPI) at intermediate or above; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD OF HEARING STUDENTS 3 Credit Hours
Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing.
Prerequisite: SPED 53313 with a minimum B grade; and CI 57501 and CI 57502; and graduate standing.
Corequisite: SPED 53392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53534 SOCIAL/EMOTIONAL COMPONENTS OF GIFTEDNESS 3 Credit Hours
Affective growth of gifted persons is reviewed through research literature and analysis of case studies. Reviews adjustment problems of gifted youth and adults.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 53950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 43950 and 73950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 54030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours
(Cross-listed with SPA 54030) (Slashed with SPA 44030 and SPA 74030) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with Autism Spectrum Disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 54309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours
(Cross-listed with SPA 54309) (Slashed with SPA 74309 and SPED 44309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 55089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours
(Slashed with SPED 45089 and SPED 75089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Graduate standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPED 55090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours
(Slashed with SPED 45090 and SPED 75090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Graduate standing.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPED 58880 DEAF EDUCATION TEACHING LABORATORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with SPED 48880) The purpose of the "teaching lab" is to provide pre-service teachers with the opportunity to develop their teaching skills prior to student teaching experiences, and to be more effective in their practicum placements. This is accomplished through the planning, teaching, and reflection of mock lessons. Through the "teaching lab" experience, pre-service deaf education teachers will have the opportunity to develop professional-level skills necessary for working with deaf and hard-of-hearing (DHH) students, along with self-reflection and giving and/or receiving feedback. Participating faculty members will observe and assess pre-service teachers as they develop their teaching skills and understanding of what it means to be a professional in the field.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2-6 lab
Grade Mode: Satisfactory/Unsatisfactory

SPED 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: SPED 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 62951 EARLY INTERVENTION IN NATURAL ENVIRONMENTS 3 Credit Hours
This seminar targets early childhood special education and intervention professionals that comprise the field of early intervention from practitioners to future leaders in the field. Recommended practice guidelines of the Division for Early Childhood (DEC) indicate that interventions should be embedded and distributed within and across the routines, activities and places that are part of the child's daily experience. In keeping with DEC recommendations, this course will explore issues related to the various natural environments of the children in search of the routines, activities, and places that offer the maximum learning and practice opportunities that are family centered, developmentally and individually appropriate, culturally sensitive, and least intrusive.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63030 PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION 3 Credit Hours
Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/ intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63031 PROGRAM DEVELOPMENT IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours
Describe and apply methodology and research design in developing and monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based in applied behavior analysis. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to treatment implementation fidelity and behavioral program development are also emphasized.
Prerequisite: Graduate standing.
Pre/corequisite: SPED 53030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63032 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours
Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hours.
Prerequisite: SPED 53030, SPED 53031, SPED 63031, SPED 63301 and SPED 63033; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63033 ETHICAL AND PROFESSIONAL CONDUCT IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours
This course provides an intensive focus on ethical and professional conduct as it applies to day-to-day implementation of applied behavior analytic strategies by professional behavior analysts. Responsible conduct of a behavior analyst, ethical responsibilities to clients, colleagues, the field of applied behavior analysis, and society are featured. BACB Guidelines for Responsible Conduct for Behavior Analyst and BACB Disciplinary and Ethical Standards are reviewed and studied. This course focuses on meeting the updated standards for ethics set forth by the Behavior Analyst Certification Board in the BACB Fourth Edition Task List.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63034 PRINCIPLES AND CONCEPTS IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours
This course focuses on the advanced conceptual, philosophical, and theoretical underpinnings of applied behavior analysis and the research literature from which they were derived. This course is designed for those who will pursue certification through the Behavior Analyst Certification Board, and as such, delves deep into the technical aspects of the science of applied behavior analysis. Students will become fluent in such areas as the theories of behavior, principles of operant and respondent conditioning, stimulus class, automatic and socially mediated contingencies, motivating operations, and stimulus control, as well as be able to identify and describe examples of how they are used. Prerequisite: Admission to Behavior Intervention Specialist Certificate; and graduate standing
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63075 ASPECTS OF DISABILITY AND TRANSITION SERVICES 3 Credit Hours
This course provides an advanced examination of evidence-based practices involved in providing transition services to students with a wide range of disabilities. Topics include but are not limited to: assessment of transition needs and interests, job development and creation, support and instruction in the classroom and community and collaboration with families and related transition service providers.
Prerequisite: SPED 53070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63092 FIELD EXPERIENCE IN SPECIAL EDUCATION 3 Credit Hours
Provides opportunity to observe master teachers and begin working with students. Students are placed in education-based settings and work with a team of professionals to understand techniques for providing services to students with exceptionalities. Additional seminar meetings.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 63101 ADMINISTRATION AND SUPERVISION IN SPECIAL EDUCATION 3 Credit Hours
Administration of educational programs for exceptional children; improvement of teacher competencies; function of special education supervisors; and special education operations at local, state and national levels.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63201 CONTEMPORARY ISSUES IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 83201) Surveys current research, literature and policy issues that affect identification, assessment and service provision to students with exceptionalities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63204 LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 73204) This course will review the statutory and regulatory foundations of U.S. public policies pertaining to children and youth with disabilities. Key judicial interpretations of those policies will also be reviewed. The course will provide comprehensive overviews of The Individuals with Disabilities Education Act, The Every Student Succeeds Act, The Americans with Disabilities Act, The Vocational Rehabilitation Act, relevant sections of The Social Security Act. In addition, students will gain an awareness of miscellaneous other pieces of legislation and examples of case law pertaining to the education of students with disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63300 RESEARCH APPLICATIONS IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 73300) Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum, and assimilating knowledge through applied projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPED 63301 SINGLE SUBJECT RESEARCH METHODS 3 Credit Hours
(Repeatable for credit) This course focuses on design and implementation of high-quality, experimental single subject research studies for the purpose of evaluating the effectiveness of an intervention with a particular individual. Masters students learn about the quality indicators for single subject research methods and how to use them to design a study that is internally valid. Doctoral students learn how to use those quality indicators to design, complete, and submit for publication their own research; and how to use them to evaluate single subject research for critical review. Students also learn how to graph outcome data using traditional visual analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63392 PRACTICUM IN DEAF EDUCATION 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) This classroom and field-based experience is designed to provide pre-service deaf education teachers with the opportunity to develop professional-level skills in working with deaf and hard-of-hearing (DHH) students. The field component will provide experience in working with DHH students with diverse needs, disabilities, and ethnic-cultural backgrounds. The class will address appropriate lesson planning and implementation. Students will spend a minimum of 50 hours in the educational setting (a classroom/educational environment) working with at least one student with hearing loss.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3.3-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 63892 EARLY INTERVENTION INTERNSHIP 3 Credit Hours
(Repeatable for a maximum of 9 credit hours) The Early Intervention Internship involves supervised observation and participation in an early intervention setting(s) for children ages birth to three with developmental delays and disabilities or supervised observation and participation in research and scholarly activities related to the development, delivery, and evaluation of early intervention services to children and their families. Students may be placed at a county board of developmental disabilities, center-, community-, or home-based early intervention program, a developmental center, childcare center, a neonatal intensive care unit (NICU) or other approved placement. The Early Intervention internship will provide students practical experience in an Early Intervention professional setting, one that allows students to develop and refine a variety of skills when working with infants and toddlers with disabilities and their families.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory

SPED 63949 AUTISM SPECTRUM DISORDER CAPSTONE 1-3 Credit Hours
Knowledge and skills gained through participation in the Autism Spectrum Disorders (ASD) program are utilized to develop a project related to the education of individuals with ASD and-or the individuals who support them.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

SPED 63952 FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours
(Cross-listed with ECED 60159) Examines issues facing families and professionals serving young children who are at-risk, disabled and typically developing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63953 PRACTICAL APPLICATIONS:BIRTH TO FIVE 3 Credit Hours
Practical application of recommended practices for young children birth-five. Observation of young children in natural environments. Plan and evaluate intervention with families and professionals. Sixty field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63954 PRACTICAL APPLICATIONS: TEAMING 3 Credit Hours
The purpose of this course is to help students understand and apply the principles of effective collaborative teaming as related to their professional roles and responsibilities in a variety of educational settings serving young children with disabilities. A range of topics will be addressed throughout the course, including giving and receiving feedback, reflective practices, effective meeting, conflict resolution and communication skills, developing and providing quality professional development, supervising, coaching, mentoring, working with para-professionals, itinerant teaching, service coordination, and consulting with general educators.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63955 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours
Overview of typical and atypical development pathways from birth to grade 3 including: theories of behavior, implications of atypical development on play, learning, early childhood development within ecological framework.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63956 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Cross-listed with ECED 60156) (Slashed with SPED 73956) Overview of issues facing young children within context of family/society including: history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment intervention and evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63957 ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 73957) Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments, monitoring progress.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63958 EARLY CHILDHOOD INTERVENTION METHODS 3 Credit Hours
Specific strategies for working with children birth to eight with intensive needs (e.g.cerebral palsy, spina bifida, autism). 30 clinical hours will provide students with the opportunity to practice newly acquired intervention strategies, knowledge and skills.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63959 MEDICAL ASPECTS OF LIFESPAN DISABILITIES 3 Credit Hours
Description of medical issues facing individuals with lifespan disabilities and their families. Examination of etiology, co-occuring disabilities and disorders, and treatment options in relation to individuals with Autism Spectrum Disorders and other developmental disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 63991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SPED 63992 STUDENT TEACHING IN SPECIAL EDUCATION 4-8 Credit Hours
(Repeatable for maximum of 8 credit hours) Provides opportunity to demonstrate skills in teaching. Students placed in education-based settings; assume total teaching responsibilities of students with exceptionalities for 480 clock hours under the supervision of the school-based mentor teacher and the university supervisor. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.
Prerequisite: Graduate standing; and special approval.
Corequisite: SPED 69525.
Schedule Type: Practical Experience
Contact Hours: 17-35 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 63995 SPECIAL TOPICS IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with SPED 73995) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPED 63996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-10 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 63998 RESEARCH:SPECIAL EDUCATION 1-10 Credit Hours
(Repeatable for credit)
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 64200 CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION 3 Credit Hours
This course focuses upon the development of transition agreements and collaboration between secondary transition specialists and other transition stakeholders (e.g., elementary school regular educators, parents of students with disabilities, adult service programs). Particular emphasis is placed upon infusing vocational, and non-vocational, transition planning in the curricula for individuals with moderate-to-intensive disabilities at all academic grade levels. 100 field hours are required for this course.
Prerequisite: SPED 53070; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 64892 ADVANCED PRACTICUM 3-4 Credit Hours
(Repeatable for credit) The purpose of this advanced practicum is to integrate the knowledge and skills acquired through prior curricula to a field-based setting assisting individuals with disabilities. Settings may include, but are not limited to, general education and special education classrooms as well as therapeutic, residential and vocational programs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 64951 DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM 3 Credit Hours
Designed to increase students understanding regarding federal and state rules for developing IEPs for P-12 students and IFSPs for young children and their families. Students will learn how to write functional and measurable IEP goals, objectives and IFSP outcomes, and to use assessment information directly for identifying, writing, and monitoring IFSP outcomes and IEP goals. This course will also teach how to form partnerships with families around developing, implementing and evaluating the IFSP and IEP.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 69525 INQUIRY PROFESSIONAL PRACTICE 3 Credit Hours
This course is to support students during their student teaching experience in the last semester of the program. Planning for instruction and assessment, instructing and engaging students in various special education settings, and assessing learning outcomes are the focus of this course. The course also includes information specific to the professional responsibilities in their placements.
Prerequisite: Graduate standing.
Corequisite: SPED 63992.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 70092 COLLEGE TEACHING AND PRACTICUM 3 Credit Hours
(Repeatable for credit) The content of this course will focus on major aspects of teaching in higher education, including topics such as philosophy of teaching, principles of adult learning, instructional strategies, and assessment. Students will apply their knowledge by participating in activities related to course and material development as well as delivery and grading of an undergraduate or masters level course under the direct supervision of a faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

SPED 70093 VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours
(Slashed with SPED 40093 and SPED 50093)(Repeatable for credit) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University and other institution faculty. Offered irregularly.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

SPED 73030 PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION 3 Credit Hours
Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73204 LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 63204) This course will review the statutory and regulatory foundations of U.S. public policies pertaining to children and youth with disabilities. Key judicial interpretations of those policies will also be reviewed. The course will provide comprehensive overviews of The Individuals with Disabilities Education Act, The Every Student Succeeds Act, The Americans with Disabilities Act, The Vocational Rehabilitation Act, relevant sections of The Social Security Act. In addition, students will gain an awareness of miscellaneous other pieces of legislation and examples of case law pertaining to the education of students with disabilities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73300 RESEARCH APPLICATIONS IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 63300) Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum, and assimilating knowledge through applied projects.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPED 73950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 63950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73956 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Cross-listed with ECED 60156) (Slashed with SPED 63956) Overview of issues facing young children within context of family/society including: history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment intervention and evaluation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73957 ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES 3 Credit Hours
(Slashed with SPED 73957) Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments monitoring progress.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 73991 SEMINAR IN SPECIAL EDUCATION 1,3 Credit Hour
(Repeatable for credit)Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SPED 73995 SPECIAL TOPICS IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with SPED 63995) Specialized offerings in response to emerging or selected program needs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPED 73996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-10 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 74200 CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION 3 Credit Hours
(Slashed with SPED 64200) This course focuses upon the development of transition agreements and collaboration between secondary transition specialists and other transition stakeholders (e.g., elementary school regular educators, parents of students with disabilities, adult service programs). Particular emphasis is placed upon infusing vocational, and non-vocational, transition planning in the curricula for individuals with moderate-to-intensive disabilities at all academic grade levels. 100 field hours are required for this course.
Prerequisite: SPED 53070; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 75089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours
(Slashed with SPED 45089 and SPED 55089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Doctoral standing.
Schedule Type: International Experience
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPED 75090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours
(Slashed with SPED 45090 and SPED 55090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.
Prerequisite: Doctoral standing.
Schedule Type: Study Away
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

SPED 80001 SPECIAL EDUCATION RESIDENCY 3 Credit Hours
This course is designed to provide beginning SPED doctoral students skills and knowledge in the following global areas: information literacy and plagiarism, basic APA style writing and building a writing routine. Additionally, the course will prepare students in the following SPED specific areas: effectively synthesizing intervention based empirical research, establishing a line of inquiry in the disability related fields, and developing a CV for disability related positions in Higher Education. Overall, the course will help students to understand life in academia during the doctoral studies in SPED and life after graduation conducting timely SPED research and teaching SPED content (e.g., institutional differences for SPED higher education jobs, tenure, work and life balance, time management, etc).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPED 80002 ANALYSIS OF THE LITERATURE IN SPECIAL EDUCATION 3 Credit Hours
This course is designed to assist doctoral students in the acquisition, organization, and interpretation of information about research in special education. The seminar introduces students to the nature of inquiry and the process of generating questions about a broad array of disability-related research topics. Students will gain knowledge to analyze critically the outcomes of research in special education.
Prerequisite: SPED 80001; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPED 80003 IMPLEMENTATION SCIENCE IN SPECIAL EDUCATION 3 Credit Hours
This course is designed to provide students an overview of implementation science, and seminal leadership and systems change literature. The course will describe current state of the science of implementation, and identify strategies that foster the effective transmission and implementation of innovative programs in intervention focused disability studies special education fields. Students analyze and apply the literature at the teacher, family, school building, district, state and federal levels. Students will gain skills and knowledge in implementation drivers that have the potential in reducing the research to practice gap, and increasing the integration of evidence based practices. Strategies for developing and mobilizing stakeholders to support the process of change will be covered.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 80005 EMPIRICAL INVESTIGATIONS IN SPECIAL EDUCATION 3 Credit Hours
The course is intended to help students solidify their knowledge, skills, and dispositions related to research design, research methods, and scholarly writing by applying and expanding them in the context of special education research. Students will review and analyze quality indicators for special education research, critique select special education research literature, and develop a preliminary research proposal.
Prerequisite: SPED 80002; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 80040 RESEARCH GRANT DEVELOPMENT FOR DISABILITY PROGRAMS 3 Credit Hours
Students develop and write research proposals for grant competitions focusing on disability issues. Considerations for types of competitions and funding sources are discussed. Focus of instruction is related to how to describe the importance of the research proposed, research methods identified, budget, administration of grant activities and evaluation of implementation.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

SPED 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Provides students with the opportunity to synthesize courses, research and practice by focusing on diverse issues and topics. Ordinarily, SPED 80090 is taken no earlier than the second year of doctoral studies as a culminating course in the doctoral sequence.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPED 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: SPED 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 83201 CONTEMPORARY ISSUES IN SPECIAL EDUCATION 3 Credit Hours
(Slashed with SPED 63201) This course is designed to help doctoral students to develop (a) foundational knowledge for understanding important and controversial issues in special education and related disciplines; (b) skills in critical analysis and synthesis of research; and, (c) skills in effective oral and written communication about historical and contemporary issues in special education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 83301 SINGLE-SUBJECT RESEARCH METHODS 3 Credit Hours
(Repeatable for credit) (Slashed with SPED 63301) This course focuses on design and implementation of high-quality, experimental single subject research studies for the purpose of evaluating the effectiveness of an intervention with a particular individual. Masters students learn about the quality indicators for single subject research methods and how to use them to design a study that is internally valid. Doctoral students learn how to use those quality indicators to design, complete, and submit for publication their own research; and how to use them to evaluate single subject research for critical review. Students also learn how to graph outcome data using traditional visual analysis.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 83952 THE LAW AND SPECIAL EDUCATION 3 Credit Hours
Selected principles of constitutional, statutory, case and common law affecting handicapped and special education students, teachers and administrators are studied.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPED 83991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

SPED 83992 INTERNSHIP IN SPECIAL EDUCATION 2-8 Credit Hours
(Repeatable for credit) A college-university doctoral-level supervised teaching experience. The candidates participate fully in the course and material development as well as delivery and grading of an undergraduate or masters level course under the direct supervision of a faculty member assigned to teach the class. Candidates are expected to partially participate in the delivery of a third of the course and fully deliver at least a third of the course under the observation and supervision of a faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 12-24 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPED 83998 RESEARCH:SPECIAL EDUCATION 1-10 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

School Psychology (SPSY)

SPSY 60093 VARIABLE TITLE WORKSHOP IN SCHOOL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for credit)
Prerequisite: Grading standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

SPSY 60162 DEVELOPMENTAL ASSESSMENT 3 Credit Hours
Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool, kindergarten and primary grade children. 24 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 60165 PRINCIPLES OF SOCIAL LEARNING 3 Credit Hours
The main focus is to provide students with an understanding of behavioral and social learning principles within the context of the school psychologist's professional practice. 19 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 60191 SEMINAR:SCHOOL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for credit)Seminar in school psychology. Varied topics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

SPSY 67592 FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS 2 Credit Hours
This field experience provides students with the opportunity to observe various school and educational settings that reflect the typical work scope for school psychologists. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school-agency" before the first day of the semester in which student teaching internship will take place.
Prerequisite: School psychology major; and graduate standing.
Schedule Type: Field Experience
Contact Hours: 8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67692 PRACTICUM I IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with SPSY 77692) This course provides students with experience, support, and opportunities for reflection related to the foundational domains of the practice of school psychology and ongoing professional development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to the beginning of any field-based activities.
Prerequisite: School psychology major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67792 PRACTICUM II IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with SPSY 77792) Provides students with applied experience and professional development related to foundational domains of school psychology practice. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.
Prerequisite: SPSY 67692 or SPSY 77692; and school psychology major; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67892 ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY 3-6 Credit Hours
(Repeatable for credit) (Slashed with SPSY 77892) Provides students with advanced applied experience in educational, mental health, or behavioral health settings. 60 clock hours per credit hour. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.
Prerequisite: SPSY 67792; and school psychology major; and graduate standing and; special approval.
Schedule Type: Practical Experience
Contact Hours: 12-24 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67912 ROLE OF THE SCHOOL PSYCHOLOGIST 3 Credit Hours
Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. Five clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPSY 67920 DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS 3 Credit Hours
Provides overview of diagnosis of child and adolescent behavior disorders (ADHD, conduct problems) emotional and social disorders (depression, anxiety, phobias) and developmental acquired disorders (autism, mental retardation).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67925 INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour
Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPSY 67926 INTRODUCTION TO DIGITAL CITIZENSHIP FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour
(Slashed with SPSY 77926) This course is designed to provide students with an introductory understanding of the fundamental issues and practices of technology in school psychology. Students will gain skills related to: (a) ethical and professional use of technology; (b) evaluate features of various technology systems; (c) identify functional intervention goals to which technology can contribute; and (d) use technology to collect, analyze, summarize, and report student performance to aid instructional decision-making.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPSY 67928 GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours
Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67929 INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours
(Slashed with SPSY 77929) Review of individual counseling techniques. Skills developed in communication, interviewing, problem identification, goal setting and program development are fostered by lecture, video feedback and simulation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67931 PROGRAM DEVELOPMENT AND ETHICAL APPLICATION OF APPLIED BEHAVIOR ANALYSIS 3 Credit Hours
Describe and apply methodology and research design in monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to ethics, treatment implementation fidelity, and behavioral program development are also emphasized.
Prerequisite: SPED 53030; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67932 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours
Use and interpretation of functional behavioral assessment sin educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs.
Prerequisite: SPED 53030 and SPSY 67920 or SPSY 77920; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67951 COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS 3 Credit Hours
Training and experience in administrating, scoring and interpreting cognitive measures for children and adolescents and writing reports. 30 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67955 INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Training in administration, scoring and interpretation of normative and non-normative measures of academic achievement, instructional environment and writing psychoeducational and team reports. 25 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67960 INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS 3 Credit Hours
Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67965 INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school based academic referrals within a problem solving model. Requires 25 clinical field hours.
Prerequisite: SPSY 67955; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67970 LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY 3 Credit Hours
Ethical, legal and professional issues of school psychologists and counselors will be explored. Considerations of law, regulations, ethical standards and codes of professional practice of related professional organizations will be addressed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67971 ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67972 SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Training in administration, scoring and interpretation of techniques for assessment of social emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/ agency" before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67973 CONSULTATION IN THE HELPING PROFESSIONS 3 Credit Hours
Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem solving models and crisis consultation. 20 clinical/field hours.
Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SPSY 67974 SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY 3 Credit Hours
Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for school-based social and emotional referrals within an eco- behavioral problem-solving model. 25 clinical field hours.
Prerequisite: SPSY 67972; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67975 HOME, SCHOOL AND COMMUNITY COLLABORATION 3 Credit Hours
(Slashed with SPSY 77975) This course is designed to familiarize school psychologists with essential attitudes, approaches, and actions necessary to form successful family-school-community partnerships that can foster development and learning.
Prerequisite: School psychology major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 67995 SPECIAL TOPICS IN SCHOOL PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit)Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPSY 67996 INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit)Independent reading and/or research directed by a graduate faculty member.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 67998 INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY 1-9 Credit Hours
(Repeatable for credit)Student pursues research project on selected aspect of school psychology under supervision of instructor. Arrangements with instructor must be made prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 70093 VARIABLE TITLE WORKSHOP IN SCHOOL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for credit)
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

SPSY 70162 DEVELOPMENTAL ASSESSMENT 3 Credit Hours
Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool kindergarten and primary grade children. 24 clinical field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 70165 PRINCIPLES OF SOCIAL LEARNING 3 Credit Hours
The main focus is to provide students with an understanding of behavioral and social learning principles within the context of the school psychologist's professional practice.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 70191 SEMINAR:SCHOOL PSYCHOLOGY 1-4 Credit Hours
(Repeatable for credit)Seminar in school psychology. Varied topics.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

SPSY 77592 FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS 2 Credit Hours
This field experience provides students with the opportunity to observe various school and educational settings that reflect the typical work scope for school psychologists. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school-agency" before the first day of the semester in which student teaching internship will take place.
Prerequisite: School psychology major; and graduate standing.
Schedule Type: Field Experience
Contact Hours: 8 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77692 PRACTICUM I IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with SPSY 67692) This course provides students with experience, support, and opportunities for reflection related to the foundational domains of the practice of school psychology and ongoing professional development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to the beginning of any field-based activities.
Prerequisite: School psychology major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77792 PRACTICUM II IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit) (Slashed with SPSY 67792) Provides students with applied experience and professional development related to foundational domains of school psychology practice. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.
Prerequisite: SPSY 67692 or SPSY 77692; and school psychology major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77892 ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY 3-6 Credit Hours
(Repeatable for credit) (Slashed with SPSY 67892) Provides students with advanced applied experience in educational, mental health, or behavioral health settings. 60 clock hours per credit hour. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.
Prerequisite: SPSY 77792; and school psychology major; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 12-24 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77912 ROLE OF THE SCHOOL PSYCHOLOGIST 3 Credit Hours
Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. Five clinical field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

SPSY 77920 DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS 3 Credit Hours
Provides overview of diagnosis of child and adolescent behavior disorders (ADHD,conduct problems) emotional and social disorders (depression, anxiety, phobias) and developmental acquired disorders (autism, mental retardation).
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77925 INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour
Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPSY 77926 INTRODUCTION TO DIGITAL CITIZENSHIP FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour
(Slashed with SPSY 67926) This course is designed to provide students with an introductory understanding of the fundamental issues and practices of technology in school psychology. Students will gain skills related to: (a) ethical and professional use of technology; (b) evaluate features of various technology systems; (c) identify functional intervention goals to which technology can contribute; and (d) use technology to collect, analyze, summarize, and report student performance to aid instructional decision-making.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

SPSY 77928 GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours
Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77929 INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours
(Slashed with SPSY 67929) Review of individual counseling techniques. Skills developed in communication interviewing problem identification goal setting and program development are fostered by lecture, video feedback and simulation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77932 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours
Use and interpretation of functional behavioral assessment sin educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs.
Prerequisite: SPED 53030 and SPSY 67920 or SPSY 77920; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77951 COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS 3 Credit Hours
Training and experience in administrating, scoring and interpreting cognitive measures for children and adolescents and writing reports. 30 clinical/field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77955 INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Training in administration, scoring and interpretation of normative and non-normative measures of academic achievement instructional environment and writing psychoeducational and team reports. 25 clinical field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77960 INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS 3 Credit Hours
Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77965 INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school-based academic referrals within a problem-solving model. Requires 25 clinical field hours.
Prerequisite: SPSY 77955; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77970 LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY 3 Credit Hours
Ethical, legal and professional issues of school psychologists and counselors will be explored. Considerations of law, regulations, ethical standards and codes of professional practice of related professional organizations will be addressed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77971 ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship.
Prerequisite: Doctoral standing; and permission.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77972 SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours
Training in administration, scoring and interpretation of techniques for assessment of social, emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which student teaching/internship will take place.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77973 CONSULTATION IN THE HELPING PROFESSIONS 3 Credit Hours
Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem-solving models and crisis consultation. 20 clinical/field hours.
Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

SPSY 77974 SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY 3 Credit Hours
Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for school-based social and emotional referrals within an eco- behavioral problem-solving model. 25 clinical/field hours.
Prerequisite: SPSY 77972; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77975 HOME, SCHOOL AND COMMUNITY COLLABORATION 3 Credit Hours
(Slashed with SPSY 67975) This course is designed to familiarize school psychologists with essential attitudes, approaches, and actions necessary to form successful family-school-community partnerships that can foster development and learning.
Prerequisite: School psychology major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 77980 INTEGRATING EXPERIENCE IN SCHOOL PSYCHOLOGY 2 Credit Hours
This course requires student to research, study and develop expertise in a particular facet of school psychology and to present these findings at the conclusion of his her training program. Restricted to students in school psychology Ed.S. program. 38 clinical field hours.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

SPSY 77992 SPECIALIST INTERNSHIP IN SCHOOL PSYCHOLOGY 1-6 Credit Hours
(Repeatable for credit) The internship experience provides students with the opportunity to develop and practice the professional roles and functions of a school psychologist in an approved school setting. Students complete one academic year of internship in schools (minimum of 1,200 clock hours) under the supervision of a university supervisor and a certified school psychologist who is employed by a school system. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school-agency" before the first day of the semester in which student teaching internship will take place.
Prerequisite: School psychology major; and graduate standing; and guest students with permission.
Schedule Type: Practical Experience
Contact Hours: 7-40 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77995 SPECIAL TOPICS IN SCHOOL PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit)Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SPSY 77996 INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY 1-3 Credit Hours
(Repeatable for credit)Independent reading and/or research directed by a graduate faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 77998 INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY 1-9 Credit Hours
(Repeatable for credit)Student pursues research project on selected aspect of school psychology under supervision of instructor. Arrangements with instructor must be made prior to registration.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours
Exploration of philosophical, definitional and attitudinal issues in the helping professions. Involvement in current activities of professional life through collaborative work with professors other students and practitioners.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SPSY 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all dissertation requirements are met.
Prerequisite: SPSY 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 87987 PROFESSIONAL SEMINAR IN SCHOOL PSYCHOLOGY 3 Credit Hours
A professional seminar focused on the identity, history and development of school psychology with special emphasis on current professional issues.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SPSY 87992 DOCTORAL INTERNSHIP IN SCHOOL PSYCHOLOGY 1-6 Credit Hours
Repeatable for credit) The internship experience provides students with the opportunity to develop and practice the professional roles and functions of a school psychologist in an approved school setting. Students complete one academic year of internship in schools (minimum of 1,500 clock hours) under the supervision of a university supervisor and a licensed school psychologist who is employed by a school system. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school-agency" before the first day of the semester in which student teaching internship will take place.
Prerequisite: School psychology major; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 10-60 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SPSY 87998 RESEARCH SEMINAR IN SCHOOL PSYCHOLOGY 3 Credit Hours
(Repeatable for credit)Selected research topics in school psychology. Significant research literature is reviewed; research design methods and issues are presented and small research projects are conducted.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

Addictions Counseling - Graduate Certificate

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

Looking to become a compassionate and skilled counselor in the field of addiction? Discover how the Addictions Counseling graduate certificate can help you make a meaningful impact in the lives of those struggling with addiction. Read more...

Contact Information

- **Cynthia Osborn** | cosborn@kent.edu | 330-672-0695
- Connect with an Admissions Counselor: U.S. Student | International Student

Fully Offered

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Substance abuse, behavioral disorder, and mental health counselors

- 24.7% much faster than the average
- 319,400 number of jobs
- $47,660 potential earnings

***Note**
Source of occupation titles and labor data is from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's or master's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
CES 67662	FOUNDATIONS OF ADDICTIONS COUNSELING	3
CES 67664	THEORIES AND PRACTICES IN ADDICTIONS COUNSELING	3
CES 67665	TREATMENT PLANNING IN ADDICTIONS COUNSELING	3
CES 67666	EVIDENCE-BASED PRACTICES IN ADDICTIONS COUNSELING	3
CES 67692	PRACTICUM IN ADDICTIONS COUNSELING	3-6
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

Program Learning Outcomes

Graduates of this program will be able to:

1. Articulate comprehension of a range of models or theories of addiction and evidence-based practices in addictions counseling.
2. Demonstrate at least minimal competence in addictions-related services, including assessment, treatment planning, counseling session facilitation and coordination of care.
3. Apply for licensure as chemical dependency counselors in Ohio.
4. Apply for the Alcohol and Drug Counselor (ADC) credential through the International Certification and Reciprocity Consortium (IC&RC).

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Full Description

The Addictions Counseling graduate certificate prepares students with all the requisite training hours for licensure eligibility as a chemical dependency counselor in Ohio, issued by the Ohio Chemical Dependency Professionals Board.

The first course in the certificate provides all necessary training hours for certification as a chemical dependency counselor assistant in Ohio. Course content includes the following:

- theories and models of addiction and addictive behaviors;
- pharmacology (i.e., review of substances typically misused, as well as medications used to treat symptoms of substance use disorders);
- screening and diagnostic assessment of substance use and co-occurring disorders;
- case conceptualization and treatment planning using the American Society of Addiction Medicine criteria;
- evidence-based practices in addictions (e.g., motivational interviewing, contingency management); and
- legal and ethical considerations in addictions counseling.

Experiential training is infused throughout the curriculum (e.g., use of simulated clients in the classroom) and culminates in a practicum in the field at an approved counseling facility under the supervision of an approved licensed behavioral health provider.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Addictions Counseling - Undergraduate Certificate

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Addictions Counseling undergraduate certificate program provides students with the skills and knowledge necessary to become a licensed addictions counselor. With hands-on experience and a comprehensive curriculum, students will be equipped to make a positive impact on individuals and communities dealing with addiction. Read more...

Contact Information

- **Cynthia Osborn** | cosborn@kent.edu | 330-672-0695
- Speak with an Advisor
  - Kent Campus
  - Trumbull Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
  - In person
- **Location:**
  - Kent Campus
  - Trumbull Campus

Examples of Possible Careers and Salaries*

Health specialties teachers, postsecondary

- 20.5% much faster than the average
- 254,000 number of jobs
- $99,090 potential earnings

Mental health and substance abuse social workers

- 16.8% much faster than the average
- 123,200 number of jobs
- $48,720 potential earnings

Substance abuse, behavioral disorder, and mental health counselors

- 24.7% much faster than the average
- 319,400 number of jobs
- $47,660 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Code	Title	Credit Hours
Certificate Requirements		
CES 34650	PRACTICES AND THEORIES IN ADDICTIONS COUNSELING	3
CES 34654	EVIDENCE-BASED APPROACHES IN ADDICTIONS COUNSELING	3
CES 37662	INTRODUCTION TO ADDICTIONS COUNSELING	3
CES 37665	PLANNING CARE IN ADDICTIONS COUNSELING	3
CES 37692	ADDICTIONS COUNSELING PRACTICUM (ELR)	4
Minimum Total Credit Hours:		**16**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.500	2.000

- Students must complete a minimum 16 credit hours of certificate requirements at Kent State University.

Program Learning Outcomes

Graduates of this program will be able to:

1. Articulate comprehension of a range of models or theories of addiction and evidence-based practices in addictions counseling.
2. Demonstrate at least minimal competence in addictions-related services, including assessment, treatment planning, counseling session facilitation and coordination of care.
3. Apply for licensure as chemical dependency counselors in Ohio.
4. Apply for the Alcohol and Drug Counselor (ADC) credential through the International Certification and Reciprocity Consortium (IC&RC).

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Full Description

The Addictions Counseling undergraduate certificate prepares students with all the requisite training hours for licensure eligibility as a chemical dependency counselor in Ohio, issued by the Ohio Chemical Dependency Professionals Board. The certificate supplements existing Kent State health and behavioral health degree programs, such as psychology, health education, and human development and family science. The certificate also allows in-career professionals to specialize in addictions counseling (e.g., nurses, clergy, rehabilitation counselors, mental health therapists). Successful completion of the first course in the certificate provides students the opportunity to apply for the chemical dependency counselor assistant (CDCA) credential from the Ohio Chemical Dependency Professionals Board.

Course content includes theories and models of addiction and addictive behaviors; pharmacology (i.e., review of substances typically misused, as well as medications used to treat symptoms of substance use disorders); screening and diagnostic assessment of substance use and co-occurring disorders; case conceptualization and treatment planning using the American Society of Addiction Medicine criteria; evidence-based practices in addictions (e.g., motivational interviewing, contingency management); and legal and ethical considerations in addictions counseling.

Experiential training is infused throughout the curriculum (e.g., use of simulated clients) and culminates in a practicum in the field at an approved behavioral healthcare facility offering addictions services under the supervision of an approved licensed behavioral healthcare provider.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

American Sign Language/English Interpreting - B.S.

College of Education Health and Human Services
School of Lifespan Development and Educational Services
www.kent.edu/ehhs/ldes

About This Program

The American Sign Language/English Interpreting bachelor's degree equips you with the skills needed to communicate between deaf and hearing individuals in a variety of settings. With experienced faculty, a state-of-the-art interpreting lab, and opportunities for hands-on experience, you'll gain the expertise needed to succeed in this rewarding field. Read more...

Contact Information

- **Jamie McCartney, Ph.D.** | jmccar15@kent.edu | 330-672-0708
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- **American Sign Language/English Interpreter**
- **Sign Language Interpreter**

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Current Kent State and Transfer Students:

- Active Kent State students who wish to change their major and have attempted a minimum 12 credit hours at Kent State with a minimum 2.750 overall Kent State GPA may be admitted.
- Transfer students who have 12 credit hours of college-level coursework (at either Kent State and/or other institutions) with a minimum of 2.750 overall GPA may be admitted.
- Active Kent State or transfer students who have fewer than 12 credit hours of college-level coursework will be evaluated for admission, based on both their high school GPA and college GPA.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ASEI 43092	DEAF CULTURE IMMERSION EXPERIENCE (ELR) [1,2]	1
ASEI 43100	SURVEY OF THE INTERPRETING PROFESSION (min B- grade)	3
ASEI 43102	INTERPRETING PROCESSES I (min C grade)	3
ASEI 43103	INTERPRETING PROCESSES II (min C grade) [1]	3
ASEI 43104	INTERPRETING PROCESSES III (min B- grade) [1]	3
ASEI 43105	TRANSLITERATING (min C grade) [1]	3
ASEI 43107	COMMUNITY SETTING INTERPRETING (min C grade) [1]	3
ASEI 43110	DISCOURSE ANALYSIS FOR INTERPRETERS (min C grade) [1]	3
ASEI 43111	THE PROFESSIONAL INTERPRETER (min C grade) [1]	3
ASEI 43112	INTERACTIVE INTERPRETING (min C grade) [1]	3
ASEI 43113	ASL TO ENGLISH INTERPRETING PROCESSES (WIC) (min C grade)	3
ASEI 43114	SOCIAL MEDIA AND CURRENT EVENTS INTERPRETING (min C grade) [1]	3
ASEI 43118	MEDICAL INTERPRETING (min C grade) [1]	3
ASEI 43119	MENTAL HEALTH INTERPRETING (min C grade) [1]	3
ASEI 49625	INQUIRY SEMINAR FOR AMERICAN SIGN LANGUAGE/ENGLISH INTERPRETING (min C grade) [1]	3
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I (min C grade)	4
ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II (min C grade)	4
ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I (min C grade)	3
ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II (min C grade)	3
ASL 29212	APPLIED AMERICAN SIGN LANGUAGE GRAMMAR (min C grade)	3
or ASL 49108	AMERICAN SIGN LANGUAGE LINGUISTICS I	
ASL 39201	ADVANCED AMERICAN SIGN LANGUAGE I (min C grade)	3
ASL 39202	ADVANCED AMERICAN SIGN LANGUAGE II (min C grade)	3
ASL 39401	INFLUENTIAL FIGURES IN THE DEAF WORLD (min C grade)	3
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG) (min C grade)	3
Additional Requirements (courses do not count in major GPA)		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS) [3]	3
UC 10001	FLASHES 101	1
Kent Core Composition (minimum C grade)		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9

Kent Core Social Sciences (must be from two disciplines)	3
Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Additional	3
Additional Requirements or Concentration	
Choose from the following:	12
Additional Requirements for Students Not Declaring a Concentration	
Community Setting Interpreting Concentration	
Minimum Total Credit Hours:	**121**

1 Professional Phase coursework.

2 For field experiences, residential practicum and advanced practicum that require candidates to be placed within a school or agency setting, the college requires candidates to complete the Bureau of Criminal Investigation and Identification (BCII) and the Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the field experience or practicum will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience residential practicum/advanced practicum. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at https://education.ohio.gov for more information about background check requirements in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check. Due to the length of time that a student participates in the variety of work experiences within the ASL/English Interpreting program, the student may need to complete a minimum of two background checks. Also, if a student is placed out of state, they may need to get a background check completed in that respective state according to the requirements of that state.

3 Students who are not pursuing licensure may take an elective in place of PSYC 20651 with special approval only.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ASEI 43106	SCHOOL SETTING INTERPRETING (minimum C grade)	3
ASEI 43192	ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING (ELR) [1,2]	9
Minimum Total Credit Hours:		**12**

1 Professional Phase coursework

2 For field experiences, residential practicum, and advanced practicum that require candidates to be placed within a school or agency setting, the college requires candidates to complete the Bureau of Criminal Investigation and Identification (BCII) and the Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the field experience or practicum will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience residential practicum/advanced practicum. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at https://education.ohio.gov for more information about background check requirements in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check. Due to the length of time that a student participates in the variety of work experiences within the ASL/English Interpreting program, the student may need to complete a minimum of two background checks. Also, if a student is placed out of state, they may need to get a background check completed in that respective state according to the requirements of that state.

Community Setting Interpreting Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ASEI 40092	ADVANCED PRACTICUM: AMERICAN SIGN LANGUAGE/ENGLISH INTERPRETING-COMMUNITY SETTING INTERPRETING (ELR) [1]	9
Additional Requirements (courses do not count in major GPA)		
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		3
Minimum Total Credit Hours:		**12**

1 Professional Phase coursework

Progression Requirements

- To be able to continue in the program, students must be accepted to the professional phase, comprised of ASEI 43092, ASEI 43103, ASEI 43105, ASEI 43107, ASEI 43110, ASEI 43111, ASEI 43112, ASEI 43192 or ASEI 40092, and ASEI 49625. Typically, students must apply for the professional phase between January 1 to February 1 in the fourth semester. To be eligible for the professional phase, students must have the following:
  - Minimum 3.000 major GPA[1]
  - Minimum 2.750 overall GPA[1]
  - Minimum C grade in ASEI 43102, ASL 19201, ASL 19202, ENG 11011 and ENG 21011 (or their equivalents)
  - Minimum B- grade in ASEI 43100. Students need a B- in the course before continuing on in the program.
  - Passing score on the entrance assessment prior to ASEI 43103 (students who are placed directly into an advanced ASL course are not required to complete the entrance assessment)
  - Ability to see and hear clearly with or without accommodation
  - Ability to speak fluently without disruption for a sustained period of time

Students who are not able to advance into the professional phase or are not able to pass the entrance assessment will receive a warning and will be required to meet with their faculty and professional advisors to develop a plan of continuation. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur and next steps if actions are not followed. Students who have received a warning the previous term will be reviewed during end-of-term processing to determine their status regarding continuation in the major.

The purpose of the professional phase is to ensure that students in the major have adequate preparation necessary to successfully complete upper-division curriculum, including a senior-level practicum, which provides students with professional training in the field of interpreting.

Students must earn a minimum C grade in all ASL and ASEI courses in order to register for the subsequent ASL course, with the exception of ASEI 43100 and ASEI 43104 in which a minimum B- grade is required.

Students must earn a minimum C grade in ASEI 43102 and ASEI 43103 in order to progress to ASEI 43104. Students must earn a minimum B- grade in ASEI 43104 to progress to the final semester.

Before students are approved for ASEI 43192, they must do the following:

- Complete all coursework, with the exception of ASEI 43192 and ASEI 49625
- Possess a 2.750 overall GPA and a 3.000 major GPA
- Complete the prescribed number of clinical application hours
- Candidates seeking Ohio interpreting licensure from the Ohio Department of Education are required to have passed the entrance assessment and the Sign Language Proficiency Interview (Intermediate level or higher) or the American Sign Language Proficiency Interview (minimum 2.0 level). The Sign Language Proficiency Interview must be taken at the Ohio School for the Deaf. An attempt must be made before the start of semester six. If students fail, they may continue progressing but students must develop a professional development plan. A passing score must be obtained before entering semester seven (fall semester of their senior year) and it will be a prerequisite for ASEI 43104, ASEI 43112 and ASEI 43118.
- An Interpreting Readiness Assessment will be conducted in lieu of a midterm exam in ASEI 43104. If students fail, they are given a professional development plan. All students, regardless of a passing or failing score on the readiness assessment, must pass ASEI 43104 with a minimum B- grade in order to register for ASEI 40092 or ASEI 43192.

[1] Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	2.750

- A satisfactory (S) grade in ASEI 43192 for licensure students or ASEI 40092 for students in the Community Setting Interpreting concentration.
- Students who do not choose the non-licensure concentration may apply for licensure from the State of Ohio to interpret from pre-kindergarten to grade 12. If this is the case, they must take ASEI 43106 and ASEI 43192 and complete 300 practicum hours at an educational placement.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	4
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
!	ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II	4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	Requirement: minimum 3.000 major GPA and 2.750 overall GPA by end of semester		
!	ASEI 43100	SURVEY OF THE INTERPRETING PROFESSION	3
!	ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I	3
	PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Four		
!	ASEI 43102	INTERPRETING PROCESSES I	3
!	ASEI 43113	ASL TO ENGLISH INTERPRETING PROCESSES (WIC)	3
!	ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II	3
!	ASL 39401	INFLUENTIAL FIGURES IN THE DEAF WORLD	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
!	ASEI 43103	INTERPRETING PROCESSES II	3
!	ASEI 43106	SCHOOL SETTING INTERPRETING (or General Elective for concentration students)	3
!	ASEI 43111	THE PROFESSIONAL INTERPRETER	3
!	ASEI 43114	SOCIAL MEDIA AND CURRENT EVENTS INTERPRETING	3
!	ASL 39201	ADVANCED AMERICAN SIGN LANGUAGE I	3
		Credit Hours	**15**
	Semester Six		
	ASEI 43092	DEAF CULTURE IMMERSION EXPERIENCE (ELR)	1
!	ASEI 43105	TRANSLITERATING	3
!	ASEI 43107	COMMUNITY SETTING INTERPRETING	3
!	ASEI 43110	DISCOURSE ANALYSIS FOR INTERPRETERS	3
!	ASEI 43119	MENTAL HEALTH INTERPRETING	3
!	ASL 39202	ADVANCED AMERICAN SIGN LANGUAGE II	3
		Credit Hours	**16**
	Semester Seven		
!	ASEI 43104	INTERPRETING PROCESSES III	3
!	ASEI 43112	INTERACTIVE INTERPRETING	3
!	ASEI 43118	MEDICAL INTERPRETING	3
!	ASL 29212 or ASL 49108	APPLIED AMERICAN SIGN LANGUAGE GRAMMAR or AMERICAN SIGN LANGUAGE LINGUISTICS I	3
	COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	3
		Credit Hours	**15**
	Semester Eight		
!	ASEI 40092 or ASEI 43192	ADVANCED PRACTICUM: AMERICAN SIGN LANGUAGE/ENGLISH INTERPRETING-COMMUNITY SETTING INTERPRETING (ELR) or ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING (ELR)	9
!	ASEI 49625	INQUIRY SEMINAR FOR AMERICAN SIGN LANGUAGE/ENGLISH INTERPRETING	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**121**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate native or near-native fluency in spoken and written English (80 percent of the time per the National Consortium of Interpreter Education Centers) and American Sign Language within Deaf and non-Deaf cultures.
2. Effectively interpret audio and video texts, as well as live presentations, across a variety of genres and be able to adapt interpretations to consumer modality preferences.
3. Demonstrate appropriate interpersonal skills and professionalism across all classroom/program-related settings, while interacting with others, with an awareness of linguistic, cultural, contextual and personality differences.
4. Make appropriate and effective ethical decisions, both in practical and authentic interpreting situations, in alignment with the Code of Professional Conduct from the Registry of Interpreters for the Deaf and the Code of Student Conduct from Kent State University.
5. Demonstrate adaptability and teachability.
6. Articulate the impact of interpreting models, theories and best practices and how they inform one's work.
7. Recognize substantive linguistic and paralinguistic cues from others in a variety of environments.
8. Interpret for diverse clientele, including but not limited to, those who are deaf-blind, Deaf Plus, language dysfluent or those who use sign-supported speech.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity

- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science degree in American Sign Language/English Interpreting prepares students to work with deaf and hard-of-hearing individuals in both educational and community settings, including schools and universities, businesses, medical and mental health agencies and social service offices, among others.

The coursework and nationally certified instructors guide students in developing interpreting expertise, sign language fluency and professional ethics. Coursework encompasses interpreting process models and their application; analytical approaches to professional and ethical decision-making; and interpreting comparative analyses of English and American Sign Language through the study of linguistics, discourse structures and features, pragmatics and sociolinguistics. Students learn self-assessment strategies for lifelong learning and gain roughly 400 clinical or practical hours. They also experience working with interpreter mentors. They also have preparation toward the National Interpreter Certification (NIC) and the Educational Interpreter Performance Assessment (EIPA).

This program is not designed to prepare students to become a Certified Deaf Interpreter, which requires a hearing loss of 65 DB or more in one or both ears (per the Center for Assessment of Sign Language Interpreters).

The American Sign Language/English Interpreting major includes the following optional concentration:

- The **Community Setting Interpreting** optional concentration is for students who are not seeking licensure to interpret in Ohio schools. Students in the concentration complete 400 hours at a community agency.

Students who do not choose the optional concentration may apply for licensure from the State of Ohio to interpret from pre-kindergarten to grade 12. Students complete 300 practicum hours at an educational placement.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

American Sign Language/English Interpreting Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

With the American Sign Language/English Interpreting Licensure Preparation program, you will develop the language and cultural competence needed to become a licensed interpreter and provide a crucial service to the Deaf community. Read more...

Contact Information

- **Jamie McCartney, Ph.D.** | jmccar15@kent.edu | 330-672-0708
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- American Sign Language/English Interpreter
- Sign Language Interpreter

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Questions in Anticipation of Licensure form

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Prerequisite Requirements		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I (4 cr)	
ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II (4 cr)	
Licensure Requirements (courses count in major GPA)		
ASEI 53092	DEAF CULTURE IMMERSION EXPERIENCE	1
ASEI 53100	SURVEY OF THE INTERPRETING PROFESSION (min B- grade)	3
ASEI 53102	INTERPRETING PROCESSES I (min C grade)	3
ASEI 53103	INTERPRETING PROCESSES II (min C grade)	3
ASEI 53104	INTERPRETING PROCESSES III (min B- grade)	3
ASEI 53105	TRANSLITERATING (min C grade)	3
ASEI 53106	SCHOOL SETTING INTERPRETING (min C grade)	3
ASEI 53107	COMMUNITY SETTING INTERPRETING (min C grade)	3
ASEI 53110	DISCOURSE ANALYSIS FOR INTERPRETERS (min C grade)	3
ASEI 53111	THE PROFESSIONAL INTERPRETER (min C grade)	3
ASEI 53112	INTERACTIVE INTERPRETING (min C grade)	3
ASEI 53113	ASL TO ENGLISH INTERPRETING PROCESSES (min C grade)	3
ASEI 53114	SOCIAL MEDIA AND CURRENT EVENTS INTERPRETING (min C grade)	3
ASEI 53118	MEDICAL INTERPRETING (min C grade)	3
ASEI 53119	MENTAL HEALTH INTERPRETING (min C grade)	3
ASEI 53192	ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING	9
ASEI 59625	INQUIRY SEMINAR FOR AMERICAN SIGN LANGUAGE/ENGLISH INTERPRETING (min C grade)	3
ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I (min C grade)	3
ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II (min C grade)	3
ASL 29212	APPLIED AMERICAN SIGN LANGUAGE GRAMMAR (min C grade)	3
or ASL 49108	AMERICAN SIGN LANGUAGE LINGUISTICS I	
ASL 39201	ADVANCED AMERICAN SIGN LANGUAGE I (min C grade)	3
ASL 39202	ADVANCED AMERICAN SIGN LANGUAGE II (min C grade)	3
ASL 39401	INFLUENTIAL FIGURES IN THE DEAF WORLD (min C grade)	3
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
Minimum Total Credit Hours:		**76**

Progression Requirements

Candidates seeking Ohio interpreting licensure from the Ohio Department of Education are required to have passed the entrance assessment and the Sign Language Proficiency Interview (Intermediate level or higher) or the American Sign Language Proficiency Interview (minimum 2.0 level). The Sign Language Proficiency Interview must be taken at the Ohio School for the Deaf.

- **Semester One:** Students must earn a minimum B- grade in ASEI 53100 in order to progress.
- **By Semester Four:** Students must have a minimum 3.000 licensure GPA and 2.750 overall GPA at the beginning of their fourth semester and maintain throughout.
- **Semester Four:** Students must take the entrance assessment with ASL/English interpreting faculty and a Deaf individual. Students who do not pass the assessment may take the test one more time before the fall semester. Students who fail both times will not be able to progress in the program.
- **Before Entering Semester Five:** Students must obtain a passing score on the Sign Language Proficiency Interview. Passing score will be a prerequisite for ASEI 53104, ASEI 53112 and ASEI 53118. Students must be able to see and hear clearly with or without accommodation. They must also be able to speak fluently without disruption for a sustained period of time.
- **Semester Five:** Students will take an interpreting readiness assessment during ASEI 53104 as the midterm. Students who fail may continue progressing but must develop a professional development plan. Students must earn a minimum B- grade in ASEI 53104 to progress.
- **Start of Semester Six:** Students must take the entrance assessment during the spring when they're in ASL 29202. Students who fail the assessment may continue progressing but must develop a professional development plan.
- **All Semesters:** Students must complete all of their clinical hours each semester because completion of hours supersedes the course grade. There are 45 hours in the fall semesters and 30 in the spring semesters starting with the junior year.
- **All Semesters:** With exceptions noted above, students must earn a minimum C or S grade in ASEI, ASL or English courses to progress to the next semester.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	2.750

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		**Credits**
	ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I (4 cr)	
	ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II (4 cr)	
		Credit Hours	**0**
	Semester One		
!	ASEI 53100	SURVEY OF THE INTERPRETING PROFESSION	3
	ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I	3
		Credit Hours	**6**
	Semester Two		
!	ASEI 53102	INTERPRETING PROCESSES I	3
!	ASEI 53113	ASL TO ENGLISH INTERPRETING PROCESSES	3
	ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II	3
!	ASL 39401	INFLUENTIAL FIGURES IN THE DEAF WORLD	3
	PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
		Credit Hours	**15**
	Semester Three		
!	ASEI 53103	INTERPRETING PROCESSES II	3
!	ASEI 53106	SCHOOL SETTING INTERPRETING	3
!	ASEI 53111	THE PROFESSIONAL INTERPRETER	3
!	ASEI 53114	SOCIAL MEDIA AND CURRENT EVENTS INTERPRETING	3
	ASL 39201	ADVANCED AMERICAN SIGN LANGUAGE I	3
		Credit Hours	**15**
	Semester Four		
	ASEI 53092	DEAF CULTURE IMMERSION EXPERIENCE	1
!	ASEI 53105	TRANSLITERATING	3
!	ASEI 53107	COMMUNITY SETTING INTERPRETING	3
!	ASEI 53110	DISCOURSE ANALYSIS FOR INTERPRETERS	3
!	ASEI 53119	MENTAL HEALTH INTERPRETING	3
	ASL 39202	ADVANCED AMERICAN SIGN LANGUAGE II	3
		Credit Hours	**16**
	Semester Five		
!	ASEI 53104	INTERPRETING PROCESSES III	3
!	ASEI 53112	INTERACTIVE INTERPRETING	3
!	ASEI 53118	MEDICAL INTERPRETING	3
!	ASL 29212 or ASL 49108	APPLIED AMERICAN SIGN LANGUAGE GRAMMAR or AMERICAN SIGN LANGUAGE LINGUISTICS I	3
		Credit Hours	**12**
	Semester Six		
!	ASEI 53192	ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING	9
!	ASEI 59625	INQUIRY SEMINAR FOR AMERICAN SIGN LANGUAGE/ENGLISH INTERPRETING	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**76**

Program Learning Outcomes

Completers of this program will be able to:

1. Demonstrate native or near-native fluency in spoken and written English (80 percent of the time per the National Consortium of Interpreter Education Centers), American Sign Language, deaf and non-deaf cultures.
2. Effectively interpret audio and video texts, as well as live presentations, across a variety of genres; and be able to adapt interpretations to consumer modality preferences.
3. Demonstrate appropriate interpersonal skills and professionalism across all classroom/program-related settings, while interacting with others, with an awareness of linguistic, cultural, contextual and personality differences.
4. Make appropriate and effective ethical decisions, both in practical and authentic interpreting situations, in alignment with the Code of Professional Conduct from the Registry of Interpreters for the Deaf and the Code of Student Conduct from Kent State University.
5. Demonstrate adaptability and teachability.
6. Articulate the impact of interpreting models, theories and best practices and how they inform one's work.
7. Recognize substantive linguistic and paralinguistic cues from others in a variety of environments.
8. Interpret for diverse clientele, including but not limited to, those who are deaf-blind, Deaf Plus, language dysfluent or those who use sign-supported speech.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The American Sign Language/English Interpreting Licensure Preparation non-degree program prepares students for state licensing eligibility

to become an educational interpreter for deaf children (K-12) or a community interpreter. Completion of the prescribed coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete requirements for the master's program, in addition to courses that are prescribed for licensure.

This program is not designed to prepare students to become a Certified Deaf Interpreter, which requires a hearing loss of 65 DB or more in one or both ears (per the Center for Assessment of Sign Language Interpreters).

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Autism Spectrum Disorders - Graduate Certificate

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Autism Spectrum Disorders certificate program provides students with knowledge and skills necessary to understand and support autistic individuals across the lifespan and across contexts. Read more...

Contact Information

- **Sloane Burgess** | sburges8@kent.edu | 330-672-0160
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully Online
  - Mostly Online
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Special education teachers, all other

- 8.5% much faster than the average
- 36,600 number of jobs
- $62,820 potential earnings

Special education teachers, kindergarten and elementary school

- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

Special education teachers, middle school

- 2.6% slower than the average
- 84,700 number of jobs
- $61,820 potential earnings

Special education teachers, preschool

- 8.3% much faster than the average
- 23,000 number of jobs
- $61,400 potential earnings

Special education teachers, secondary school

- 3.2% about as fast as the average
- 143,000 number of jobs
- $62,320 potential earnings

Healthcare support workers, all other

- 6.9% faster than the average
- 96,900 number of jobs
- $39,530 potential earnings

Social and human service assistants

- 16.8% much faster than the average
- 425,600 number of jobs
- $35,960 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]

- Minimum 79 TOEFL iBT score
- Minimum 6.5 IELTS score
- Minimum 58 PTE score
- Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadline

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
SPA 54010	SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS	3
SPA 54030	AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN	3
SPA 54309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS	3
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 63959	MEDICAL ASPECTS OF LIFESPAN DISABILITIES	3
Certificate Elective, choose from the following:		1-3
SPA 64096	INDIVIDUAL INVESTIGATION:SPEECH PATHOLOGY AND AUDIOLOGY	
SPA 64098	RESEARCH	
SPED 53031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION	
SPED 63949	AUTISM SPECTRUM DISORDER CAPSTONE	
SPED 63996	INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION	
Minimum Total Credit Hours:		**16**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the diagnostic and learning style characteristics of individuals with autism spectrum disorder.
2. Identify early signs of autism spectrum disorder and identify and evaluate instruments used to screen for and diagnose autism spectrum disorder in children and adults.
3. Identify neurobiological and environmental factors implicated in the etiology of autism spectrum disorder.
4. Describe medical and complementary and alternative medical interventions used by individuals with autism spectrum disorder.
5. Compare the social-communicative development of individuals with autism spectrum disorder to that of neurotypically developing individuals.
6. Describe different theoretical models for understanding autism spectrum disorder.
7. Implement evidence-based interventions to address the needs of individuals with autism spectrum disorder.

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Full Description

The Autism Spectrum Disorders graduate certificate prepares students for understanding and addressing the needs of individuals with autism across the spectrum, across the lifespan and in varied contexts, including general and special education classrooms and community settings. Students gain knowledge and skills related to diagnostic and learning style characteristics, causes and medical intervention, early signs and assessment protocols, social-communicative development and disorders, theoretical models and implications of those models for intervention, family characteristics and evidence-based intervention practices.

This certificate is most relevant for students who want to specialize in autism spectrum disorders and/or professionals assuming leadership

roles in supporting individuals on the spectrum and their families in the programs and organizations in which they work.

Autism Spectrum Disorders - Minor

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Autism Spectrum Disorders minor provides students with knowledge and skills necessary to understand and support autistic individuals across the lifespan and across contexts. Read more...

Contact Information

- **Sloane Burgess** | sburges8@kent.edu | 330-672-0610
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.750 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
SPA 44010	SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS	3
SPA 44030	AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN	3
SPED 43030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 44020	MEDICAL ASPECTS OF AUTISM SPECTRUM DISORDERS	3
SPED 44309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS	3
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.750	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the diagnostic and learning style characteristics of individuals with autism spectrum disorder.
2. Identify early signs of autism spectrum disorder and identify and evaluate instruments used to screen for and diagnose autism spectrum disorder in children and adults.
3. Identify neurobiological and environmental factors implicated in the etiology of autism spectrum disorder.
4. Describe medical and complementary and alternative medical interventions used by individuals with autism spectrum disorder.
5. Compare the social-communicative development of individuals with autism spectrum disorder to that of neurotypically developing individuals.
6. Describe different theoretical models for understanding autism spectrum disorder.
7. Implement evidence-based interventions to address the needs of individuals with autism spectrum disorder.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Full Description

The Autism Spectrum Disorders minor is an interdisciplinary program, between special education and speech pathology and audiology. The minor prepares students to understand and address the needs of individuals with autism across the spectrum, across the lifespan and in varied contexts, including general and special education classrooms and community settings.

Students gain knowledge and skills related to the following:

- Diagnostic and learning style characteristics
- Causes and medical intervention
- Early signs and assessment protocols
- Social-communicative development and disorders
- Theoretical models and the implications of those models for intervention
- Family characteristics
- Evidence-based intervention practices

The minor is particularly relevant for students with a major or interest in special education, speech pathology, audiology, occupational and physical therapy, psychology and human development and family science.

Behavioral Intervention Specialist - Graduate Certificate

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Behavioral Intervention Specialist graduate certificate is designed for professionals in education, healthcare, and social work, this program provides a comprehensive understanding of behavior intervention strategies for individuals with disabilities. You'll learn practical skills and evidence-based approaches to positively impact the lives of those you work with. Read more...

Contact Information

- **Christine Balan, Ph.D., BCBA** cbalan@kent.edu | 330-672-0595
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers

- Behavior Analyst

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Admitted to any graduate degree at Kent State University or earned a master's or doctoral degree from an accredited college or institution.
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency requirements - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 53031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION	3
SPED 63031	PROGRAM DEVELOPMENT IN APPLIED BEHAVIOR ANALYSIS	3
SPED 63032	ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR	3
SPED 63033	ETHICAL AND PROFESSIONAL CONDUCT IN APPLIED BEHAVIOR ANALYSIS	3
SPED 63034	PRINCIPLES AND CONCEPTS IN APPLIED BEHAVIOR ANALYSIS	3
SPED 63301	SINGLE SUBJECT RESEARCH METHODS	3
SPED 64892	ADVANCED PRACTICUM	3
Minimum Total Credit Hours:		**24**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify the goals of behavior analysis as a science.
2. Explain the philosophical assumptions underlying the science of behavior analysis.
3. Describe and explain behavior from the perspective of radical behaviorism.
4. Distinguish among behaviorism, the experimental analysis of behavior, applied behavior analysis and professional practice guided by the science of behavior analysis.
5. Describe and define the dimensions of applied behavior analysis.
6. Define and provide examples of the following:
   a. behavior, response and response class;
   b. stimulus and stimulus class;
   c. respondent and operant conditioning;
   d. positive and negative reinforcement contingencies;
   e. schedules of reinforcement;
   f. positive and negative punishment contingencies;
   g. automatic and socially mediated contingencies;
   h. unconditioned, conditioned and generalized reinforcers and punishers;
   i. operant extinction;
   j. stimulus control;
   k. discrimination, generalization and maintenance;
   l. motivating operations;
   m. rule-governed and contingency shaped behavior;
   n. verbal operants and define; and
   o. derived stimulus relations.

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Full Description

The Behavioral Intervention Specialist graduate certificate is a highly-specialized sequence that imbues the theoretical orientation and practical application of applied behavior analysis. Through coursework in special education, as well as supervised field-based experiences, students gain specialized knowledge and skills to collaborate with professional teams and parents to develop, implement and evaluate positive behavior support programs for children and youths with behavioral concerns.

The program's course sequence has been designated as a Verified Course Sequence by the Association for Behavior Analysis International. Students seeking the Board Certified Behavior Analyst (BCBA) credential must meet additional requirements outlined by the Behavior Analyst Certification Board.

Career and Community Studies - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Career and Community Studies program provides you with the skills and knowledge needed to succeed in a variety of career paths, from social work to community development. With a focus on hands-on learning and real-world experience, you'll gain practical skills that can be applied in your daily life and career. Read more...

Contact Information

- **Vonnie Michali** | yhale@kent.edu | 330-672-0725
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

- The program is limited to 10-12 students each fall.
- Students participating in the program experience intellectual and developmental disabilities that may affect some intellectual functioning and adaptive behavior.

- Other qualifications include documentation of past successful work, academic, leadership, and community participation.
- Also required for admission are a completed application, reference letters, and an in-person interview with the CCS admission committee.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CCS 00010	INDEPENDENT LIVING SKILLS I	3
CCS 00015	SELF-ADVOCACY: DISABILITY AWARENESS AND THE LAWS	3
CCS 00020	APPLYING TECHNOLOGY	1
CCS 00025	MANAGING MONEY IN COLLEGE	1
CCS 00035	SELF-ADVOCACY: COMMUNICATION SKILLS	3
CCS 00105	INTRODUCTION TO JOB EXPLORATION	1
CCS 00110	INDEPENDENT LIVING SKILLS II	3
CCS 00115	SELF-ADVOCACY AND SELF-DETERMINATION	3
CCS 00120	PERSON-CENTERED PLANNING: FRESHMAN	1
CCS 00135	SELF-ADVOCACY: HUMAN RELATIONSHIPS	3
CCS 00145	DEVELOPING PROFESSIONAL SKILLS: FRESHMAN	6
CCS 00205	JOB EXPLORATION I	3
CCS 00206	JOB EXPLORATION II	3
CCS 00220	PERSON-CENTERED PLANNING: SOPHOMORE	1
CCS 00235	SELF-ADVOCACY: INDEPENDENT LIVING AND INJURY PREVENTION	3
CCS 00245	DEVELOPING PROFESSIONAL SKILLS: SOPHOMORE	6
CCS 00292	WORK EXPERIENCE: SOPHOMORE	6
CCS 00306	EMPLOYMENT READINESS I	3
CCS 00307	EMPLOYMENT READINESS II	3
CCS 00320	PERSON-CENTERED PLANNING: JUNIOR	1
CCS 00335	SELF-ADVOCACY: HEALTHY LIVING	3
CCS 00345	DEVELOPING PROFESSIONAL SKILLS: JUNIOR	6
CCS 00392	WORK EXPERIENCE: JUNIOR	8
CCS 00410	EMPLOYMENT CERTIFICATIONS	3
CCS 00425	MANAGING MONEY AFTER COLLEGE	1
CCS 00445	DEVELOPING PROFESSIONAL SKILLS: SENIOR	2
CCS 00492	WORK EXPERIENCE: SENIOR	8
CCS 00499	PERSON-CENTERED PLANNING: SENIOR	3
Special Topics Electives, choose from the following: [1]		29
CCS 02095	SPECIAL TOPICS: SOPHOMORE LECTURE [1]	
CCS 02195	SPECIAL TOPICS: SOPHOMORE LABORATORY	
CCS 02295	SPECIAL TOPICS: SOPHOMORE COMBINED LECTURE AND LABORATORY	
CCS 03095	SPECIAL TOPICS: JUNIOR LECTURE	
CCS 03195	SPECIAL TOPICS: JUNIOR LABORATORY	
CCS 03295	SPECIAL TOPICS: JUNIOR COMBINED LECTURE AND LABORATORY	
CCS 04095	SPECIAL TOPICS: SENIOR LECTURE	
CCS 04195	SPECIAL TOPICS: SENIOR LABORATORY	
CCS 04295	SPECIAL TOPICS: SENIOR COMBINED LECTURE AND LABORATORY	
Minimum Total Credit Hours:		**120**

[1] Students enrolled in special topics courses also will attend sessions of Kent State courses selected in consultation with an advisor.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CCS 00010	INDEPENDENT LIVING SKILLS I	3
CCS 00020	APPLYING TECHNOLOGY	1
CCS 00025	MANAGING MONEY IN COLLEGE	1
CCS 00035	SELF-ADVOCACY: COMMUNICATION SKILLS	3
CCS 00115	SELF-ADVOCACY AND SELF-DETERMINATION	3
CCS 00145	DEVELOPING PROFESSIONAL SKILLS: FRESHMAN	3
Special Topics Elective		1
	Credit Hours	**15**
Semester Two		
CCS 00015	SELF-ADVOCACY: DISABILITY AWARENESS AND THE LAWS	3
CCS 00105	INTRODUCTION TO JOB EXPLORATION	1
CCS 00110	INDEPENDENT LIVING SKILLS II	3
CCS 00120	PERSON-CENTERED PLANNING: FRESHMAN	1
CCS 00135	SELF-ADVOCACY: HUMAN RELATIONSHIPS	3
CCS 00145	DEVELOPING PROFESSIONAL SKILLS: FRESHMAN	3
Special Topics Elective		1
	Credit Hours	**15**
Semester Three		
CCS 00205	JOB EXPLORATION I	3
CCS 00235	SELF-ADVOCACY: INDEPENDENT LIVING AND INJURY PREVENTION	3
CCS 00245	DEVELOPING PROFESSIONAL SKILLS: SOPHOMORE	3
CCS 00292	WORK EXPERIENCE: SOPHOMORE	3
Special Topics Electives		3
	Credit Hours	**15**
Semester Four		
CCS 00206	JOB EXPLORATION II	3
CCS 00220	PERSON-CENTERED PLANNING: SOPHOMORE	1
CCS 00245	DEVELOPING PROFESSIONAL SKILLS: SOPHOMORE	3
CCS 00292	WORK EXPERIENCE: SOPHOMORE	3
CCS 00335	SELF-ADVOCACY: HEALTHY LIVING	3
Special Topics Electives		3
	Credit Hours	**16**
Semester Five		
CCS 00306	EMPLOYMENT READINESS I	3
CCS 00345	DEVELOPING PROFESSIONAL SKILLS: JUNIOR	3

CCS 00392	WORK EXPERIENCE: JUNIOR	4
Special Topics Electives		6
	Credit Hours	**16**
Semester Six		
CCS 00307	EMPLOYMENT READINESS II	3
CCS 00320	PERSON-CENTERED PLANNING: JUNIOR	1
CCS 00345	DEVELOPING PROFESSIONAL SKILLS: JUNIOR	3
CCS 00392	WORK EXPERIENCE: JUNIOR	4
Special Topics Electives		6
	Credit Hours	**17**
Semester Seven		
CCS 00410	EMPLOYMENT CERTIFICATIONS	3
CCS 00445	DEVELOPING PROFESSIONAL SKILLS: SENIOR	1
CCS 00492	WORK EXPERIENCE: SENIOR	4
Special Topics Electives		6
	Credit Hours	**14**
Semester Eight		
CCS 00425	MANAGING MONEY AFTER COLLEGE	1
CCS 00445	DEVELOPING PROFESSIONAL SKILLS: SENIOR	1
CCS 00492	WORK EXPERIENCE: SENIOR	4
CCS 00499	PERSON-CENTERED PLANNING: SENIOR	3
Special Topics Electives		3
	Credit Hours	**12**
	Minimum Total Credit Hours:	**120**

Program Learning Outcomes

Graduates of this program will be able to:

1. Become more self-determined persons who are better prepared for independent living and the achievement of career goals.
2. Gain confidence in critical and independent thinking, and use their own voice and vision in order to be active and informed citizens.
3. Understand basic concepts of the academic disciplines, and apply imagination and creativity as they begin a lifelong pursuit of knowledge.
4. Demonstrate awareness of ethical implications of their own actions, and be positive role models who contribute to societal views concerning inclusion, community, and tolerance for diversity.

Full Description

Career and Community Studies is a 4-year, non-degree college experience designed to prepare students (ages 18 and older) with intellectual and developmental disabilities and autism for adult life. Throughout this transformative journey, students will learn and practice social skills and independent living skills, exploring, identifying and preparing for a career aligned with their strengths and interests. The program places a particular emphasis on addressing the challenges they may encounter, fostering a holistic approach to personal and professional development. Participants emerge as self-determined individuals who can figure out what they want to do with their lives.

During the program, students discover who they are, prepare for jobs they'll enjoy, and learn how to speak up for themselves while understanding their rights. The curriculum not only imparts vital employment skills but also guides students about the responsibilities that come with being an adult.

Students will engage in a curriculum that seamlessly integrates Career and Community Studies (CCS) with courses from other units, offering diverse opportunities to practice and master the skills crucial for employment. For those seeking a more immersive experience, the option to reside on campus is available, providing a platform to develop home management skills. The goal is for students to become independent individuals who can decide what they want, speak up for themselves, and use resources to succeed in adult life.

Career and Community Studies-College Preparation - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Community Studies College Preparation program provides you with the tools and resources needed to excel in college, from study skills and time management to career exploration and personal development. With supportive faculty and a welcoming community, you'll be prepared to thrive in higher education and beyond. Read more...

Contact Information

- **Vonnie Michali** | yhale@kent.edu | 330-672-0725
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

- The program is limited to 1 0-12 students each fall. Students participating in the program experience intellectual and developmental disabilities that may affect some intellectual functioning and adaptive behavior.
- Other qualifications include documentation of past successful work, academic, leadership, and community participation.
- Also required for admission are a completed application, reference letters, and an in-person interview with the CCS admission committee.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CCS 00015	SELF-ADVOCACY: DISABILITY AWARENESS AND THE LAWS	3
CCS 00020	APPLYING TECHNOLOGY	1
CCS 00025	MANAGING MONEY IN COLLEGE	1
CCS 00035	SELF-ADVOCACY: COMMUNICATION SKILLS	3
CCS 00105	INTRODUCTION TO JOB EXPLORATION	1

CCS 00115	SELF-ADVOCACY AND SELF-DETERMINATION	3
CCS 00120	PERSON-CENTERED PLANNING: FRESHMAN	1
CCS 00135	SELF-ADVOCACY: HUMAN RELATIONSHIPS	3
CCS 00145	DEVELOPING PROFESSIONAL SKILLS: FRESHMAN	6
CCS 00205	JOB EXPLORATION I	3
CCS 00206	JOB EXPLORATION II	3
CCS 00235	SELF-ADVOCACY: INDEPENDENT LIVING AND INJURY PREVENTION	3
CCS 00245	DEVELOPING PROFESSIONAL SKILLS: SOPHOMORE	3
CCS 00335	SELF-ADVOCACY: HEALTHY LIVING	3
CCS 00425	MANAGING MONEY AFTER COLLEGE	1
CCS 00445	DEVELOPING PROFESSIONAL SKILLS: SENIOR	2
CCS 00499	PERSON-CENTERED PLANNING: SENIOR	3
Special Topics Electives, choose from the following:		17
CCS 01095	SPECIAL TOPICS: FRESHMAN LECTURE	
CCS 01195	SPECIAL TOPICS: FRESHMAN LABORATORY	
CCS 01295	SPECIAL TOPICS: FRESHMAN COMBINED LECTURE AND LABORATORY	
CCS 02095	SPECIAL TOPICS: SOPHOMORE LECTURE	
CCS 02195	SPECIAL TOPICS: SOPHOMORE LABORATORY	
CCS 02295	SPECIAL TOPICS: SOPHOMORE COMBINED LECTURE AND LABORATORY	
Minimum Total Credit Hours:		**60**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CCS 00010	INDEPENDENT LIVING SKILLS I	3
CCS 00020	APPLYING TECHNOLOGY	1
CCS 00025	MANAGING MONEY IN COLLEGE	1
CCS 00035	SELF-ADVOCACY: COMMUNICATION SKILLS	3
CCS 00115	SELF-ADVOCACY AND SELF-DETERMINATION	3
CCS 00145	DEVELOPING PROFESSIONAL SKILLS: FRESHMAN	3
Special Topics Electives		2
	Credit Hours	**16**
Semester Two		
CCS 00105	INTRODUCTION TO JOB EXPLORATION	1
CCS 00015	SELF-ADVOCACY: DISABILITY AWARENESS AND THE LAWS	3
CCS 00120	PERSON-CENTERED PLANNING: FRESHMAN	1
CCS 00135	SELF-ADVOCACY: HUMAN RELATIONSHIPS	3
CCS 00145	DEVELOPING PROFESSIONAL SKILLS: FRESHMAN	3
Special Topics Electives		3
	Credit Hours	**14**
Semester Three		
CCS 00205	JOB EXPLORATION I	3
CCS 00235	SELF-ADVOCACY: INDEPENDENT LIVING AND INJURY PREVENTION	3
CCS 00445	DEVELOPING PROFESSIONAL SKILLS: SENIOR	1
Special Topics Electives		6
	Credit Hours	**13**
Semester Four		
CCS 00206	JOB EXPLORATION II	3
CCS 00335	SELF-ADVOCACY: HEALTHY LIVING	3
CCS 00425	MANAGING MONEY AFTER COLLEGE	1
CCS 00445	DEVELOPING PROFESSIONAL SKILLS: SENIOR	1
CCS 00499	PERSON-CENTERED PLANNING: SENIOR	3
Special Topics Electives		6
	Credit Hours	**17**
	Minimum Total Credit Hours:	**60**

Program Learning Outcomes

Graduates of this program will be able to:

1. Students will become more self-determined persons who are better prepared for creating future goals and plans for achieving adult roles.
2. Students will become critical and independent thinkers and use their own voice and vision in order to be active and informed citizens.
3. Students will learn basic concepts of the academic disciplines and apply imagination and creativity as they begin a lifelong pursuit of knowledge.
4. Students gain ethical implications of their own actions and become positive role models who contribute to societal views concerning inclusion, community, and tolerance for diversity.

Full Description

Career and Community Studies-College Preparation non-degree program offers a college experience tailored to prepare individuals aged 18 and older, with intellectual and developmental disabilities, as well as autism, for the transition into adulthood and pursuit of a college degree. Students will learn and practice social skills, independent living skills, and the necessary tools for enrollment in a degree program. Participants emerge as self-determined individuals who can figure out what they want to do with their lives.

In the first year, the program helps individuals figure out their strengths, likes and what's challenging for them. It covers self-advocacy, understanding rights, personal development, health and inclusive courses at Kent State University. The second year builds on this, with college-level courses and different campus experiences to boost academic and social skills. The goal is not just academic success but also helping individuals become confident decision-makers in life.

Career and Community Studies-Employment Readiness - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Career and Community Studies Employment Readiness program provides you with the tools and resources needed to develop essential employment skills, such as job search strategies, communication skills, workplace behavior and more. With experienced faculty and a supportive community, you'll gain the confidence and knowledge needed to succeed in your career. Read more...

Contact Information

- **Vonnie Michali** | yhale@kent.edu | 330-672-0725
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

The program is limited to 10-12 students each fall. Students participating in the program experience intellectual and developmental disabilities that may affect some intellectual functioning and adaptive behavior. Other qualifications include documentation of past successful work, academic, leadership, and community participation. Also required for admission are a completed application, reference letters, and an in-person interview with the CCS admission committee.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CCS 00015	SELF-ADVOCACY: DISABILITY AWARENESS AND THE LAWS	3
CCS 00020	APPLYING TECHNOLOGY	1
CCS 00035	SELF-ADVOCACY: COMMUNICATION SKILLS	3
CCS 00105	INTRODUCTION TO JOB EXPLORATION	1
CCS 00115	SELF-ADVOCACY AND SELF-DETERMINATION	3
CCS 00120	PERSON-CENTERED PLANNING: FRESHMAN	1
CCS 00135	SELF-ADVOCACY: HUMAN RELATIONSHIPS	3
CCS 00145	DEVELOPING PROFESSIONAL SKILLS: FRESHMAN	6
CCS 00010	INDEPENDENT LIVING SKILLS I	3
CCS 00205	JOB EXPLORATION I	3
CCS 00206	JOB EXPLORATION II	3
CCS 00220	PERSON-CENTERED PLANNING: SOPHOMORE	1
CCS 00235	SELF-ADVOCACY: INDEPENDENT LIVING AND INJURY PREVENTION	3
CCS 00245	DEVELOPING PROFESSIONAL SKILLS: SOPHOMORE	6
CCS 00292	WORK EXPERIENCE: SOPHOMORE	12
CCS 00335	SELF-ADVOCACY: HEALTHY LIVING	3
CCS 00410	EMPLOYMENT CERTIFICATIONS	3
CCS 00425	MANAGING MONEY AFTER COLLEGE	1
CCS 01095	SPECIAL TOPICS: FRESHMAN LECTURE	1
or CCS 01195	SPECIAL TOPICS: FRESHMAN LABORATORY	
or CCS 01295	SPECIAL TOPICS: FRESHMAN COMBINED LECTURE AND LABORATORY	
Minimum Total Credit Hours:		**60**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CCS 00020	APPLYING TECHNOLOGY	1
CCS 00035	SELF-ADVOCACY: COMMUNICATION SKILLS	3
CCS 00115	SELF-ADVOCACY AND SELF-DETERMINATION	3
CCS 00145	DEVELOPING PROFESSIONAL SKILLS: FRESHMAN	3
CCS 00292	WORK EXPERIENCE: SOPHOMORE	3
CCS 01095 or CCS 01195 or CCS 01295	SPECIAL TOPICS: FRESHMAN LECTURE or SPECIAL TOPICS: FRESHMAN LABORATORY or SPECIAL TOPICS: FRESHMAN COMBINED LECTURE AND LABORATORY	1
	Credit Hours	**14**
Semester Two		
CCS 00015	SELF-ADVOCACY: DISABILITY AWARENESS AND THE LAWS	3
CCS 00105	INTRODUCTION TO JOB EXPLORATION	1
CCS 00120	PERSON-CENTERED PLANNING: FRESHMAN	1
CCS 00135	SELF-ADVOCACY: HUMAN RELATIONSHIPS	3
CCS 00145	DEVELOPING PROFESSIONAL SKILLS: FRESHMAN	3
CCS 00292	WORK EXPERIENCE: SOPHOMORE	3
	Credit Hours	**14**
Semester Three		
CCS 00010	INDEPENDENT LIVING SKILLS I	3
CCS 00205	JOB EXPLORATION I	3
CCS 00235	SELF-ADVOCACY: INDEPENDENT LIVING AND INJURY PREVENTION	3
CCS 00245	DEVELOPING PROFESSIONAL SKILLS: SOPHOMORE	3
CCS 00292	WORK EXPERIENCE: SOPHOMORE	3
CCS 00410	EMPLOYMENT CERTIFICATIONS	3
	Credit Hours	**18**
Semester Four		
CCS 00206	JOB EXPLORATION II	3
CCS 00220	PERSON-CENTERED PLANNING: SOPHOMORE	1
CCS 00245	DEVELOPING PROFESSIONAL SKILLS: SOPHOMORE	3
CCS 00292	WORK EXPERIENCE: SOPHOMORE	3
CCS 00335	SELF-ADVOCACY: HEALTHY LIVING	3

CCS 00425	MANAGING MONEY AFTER COLLEGE	1
	Credit Hours	**14**
	Minimum Total Credit Hours:	**60**

Program Learning Outcomes

Graduates of this program will be able to:

1. Become more self-determined persons who are better prepared for independent living and the achievement of employment goals.
2. Become critical and independent thinkers and use their own voice and vision in order to be active and informed citizens.
3. Identify basic concepts of the employment and life disciplines and apply concepts to preparing for employment post graduation.
4. Speak to awareness of ethical implications of their own actions and be positive role models who contribute to societal views concerning inclusion, community, and tolerance for diversity.

Full Description

Career and Community Studies-Employment Readiness non-degree program offers a college experience meticulously designed to prepare individuals aged 18 and older, with intellectual and developmental disabilities, as well as autism, for the transition into adult life and the workforce. Students will learn and practice social skills, independent living skills and employment skills tailored for entry-level jobs. Participants emerge as self-determined individuals who can figure out what they want to do with their lives.

In the first year, the program helps individuals figure out their strengths, likes and what's challenging for them. It covers self-advocacy, understanding rights, personal development, health, and being aware of job skills. The second year builds on this, with more job opportunities and experiences on campus to boost awareness and success in both work and social skills. The goal is not just job readiness but also helping individuals become confident decision-makers in life and work.

Clinical Mental Health Counseling - M.Ed.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

Make a difference in mental health with the Clinical Mental Health Counseling M.Ed. program. Learn to provide compassionate and effective counseling to those in need, with practical experience and dedicated faculty to support your growth. . Read more...

Contact Information

- **Marty Jencius** | mjencius@kent.edu | 330-672-2662
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Substance abuse, behavioral disorder, and mental health counselors

- 24.7% much faster than the average
- 319,400 number of jobs
- $47,660 potential earnings

Accreditation

Council for Accreditation of Counseling and Related Educational Programs (CACREP)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Questions in Anticipation of Licensure form
- Supplemental Interview form
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: December 15
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Application deadline: February 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

- **Spring Semester**
  - Priority deadline: September 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Application deadline: October 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.
- **Summer Term**
  - Application deadline: February 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (min B-/S grade in all courses)		
CES 65511	RESEARCH IN COUNSELING	3
CES 67492	PRACTICUM I: CLINICAL MENTAL HEALTH COUNSELING [1]	3
CES 67530	COUNSELING THEORIES	3
CES 67531	COUNSELING SKILLS AND TECHNIQUES	3
CES 67580	MULTICULTURAL COUNSELING	3
CES 67592	PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING [1]	3
CES 67628	DIAGNOSIS IN COUNSELING	3
CES 67662	FOUNDATIONS OF ADDICTIONS COUNSELING	3
CES 67663	ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING	3
CES 67820	GROUP WORK: THEORY AND TECHNIQUES	3
CES 68126	INTRODUCTION TO ASSESSMENT IN COUNSELING	3
CES 68130	PSYCHOPATHOLOGY FOR COUNSELORS	3
CES 68167	CASE CONCEPTUALIZATION AND TREATMENT PLANNING	3
CES 68182	CAREER COUNSELING	3
EPSY 65523	LIFE SPAN DEVELOPMENT	3
Advisor-Approved Electives, choose from the following:		9
CES 67664	THEORIES AND PRACTICES IN ADDICTIONS COUNSELING	
CES 67668	MOTIVATIONAL INTERVIEWING	
CES 68066	COUNSELING ADOLESCENTS	
CES 68067	COUNSELING CHILDREN	
CES 68168	ADVANCED COUNSELING THEORIES	
CES 68529	COUPLES THERAPY:THEORY AND TECHNIQUES	
CES 68533	FAMILY THERAPY: THEORY AND TECHNIQUES	
CES 68538	ADVANCED MULTICULTURAL COUNSELING	
Culminating Requirement		
CES 67792	INTERNSHIP I: CLINICAL MENTAL HEALTH COUNSELING [1]	3
CES 67892	INTERNSHIP II: CLINICAL MENTAL HEALTH COUNSELING [1]	3
Minimum Total Credit Hours:		**60**

[1] State and Federal background checks are required for internship experiences and to apply for Counselor Trainee status. See the practicum and internship coordinator for more information.

Progression Requirements

- Students who earn a C+ grade or lower in any course for the degree must repeat the course for a better grade.
- All prerequisites for courses must be completed with a minimum B- grade.

Graduation Requirements

- Minimum B- (or Satisfactory) grade in all courses.
- Minimum 60 credit hours, including a 600 clock-hour internship.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.

Licensure Information

Candidates seeking Ohio license are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Counselor, Social Worker and Marriage and Family Therapy Board website for more information on assessments specific to licensure type.

Program Learning Outcomes

Graduates of this program will be able to:

1. Effectively work with clients from a multicultural and pluralistic society.
2. Demonstrate knowledge in assessment, group work, career development, helping relationships human growth and development, social and cultural diversity, research and program evaluation and professional orientation and ethical practice.
3. Meet the academic components required by the Ohio Counselor, Social Worker and Marriage and Family Therapist Board to be eligible to sit for the current licensure assessments.
4. Understand legal and ethical standards and practice in a legal and ethical manner.
5. Understand and demonstrate multicultural responsiveness.
6. Demonstrate a strong counselor identity.
7. Demonstrate strong clinical skills in case conceptualization, diagnosis and treatment planning.
8. Understand and demonstrate sound counseling skills and techniques within a theoretical framework in both individual and group counseling.
9. Understand the importance of research in advancing the counseling profession, including how to critique research to inform counseling practice.
10. Effectively work with crisis, trauma, suicide and at-risk clients.

Full Description

The Master of Education degree in Clinical Mental Health Counseling prepares students for employment as counselors in community-based human service agencies (e.g., substance abuse facilities, mental health

centers, child and family service agencies) and private counseling facilities.

This program is designed to fulfill the educational requirements for licensure as a Licensed Professional Counselor in the state of Ohio. The program may be pursued on a part-time or full-time basis, although some full-time study is encouraged.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Clinical Rehabilitation Counseling - M.Ed.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

Make a difference in rehabilitation with the Clinical Rehabilitation Counseling M.Ed. program. Gain the skills and knowledge to provide effective counseling to individuals with disabilities, with experienced faculty and real-world opportunities to support your growth. Read more...

Contact Information

- **Frank Sansosti** | fsansost@kent.edu | 330-672-2294
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the M.Ed. in Clinical Rehabilitation Counseling are not being accepted at this time.

Accreditation

Council for the Accreditation of Counseling and Related Educational Programs (CACREP)

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.Ed. in Clinical Rehabilitation Counseling are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Questions in Anticipation of Licensure form
- Supplemental Interview form
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (min B-/S grade in all courses)		
CES 67492	PRACTICUM I: CLINICAL MENTAL HEALTH COUNSELING	3
CES 67530	COUNSELING THEORIES	3
CES 67531	COUNSELING SKILLS AND TECHNIQUES	3
CES 67580	MULTICULTURAL COUNSELING	3
CES 67628	DIAGNOSIS IN COUNSELING	3
CES 67712	ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING	3
CES 67723	MEDICAL INFORMATION FOR CLINICAL REHABILITATION COUNSELORS	3
CES 67725	PSYCHOSOCIAL IMPACT OF DISABILITY	3
CES 67732	OCCUPATIONAL ASPECTS OF DISABILITY	3
CES 67776	RESEARCH IN CLINICAL REHABILITATION COUNSELING	3
CES 67820	GROUP WORK: THEORY AND TECHNIQUES	3
CES 68126	INTRODUCTION TO ASSESSMENT IN COUNSELING	3
CES 68128	CLINICAL ASSESSMENT IN COUNSELING	3
CES 68130	PSYCHOPATHOLOGY FOR COUNSELORS	3
CES 68167	CASE CONCEPTUALIZATION AND TREATMENT PLANNING	3
CES 68182	CAREER COUNSELING	3
CES 69192	PRACTICUM: CLINICAL REHABILITATION COUNSELING	3
CES 69792	INTERNSHIP IN CLINICAL REHABILITATION COUNSELING	6
EPSY 65523	LIFE SPAN DEVELOPMENT	3
Minimum Total Credit Hours:		**60**

Graduation Requirements

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.

Program Learning Outcomes

Graduates of this program will be able to:

1. Effectively work with clients from a multicultural and pluralistic society.
2. Demonstrate knowledge in assessment, groupwork, career development, helping relationships human growth and development, social and cultural diversity, research and program evaluation and professional orientation and ethical practice.
3. Meet the academic components required to become a certified rehabilitation counselor in Ohio.
4. Understand legal and ethical standards and practice in a legal and ethical manner.
5. Understand and demonstrate multicultural responsiveness.
6. Demonstrate a strong counselor identity.
7. Demonstrate strong clinical skills in case conceptualization, diagnosis, treatment planning and specifically using assessments related to rehabilitation counseling.
8. Understand and demonstrate sound counseling skills and techniques within a theoretical framework in both individual and group counseling.
9. Understand the importance of research in advancing the counseling profession, including how to critique research to inform counseling practice.
10. Effectively work with crisis, trauma, suicide and at-risk clients.

Full Description

The Master of Education degree in Clinical Rehabilitation Counseling features an interdisciplinary approach that focuses on the inclusion of persons with disabilities into the life of the community. Graduates are employed in vocational rehabilitation settings, mental health and developmental disabilities agencies, drug and alcohol rehabilitation, public and private hospitals, comprehensive rehabilitation centers, correctional facilities, community-based programs, private industry, proprietary rehabilitation and student disability services in higher education.

The program requires two years of study, culminating in a semester-long internship under the field supervision of a certified clinical rehabilitation counselor. Faculty advise students in the development of a curriculum plan that includes required core, foundational and elective courses. Early and continued exposure to rehabilitation practice is provided as students progress through the program.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Counseling - Ed.S.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

Make a difference with the Education Specialist in Counseling program equips you with the skills and knowledge needed to provide effective counseling and support to individuals and communities in need. Read more...

Contact Information

- **Marty Jencius** | mjencius@kent.edu | 330-672-2662
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Counselors, all other

- 13.0% much faster than the average
- 29,100 number of jobs
- $45,760 potential earnings

Substance abuse, behavioral disorder, and mental health counselors

- 24.7% much faster than the average
- 319,400 number of jobs
- $47,660 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Minimum 3.000 graduate GPA on a 4.000-point scale (minimum 3.250 graduate GPA is recommended)
- Official transcript(s)
- Goal statement
- Supplemental Interview form
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score

- Minimum 58 PTE score
- Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: December 15
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Application deadline: February 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.
- **Spring Semester**
  - Priority deadline: September 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Application deadline: October 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.
- **Summer Term**
  - Application deadline: February 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CES 67663	ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING	3
or CES 68069	ORIENTATION AND ETHICS: SCHOOL COUNSELING	
School Counseling Intership or Clinical Mental Health Counseling Internship, choose from the following: [1]		6
CES 67792 & CES 67892	INTERNSHIP I: CLINICAL MENTAL HEALTH COUNSELING and INTERNSHIP II: CLINICAL MENTAL HEALTH COUNSELING	
CES 68192 & CES 68292	INTERNSHIP I: SCHOOL COUNSELING and INTERNSHIP II: SCHOOL COUNSELING	
Major Electcives, choose from the following:		21
CES 68167	CASE CONCEPTUALIZATION AND TREATMENT PLANNING	
CES 68168	ADVANCED COUNSELING THEORIES	
CES 68284	SUPERVISION IN COUNSELING I	
CES 68392	SCHOOL COUNSELING PRACTICUM [1]	
CES 67592	PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING	
CES 67628	DIAGNOSIS IN COUNSELING	
CES 67662	FOUNDATIONS OF ADDICTIONS COUNSELING	
CES 67664	THEORIES AND PRACTICES IN ADDICTIONS COUNSELING	
CES 67665	TREATMENT PLANNING IN ADDICTIONS COUNSELING	
CES 68011	FOUNDATIONS OF SCHOOL COUNSELING	
CES 68066	COUNSELING ADOLESCENTS	
CES 68067	COUNSELING CHILDREN	
CES 68068	SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP	
CES 68130	PSYCHOPATHOLOGY FOR COUNSELORS	
CES 68529	COUPLES THERAPY:THEORY AND TECHNIQUES	
CES 68533	FAMILY THERAPY: THEORY AND TECHNIQUES	
CES 68538	ADVANCED MULTICULTURAL COUNSELING	
RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	
Other Advisor-Approved Electives		
Minimum Total Credit Hours:		**30**

[1] State and Federal background checks are required for practicum/internship experiences and to apply for Counselor Trainee status. See the practicum and internship coordinator for more information.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Minimum 30 credit hours are needed beyond a counseling master's degree.

Graduates of this program will be able to:

1. Demonstrate knowledge in professional identity, social and cultural diversity; human growth and development, career development; helping relationships; group work, assessment; and research and program evaluation.
2. Demonstrate knowledge and skills in the foundations of clinical mental health counseling or school counseling.
3. Demonstrate curricular experiences in the contextual dimensions of community and school.
4. Demonstrate knowledge and skill requirements for clinical mental health counselors or school counselors.

Full Description

The Educational Specialist degree in Counseling can be highly individualized to meet the needs of students having interests in a variety of school or community settings. The degree is an advanced-level practitioner's degree, and the focus is on practical knowledge and skill.

Counselor Education and Supervision - Ph.D.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Ph.D. in Counselor Education and Supervision provides advanced level preparation for counselors in various public and private human service and mental health settings, as well as preparing individuals for counselor education faculty positions in colleges and universities.

Contact Information

- **Cassie Storlie** | cstorlie@kent.edu | 330-672-0693
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- Counselor Educator and Supervisor
- Advanced Counselor
- Advanced Counseling Practitioner

Accreditation

Council for the Accreditation of Counseling and Related Educational Programs (CACREP)

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Minimum 3.500 graduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Supplemental form
- Completion of the Questions Regarding Legal and Ethical Issues form
- Preliminary written exam
- Two letters of recommendation
- Interview (individual and group)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL IBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Det score

Students are expected to have completed curricular experiences equivalent to CACREP entry-level standards and curricular requirements of a specific CACREP program area before beginning doctoral-level counselor education coursework. Any missing content can be completed before or in some cases (e.g., if minimal content is needed) concurrently with initial doctoral-level counselor education coursework.

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: February 1
    Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (min B-/S grade in all courses)		
CES 78538	ADVANCED MULTICULTURAL COUNSELING	3
CES 78592	PRACTICUM IN COUPLES AND FAMILY THERAPY [1]	3
or CES 87392	ADVANCED INDIVIDUAL COUNSELING PRACTICUM	
CES 80090	DOCTORAL RESIDENCY SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION	3
CES 80200	FUNDAMENTALS OF WRITING AND RESEARCH IN COUNSELOR EDUCATION AND SUPERVISION	3
CES 80300	LEADERSHIP AND ADVOCACY IN COUNSELOR EDUCATION AND SUPERVISION	3
CES 88168	ADVANCED COUNSELING THEORIES	3
CES 88281	RESEARCH SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION	3
CES 88284	SUPERVISION IN COUNSELING I	3
CES 88292	INTERNSHIP IN COUNSELOR EDUCATION AND SUPERVISION [1, 2]	6
CES 88294	COLLEGE TEACHING IN COUNSELOR EDUCATION AND SUPERVISION I	3
CES 88392	COLLEGE TEACHING IN COUNSELOR EDUCATION AND SUPERVISION II [1]	3
CES 88492	SUPERVISION IN COUNSELING II [1]	3
RMS 75510	STATISTICS I FOR EDUCATIONAL SERVICES	3
RMS 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	3
RMS 85516	QUALITATIVE RESEARCH DESIGN	3
RMS 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES	3
or RMS 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
Elective courses relative to major area of study [3]		6
Culminating Requirement		
CES 80199	DISSERTATION I [4]	30
Minimum Total Credit Hours:		**87**

[1] Before taking any field-based experiences, students must complete state and Federal background checks. See the program coordinator for more information.

[2] Students will complete 3 credit hours of CES 88292 per semester for two consecutive semesters, for a total of 6 credit hours of internship.

[3] Elective courses must be relevant to counselor education and supervision. Students must consult with and obtain approval from their advisors about registering for electives.

[4] Upon admission to candidacy, each doctoral candidate must register for CES 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter CES 80299, each semester until all requirements for the degree have been met. Students will be expected to be familiar with data entry and interpreting computer generated analysis.

Progression Requirements

- Students who earn a C+ grade or lower in any course for the degree must repeat the course for a better grade.
- All prerequisites for courses must be completed with a minimum minimum B- grade.

Graduation Requirements

- Minimum B- (or Satisfactory) grade in all courses
- After admission to the Ph.D. degree program, students plan a program of study with their respective faculty advisory committee. Please refer to the program doctoral handbook and graduate student handbook for more information about requirements for graduation.
- Successful completion of written and oral comprehensive exams is required before students can be registered for dissertation credit hours.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of ethical and legal considerations, and multicultural responsiveness, in counselor education and supervision.
2. Demonstrate a specific focus on knowledge and skill/practice in the following areas: counselor supervision; teaching/pedagogy of counselor education; research and scholarship; advanced counseling theory and techniques; leadership and advocacy; and professional identity as a counselor.
3. Assume the role of instructor with the ability to understand and apply: teaching methods; instructional and curriculum design; and evaluation methods of teaching.
4. Provide high quality counseling supervision which enhances supervisees' ability to conceptualize clients from multiple theoretical perspectives; nurtures supervisees' counseling skills; evaluates the effectiveness of supervisees' counseling; uses multiple theories of supervision; and demonstrates knowledge and skills related to evaluative, gatekeeping and remediation practices of supervision.
5. Conduct quantitative and qualitative research, along with understanding and applying the recommended practices for professional writing.
6. Demonstrate knowledge of the principles and practices of counseling in a diverse and ever-changing society.
7. Demonstrate a firm grasp of leadership theory, and provide leadership and advocacy to the counseling profession.
8. Demonstrate an ability to critically evaluate current issues in the profession.

Deaf Education Multiple Disabilities - Graduate Certificate

College of Education Health and Human Services

School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Deaf Education Multiple Disabilities certificate combines coursework from several special education programs. This program is for students enrolled in a deaf education degree program or who have earned teaching licensure in deaf education.

Contact Information

- **Karen Kritzer** | kkritzer@kent.edu | 330-672-0608
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Special education teachers, all other

- 8.5% much faster than the average
- 36,600 number of jobs
- $62,820 potential earnings

Special education teachers, kindergarten and elementary school

- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

Special education teachers, middle school

- 2.6% slower than the average
- 84,700 number of jobs
- $61,820 potential earnings

Special education teachers, preschool

- 8.3% much faster than the average
- 23,000 number of jobs
- $61,400 potential earnings

Special education teachers, secondary school

- 3.2% about as fast as the average
- 143,000 number of jobs
- $62,320 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at

which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university or current enrollment in a graduate deaf education degree program
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Evidence of a current deaf education teaching license or in the process of completing (concurrently) teaching licensure in deaf education
- Goal statement and professional objectives
- Two letters of recommendation
- English language proficiency requirements - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
SPED 53050	CHARACTERISTICS OF STUDENTS WITH MILD/ MODERATE INTERVENTION NEEDS	3
SPED 53051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS	3
SPED 53070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
SPED 53080	ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES	3
SPED 63996	INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION [1]	1-3
Minimum Total Credit Hours:		**13-15**

[1] Credit hours required to be determined with faculty advisor in consideration of previous professional experiences.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Deaf Education Multiple Disabilities - Undergraduate Certificate

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Deaf Education Multiple Disabilities undergraduate certificate combines coursework from several special education programs. This program is for students enrolled in a deaf education degree program or who have earned teaching licensure in deaf education.

Contact Information

- **Karen Kritzer** | kkritzer@kent.edu | 330-672-0608
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Special education teachers, all other

- 8.5% much faster than the average
- 36,600 number of jobs
- $62,820 potential earnings

Special education teachers, kindergarten and elementary school

- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

Special education teachers, middle school

- 2.6% slower than the average
- 84,700 number of jobs
- $61,820 potential earnings

Special education teachers, preschool

- 8.3% much faster than the average
- 23,000 number of jobs
- $61,400 potential earnings

Special education teachers, secondary school

- 3.2% about as fast as the average
- 143,000 number of jobs
- $62,320 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Code	Title	Credit Hours
Certificate Requirements		
SPED 43050	CHARACTERISTICS OF STUDENTS WITH MILD/ MODERATE INTERVENTION NEEDS	3
SPED 43051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS	3
SPED 43070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
SPED 43080	ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES	3
SPED 43996	INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION [1]	1-3
Minimum Total Credit Hours:		**13**

[1] Credit hours required to be determined with faculty advisor in consideration of previous professional experience.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Early Intervention - Graduate Certificate

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Early Intervention graduate certificate is primarily intended for individuals interested in working with young children ages 0-3 who have or are at risk for developmental delays and disabilities and their families across a variety of settings. The certificate provides skills and competencies specific to contemporary and recommended practices in early intervention that are empirically based, contemporary philosophical orientations about young children and families, supporting families and caregivers to enhance children's growth and development, federal early intervention legislation, teaming with professionals and family members, ethical conduct in all professional activities, advocacy and inclusive practices.

Contact Information

- **Sanna Harjusola-Webb** | shwebb@kent.edu | 330-672-0585
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- Developmental Specialist
- Service Coordinator
- Early Intervention Provider
- Early Intervention Evaluator
- Early Intervention Administrator

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
SPED 62951	EARLY INTERVENTION IN NATURAL ENVIRONMENTS	3
SPED 63892	EARLY INTERVENTION INTERNSHIP	3
SPED 63952	FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
SPED 63954	PRACTICAL APPLICATIONS: TEAMING	3
SPED 63955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	3
SPED 63956	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	3

SPED 63957	ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES	3
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
Minimum Total Credit Hours:		**24**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Early Intervention - Minor

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Early Intervention minor provides you with the knowledge and skills needed to support children with disabilities and their families. Through a combination of coursework and hands-on experiences, you'll learn how to identify and address developmental delays, collaborate with families and professionals and promote positive outcomes for children in diverse settings. Read more...

Contact Information

- **Sanna Harjusola-Webb** | shwebb@kent.edu | 330-672-0585
- Speak with an Advisor

Fully Offered

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must be at least a sophomore status and have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.750 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
SPED 42951	EARLY INTERVENTION IN NATURAL ENVIRONMENTS	3
SPED 43953	FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
SPED 43954	PRACTICAL APPLICATION: TEAMING	3
SPED 43955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	3
SPED 43958	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	3
SPED 43964	ASSESSMENT AND EVALUATION IN EARLY INTERVENTION AND EARLY CHILDHOOD SPECIAL EDUCATION	3
SPED 44951	CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC) [1]	3
Minimum Total Credit Hours:		**21**

[1] Students must contact the faculty advisor for the Early Intervention minor to be able to register for SPED 44951.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.750	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe and analyze contemporary philosophical and theoretical orientations about young children and families.
2. Demonstrate empirically-based and ethical practices of early intervention in natural environments.
3. Collaborate with families, caregivers, and professionals to enhance children's growth and development.
4. Identify state and federal legislation related to early intervention.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Full Description

The Early Intervention minor primarily is intended for individuals interested in working with young children — from birth to age three — who have or are at risk for developmental delays and disabilities across a variety of settings.

The minor provides students with the skills and knowledge specific to contemporary and recommended practices in early intervention, typical and atypical development, teaming, family professional collaboration, assessment, legislation, ethical professional conduct, advocacy and inclusive practices.

Educational Psychology - M.Ed.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

Explore the Educational Psychology M.Ed. program at Kent State University! Learn how to apply psychological principles to teaching and learning in a supportive and engaging environment. Read more...

Contact Information

- **Bradley Morris** | bmorri20@kent.edu | 330-672-2294
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers

- K-12 teacher
- Data analyst
- Curriculum specialist
- Academic counseling
- Assessment specialist
- Educational research
- Program evaluation

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Gifted Education optional concentration only: Evidence of valid Resident Educator or Professional State of Ohio teaching license
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score

- Minimum 58 PTE score
- Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: January 1
    Applications submitted by this deadline will receive the strongest consideration for admission.
  - **Spring Semester**
    - Rolling admissions
  - **Summer Term**
    - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
EPSY 65524	LEARNING THEORIES	3
EPSY 65529	EDUCATIONAL MOTIVATION	3
EPSY 68901	PSYCHOLOGICAL FOUNDATIONS OF EDUCATION	3
EPSY 68905	EDUCATIONAL PSYCHOLOGY	3
Additional Requirements or Concentrations		
Choose from the following:		15-18
Additional Requirements for Students Not Declaring a Concentration		
Gifted Education Concentration		
Minimum Total Credit Hours:		**30-33**

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements		
Specialty Area Electives, choose from the following:		15
EPSY 50093	VARIABLE TITLE WORKSHOP IN EDUCATIONAL PSYCHOLOGY	
EPSY 65523	LIFE SPAN DEVELOPMENT	
ETEC 57403	INSTRUCTIONAL DESIGN	
ETEC 57427	TECHNOLOGY AND LEARNING	
LRNS 66510	INTRODUCTION TO R FOR EDUCATIONAL AND LEARNING SCIENCES	
LRNS 65525	INFORMAL LEARNING	
RMS 55610	CLASSROOM ASSESSMENT	
RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	
RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	
RMS 65515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	
Advisor-Approved Electives		
Minimum Total Credit Hours:		**15**

Gifted Education Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
EPSY 63531	CURRICULUM DEVELOPMENT FOR GIFTED LEARNERS	3
EPSY 63532	GIFTED PROGRAM DESIGN, ASSESSMENT AND ADMINISTRATION	3
EPSY 63535	SOCIAL AND EMOTIONAL ASPECTS OF THE GIFTED AND SPECIAL SUBPOPULATIONS	3
EPSY 63540	NATURE AND NEEDS OF GIFTED	3
EPSY 63545	INSTRUCTIONAL PROCESSES FOR GIFTED CHILDREN	3
EPSY 64892	ADVANCED PRACTICUM: GIFTED AND TALENTED EDUCATION	3
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- The M.Ed. degree requires a minimum of 30 credit hours of graduate coursework.
- Students have six years from the term of first enrollment to complete the program.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the various schools of learning theory that have informed educators.
2. Conduct literature reviews and design empirical research to examine issues associated with how individuals learn.
3. Apply principles of human development and learning when developing and selecting educational approaches.
4. Identify best practices for maximizing student learning.
5. Demonstrate knowledge of theories and principles of learner motivation.

Full Description

The Master of Education degree in Educational Psychology provides advanced study for students interested in the application of psychological principles to learning and instruction. It encompasses a variety of different disciplines, including cognitive psychology, human development and learning theory. Students are exposed to the latest research findings regarding how people learn most effectively and efficiently. They also apply these principles to the design of instruction, and study how to most accurately assess different types of learning.

The M.Ed. degree program is appropriate for classroom teachers, professionals in a variety of settings and students wishing to pursue graduate-level training in educational psychology.

The Educational Psychology major includes the following optional concentration:

- The **Gifted Education** concentration focuses on gifted learners, their unique needs and the application of educational psychological principles to the education of gifted learners.

Gerontology - Graduate Certificate

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Gerontology graduate certificate program provides students with the knowledge and skills needed to effectively serve the growing aging population. Our expert faculty will guide you through coursework covering topics like age-related changes, eldercare policy and more. Read more...

Contact Information

- **Gregory Smith** | gsmith2@kent.edu | 330-672-9993
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Health specialties teachers, postsecondary

- 20.5% much faster than the average
- 254,000 number of jobs
- $99,090 potential earnings

Medical scientists, except epidemiologists

- 6.1% faster than the average
- 138,300 number of jobs
- $91,510 potential earnings

Social scientists and related workers, all other

- 0.8% little or no change
- 38,800 number of jobs
- $87,260 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university[1]
- Official transcript(s)
- Minimum 2.750 GPA on a 4.000-point scale
- Two letters of recommendation (students currently enrolled in graduate degree programs at either Kent State University or the University of Akron may use the letters of recommendation submitted for admission into their degree program)
- Goal statement and professional objectives
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] Student must be matriculated in a graduate degree program or hold a graduate degree from an accredited institution. Students may be admitted with non-degree status, but they must complete a graduate degree prior to being awarded the certificate.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
BSCI 50020	BIOLOGY OF AGING	3
GERO 50656	PSYCHOLOGY OF AGING [1]	3
or SOC 52010	DEATH AND DYING	
GERO 61191	INTERDISCIPLINARY SEMINAR IN GERONTOLOGY	3
Gerontology Research or Practicum		3
Gerontology Elective		3
Minimum Total Credit Hours:		**15**

[1] Course meets the psychosocial requirement of the certificate.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

- A thesis or dissertation may be applied toward certificate requirements if it involves an aging-related topic. Students may also apply a practicum/internship course within their degree program as a capstone experience in the certificate program.
- Minimum 12 credit hours must be at the 600 level (University of Akron), 60000 level (Kent State University) or above designation.
- Maximum 3 credit hours is transferable from outside the university.

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply gerontological knowledge and skills to their professional career pursuits, whether of an applied or research orientation.
2. Interface with professionals from other disciplines within the interdisciplinary context of gerontology.
3. Understand aging from a broad bio-psych-social prospective, ranging from cell to society in scope.

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Full Description

The Gerontology graduate certificate is offered jointly with the University of Akron to offer students specialized training within the interdisciplinary field of gerontology that goes beyond what is rooted in their selected professional discipline or academic major. Coursework completed at either institution may be applied to the certificate. The certificate program is flexible; students can tailor the courses taken toward completion of the certificate to meet their unique professional interests.

The Gerontology certificate is based on the recommended standards of excellence established by the Association for Gerontology in Higher Education. The faculty at both Kent State University and the University of Akron are nationally and internationally recognized scholars in gerontology. Many are fellows of the Gerontological Society of America. Faculty are available to assist students with course selection, research projects and other matters of interest in the field of gerontology.

Gerontology - Minor

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Gerontology minor provides a comprehensive understanding of aging's impact on individuals and society. Through coursework and practical experiences, you'll learn about health, social policy and end-of-life issues. Read more...

Contact Information

- **Kelly Cichy** | kcichy@kent.edu | 330-672-2449
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
GERO 40656	PSYCHOLOGY OF AGING	3

HDF 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
Minor Electives, choose from the following:		6
ARCH 45640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
COMM 36500	HEALTH COMMUNICATION	
EXSC 40612	EXERCISE LEADERSHIP FOR THE OLDER ADULT	
GERO 41096	INDIVIDUAL INVESTIGATION	
GERO 44030	RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD (WIC)	
HDF 44039	BEREAVEMENT AND LOSS	
LTCA 44032	LONG-TERM CARE ADMINISTRATION I	
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	
PSYC 41581	HEALTH PSYCHOLOGY	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	
SOC 42010	DEATH AND DYING	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SOC 42879	AGING IN SOCIETY (DIVD)	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Students are required to meet with the human development and family science program coordinator to discuss course selection and procedures for completing the minor.
- Some courses require prerequisites, please see course descriptions for details.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe age-related changes in biological systems, social relationships, social roles (e.g., retirement), cognitive abilities and health and well-being.
2. Explain how gender identity, race, ethnicity, history, cohort, sexual orientation and socioeconomic status contribute to the experience of aging.
3. Describe the implications of population aging for individuals, families and society.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Full Description

The Gerontology minor provides students with knowledge of the aging process and prepares students for professional positions in the diverse field of aging. Current predictions indicate that a "baby boomer" will turn 60 every seven seconds for the next 18 years. By 2050, it is estimated that one in five people will be over the age of 65, leading to an increase in demand for individuals with an understanding of the aging process.

The minor benefits students with a major or an interest in psychology, sociology, business, English, nursing, education, interior design, political science, speech pathology, audiology and recreation, parks and tourism management.

Gifted Education Endorsement Preparation - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Services
www.kent.edu/ehhs/ldes

About This Program

The Gifted Education Endorsement Preparation program that is designed to help you gain the expertise and experience necessary to work with gifted students. With this program, you'll learn about advanced teaching strategies and techniques, as well as how to develop individualized education plans that meet the needs of gifted students. Read more...

Contact Information

- **Brad Morris** | bmorri20@kent.edu | 330-672-2294
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Special education teachers, all other

- 8.5% much faster than the average
- 36,600 number of jobs
- $62,820 potential earnings

Special education teachers, kindergarten and elementary school

- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

Special education teachers, middle school

- 2.6% slower than the average
- 84,700 number of jobs
- $61,820 potential earnings

Special education teachers, preschool

- 8.3% much faster than the average
- 23,000 number of jobs
- $61,400 potential earnings

Special education teachers, secondary school

- 3.2% about as fast as the average
- 143,000 number of jobs
- $62,320 potential earnings

Teaching assistants, except postsecondary

- 3.6% about as fast as the average
- 1,395,900 number of jobs
- $28,900 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Evidence of valid Resident Educator or Professional State of Ohio teaching license

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Endorsement Requirements		
EPSY 63531	CURRICULUM DEVELOPMENT FOR GIFTED LEARNERS	3
EPSY 63532	GIFTED PROGRAM DESIGN, ASSESSMENT AND ADMINISTRATION	3
EPSY 63535	SOCIAL AND EMOTIONAL ASPECTS OF THE GIFTED AND SPECIAL SUBPOPULATIONS	3
EPSY 63540	NATURE AND NEEDS OF GIFTED	3
EPSY 63545	INSTRUCTIONAL PROCESSES FOR GIFTED CHILDREN	3
EPSY 64892	ADVANCED PRACTICUM: GIFTED AND TALENTED EDUCATION	3
Minimum Total Credit Hours:		**18**

Progression Requirements

- Must maintain a minimum 3.000 overall GPA

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. Students should consult the Educational Psychology program area for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe gifted learners and their unique needs.
2. Identify and assess gifted students.

3. Describe and identify national, state and local guidelines and standards for gifted education.
4. Apply principles of human development, learning science, cognitive science and socio-cultural theories when developing and selecting educational approaches for gifted learners.
5. Identify best practices for maximizing learning, motivation and engagement for gifted students.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Gifted Education Endorsement Preparation non-degree program will prepare students to obtain the Gifted Intervention Specialist (K-12) endorsement. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education. Students in this program will learn about gifted learners, their unique needs, and the application of educational psychological principles to the education of gifted learners.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Human Development and Family Science - B.S.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

Earn your B.S. in Human Development and Family Science and make a difference in people's lives! This interdisciplinary program equips you with the skills to support individuals and families in social services, nonprofit work, community outreach and more. With a focus on lifespan development, relationships and diverse needs, you'll graduate ready for an impactful career. Read more...

Contact Information

- **Maureen Blankemeyer** | mblankem@kent.edu | 330-672-9397
- Speak with an Advisor
  - Kent Campus
  - Salem Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Salem Campus
  - Stark Campus

Examples of Possible Careers and Salaries*

Child, family, and school social workers

- 11.7% much faster than the average
- 342,500 number of jobs
- $48,430 potential earnings

Childcare workers

- 1.7% slower than the average
- 1,146,400 number of jobs
- $25,460 potential earnings

Clinical, counseling, and school psychologists

- 3.1% about as fast as the average
- 171,500 number of jobs
- $79,820 potential earnings

Community and social service specialists, all other

- 11.7% much faster than the average
- 105,200 number of jobs
- $46,770 potential earnings

Counselors, all other

- 13.0% much faster than the average
- 29,100 number of jobs
- $45,760 potential earnings

Family and consumer sciences teachers, postsecondary

- 1.3% slower than the average
- 2,500 number of jobs
- $72,220 potential earnings

Marriage and family therapists

- 22.3% much faster than the average
- 66,200 number of jobs
- $51,340 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Social and human service assistants

- 16.8% much faster than the average
- 425,600 number of jobs
- $35,960 potential earnings

Substance abuse, behavioral disorder, and mental health counselors

- 24.7% much faster than the average
- 319,400 number of jobs
- $47,660 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
GERO 44030	RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD (WIC) [1]	3
HDF 14027	INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY SCIENCE	3
HDF 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
HDF 24012	RELATIONSHIPS AND DEVELOPMENT ACROSS CHILDHOOD	3
or PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	
HDF 25512	MANAGEMENT OF FAMILY RESOURCES	3
HDF 34031	CULTURAL DIVERSITY: IMPLICATIONS FOR THE HELPING PROFESSIONS	3
HDF 44018	PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT AND FAMILY SCIENCE	3
HDF 44020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	3
or PSYC 30651	ADOLESCENT PSYCHOLOGY	
HDF 44021	FAMILY INTERVENTION AND ADVOCACY	3
HDF 44023	BUILDING FAMILY STRENGTHS (WIC) [1]	3
HDF 44028	PARENT-CHILD RELATIONSHIPS	3
HDF 44029	FAMILY POLICY	3
HDF 44030	FAMILY LIFE EDUCATION AND PREVENTION	3
HDF 44035	TRAUMA-RESPONSIVE ASSESSMENT AND STRATEGIES	3
HDF 44092	PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY SCIENCE (ELR) [2]	3-6
Content Elective, choose from the following:		3
HDF 42089	HUMAN DEVELOPMENT AND FAMILY SCIENCE INTERNATIONAL EXPERIENCE (DIVG) (ELR)	

HDF 44022	FAMILIES, GENDER AND POWER	
HDF 44039	BEREAVEMENT AND LOSS	
HDF 44089	FAMILIES IN FLORENCE, ITALY: LOVE, PARENTING AND POLICY (DIVG) (ELR)	
HDF 45089	LIFESPAN DEVELOPMENT PRACTICES AND OUTCOMES: THE ITALIAN EXPERIENCE (DIVG) (ELR)	
Additional Requirements (courses do not count in major GPA)		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3-4
or SOC 32220 & SOC 32221	DATA ANALYSIS and DATA ANALYSIS LABORATORY	
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
or SOC 32210	RESEARCHING SOCIETY (ELR) (WIC)	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		9
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
Minor or Undergraduate Certificate requirement and General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [3]		29
Minimum Total Credit Hours:		**120**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

2 Students may complete 3-6 credit hours of HDF 44092. Credit hours taken beyond 3 will count towards general electives.

3 Students are required to declare and complete a minor or a certificate as part of the human development and family science program. Students may select any minor or certificate available at Kent State, but it should be aligned with the student's overall educational and career goals. Number of credit hours depends on the program selected. A minimum of 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- State/federal background checks may be required for some practicum/internship sites. Results indicating one of the disqualifying offenses, whether expunged or current, may result in the inability to be placed in select practicum/internship sites.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	HDF 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	HDF 14027	INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY SCIENCE	3
	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	HDF 24012 or PSYC 20651	RELATIONSHIPS AND DEVELOPMENT ACROSS CHILDHOOD or CHILD PSYCHOLOGY (DIVD) (KSS)	3
	HDF 25512	MANAGEMENT OF FAMILY RESOURCES	3
	HDF 34031	CULTURAL DIVERSITY: IMPLICATIONS FOR THE HELPING PROFESSIONS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	HDF 44020 or PSYC 30651	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD or ADOLESCENT PSYCHOLOGY	3
	Content Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Minor/Certificate Course or General Elective		3
		Credit Hours	**15**
	Semester Five		
	HDF 44023	BUILDING FAMILY STRENGTHS (WIC)	3
	HDF 44035	TRAUMA-RESPONSIVE ASSESSMENT AND STRATEGIES	3
	PSYC 21621 or SOC 32220 ***and*** SOC 32221	QUANTITATIVE METHODS IN PSYCHOLOGY I or DATA ANALYSIS ***and*** DATA ANALYSIS LABORATORY	3-4
	Minor/Certificate Course or General Electives		6
		Credit Hours	**15**
	Semester Six		
	HDF 44021	FAMILY INTERVENTION AND ADVOCACY	3
	HDF 44028	PARENT-CHILD RELATIONSHIPS	3
	PSYC 31574 or SOC 32210	RESEARCH METHODS IN PSYCHOLOGY (ELR) or RESEARCHING SOCIETY (ELR) (WIC)	3
	Minor/Certificate Course or General Electives		6
		Credit Hours	**15**
	Semester Seven		
	GERO 44030	RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD (WIC)	3
!	HDF 44018	PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT AND FAMILY SCIENCE	3
	HDF 44030	FAMILY LIFE EDUCATION AND PREVENTION	3
	Minor/Certificate Course or General Electives		6
		Credit Hours	**15**

	Semester Eight		
	HDF 44029	FAMILY POLICY	3
!	HDF 44092	PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY SCIENCE (ELR)	3
	Minor/Certificate Course or General Electives		8
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify (a) physical, cognitive, emotional and social dimensions of human development and family relationships; and (b) reciprocal influences of family, school, work and community contexts on human development.
2. Demonstrate an understanding of program development, delivery and evaluation and identify practical implications of human development and family relationship concepts.
3. Access scholarly sources and critically evaluate empirical research; demonstrate an understanding of theories, methods and principles of research; and effectively communicate ideas.
4. Recognize the unique strengths and needs of individuals and families and apply knowledge through involvement with and study of diverse populations.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science degree in Human Development and Family Science offers an interdisciplinary approach to individual and family development. Students receive the knowledge and skills needed to help individuals and families across the lifespan to flourish in a global society. The degree prepares students for a wide range of careers in diverse settings, including family and community-based social services, prevention, nonprofit administration and family and community

intervention. Core coursework focuses on development across the lifespan and understanding family relationships, the environments in which individuals live and learn and the unique strengths and needs of diverse individuals and families.

The Human Development and Family Science major requires students to complete a minor or certificate related to their career interest.

Students may apply early to the M.A. degree in Human Development and Family Science and double count 9 credit hours of graduate courses toward both degrees. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Human Development and Family Science - M.A.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Human Development and Family Science M.A. program is designed to provide students with an in-depth understanding of the development and functioning of individuals and families across the lifespan. You'll gain the knowledge and skills necessary to work in a variety of settings, including education, social services, and research. Read more...

Contact Information

- **Maureen Blankemeyer** | mblankem@kent.edu | 330-672-9397
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the M.A. in Human Development and Family Science are not being accepted starting with the spring 2026 admission term.

Examples of Possible Careers and Salaries*

Farm and home management educators

- -3.9% decline
- 10,400 number of jobs
- $51,550 potential earnings

Survey researchers

- -3.7% decline
- 12,200 number of jobs
- $59,870 potential earnings

Instructional coordinators

- 5.9% faster than the average
- 192,900 number of jobs
- $66,970 potential earnings

Additional Careers

- Family life educator

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.A. in Human Development and Family Science are not being accepted starting with the spring 2026 admission term.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions

- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
EPSY 65523	LIFE SPAN DEVELOPMENT	3
HDF 64023	FAMILY THEORIES AND PROCESSES	3
HDF 64024	FAMILY LIFE EDUCATION	3
HDF 64026	PROFESSIONAL ISSUES IN HUMAN DEVELOPMENT AND FAMILY SCIENCE	2
RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Suggested Focus Area Electives, choose from the following:		9
ARCH 55640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
BSCI 50020	BIOLOGY OF AGING	
GERO 54030	RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD	
GERO 61191	INTERDISCIPLINARY SEMINAR IN GERONTOLOGY	
HDF 54020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
HDF 54023	BUILDING FAMILY STRENGTHS	
HDF 54028	PARENT-CHILD RELATIONSHIPS	
HDF 54029	FAMILY POLICY	
HDF 54037	POSITIVE YOUTH DEVELOPMENT	
HDF 54038	PROFESSIONAL CHILD AND YOUTH PRACTICE	
HDF 54039	BEREAVEMENT AND LOSS	
HDF 64027	EARLY ADOLESCENCE	
HDF 64092	PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY SCIENCE	
PHIL 50005	HEALTH CARE ETHICS	
SOC 52010	DEATH AND DYING	
SOC 62877	SOCIOLOGY OF AGING AND THE LIFE COURSE	
Other related courses with approval of advisor		
Culminating Requirement		
Choose from the following:		6
HDF 61099	MASTER'S PROJECT [1]	
HDF 61199	THESIS I [2]	
Minimum Total Credit Hours:		**32**

[1] The master's project is intended for students who do not plan to continue graduate work beyond the master's degree, and provides the opportunity to approach research and theory in a more applied manner. The presentation and interpretation of original research is not required. However, approval of the intended project by the student's master's project committee is required, as is the successful completion of an oral final examination conducted by the master's project committee.

[2] The thesis is intended for research-oriented students and is designed to provide the opportunity to conduct original research. Approval of a thesis proposal by the student's thesis committee is required, as is the successful completion of an oral final examination conducted by the thesis committee.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify physical, intellectual, emotional and social dimensions of human life within their respective disciplines; recognize the unique strengths and needs of individuals and families; and apply knowledge of human development and family relationships through involvement with and study of diverse populations.
2. Communicate their ideas in oral presentations and written papers; demonstrate an understanding of theories, methods and principles of research pertaining to human development and family relationships; and access scholarly sources of information and critically evaluate the quality of empirical research pertaining to human development and family relationships.
3. Demonstrate proficiency in developmental and family research methods and relevant statistical analyses; and understand program development, delivery and evaluation pertaining to human development and family relationships.
4. Understand the interrelationship between theory, research and practice.

Full Description

The Master of Arts degree in Human Development and Family Science provides students with advanced knowledge in the fields of family sciences and human development and the opportunity to develop multidisciplinary research and community outreach skills.

Coursework enables students to apply to become Certified Family Life Educators. Courses focus on current research and practice in human development and family science with an emphasis on family theories and processes; family life education; the reciprocal influences of family, school, work and community contexts; development across the lifespan; and the strengths and needs of diverse populations.

The program emphasizes both basic and applied research. Student participation in interdisciplinary research and community outreach projects is encouraged. Graduates are prepared for leadership and teaching positions in the social services, junior and community colleges and cooperative extension and/or for pursuing doctoral-level study.

Human Development and Family Science - Minor

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Human Development and Family Science minor provides students with knowledge of biopsychosocial development, family relationships and processes across the lifespan. This minor is particularly suitable for students with a major or interest in education, nursing, psychology, sociology, public health, communications, community health education, recreation management and speech pathology and audiology.

Contact Information

- **Maureen Blankemeyer** | mblankem@kent.edu | 330-672-9397
- Speak with an Advisor
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
HDF 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
Development Electives, choose from the following:		6
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
GERO 40656	PSYCHOLOGY OF AGING	
HDF 24012	RELATIONSHIPS AND DEVELOPMENT ACROSS CHILDHOOD	
HDF 24013	EARLY ADOLESCENCE	
HDF 44020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
Minor Electives, choose from the following:		9
HDF 24014	BRIDGING CROSS-NATIONAL RELATIONSHIPS FOR INDIVIDUALS AND FAMILIES	
HDF 34031	CULTURAL DIVERSITY: IMPLICATIONS FOR THE HELPING PROFESSIONS	
HDF 42089	HUMAN DEVELOPMENT AND FAMILY SCIENCE INTERNATIONAL EXPERIENCE (DIVG) (ELR)	
HDF 44021	FAMILY INTERVENTION AND ADVOCACY	
HDF 44022	FAMILIES, GENDER AND POWER	
HDF 44023	BUILDING FAMILY STRENGTHS (WIC)	
HDF 44028	PARENT-CHILD RELATIONSHIPS	
HDF 44029	FAMILY POLICY	
HDF 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	
HDF 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	
HDF 44034	PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT	
HDF 44039	BEREAVEMENT AND LOSS	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify physical, cognitive, emotional and social dimensions of human development and family relationships.
2. Identify the reciprocal influences of family, school, work and community contexts on human development
3. Recognize the unique strengths and needs of individuals and families.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

International Family Science - Minor

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/lde

About This Program

The International Family Science minor provides a comprehensive understanding of family structures across cultures and how they affect individuals and society. Read more...

Contact Information

- **Scott Tobias** | stobias4@kent.edu | 330-244-3388
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Note: International travel to Florence, Italy, is required.

The International Family Science minor is not accepting students at this time.

Admission Requirements

The International Family Science minor is not accepting students at this time.

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
HDF 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
HDF 34031	CULTURAL DIVERSITY: IMPLICATIONS FOR THE HELPING PROFESSIONS	3
HDF 44089	FAMILIES IN FLORENCE, ITALY: LOVE, PARENTING AND POLICY (DIVG) (ELR) [1]	3
HDF 45089	LIFESPAN DEVELOPMENT PRACTICES AND OUTCOMES: THE ITALIAN EXPERIENCE (DIVG) (ELR) [1]	3
Minor Electives, choose from the following:		6
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
COMM 45766	COMMUNICATION IN A GLOBAL SOCIETY	
HDF 24014	BRIDGING CROSS-NATIONAL RELATIONSHIPS FOR INDIVIDUALS AND FAMILIES	
HDF 41095	SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY SCIENCE	
HDF 42089	HUMAN DEVELOPMENT AND FAMILY SCIENCE INTERNATIONAL EXPERIENCE (DIVG) (ELR)	
HDF 44021	FAMILY INTERVENTION AND ADVOCACY	
HDF 44023	BUILDING FAMILY STRENGTHS (WIC)	
HDF 44028	PARENT-CHILD RELATIONSHIPS	
HDF 44029	FAMILY POLICY	
HDF 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	
PH 44003	ENVIRONMENTAL HEALTH ISSUES IN LOW- AND MIDDLE-INCOME COUNTRIES	
PSYC 31532	SOCIAL PSYCHOLOGY	
PSYC 40445	COGNITIVE PSYCHOLOGY	
RPTM 26060	INTRODUCTION TO GLOBAL TOURISM (DIVG)	
RPTM 46000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	
SOC 32560	SOCIOLOGY OF FAMILIES (DIVD)	
SOC 43200	SOCIAL STRUCTURE AND INDIVIDUAL LIVES	
Minimum Total Credit Hours:		**18**

[1] Courses are offered in Florence, Italy, only. Students may substitute other courses offered in Florence, with approval

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.500

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the field of family science compared to other social sciences.
2. Discuss the influences on the modern family from historical and cultural contexts.
3. Identify and analyze family policies in the United States and international settings.
4. Design research-informed educational programming for families that is preventative in nature for domestic and international settings.
5. Compare and contrast social service organizations from domestic and international settings.
6. Articulate cultural and socioeconomic differences and the significance of these differences in human development.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Full Description

The International Family Science minor provides students the opportunity to learn about the field of family science as it currently exists in the United States. The knowledge gained from the foundational courses in the minor is then explored in an international setting in Florence, Italy.

In Italy, students have the opportunity to critically assess the differences in how family science is viewed and implemented internationally compared to the United States. During their time in Florence, students will gain deeper cultural competence through experiential learning activities designed to foster critical thinking, mastery of content and self-reflection.

Learning Science - M.A.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences

www.kent.edu/ehhs/ldes

About This Program

Advance your knowledge and skills in education with the Learning Science M.A. program. Our innovative curriculum and experienced faculty prepare you to create effective learning environments and improve student outcomes. Read more...

Contact Information

- **Bradley Morris** | bmorri20@kent.edu | 330-672-2294
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- K-12 teacher
- Data analyst
- Curriculum specialist
- Academic counseling
- Assessment specialist
- Educational research
- Program evaluation

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: January 1
    Applications submitted by this deadline will receive the strongest consideration for admission.
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Specialty Area Electives		12
Major Electives, choose from the following:		21
EPSY 50093	VARIABLE TITLE WORKSHOP IN EDUCATIONAL PSYCHOLOGY	
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	
EPSY 65523	LIFE SPAN DEVELOPMENT	
EPSY 65524	LEARNING THEORIES	
EPSY 65529	EDUCATIONAL MOTIVATION	
EPSY 68905	EDUCATIONAL PSYCHOLOGY	
LRNS 65525	INFORMAL LEARNING	
LRNS 66510	INTRODUCTION TO R FOR EDUCATIONAL AND LEARNING SCIENCES	
LRNS 66511	STATISTICAL PROGRAMMING IN R FOR LEARNING SCIENCE	
RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	
RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	
Culminating Requirement		
LRNS 60199	THESIS I	6
Minimum Total Credit Hours:		**39**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- The M.A. degree requires a minimum of 39 credit hours, including 6 credit hours of thesis.
- Students have six years from the term of first enrollment to complete the program.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the various schools of learning theory that have informed educators.
2. Conduct literature reviews and design empirical research to examine issues associated with how individuals learn.
3. Apply principles of human development and learning when developing and selecting educational approaches.
4. Identify best practices for maximizing student learning.
5. Systematically design effective instructional programs to meet the academic needs of learners.
6. Demonstrate knowledge of theories and principles of learner motivation.
7. Describe social learning principles and their application to instructional practice.
8. Evaluate teaching and learning practices with a variety of types of assessments.
9. Competently evaluate educational programs and approaches.

Full Description

The Master of Arts degree in Learning Science provides advanced study for students interested in the application of psychological principles to learning and instruction. It encompasses a variety of different disciplines, including cognitive psychology, human development and learning theory. Students are exposed to the latest research findings regarding how people learn most effectively and efficiently. They also apply these principles to the design of instruction and study how to most accurately assess different types of learning.

The M.A. degree program is appropriate for classroom teachers, professionals in a variety of settings and students wishing to pursue doctoral-level training in learning sciences.

Learning Science - Ph.D.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Learning Science Ph.D. program provides advanced training in research and theory to prepare you for a leadership role in education. Read more...

Contact Information

- **Bradley Morris** | bmorri20@kent.edu | 330-672-2294
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- University professor
- Human behavior researcher
- K-12 teacher
- Data analyst

- Curriculum specialist
- Academic counseling
- Assessment specialist
- Educational research
- Program evaluation
- Data scientist
- Researcher for business/industry
- Marketing
- Advertising

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree or higher from an accredited college or university
- Minimum 2.750 undergraduate and graduate GPA on a 4.000-point scale
- Minimum 18 credit hours of courses in psychology, education or related fields (including a course in statistics)
- Official transcript(s)
- Research experience and broad background in educational psychology, psychology or related fields
- Curriculum vitae
- Goal statement
- Three letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: January 1
    Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Quantitative Research and Statistics Electives, choose from the following:		12
LRNS 76510	INTRODUCTION TO R FOR EDUCATIONAL AND LEARNING SCIENCES	
LRNS 76511	STATISTICAL PROGRAMMING IN R FOR LEARNING SCIENCE	
RMS 75510	STATISTICS I FOR EDUCATIONAL SERVICES	
RMS 78713	MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH	
RMS 78716	STATISTICS II: ANOVA AND NONPARAMETRIC TESTS	
RMS 78728	MULTIPLE REGRESSION	
RMS 78735	STRUCTURAL EQUATION MODELING	
RMS 78745	HIERARCHICAL LINEAR MODELING	
RMS 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	
RMS 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES	
Learning Science Electives, choose from the following:		6
EPSY 75520	CHILD AND ADOLESCENT DEVELOPMENT	
EPSY 75523	LIFE SPAN DEVELOPMENT	
EPSY 75524	LEARNING THEORIES	
EPSY 75529	EDUCATIONAL MOTIVATION	
EPSY 78905	EDUCATIONAL PSYCHOLOGY	
EPSY 87450	PSYCHOLOGICAL PRINCIPLES OF EDUCATION	
EPSY 89091	SEMINAR IN LEARNING AND DEVELOPMENT	
EPSY 89095	SPECIAL TOPICS IN LEARNING AND DEVELOPMENT	
Educational and Psychological Science Foundations Electives, choose from the following:		6
EPSY 70093	VARIABLE TOPIC WORKSHOP IN EDUCATIONAL PSYCHOLOGY	
EPSY 75520	CHILD AND ADOLESCENT DEVELOPMENT	
EPSY 75523	LIFE SPAN DEVELOPMENT	
EPSY 75524	LEARNING THEORIES	
EPSY 75529	EDUCATIONAL MOTIVATION	
EPSY 78905	EDUCATIONAL PSYCHOLOGY	
EPSY 87450	PSYCHOLOGICAL PRINCIPLES OF EDUCATION	
EPSY 89091	SEMINAR IN LEARNING AND DEVELOPMENT	
EPSY 89095	SPECIAL TOPICS IN LEARNING AND DEVELOPMENT	
LRNS 75525	INFORMAL LEARNING	
PSYC 70413	COGNITIVE NEUROPSYCHOLOGY	
PSYC 70453	INTRODUCTION TO COGNITIVE PSYCHOLOGY	
PSYC 70604	COGNITIVE DEVELOPMENT	
PSYC 70895	ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY	
PSYC 80491	SEMINAR IN COGNITIVE PSYCHOLOGY	
Additional Program Electives, choose from the following: [1]		21-60
LRNS 89096	INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT	
LRNS 89098	RESEARCH IN LEARNING AND DEVELOPMENT	
Other courses from categories above, or with advisor approval		
Culminating Requirement		
LRNS 80199	DISSERTATION I [2]	30
Minimum Total Credit Hours for Post-Baccalaureate Students		**108**
Minimum Total Credit Hours for Post-Master's Students		**75**

[1] Post-baccalaureate students may use additional program electives to fulfill requirements for the M.A. degree. These courses may be taken at either the doctoral or master's level.

[2] Upon admission to candidacy, each doctoral candidate must register for LRNS 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours,

and thereafter LRNS 80299 each semester until all requirements for the degree have been met.

Candidacy

Students who have been admitted into the doctoral program will be considered for Ph.D. candidacy after they have met all requirements for the master's degree. In addition, the department reserves the right to separate from the program a student who, in the opinion of a duly constituted departmental committee, is not likely to succeed professionally despite earning acceptable grades.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- The doctoral program requires a minimum of four years of full-time attendance for holders of the bachelor's degree.
- All doctoral students complete a (1) program of basic core courses, (2) select additional courses and seminars with the aid of a faculty advisor and (3) master's thesis and a doctoral dissertation.
- A limited number of graduate courses outside the department may be credited toward graduation.
- Doctoral program aspirants who do not hold a master's degree upon starting the program must complete all the requirements for the M.A. degree in Learning Science.

Program Learning Outcomes

Graduates of this program will be able to:

1. Inform and enhance practice based on deep knowledge of research, theories and principles of cognition, learning and development.
2. Synthesize and critically evaluate scholarly articles and texts.
3. Apply principles of research design to create rigorous experiments and studies.
4. Analyze and interpret quantitative data using appropriate cutting-edge methodologies and tools.
5. Develop scientific writing skills in order to effectively communicate research findings to the scientific community and practitioners.
6. Design and conduct empirical research to investigate the cognitive and developmental basis for effective teaching and learning practices.
7. Disseminate original, empirical research through scholarly presentations, conferences and publications.

Full Description

The Ph.D. degree in Learning Science provides an advanced and interdisciplinary study in the principles of human cognition, learning and development. The program provides rigorous training in the theoretical foundations of cognition, learning and development, as well as research design, instrumentation, quantitative analysis and research application.

Graduates are qualified to become faculty at the university level and are also prepared for careers in a variety of industry and government settings conducting research and guiding the application of evidence-based practices.

Long-Term Care Administration - B.S.

College of Education Health and Human Services

School of Lifespan Development and Educational Services
www.kent.edu/ehhs/ldes

About This Program

Earn your B.S. in Long-Term Care Administration and become a leader in senior care! Prepare for state and national licensure to manage nursing homes, assisted living facilities and other care settings. Gain hands-on experience, earn a Certified Dementia Practitioner (CDP) credential and take the next step toward a Health Services Executive (HSE) certification. The program is nationally accredited by NAB. Read more...

Contact Information

- **Donna Alexander** | dalexa2@kent.edu | 330-672-2854 (Kent) | 330-244-3525 (Stark)
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Mostly online
  - In person
- **Location:**
  - Kent Campus (mostly online and in person)
  - Stark Campus (mostly online)

Examples of Possible Careers and Salaries*

Medical and health services managers

- 31.5% much faster than the average
- 422,300 number of jobs
- $104,280 potential earnings

Accreditation

The B.S. degree in Long-Term Care Administration is accredited by the National Association of Long Term Care Administrator Boards (NAB) and approved by the Ohio Board of Executives of Long-Term Services and Supports (BELTSS).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based

upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ARCH 45640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	3
BA 44152	PROJECT MANAGEMENT	3
or HEM 13022	SANITATION AND SAFETY PRINCIPLES AND PRACTICES	
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
or MGMT 24163	PRINCIPLES OF MANAGEMENT	
BMRT 21000	BUSINESS LAW AND ETHICS I	3
or FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	
BMRT 36415	CUSTOMER SERVICE	3
or HEM 23335	HOSPITALITY EXPERIENCE MANAGEMENT	
COMM 20001	INTERPERSONAL COMMUNICATION	3
or COMM 35863	BUSINESS AND PROFESSIONAL COMMUNICATION	
HDF 44018	PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT AND FAMILY SCIENCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
LTCA 43092	INTERNSHIP IN NURSING HOME ADMINISTRATION/HEALTH SERVICES EXECUTIVE (ELR) (min B- grade)	9
LTCA 43192	INTERNSHIP IN NURSING HOME ADMINISTRATION/HEALTH SERVICES EXECUTIVE (ELR) (min B- grade)	9
LTCA 44032	LONG-TERM CARE ADMINISTRATION I (min B- grade)	3
LTCA 44033	LONG-TERM CARE ADMINISTRATION II (min B- grade)	3
MGMT 34165	DYNAMICS OF LEADERSHIP	3
PH 30015	UNITED STATES HEALTH CARE SYSTEM	3
PH 30020	FUNDAMENTALS OF HEALTH PRIVACY	1
PH 30025	FUNDAMENTALS OF HEALTHCARE COMPLIANCE	1
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
GERO 40656	PSYCHOLOGY OF AGING	3
GERO 44030	RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD (WIC) [1]	3
HDF 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
HED 14020	MEDICAL TERMINOLOGY	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
RPTM 36010	RECREATION, LEISURE AND AGING	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Basic Sciences (must include one laboratory)		3-4
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		9
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
COMM 20001 or COMM 35863	INTERPERSONAL COMMUNICATION or BUSINESS AND PROFESSIONAL COMMUNICATION	3

GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
HED 14020	MEDICAL TERMINOLOGY	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
BMRT 11009 or MGMT 24163	INTRODUCTION TO MANAGEMENT TECHNOLOGY or PRINCIPLES OF MANAGEMENT	3
HDF 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
BA 44152 or HEM 13022	PROJECT MANAGEMENT or SANITATION AND SAFETY PRINCIPLES AND PRACTICES	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**18**
Semester Five		
BMRT 21000 or FIN 26074	BUSINESS LAW AND ETHICS I or LEGAL ENVIRONMENT OF BUSINESS	3
BMRT 36415 or HEM 23335	CUSTOMER SERVICE or HOSPITALITY EXPERIENCE MANAGEMENT	3
GERO 40656	PSYCHOLOGY OF AGING	3
PH 30015	UNITED STATES HEALTH CARE SYSTEM	3
PH 30020	FUNDAMENTALS OF HEALTH PRIVACY	1
PH 30025	FUNDAMENTALS OF HEALTHCARE COMPLIANCE	1
General Elective		3
	Credit Hours	**17**
Semester Six		
ARCH 45640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	3
GERO 44030	RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD (WIC)	3
HDF 44018	PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT AND FAMILY SCIENCE	3
LTCA 44032	LONG-TERM CARE ADMINISTRATION I	3
MGMT 34165	DYNAMICS OF LEADERSHIP	3
	Credit Hours	**15**
Semester Seven		
LTCA 43092	INTERNSHIP IN NURSING HOME ADMINISTRATION/HEALTH SERVICES EXECUTIVE (ELR)	9
RPTM 36010	RECREATION, LEISURE AND AGING	3
	Credit Hours	**12**
Semester Eight		
LTCA 43192	INTERNSHIP IN NURSING HOME ADMINISTRATION/HEALTH SERVICES EXECUTIVE (ELR)	9
LTCA 44033	LONG-TERM CARE ADMINISTRATION II	3
	Credit Hours	**12**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the provision of customer care and services
2. Demonstrate an understanding of departmental operations and how each area interacts with other areas in the provision of care and services

3. Demonstrate knowledge of management, leadership, legal and regulatory requirements and the administrator's perspective on how to successfully oversee operations.
4. Effectively communicate ideas in oral presentations and written papers.
5. Identify opportunities for employment in long-term care services and supports.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science degree in Long-Term Care Administration provides students the education and qualifications and eligibility for state and national licensure eligibility to work as administrators in long-term care settings, including nursing homes, assisted living facilities, retirement communities, congregate living, adult care centers, hospice care and other long term services and supports.

Students may earn the certified dementia practitioner (CDP) credential prior to graduation. After graduation and passing of the state and national licensure exams for nursing home administration (NHA), graduates working in the long-term care field will qualify to apply for the health services executive (HSE) credential.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Mild to Moderate Special Education - Minor

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Mild to Moderate Special Education minor provides a comprehensive understanding of how to support students with disabilities. Through coursework and practical experiences, you'll learn about topics such as behavior management and individualized education plans. Read more...

Contact Information

- **Andrew Wiley** | awiley5@kent.edu | 330-672-0581
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Students declared in the Special Education major, Mild/Moderate concentration, are not permitted to declare this minor.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent

State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements (min C grade is required in all courses)		
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
SPED 24000	INCLUSIVE PRACTICES	3
SPED 43010	FAMILY AND PROFESSIONAL COLLABORATION	3
SPED 43030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 43050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS	3
SPED 43062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.750	2.000

- Minimum C grade is required in all courses.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Students will identify effective practices for differentiating instruction for exceptional learners.
2. Students will describe classroom management strategies to support the engagement and learning of exceptional learners.
3. Students will develop lesson plans tailored to the strengths and needs of exceptional learners in general education classroom settings.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Full Description

The Mild to Moderate Special Education minor provides students with valuable knowledge related to meeting the special educational needs of students with mild to moderate disabilities in schools. Mild to moderate disabilities include learning disabilities, ADHD, emotional and behavioral disorders, mild intellectual disabilities, and autism spectrum disorders without accompanying intellectual impairment.

The minor allows students to learn effective practices for differentiating instruction, behavior management, collaboration and supporting students with mild to moderate disabilities in general education classrooms.

This minor is particularly relevant for students seeking to work in the K-12 academic environment, including those with a major or interest in education, special education, psychology, public health, sociology and human development and family studies.

Nonprofit Studies - Minor

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Nonprofit Studies minor offers a comprehensive understanding of the nonprofit sector, including legal and financial frameworks, strategic planning, fundraising, and program evaluation. With experiential learning opportunities, you'll develop leadership skills to become an effective nonprofit leader. Read more...

Contact Information

- **Kathy Bergh** | kbergh@kent.edu | 330-672-5380
- Speak with an Advisor
  - Geauga Campus
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Geauga Campus
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Code	Title	Credit Hours
Minor Requirements		
HDF 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	3
HDF 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	3
HDF 44034	PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT	3
Methods/Analysis Elective, choose from the following:		3-4
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	
AFS 37010	RESEARCH METHODS IN AFRICANA STUDIES (ELR)	
ANTH 38490	QUANTITATIVE ANTHROPOLOGY	
COMM 30000	COMMUNICATION RESEARCH METHODS	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	
EXSC 35068	STATISTICS FOR THE EXERCISE SCIENTIST	
IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	
MDJ 20008	RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS	
NURS 31010	APPLICATIONS FOR STATISTICAL FINDINGS FOR EVIDENCE BASED PRACTICE	
PH 30002	INTRODUCTORY BIOSTATISTICS	
POL 30001	RESEARCH METHODS (ELR)	
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	
SOC 32220 & SOC 32221	DATA ANALYSIS and DATA ANALYSIS LABORATORY	
Internship/Practicum Elective, choose from the following: [1]		3
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	
ENG 41096	INDIVIDUAL INVESTIGATION	
ENG 49095	SENIOR AND GRADUATE SPECIAL TOPICS	
GERO 44092	PRACTICUM IN GERONTOLOGY (ELR)	
HDF 44092	PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY SCIENCE (ELR)	
HED 34060	SMALL GROUP PROCESS	
NURS 40045	INTEGRATION OF LEADERSHIP AND MANAGEMENT IN NURSING (ELR)	
PH 40196	INDIVIDUAL INVESTIGATION IN PUBLIC HEALTH	
POL 41990	COLUMBUS PROGRAM IN STATE ISSUES (ELR)	
POL 42990	WASHINGTON PROGRAM IN NATIONAL ISSUES (ELR)	
Any other internship or practicum course (course number ends in 92)		
Development Elective, choose from the following:		3
COMM 46605	COMMUNICATION ACROSS THE LIFESPAN (DIVD)	
EPSY 29525	EDUCATIONAL PSYCHOLOGY	
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
GERO 40656	PSYCHOLOGY OF AGING	
GERO 44030	RELATIONSHIPS AND DEVELOPMENT ACROSS ADULTHOOD (WIC)	
HDF 24012	RELATIONSHIPS AND DEVELOPMENT ACROSS CHILDHOOD	
HDF 24013	EARLY ADOLESCENCE	
HDF 44020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
HDF 44022	FAMILIES, GENDER AND POWER	
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	
PACS 31002	GENDER, POWER AND CONFLICT	
PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	
PSYC 30651	ADOLESCENT PSYCHOLOGY	
RPTM 36010	RECREATION, LEISURE AND AGING	
SOC 42421	CHILDHOOD IN SOCIETY	
SOC 42478	ADOLESCENCE IN SOCIETY	
SOC 42879	AGING IN SOCIETY (DIVD)	
SPA 44112	AGE-RELATED CHANGES IN COMMUNICATION	
Minimum Total Credit Hours:		**18**

[1] An internship/practicum is required at a non-profit organization; students must make prior arrangements with the program director. Before taking the internship/practicum course, students must have taken (or will take concurrently) HDF 44033 and HDF 44034.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- After declaring the Nonprofit studies minor, students are required to meet with the program director to discuss course selection and procedures for completing the minor.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the principles and practices of nonprofit management.
2. Construct a grant proposal appropriate for submission to a grant funder in the nonprofit sector.

3. Apply community outreach skills through successful completion of a community inventory as well as practicum and field experiences.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Full Description

The Nonprofit Studies minor prepares students for careers in a variety of nonprofit organizations at the local, state, national and international level. The curriculum provides students with knowledge and competencies in areas such as grant writing and fundraising, mission and vision, advocacy and lobbying, risk management, board development, program planning, leadership and ethics, human resource development, youth and adult development, marketing, financial management and non-profit management. Students gain real world experience with local nonprofit agencies through a practicum experience.

The Nonprofit Studies minor may be beneficial for students pursuing any major.

Nursing Home Administration - Graduate Certificate

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Nursing Home Administration graduate certificate offers courses in management, finance, marketing and more, all focused on the unique needs of nursing home administration. With flexible online coursework and experienced faculty, you'll gain the knowledge and skills needed to effectively manage a nursing home and other senior living services to improve the quality of care for its residents. Graduates of the program are eligible to apply for NHA and HSE licensure. Read more...

Contact Information

- **Donna Alexander** | dalexa2@kent.edu | 330-672-2854 (Kent) | 330-244-3525 (Stark)
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
  - Partially online
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Medical and health services managers

- 31.5% much faster than the average
- 422,300 number of jobs
- $104,280 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 GPA on a 4.000-point scale
- Official transcript(s)
- Questions in Anticipation of Licensure form
- Statement of personal goals and professional objectives
- Documented experience and/or coursework in the field of aging or a related field
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
LTCA 54032	LONG-TERM CARE ADMINISTRATION I (min B- grade)	3
LTCA 63092	INTERNSHIP IN NURSING HOME ADMINISTRATOR/HEALTH SERVICES EXECUTIVE I (min B grade)	6
LTCA 63192	INTERNSHIP IN NURSING HOME ADMINISTRATOR/HEALTH SERVICES EXECUTIVE II	6
Certificate Elective, choose from the following:		3
ARCH 55640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
GERO 61191	INTERDISCIPLINARY SEMINAR IN GERONTOLOGY	
HDF 54021	FAMILY INTERVENTION AND ADVOCACY	
HDF 54023	BUILDING FAMILY STRENGTHS	
HDF 54029	FAMILY POLICY	
HDF 54032	NONPROFIT FUNDRAISING AND GRANTWRITING	
HDF 54039	BEREAVEMENT AND LOSS	
HPM 50110	INTRODUCTION TO PUBLIC MENTAL HEALTH	
HPM 62016	PUBLIC HEALTH ADMINISTRATION	
HPM 62017	HEALTHCARE LAW AND REGULATION	
HPM 63008	HEALTHCARE PRIVACY AND SECURITY	
HPM 63003	HEALTH CARE SYSTEMS	
HPM 63009	HEALTHCARE COMPLIANCE I	
HPM 63010	HEALTHCARE COMPLIANCE II	
PADM 60574	STRATEGIC PLANNING	
PADM 60375	PUBLIC PERSONNEL ADMINISTRATION	
PADM 60471	NONPROFIT LAW	
PADM 60472	NONPROFIT BOARD EXEC RELATIONS	
PADM 60477	NONPROFIT FINANCIAL RESOURCE DEVELOPMENT	
SOC 52010	DEATH AND DYING	
SOC 52563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SOC 52879	AGING IN SOCIETY	
SOC 62323	SOCIOLOGY OF HEALTH AND ILLNESS	
Related Course with Advisor Approval		
Minimum Total Credit Hours:		**18**

[1] LTCA 54032 recommended to be taken prior to LTCA 63092 and LTCA 63192.

[2] Internship enrollment by permission only. LTCA 63092 and LTCA 63192 must be completed consecutively.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

- Minimum 3.000 GPA must be maintained throughout the program.
- Students may be required to successfully complete a 40 hour volunteer experience at a skilled nursing facility if missing from their current academic or work experience.
- State/Federal background checks may be required for some internship sites. Results indicating one of the disqualifying offenses, whether expunged or current, may result in the inability to be placed at a skilled nursing facility for the required internship hours and may prevent the applicant from applying for licensure required to operate a skilled nursing facility or assisted living facility. Contact the Ohio Board of Executives of Long Term Services and Supports (BELTSS) for licensure eligibility with a disqualifying offense. Please see faculty advisor for more information.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
LTCA 54032	LONG-TERM CARE ADMINISTRATION I	3
LTCA 63092	INTERNSHIP IN NURSING HOME ADMINISTRATOR/HEALTH SERVICES EXECUTIVE I	6
	Credit Hours	**9**
Semester Two		
LTCA 63192	INTERNSHIP IN NURSING HOME ADMINISTRATOR/HEALTH SERVICES EXECUTIVE II	6
Certificate Elective		3
	Credit Hours	**9**
	Minimum Total Credit Hours:	**18**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate understanding of the Domains of Practice as established by National Association of Long Term Care Administrator Boards in order to successfully pass the nursing home administrator licensure exams.
2. Demonstrate mastery of the Domains of Practice as evidenced by passing the online practice exams.
3. Earn the Certified Dementia Practitioner (CDP) credential.

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.

- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Full Description

The Nursing Home Administration graduate certificate prepares individuals to apply managerial principles to the administration of nursing homes, assisted living facilities, adult day care, home health services, senior living communities, retirement communities and other long-term services and supports. Individualized coursework may include instruction in social and clinical aspects of aging, health care delivery systems, long-term care administration, aging policy and government programs, ethics, business management, financial management, human resource management, marketing and applicable laws and regulations.

The program prepares graduates for the national and state licensure examinations required in the State of Ohio to become a Licensed Nursing Home Administrator (LNHA). Once licensed, individuals are qualified to lead organizations in the field of long-term care services and supports. The certificate is particularly appropriate for graduate students from any discipline who are interested in long-term care, but also for individuals currently working in the long-term care field who wish to advance their career as an executive of long-term care services and supports.

Students should be able to complete the certificate within one academic year or three semesters. The certificate includes an internship as required by the State of Ohio in a skilled nursing facility.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

School Counseling - M.Ed.

College of Education Health and Human Services

School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

Help students achieve their full potential with our School Counseling M.Ed. program. Gain the expertise needed to become a licensed school counselor through comprehensive coursework and supervised field experience. Read more...

Contact Information

- **Marty Jencius** | mjencius@kent.edu | 330-672-2662
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Accreditation

Council for Accreditation of Counseling and Related Educational Programs (CACREP)

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Questions in Anticipation of Licensure form
- Supplemental Interview form
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: December 15
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Application deadline: February 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.
- **Spring Semester**
  - Priority deadline: September 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Application deadline: October 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.
- **Summer Term**
  - Application deadline: February 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (min B-/S grade in all courses)		
CES 65511	RESEARCH IN COUNSELING	3
CES 67530	COUNSELING THEORIES	3
CES 67531	COUNSELING SKILLS AND TECHNIQUES	3
CES 67580	MULTICULTURAL COUNSELING	3
CES 67820	GROUP WORK: THEORY AND TECHNIQUES	3
CES 68011	FOUNDATIONS OF SCHOOL COUNSELING	3
CES 68066	COUNSELING ADOLESCENTS	3
CES 68067	COUNSELING CHILDREN	3
CES 68068	SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP	3
CES 68069	ORIENTATION AND ETHICS: SCHOOL COUNSELING	3
CES 68070	COLLEGE AND CAREER READINESS	3
CES 68126	INTRODUCTION TO ASSESSMENT IN COUNSELING	3
CES 68392	SCHOOL COUNSELING PRACTICUM	3
EPSY 65523	LIFE SPAN DEVELOPMENT	3
Major Electives, choose from the following:		12
CES 67628	DIAGNOSIS IN COUNSELING	
CES 67662	FOUNDATIONS OF ADDICTIONS COUNSELING	
CES 67668	MOTIVATIONAL INTERVIEWING	
CES 68130	PSYCHOPATHOLOGY FOR COUNSELORS	
CES 68533	FAMILY THERAPY: THEORY AND TECHNIQUES	
SPED 63204	LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION	
Culminating Requirement		
CES 68192	INTERNSHIP I: SCHOOL COUNSELING [1]	3
CES 68292	INTERNSHIP II: SCHOOL COUNSELING [1]	3
Minimum Total Credit Hours:		**60**

[1] State and Federal background checks are required for field-based experiences. See the practicum and internship coordinator for more information.

Progression Requirements

- Students who earn a C+ grade or lower in any course for the degree must repeat the course for a better grade.
- All prerequisites for courses must be completed with a minimum B- grade.

Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Graduation Requirements

- Minimum B- (or Satisfactory) grade in all courses
- Minimum 60 credit hours, including a 600 clock-hour internship
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge in assessment; groupwork; career development; helping relationships; human growth and development; social and cultural diversity; research and program evaluation; and professional orientation and ethical practice.
2. Meet the academic components required by the Ohio Department of Education to be eligible to sit for the current licensure assessments.
3. Understand legal and ethical standards and practice in a legal and ethical manner.
4. Understand and demonstrate multicultural responsiveness.
5. Demonstrate a strong counselor identity.
6. Demonstrate strong skills in identifying affect, behavior and cognition that contributes to mental health issues.
7. Understand and demonstrate sound counseling skills and techniques within a theoretical framework in both individual and group counseling.
8. Demonstrate valuable skills in conceptualizing student success and growth.
9. Understand the importance of research in advancing the counseling profession, including how to critique research to inform counseling practice.
10. Work with crisis, trauma, suicide and at-risk students.
11. Design and evaluate school counseling programming.

Full Description

The Master of Education degree in School Counseling prepares students for employment as professional school counselors in K-12 schools. This

program is designed to fulfill the educational requirements for licensure as a Licensed School Counselor in the state of Ohio.

The program may be pursued on a part-time or full-time basis, although some full-time study is urged.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

School Psychology - Ed.S.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The School Psychology Ed.S. program provides the comprehensive training you need to become a skilled and compassionate practitioner. Through coursework and supervised practical experiences, you'll develop the skills and knowledge necessary to engage in assessment and intervention to support the academic success, social-emotional needs, mental health and well-being of students in a variety of educational settings. Read more...

Contact Information

- **Richard Cowan** | rcowan1@kent.edu | 330-672-4450
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Clinical, counseling, and school psychologists

- 3.1% about as fast as the average
- 171,500 number of jobs
- $79,820 potential earnings

Accreditation

The Ed.S. degree in School Psychology is recognized by the National Association of School Psychologists (NASP).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree in school psychology from a NASP-approved college or university
- Minimum 3.000 graduate GPA on a 4.000-point scale (minimum graduate 3.250 GPA is recommended)
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Sample of written work
- School Psychology Supplemental Data form (online document)
- Questions in Anticipation of Licensure form
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Program faculty evaluate applicants' background, evidence of high scholastic achievement, a high level of verbal ability and positive letters of recommendation

[1] Students who do not have a prior NASP-approved master's degree must apply to the Kent State's M.Ed. degree in School Psychology. Students' applications will still be reviewed for admission into the Ed.S. degree. If admitted, students will matriculate into the Ed.S. degree following successful completion of the M.Ed. degree within the first year.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadlines: January 15 and May 1
    Applications submitted by January 15 will be considered for interviews taking place during the spring semester. If admitted, students may begin coursework during either the summer or fall semester.
    Applications submitted by May 1 will be considered for interviews taking place during the summer. If admitted, students may begin coursework during the fall semester.
- **Spring Semester**
  - Priority deadline: October 1
    Applications submitted by October 1 will be considered for interviews taking place during the fall semester. If admitted, students may begin coursework during the spring semester.
- **Summer Term**

- Priority deadline: January 15
  Applications submitted by January 15 will be considered for interviews taking place during the spring semester. If admitted, students may begin coursework during either the summer or fall semester.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CI 77319	DIAGNOSIS AND REMEDIATION IN READING	3
EDLE 76542	PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION	3
or SPED 63101	ADMINISTRATION AND SUPERVISION IN SPECIAL EDUCATION	
SPSY 70162	DEVELOPMENTAL ASSESSMENT	3
SPSY 77792	PRACTICUM II IN SCHOOL PSYCHOLOGY [1]	6
SPSY 77926	INTRODUCTION TO DIGITAL CITIZENSHIP FOR SCHOOL PSYCHOLOGISTS	1
SPSY 77928	GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS	3
SPSY 77965	INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS	3
SPSY 77970	LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY	3
SPSY 77971	ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY [2]	6
SPSY 77973	CONSULTATION IN THE HELPING PROFESSIONS	3
SPSY 77975	HOME, SCHOOL AND COMMUNITY COLLABORATION	3
SPSY 77992	SPECIALIST INTERNSHIP IN SCHOOL PSYCHOLOGY [3]	12
Major Electives, choose from the following:		6
EPSY 75520	CHILD AND ADOLESCENT DEVELOPMENT	
or EPSY 75523	LIFE SPAN DEVELOPMENT	
RMS 75510	STATISTICS I FOR EDUCATIONAL SERVICES	
SPSY 77912	ROLE OF THE SCHOOL PSYCHOLOGIST	
Minimum Total Credit Hours:		**55**

1 Students must complete SPSY 77792 for two semesters, 3 credit hours each.

2 SPSY 77971 is required for students who complete an internship in the State of Ohio. If taken, students must complete two semesters, 3 credit hours each, for a total of 6 credit hours. All other students complete 6 credits of faculty-approved coursework.

3 Student must complete SPSY 77992 for two semesters, 6 credit hours each. Students are required to undertake an academic year of internship under supervision of the faculty and a qualified school psychologist in public schools. Course requirements need to be successfully completed prior to the internship.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Upon admission to the Ed.S. degree program, students will be assigned an advisor.
- Annual State/Federal background checks are required for all field-based experiences.

Licensure Information

Candidates seeking School Psychologist licensure are required to pass the ETS Praxis II School Psychologist test or the domain specific School Psychology Ohio Assessment for Educators test.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge and skills associated with the National Association of School Psychologist's (NASP) Domains of School Psychology Training and Practice, which allows them to gain the credential of 'school psychologist' at the state and national levels (i.e., through both the Ohio Department of Education and NASP's national certification program [Nationally Certified School Psychologist, NCSP]).
2. Demonstrate positive impact on students in applied settings as related to assessment, planning/supports and implementation of interventions related to academic and behavioral needs as identified by key stakeholders in a variety of internship placement settings (i.e., within public schools).

Full Description

The Educational Specialist degree in School Psychology is committed to a scientist-practitioner model of training, which conceptualizes school psychologists as data-oriented problem solvers. The program operates from an eco-behavioral orientation and emphasizes the delivery of school psychological services from a consultative framework to prevent and remediate learning, behavioral and social-emotional concerns in individuals from birth to 22 years.

Students in the program gain competencies, not only in the provision of services to individual children in schools, but also in the promotion and implementation of systemic educational reform. Graduates of the Ed.S. degree are highly prepared to be leaders and innovators of comprehensive support services in a variety of educational settings.

Students who do not hold a master's degree in school psychology must apply to the M.Ed. degree in School Psychology. After completing the M.Ed. degree, students may then matriculate into the Ed.S. degree.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

School Psychology - M.Ed.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/lides

About This Program

Our School Psychology programs equip you with the knowledge and skills needed to make a positive impact on the lives of Pre-Kindergarten through 12th grade students. With experienced faculty, applied learning opportunities, and a focus on evidence-based practices, you'll be prepared to address the social-emotional, behavioral and academic needs of diverse student populations. Read more...

Contact Information

- **Richard Cowan** | rcowan1@kent.edu | 330-672-4450
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Clinical, counseling, and school psychologists

- 3.1% about as fast as the average
- 171,500 number of jobs
- $79,820 potential earnings

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Sample of written work
- School Psychology Supplemental Data form (online document)
- Questions in Anticipation of Licensure form
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadlines: January 15 and May 1
    Applications submitted by January 15 will be considered for interviews taking place during the spring semester. If admitted, students may begin coursework during either the summer or fall semester.
    Applications submitted by May 1 will be considered for interviews taking place during the summer. If admitted, students may begin coursework during the fall semester.
- **Spring Semester**
  - Priority deadline: October 1
    Applications submitted by October 1 will be considered for interviews taking place during the fall semester. If admitted, students may begin coursework during the spring semester.
- **Summer Term**
  - Priority deadline: January 15
    Applications submitted by January 15 will be considered for interviews taking place during the spring semester. If admitted, students may begin coursework during either the summer or fall semester.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
SPSY 67920	DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS	3
SPSY 67929	INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS	3
SPSY 67951	COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS	3
SPSY 67955	INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS	3
SPSY 67960	INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS	3
SPSY 67972	SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS	3
SPSY 67974	SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY	3
Major Elective, choose from the following:		3
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	
EPSY 65523	LIFE SPAN DEVELOPMENT	
RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	
SPSY 67912	ROLE OF THE SCHOOL PSYCHOLOGIST	
Culminating Requirement		
SPSY 67692	PRACTICUM I IN SCHOOL PSYCHOLOGY [1]	6
Minimum Total Credit Hours:		**30**

[1] Students must complete SPSY 67692 in two semesters, 3 credit hours each for a total of 6 credit hours. Annual State/Federal background checks are required for all field-based experiences.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Minimum 30 credit hours of graduate coursework required for the M.Ed. degree.
- Depending on students' background/experience, students may be required to complete additional coursework in the first and second years of the program.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge and skills associated with the National Association of School Psychologist's Domains of School Psychology Training and Practice.

Full Description

The Master of Education degree in School Psychology provides a focus on the core principles and foundations of the practice of school psychology. The M.Ed. degree is not considered a terminal degree and is not sufficient for earning the Ohio state license in school psychology.

Additional training beyond the M.Ed. (e.g., an Ed.S. or Ph.D.) is required in order to gain the credential of 'school psychologist' at the state (i.e., Ohio Department of Education) and national (i.e., through the National Association of School Psychologists national certification program) levels as well as for licensure and practice in most states.

School Psychology - Ph.D.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The School Psychology Ph.D. program prepares you for a professional career in school psychology with a focus on improving children's academic performance, social-emotional development, mental health and overall well-being. With a combination of comprehensive coursework, research experience and supervised on-site training experiences, you'll gain the knowledge and skills needed to make a difference in the lives of children and adolescents in a variety of applied settings. Read more...

Contact Information

- **Richard Cowan** | rcowan1@kent.edu | 330-672-4450
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Description

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the Ph.D. in School Psychology are not being accepted at this time.

Examples of Possible Careers and Salaries*

Psychologists, all other

- 2.3% slower than the average
- 19,800 number of jobs
- $105,780 potential earnings

Clinical, counseling, and school psychologists

- 3.1% about as fast as the average
- 171,500 number of jobs
- $79,820 potential earnings

Accreditation

The Ph.D. degree in School Psychology is accredited by the American Psychological Association (APA) and recognized by the National Association of School Psychologists (NASP).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Ph.D. in School Psychology are not being accepted at this time.

- Master's degree from an accredited college or university
- Minimum 3.000 graduate GPA on a 4.000-point scale (minimum 3.500 GPA is recommended)
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Sample of written work
- School Psychology Supplemental Data Form (online document)
- Questions in Anticipation of Licensure form
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score

- Minimum 58 PTE score
- Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadlines: January 15 and May 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by January 15 will be considered for interviews taking place during the spring semester. If admitted, students may begin coursework during either the summer or fall semester.
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by May 1 will be considered for interviews taking place during the summer. If admitted, students may begin coursework during the fall semester.
- **Spring Semester**
  - Priority deadline: October 1
    All application materials (including applicable fee, transcripts, recommendation letters, etc.)submitted by October 1 will be considered for interviews taking place during the fall semester. If admitted, students may begin coursework during the spring semester.
- **Summer Term**
  - Priority deadline: January 15
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by January 15 will be considered for interviews taking place during the spring semester. If admitted, students may begin coursework during either the summer or fall semester.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
PSYC 70413	COGNITIVE NEUROPSYCHOLOGY	3
or PSYC 70453	INTRODUCTION TO COGNITIVE PSYCHOLOGY	
or PSYC 70604	COGNITIVE DEVELOPMENT	
PSYC 70615	SOCIAL AND PERSONALITY DEVELOPMENT	3
or PSYC 71260	THEORIES OF PERSONALITY	
PSYC 70950	HISTORY AND CONTEMPORARY SYSTEMS	3
PSYC 71054	LEARNING AND CONDITIONING	3
or PSYC 71350	PHYSIOLOGICAL PSYCHOLOGY	
PSYC 71580	SOCIAL PSYCHOLOGY	3
PSYC 71651	QUANTITATIVE STATISTICAL ANALYSIS I	3
or RMS 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	
PSYC 71654	QUANTITATIVE STATISTICAL ANALYSIS II	3
or RMS 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES	
or RMS 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
RMS 85516	QUALITATIVE RESEARCH DESIGN	3
SPSY 77892	ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY	6
SPSY 77998	INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY	4
SPSY 80090	DOCTORAL RESIDENCY SEMINAR	3
SPSY 87987	PROFESSIONAL SEMINAR IN SCHOOL PSYCHOLOGY	3
SPSY 87987	PROFESSIONAL SEMINAR IN SCHOOL PSYCHOLOGY	3
or SPSY 87998	RESEARCH SEMINAR IN SCHOOL PSYCHOLOGY	
SPSY 87992	DOCTORAL INTERNSHIP IN SCHOOL PSYCHOLOGY	12
SPSY 87998	RESEARCH SEMINAR IN SCHOOL PSYCHOLOGY	3
Psychology (PSYC) Elective		3
Culminating Requirement		
SPSY 80199	DISSERTATION I [1]	30
Minimum Total Credit Hours:		**91**

[1] Upon admission to candidacy, each doctoral candidate must register for SPSY 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter, SPSY 80299 each semester until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- The total number of required credit hours in each student's Plan of Study/Residency Plan will vary based on previous graduate coursework, point of entry into the program, program area advisor input and the school psychology program requirements. The minimum requirement for a doctoral degree is 60 credit hours beyond the master's degree. Given the requirements of the accreditation bodies governing Kent State's school psychology degree program, the typical number of required credit hours for the doctoral degree will exceed that of the minimum college requirements.
- Students who enter the program without recent and comprehensive training in school psychology (from a NASP-approved program) and without a school psychology license must complete relevant coursework. The total number of required hours will vary based on point of entry into the program, previous coursework and program advisor input.
- State/Federal background checks are required for all field-based experiences.

Candidacy

Once the student has successfully completed and orally defended their comprehensive exams, they are recommended for doctoral candidacy in line with all other program and college requirements.

Licensure Information

Candidates seeking School Psychologist licensure are required to pass the ETS Praxis II School Psychologist test or the domain specific School Psychology Ohio Assessment for Educators test.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate adequate knowledge and skills associated with both the National Association of School Psychologists' Domains of School Psychology Training and Practice and those domains related to advanced psychological foundations knowledge and research skills as identified by the American Psychological Association (APA).
2. Demonstrate an appropriate level of professional deportment.

Full Description

The Ph.D. degree in School Psychology is committed to a scientist-practitioner model of training, which conceptualizes school psychologists as data-oriented problems solvers and transmitters of psychological knowledge and skill. As such, students draw upon the scientific literature as a primary basis for professional practice and focus their research agendas so as to have meaningful implications for practice. In addition, functioning as a scientist-practitioner meas that professional practice is conducted in ways that are consistent with the scientific method.

Emphasis in training is placed on the provision of services through research-based practice and data-based decision making. Doctoral students gain competencies, not only in the provision of school psychological services to individual children and youth, but also in the promotion and implementation of systemic, preventative educational and mental health systems. Since the program's emphasis is on the application of psychology in applied educational and mental health settings, students are required to demonstrate competence in the substantive content areas of psychological and educational theory; the scientific, methodological and theoretical foundations of practice in school psychology; data-based decision making; intervention design and evaluation; and cultural and individual diversity.

The school psychology doctorate prepares students to work as leaders in applied practice in educational and mental health settings.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Special Education - B.S.E.

College of Education Health and Human Services
School of Lifespan Development and Educational Services
www.kent.edu/ehhs/ldes

About This Program

The Special Education prepares you for a career in teaching and advocating for students with exceptionalities. In the program, you'll specialize in deaf education, disability services or teacher education — the latter leading to a PK-5 or mild-to-intensive dual license. With a focus on evidence-based practices and diverse field experiences, you'll develop the skills needed to become a special education teacher or work in non-school settings supporting children, adolescents and adults. Read more...

Contact Information

- **Sloane Burgess** | sburges8@kent.edu | 330-672-0160
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Special education teachers, kindergarten and elementary school

- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

Special education teachers, secondary school

- 3.2% about as fast as the average
- 143,000 number of jobs
- $62,320 potential earnings

Special education teachers, all other

- 8.5% much faster than the average
- 36,600 number of jobs
- $62,820 potential earnings

Substitute teachers, short-term

- 2.6% slower than the average
- 619,400 number of jobs
- $29,370 potential earnings

Teaching assistants, except postsecondary

- 3.6% about as fast as the average
- 1,395,900 number of jobs
- $28,900 potential earnings

Rehabilitation counselors

- 10.3% much faster than the average
- 120,200 number of jobs
- $37,530 potential earnings

Community and social service specialists, all other

- 11.7% much faster than the average
- 105,200 number of jobs
- $46,770 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Social and human service assistants

- 16.8% much faster than the average
- 425,600 number of jobs
- $35,960 potential earnings

Accreditation

Council for the Accreditation of Educator Preparation (Deaf Education, Mild to Intensive Dual License and Primary Intervention Specialist concentrations only).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Primary Intervention Specialist (PK-5) concentration is pending approval from the Ohio Department of Higher Education. After that final approval, prospective students may apply for admission.

Admission Requirements

Admission to this major is selective. To be admitted directly into the Special Education major, freshmen must have a minimum 2.750 high school GPA, and transfer students must have a minimum 2.750 overall GPA in all previous undergraduate coursework. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

Starting with the fall 2026 admission term, a minimum 2.750 GPA will no longer be required. Admission decisions will be based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade) [1]	3
SPED 43010	FAMILY AND PROFESSIONAL COLLABORATION (min C grade for either course) [1]	3
or SPED 43953	FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	
SPED 43030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES (min C grade) [1]	3
Additional Requirements (courses do not count in major GPA)		
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
UC 10001	FLASHES 101	1
Kent Core Composition (min C grade)		6
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Concentrations		
Choose from the following:		86-91
Deaf Education		
Disability Services		
Mild to Intensive Dual License		
Primary Intervention Specialist		
Minimum Total Credit Hours:		**120-125**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Deaf Education Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I (min C grade)	4
ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II (min C grade)	4
ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I (min C grade)	3
ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II (min B- grade)	3
ECED 40303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I (min C grade)	3
ECED 40401	TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS (min C grade)	3
ECED 40402	TEACHING READERS IN THE ELEMENTARY YEARS (min C grade)	3
SPED 43306	FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS (min C grade)	3
SPED 43307	LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS (min C grade)	3
SPED 43309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC) (min B grade)	3

SPED 43310	LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS (min B grade)	3
SPED 43311	INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS (min B grade)	3
SPED 43313	LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS (min B grade)	6
SPED 43324	CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD-OF-HEARING STUDENTS (min B grade)	3
SPED 43392	PRACTICUM: DEAF EDUCATION (ELR) (course is taken twice) [1]	2
SPED 44492	STUDENT TEACHING IN SPECIAL EDUCATION (ELR) (S grade) [1]	4-9
SPED 48880	DEAF EDUCATION TEACHING LABORATORY (course is taken three times)	3
SPED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE (min C grade)	3
Additional Requirements (courses do not count in major GPA)		
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
HED 42575	HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS (min C grade)	3
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR) (min C grade)	4
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR) (min C grade)	4
Kent Core Humanities and Fine Arts (minimum one course from each)		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Additional		2
Minimum Total Credit Hours:		**89**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Disability Services Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
CULT 26001	INTRODUCTION TO DISABILITY STUDIES (min C grade)	3
CULT 46001	PRINCIPLES AND METHODS OF COMMUNITY INCLUSION (min C grade)	3
NURS 45070	HEALTH CARE NEEDS FOR INDIVIDUALS WITH DISABILITIES (min C grade)	3
SPED 24000	INCLUSIVE PRACTICES (min C grade)	3
SPED 43050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS (min C grade)	3
SPED 43051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS (min C grade)	3
SPED 43062	CURRICULUM METHODS MILD/MODERATE INTERVENTION (min C grade)	3
SPED 43063	CURRICULUM METHODS MODERATE/ INTENSIVE INTERVENTION (min C grade)	3
SPED 43070	PLANNING AND PROGRAMMING FOR TRANSITIONS (min C grade)	3
SPED 43080	ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES (min C grade)	3
SPED 43309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC) (min C grade)	3
SPED 44092	FIELD EXPERIENCE 1 FOR INTERVENTION SPECIALISTS (ELR) (S grade)	3
SPED 44192	FIELD EXPERIENCE 2 FOR INTERVENTION SPECIALISTS (ELR) (S grade)	3
SPED 44309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS (min C grade)	3
Additional Requirements (courses do not count in major GPA)		
MATH 10041	INTRODUCTORY STATISTICS (KMCR) (minimum C grade in each)	4
or MATH 10051	QUANTITATIVE REASONING (KMCR)	
or MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	3
Kent Core Humanities and Fine Arts (minimum one course from each)		3
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		25
Minimum Total Credit Hours:		**86**

Mild to Intensive Dual License Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ECED 40303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I (min C grade)	3
ECED 40402	TEACHING READERS IN THE ELEMENTARY YEARS (min C grade)	3
ECED 40403	TEACHING WRITERS IN THE ELEMENTARY YEARS (WIC) (min C grade)	3
NURS 45070	HEALTH CARE NEEDS FOR INDIVIDUALS WITH DISABILITIES (min C grade)	3
SPA 34210	SPEECH AND LANGUAGE DEVELOPMENT (min C grade)	3
SPED 24000	INCLUSIVE PRACTICES (min C grade)	3
SPED 43021	ASSESSMENT FOR SPECIAL EDUCATION (min C grade)	3
SPED 43031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION (min C grade) [1]	3
SPED 43040	LANGUAGE AND READING IN SPECIAL EDUCATION (min C grade)	3
SPED 43042	INTENSIVE READING INTERVENTIONS AND PHONICS (min C grade)	3
SPED 43050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS (min C grade) [1]	3
SPED 43051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS (min C grade) [1]	3
SPED 43062	CURRICULUM METHODS MILD/MODERATE INTERVENTION (min C grade)	3
SPED 43063	CURRICULUM METHODS MODERATE/ INTENSIVE INTERVENTION (min C grade)	3
SPED 43070	PLANNING AND PROGRAMMING FOR TRANSITIONS (min C grade)	3
SPED 43080	ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES (min C grade) [1]	3

SPED 44092	FIELD EXPERIENCE 1 FOR INTERVENTION SPECIALISTS (ELR) (S grade) [1]	3
SPED 44192	FIELD EXPERIENCE 2 FOR INTERVENTION SPECIALISTS (ELR) (S grade) [1]	3
SPED 44309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS (min C grade)	3
SPED 44492	STUDENT TEACHING IN SPECIAL EDUCATION (ELR) (S grade) [1]	4-9
SPED 44951	CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC) (min C grade)	3
SPED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE (min C grade)	3
Additional Requirements (courses do not count in major GPA)		
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR) (min C grade)	4
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR) (min C grade)	4
Kent Core Humanities and Fine Arts (minimum one course from each)		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Additional		2
Minimum Total Credit Hours:		**91**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Primary Intervention Specialist

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I (min C grade)	4
ECED 30201	TEACHING EARLY READERS (min C grade)	3
ECED 30202	MATHEMATICS AND SCIENCE IN THE EARLY YEARS (min C grade)	3
ECED 40401	TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS (min C grade)	3
ECED 40402	TEACHING READERS IN THE ELEMENTARY YEARS (min C grade)	3
ECED 40403	TEACHING WRITERS IN THE ELEMENTARY YEARS (WIC) (min C grade)	3
SPA 34210	SPEECH AND LANGUAGE DEVELOPMENT (min C grade)	3
SPED 24000	INCLUSIVE PRACTICES (min C grade)	3
SPED 43040	LANGUAGE AND READING IN SPECIAL EDUCATION (min C grade)	3
SPED 43042	INTENSIVE READING INTERVENTIONS AND PHONICS (min C grade)	3
SPED 43062	CURRICULUM METHODS MILD/MODERATE INTERVENTION (min C grade)	3
SPED 43950	CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES (min C grade)	3
SPED 43954	PRACTICAL APPLICATION: TEAMING (min C grade)	3
SPED 43955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN (min C grade)	3
SPED 43964	ASSESSMENT AND EVALUATION IN EARLY INTERVENTION AND EARLY CHILDHOOD SPECIAL EDUCATION (min C grade)	3
SPED 44092	FIELD EXPERIENCE 1 FOR INTERVENTION SPECIALISTS (ELR) (S grade)	3
SPED 44192	FIELD EXPERIENCE 2 FOR INTERVENTION SPECIALISTS (ELR) (S grade)	3
SPED 44309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS (min C grade)	3
SPED 44492	STUDENT TEACHING IN SPECIAL EDUCATION (ELR) (S grade)	9
SPED 44951	CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC) (min C grade)	3
SPED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE (min C grade)	3
Additional Requirements		
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR) (min C grade)	4
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR) (min C grade)	4
Kent Core Humanities and Fine Arts (minimum one course from each)		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Additional		2
Minimum Total Credit Hours:		**89**

Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State-approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12-month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

Students completing the Disability Services concentration will not be eligible for licensure.

Progression Requirements

For students seeking teacher education licensure, admission to advanced study is required prior to enrolling in select upper-division education courses. Students must meet all professional requirements for admission to advanced study and have a minimum 2.750 overall GPA[1].

For students in the non-licensure concentration, admission into the professional phase is required prior to enrolling in select upper-division courses. Successful completion of 60 credit hours with a minimum 2.750 overall GPA[1] is required for admittance into the professional phase of the major.

To manage enrollment and deliver high-quality programs, the faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA[1]) at Kent State University, non-academic criteria and other specific program criteria.

Please be aware that reapplication may be necessary if postponing advanced study coursework or if withdrawing for one year or more.

[1] Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	2.750

- To graduate, students in the Deaf Education concentration must pass the Sign Language Proficiency Interview (SLPI) at the intermediate level or receive a minimum Level 2 on the American Sign Language Proficiency Interview (ASLPI).

Primary Intervention Specialist (PK-5) is pending approval from the Ohio Department of Higher Education. After that final approval, prospective students may apply for admission.

Roadmaps

Deaf Education Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	4
!	MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Two		
!	ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II	4
!	MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
!	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	First Summer Term		
	If students are placed into developmental math courses in the first two semesters, it is suggested that MATH 14001 and/or MATH 14002 be taken during the summer.		
		Credit Hours	**0**
	Semester Three		
	Requirement: minimum 2.750 overall GPA by end of term		
!	ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	SPED 43306	FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS	3
	SPED 43309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Four		
	Requirement: 2.750 overall GPA. Note: Apply for Advanced Study Janaury 1 - February 1.		
!	ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II	3
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	ETEC 39525	EDUCATIONAL TECHNOLOGY	3
	SPED 43307	LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	Requirement: minimum 2.750 overall GPA		
	ECED 40303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I	3
	ECED 40401	TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS	3
	SPED 43010 or SPED 43953	FAMILY AND PROFESSIONAL COLLABORATION or FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
	SPED 43310	LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS	3
	SPED 48880	DEAF EDUCATION TEACHING LABORATORY	1
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Six		
	Requirement: minimum 2.750 overall GPA		
	ECED 40402	TEACHING READERS IN THE ELEMENTARY YEARS	3
!	SPED 43030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
!	SPED 43313	LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS	6
!	SPED 43392	PRACTICUM: DEAF EDUCATION (ELR)	1
	SPED 48880	DEAF EDUCATION TEACHING LABORATORY	1
		Credit Hours	**14**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA. Note: successful completion of the Sign Language Proficiency Interview (SLPI) at Intermediate level or above and successful completion of all CAEP assessments		
	HED 42575	HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS	3
!	SPED 43311	INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS	3
!	SPED 43324	CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD-OF-HEARING STUDENTS	3
!	SPED 43392	PRACTICUM: DEAF EDUCATION (ELR)	1
	SPED 48880	DEAF EDUCATION TEACHING LABORATORY	1
	Kent Core Requirement		3
	Kent Core Requirement		2
		Credit Hours	**16**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA and 3.000 major GPA upon graduation.		
	SPED 44492	STUDENT TEACHING IN SPECIAL EDUCATION (ELR)	9

	SPED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**123**

Disability Services Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	MATH 10041 or MATH 10051 or MATH 14001	INTRODUCTORY STATISTICS (KMCR) or QUANTITATIVE REASONING (KMCR) or BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
!	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
!	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	3
	SPED 43050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	Requirement: minimum 2.750 overall GPA by end of term		
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
!	SPED 43051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	Requirement: minimum 2.750 cumulative GPA. Apply online for Professional Phase January 1 - February 1.		
	SPED 24000	INCLUSIVE PRACTICES	3
!	SPED 44092	FIELD EXPERIENCE 1 FOR INTERVENTION SPECIALISTS (ELR)	3
	SPED 44309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	Requirement: minimum 2.750 cumulative GPA.		
!	CULT 26001	INTRODUCTION TO DISABILITY STUDIES	3
!	SPED 43030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
!	SPED 43062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
	General Electives		6
		Credit Hours	**15**
	Semester Six		
	Requirement: minimum 2.750 cumulative GPA.		
	CULT 46001	PRINCIPLES AND METHODS OF COMMUNITY INCLUSION	3
!	SPED 43063	CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION	3
!	SPED 43080	ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES	3
!	SPED 44192	FIELD EXPERIENCE 2 FOR INTERVENTION SPECIALISTS (ELR)	3
	General Elective		3
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.750 cumulative GPA.		
	NURS 45070	HEALTH CARE NEEDS FOR INDIVIDUALS WITH DISABILITIES	3
	SPED 43010 or SPED 43953	FAMILY AND PROFESSIONAL COLLABORATION or FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
	SPED 43070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
	SPED 43309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC)	3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
	Requirement: minimum 2.750 cumulative GPA; 3.000 major GPA upon graduation.		
	General Electives		13
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

Mild to Intensive Dual License Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
!	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
!	MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
!	SPED 43050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**

	First Summer Term		
	If students are placed in developmental math courses in the first two semesters, it is suggested that MATH 14001 and/or MATH 14002 be taken during the summer.		
		Credit Hours	**0**
	Semester Three		
	Requirement: minimum 2.750 overall GPA by end of term		
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
!	SPED 43051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Four		
	Requirement: 2.750 overall GPA. Note: Apply for Advanced Study January 1 - February 1.		
	SPA 34210	SPEECH AND LANGUAGE DEVELOPMENT	3
	SPED 24000	INCLUSIVE PRACTICES	3
!	SPED 44092	FIELD EXPERIENCE 1 FOR INTERVENTION SPECIALISTS (ELR)	3
	SPED 44309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS	3
	Kent Core Requirement		3
	Kent Core Requirement		2
		Credit Hours	**17**
	Second Summer Term		
	It is suggested that students take any Kent Core courses missing from semesters 1-4 during the summer.		
		Credit Hours	**0**
	Semester Five		
	Requirement: minimum 2.750 overall GPA. Note: Apply for Student Teaching.		
	SPED 43010 or SPED 43953	FAMILY AND PROFESSIONAL COLLABORATION or FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
!	SPED 43021	ASSESSMENT FOR SPECIAL EDUCATION	3
!	SPED 43030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
!	SPED 43040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
	SPED 43042	INTENSIVE READING INTERVENTIONS AND PHONICS	3
!	SPED 43062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
		Credit Hours	**18**
	Semester Six		
	Requirement: minimum 2.750 overall GPA		
	ECED 40303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I	3
	ECED 40402	TEACHING READERS IN THE ELEMENTARY YEARS	3
!	SPED 43031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION	3
!	SPED 43063	CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION	3
!	SPED 44192	FIELD EXPERIENCE 2 FOR INTERVENTION SPECIALISTS (ELR)	3
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA		
	ECED 40403	TEACHING WRITERS IN THE ELEMENTARY YEARS (WIC)	3
	SPED 43070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
	SPED 43080	ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES	3
	SPED 44951	CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC)	3
	NURS 45070	HEALTH CARE NEEDS FOR INDIVIDUALS WITH DISABILITIES	3
		Credit Hours	**15**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA and minimum 3.000 major GPA upon graduation.		
	SPED 44492	STUDENT TEACHING IN SPECIAL EDUCATION (ELR)	9
	SPED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**125**

Primary Intervention Specialist Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Two		
	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
!	MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
!	SPED 43955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	4
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
	Requirement: 2.750 overall GPA. Note apply for Advanced Study Janaury 1- February 1.		
!	SPA 34210	SPEECH AND LANGUAGE DEVELOPMENT	3
	SPED 24000	INCLUSIVE PRACTICES	3

!	SPED 44092	FIELD EXPERIENCE 1 FOR INTERVENTION SPECIALISTS (ELR)	3
	SPED 44309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		2
		Credit Hours	**20**
	Semester Five		
	Requirement: 2.750 overall GPA.		
	ECED 30201	TEACHING EARLY READERS	3
!	SPED 43030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
!	SPED 43040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
	SPED 43042	INTENSIVE READING INTERVENTIONS AND PHONICS	3
!	SPED 43954	PRACTICAL APPLICATION: TEAMING	3
		Credit Hours	**15**
	Semester Six		
	ECED 30202	MATHEMATICS AND SCIENCE IN THE EARLY YEARS	3
!	SPED 43062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
	SPED 43953 or SPED 43010	FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD or FAMILY AND PROFESSIONAL COLLABORATION	3
!	SPED 43964	ASSESSMENT AND EVALUATION IN EARLY INTERVENTION AND EARLY CHILDHOOD SPECIAL EDUCATION	3
!	SPED 44192	FIELD EXPERIENCE 2 FOR INTERVENTION SPECIALISTS (ELR)	3
		Credit Hours	**15**
	Semester Seven		
	Requirement: 2.750 overall GPA.		
	ECED 40401	TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS	3
	ECED 40402	TEACHING READERS IN THE ELEMENTARY YEARS	3
	ECED 40403	TEACHING WRITERS IN THE ELEMENTARY YEARS (WIC)	3
	SPED 43950	CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES	3
!	SPED 44951	CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC)	3
		Credit Hours	**15**
	Semester Eight		
	Requirement: 2.750 overall GPA; 3.00 major GPA upon graduation.		
	SPED 44492	STUDENT TEACHING IN SPECIAL EDUCATION (ELR)	9
	SPED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**123**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Engage in professional learning and practice within ethical guidelines.
2. Understand and address individual developmental and learning needs.
3. Demonstrate subject matter content and specialized knowledge.
4. Use assessment to understand the learner and the learning environment for data-based decision making.
5. Support learning using effective instruction.
6. Support social, emotional and behavioral growth.
7. Collaborate with team members.
8. Demonstrate the dispositions necessary to be successful special educational teachers or professionals.
9. Demonstrate their preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessments required for their Special Education License

type or being admitted to a graduate degree program or obtaining employment in a disability services field.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity
- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:
  - MATH 14001 (or equivalent)
  - MATH 14002
- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following courses (i.e., both courses must be completed with a minimum C grade for graduation):
  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration (minimum C grade) to be eligible for advanced study. Students should meet with their advisor.
- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science, Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.
- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced

study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas: pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

Primary Intervention Specialist (PK-5) concentration is pending approval from the Ohio Department of Higher Education. After that final approval, prospective students may apply for admission.

A Bachelor of Science in Education degree in Special Education prepares students to become special education teachers (also referred to as intervention specialists) or to work with individuals with disabilities in non-school settings.

Special educators teach individuals with many kinds of disabilities including learning disabilities, emotional and behavioral disorders, ADHD/other health impairments, intellectual disabilities, autism spectrum disorder, hearing impairments and multiple disabilities.

Special educators may co-teach with general education teachers in academic classrooms, teach small groups of students in a resource room, or teach students individually in highly specialized classrooms or programs designed specifically to meet the needs of students with disabilities. Special education majors who do not want to become teachers often will work with children, adolescents and adults with disabilities in community, residential and/or vocational settings.

The Special Education major comprises the following concentrations:

- The **Deaf Education** concentration prepares candidates to work with deaf and hard-of-hearing students across inclusion, itinerant, resource room and self-contained public and residential classroom settings. Extensive field and teaching lab experiences optimize this preparation in combination with coursework in literacy, mathematics, science and social studies that help prepare students to take specific assessments to become designated as "highly qualified" teachers in deaf education, reading and mathematics. Instructional methods are comprehensive in nature and provide the unique strategies necessary to address issues concomitant with hearing loss, including language development in both English and American Sign Language,

use of bilingual-bicultural methodologies and various assistive and instructional technologies. The hierarchical coursework sequence concludes with thematic unit instruction that prepares graduates to work with the core curriculum to address all academic content areas, as well as transition and students with additional needs. Graduates are eligible to apply for Ohio licensure to teach deaf and hard-of-hearing students in prekindergarten to 12th grade.

- The **Disability Services** concentration prepares students to work with individuals with disabilities who have a wide variety of support needs in a broad array of settings (e.g., vocational, residential, community). Students in this concentration progress through highly-structured coursework and field experiences to learn evidence-based practices to teach leisure, social, adaptive and life skills to individuals with disabling conditions. Students who complete this program are **not** eligible for licensure as special educators/intervention specialists in the state of Ohio.
- The **Mild to Intensive Dual License** concentration prepares candidates to work with individuals (kindergarten through age 21) who have a wide variety of support needs in a broad array of settings (e.g., general education classrooms, self-contained classrooms, alternative schools and community-based programs). Candidates in this concentration progress through highly-structured coursework and extensive field experiences to learn evidence-based practices to teach academic, social adaptive and life skills. Successful completion of this program enables candidates to be eligible for licensure in both Mild/Moderate Educational Needs (e.g., learning disabilities emotional and behavioral disorders, ADHD) as well as Moderate/Intensive Educational Needs (e.g., intellectual disabilities, autism spectrum disorders, physical disabilities) through the State of Ohio.
- The **Primary Intervention Specialist (PK-5)** concentration prepares candidates to work with children and students with diverse learning abilities in a variety of special education settings, from pre-kindergarten through grade 5. Teacher candidates in this concentration progress through highly structured coursework and extensive field experiences to learn evidence-based and recommended practices, to team effectively with variety of professionals, to teach academic, social adaptive and self-determination skills, and to work in partnership with families. Completion of the coursework is a prerequisite to being recommended by Kent State University for an initial teaching license in Ohio Primary Intervention Specialist (PK-5), which is granted by the Ohio State Board of Education.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Special Education - Ed.S.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Special Education Ed.S. program provides the knowledge and skills you need to create inclusive and equitable learning environments for all students. With a focus on evidence-based practices and individualized instruction, you'll be prepared to address the unique needs of each student you serve. Join us and become an advocate for exceptional learners, equipped with the tools to provide a high-quality education for all. Read more...

Contact Information

- **Brian Barber** | bbarber8@kent.edu | 330-672-0605
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Mostly online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Community and social service specialists, all other

- 11.7% much faster than the average
- 105,200 number of jobs
- $46,770 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Accreditation

The Council of Education of the Deaf

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Minimum 2.750 graduate GPA on a 4.000-point scale (minimum 3.250 GPA is recommended) *starting with spring 2026 admission term, minimum 3.000 GPA will be required*
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Program Elective [1]		3
Statistics and Research Design Elective, choose from the following: [1]		3
RMS 75510	STATISTICS I FOR EDUCATIONAL SERVICES	
RMS 75610	CLASSROOM ASSESSMENT	
RMS 85516	QUALITATIVE RESEARCH DESIGN	
SPED 63300	RESEARCH APPLICATIONS IN SPECIAL EDUCATION	
Major Area of Study Electives, choose from the following: [1]		12
SPED 73030	PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION	
SPED 73950	CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES	
SPED 73956	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	
SPED 73957	ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES	
SPED 73996	INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION	
SPED 74200	CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION	
SPED 80002	ANALYSIS OF THE LITERATURE IN SPECIAL EDUCATION	
SPED 80005	EMPIRICAL INVESTIGATIONS IN SPECIAL EDUCATION	
SPED 83201	CONTEMPORARY ISSUES IN SPECIAL EDUCATION	
Minor Area of Study Electives, choose from the following: [1]		12
CES 78011	FOUNDATIONS OF SCHOOL COUNSELING	
CES 77531	COUNSELING SKILLS AND TECHNIQUES	
CES 78182	CAREER COUNSELING	
EDLE 76542	PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION	
EPSY 75520	CHILD AND ADOLESCENT DEVELOPMENT	
EPSY 75524	LEARNING THEORIES	
RMS 78807	PROGRAM EVALUATION	
SPED 73204	LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION	
Minimum Total Credit Hours:		**30**

[1] All electives, including additional coursework, must be approved by the student's Ed.S. degree committee.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Upon admission to the Ed.S. degree program, students will be assigned an advisor.
- Minimum 6 credit hours of coursework in statistics and research design are required.

Program Learning Outcomes

Graduates of the program will be able to:

1. Attain the background knowledge and critical thinking skills necessary to advance their ability to identify and plan evidence-based educational practices for exceptional learners.
2. Increase their proficiency with the pedagogical and decision-making skills necessary to implement evidence-based educational practices for exceptional learners.
3. Attain an appropriate level of expertise in methods of assessment relevant to providing special education to exceptional learners in schools.
4. Articulate professional positions on critical legal, policy and practice issues in special education that are grounded in logical analysis, empirical research and the ethical foundations of the field.

Full Description

The Educational Specialist degree in Special Education provides an advanced degree in specialized areas of educational programming for children and youth with exceptionalities. The program meets the needs of post-master's degree students who wish to assume leadership roles in schools and agencies that provide special education and related services to children, youth and adults who have disabilities.

The Ed.S. degree is designed for the accomplished, experienced practitioner with specific professional aspirations. The program is not

designed for those who wish to pursue a research emphasis as a prelude to doctoral study.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Special Education - M.Ed.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Special Education M.Ed. program provides a deep understanding of special education practices and prepares you to excel as an educator. Join us and make a difference in the lives of students. Read more...

Contact Information

- **Karen Kritzer** | (Deaf Education concentration) | kkritzer@kent.edu | 330-672-2294
- **Sanna Harjusola-Webb** | (Early Childhood Intervention Specialist and Pre-Kindergarten Special Needs concentrations) | shwebb@kent.edu | 330-672-0585
- **Ching I Chen** | (Early Childhood Intervention Specialist and Pre-Kindergarten Special Needs concentrations) | cchen46 | 330-672-0609
- **Sloane Burgess** | (General Special Education concentration) | sburges8@kent.edu | 330-672-0160
- **Nathan Stevenson** | (Mild/Moderate Educational Needs concentration) | nsteve15@kent.edu | 330-672-2294
- **Rob Cimera** | (Moderate/Intensive Educational Needs and Transition to Work concentrations) | rcimera@kent.edu | 330-672-2294
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Online (General Special Education concentration only)
  - Mostly online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Community and social service specialists, all other

- 11.7% much faster than the average
- 105,200 number of jobs
- $46,770 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Special education teachers, kindergarten and elementary school

- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

Special education teachers, middle school

- 2.6% slower than the average
- 84,700 number of jobs
- $61,820 potential earnings

Special education teachers, preschool

- 8.3% much faster than the average
- 23,000 number of jobs
- $61,400 potential earnings

Special education teachers, secondary school

- 3.2% about as fast as the average
- 143,000 number of jobs
- $62,320 potential earnings

Accreditation

The Deaf Education concentration is accredited by the Council of Education of the Deaf.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation

- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
SPED 63201	CONTEMPORARY ISSUES IN SPECIAL EDUCATION	3
SPED 63204	LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION	3
SPED 63300	RESEARCH APPLICATIONS IN SPECIAL EDUCATION	3
Multidisciplinary Elective, choose from the following:		3
CES 67712	ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING	
CULT 69522	ETHICS IN PROFESSIONAL PRACTICE	
RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	
RMS 68807	PROGRAM EVALUATION	
SPED 53309	INTRODUCTION TO DEAF STUDIES [1]	
SPED 63030	PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION	
SPED 63956	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	
SPSY 67973	CONSULTATION IN THE HELPING PROFESSIONS	
Any other graduate-level courses agreed upon by faculty advisor		
Concentrations		
Choose from the following:		18-24
Deaf Education		
Early Child Interventional Specialist		
General Special Education		
Mild/Moderate Educational Needs		
Moderate/Intensive Educational Needs		
Pre-Kindergarten Special Needs		
Minimum Total Credit Hours:		**30-36**

[1] Students in the Deaf Education concentration should not take SPED 53309.

Deaf Education Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
Deaf Education Electives, as approved by advisor		15
Minimum Total Credit Hours:		**18**

Early Childhood Intervention Specialist Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
SPED 63301	SINGLE SUBJECT RESEARCH METHODS	3
Early Childhood Intervention Electives, as approved by advisor		15
Minimum Total Credit Hours:		**18**

General Special Education Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
SPED 63301	SINGLE SUBJECT RESEARCH METHODS	3
General Electives, as approved by advisor		15
Minimum Total Credit Hours:		**18**

Mild/Moderate Educational Needs Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
SPED 63301	SINGLE SUBJECT RESEARCH METHODS	3
Mild/Moderate Educational Needs Electives, as approved by advisor		15
Minimum Total Credit Hours:		**18**

Moderate/Intensive Educational Needs Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
SPED 63301	SINGLE SUBJECT RESEARCH METHODS	3
Moderate/Intensive Educational Needs Electives, as approved by advisor		15
Minimum Total Credit Hours:		**18**

Pre-Kindergarten Special Needs Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
SPED 53950	CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES	3
or SPED 63958	EARLY CHILDHOOD INTERVENTION METHODS	
SPED 63952	FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
SPED 63953	PRACTICAL APPLICATIONS:BIRTH TO FIVE	3
SPED 63955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	3

SPED 63956	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	3
SPED 63957	ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES	3
SPED 64892	ADVANCED PRACTICUM	3
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
Minimum Total Credit Hours:		**24**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students have six years from the term of first enrollment to complete the degree.
- Students in the Deaf Education concentration must also pass the Sign Language Proficiency Interview (SLPI) at the intermediate level for graduation.
- Students seeking a Reading Endorsement must see their advisor before beginning ANY coursework.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of the program will be able to:

1. Develop advanced skills in designing, implementing and evaluating research-based practices that meet the special education needs of learners with disabilities.
2. Understand the conceptual underpinnings of special education, as well as policies that guide its implementation in school and community settings.
3. Analyze contemporary issues surrounding special education and the impact of exceptionality on individuals and their families.
4. Understand the roles that research plays in special education theory.
5. Demonstrate mastery of special education content within a particular specialization (e.g., mild/moderate, deaf education).

Full Description

The Master of Education degree in Special Education provides students with advanced understanding of contemporary research and practice issues in special education. Students in the program are typically interested in pursuing enhanced professional competence, career advancement, leadership roles, advocacy and systems change; or they may be wanting to prepare for doctoral-level study. Students do not need to have an undergraduate degree in special education (or in education) to be successful in the master's degree; however, they should be motivated to develop a deeper understanding of the field of special education.

The M.Ed. degree program does not prepare students for teacher licensure; however, some of the coursework required for the degree may count toward licensure. Students interested in both licensure and a M.Ed. degree will need to apply and be fully admitted into both the master's degree and the non-degree graduate licensure preparation program.

The Special Education major comprises the following concentrations:

- The **Deaf Education** concentration focuses on needs of students who are deaf or hard of hearing.
- The **Early Childhood Intervention Specialist** concentration focuses on needs of young children with or at risk for developmental delays or disabilities, birth to grade 5 (birth to age 10) and their families.
- The **General Special Education** concentration provides a broad focus on special education across all ages and types of student needs. Students work with a graduate adviser to develop a personalized plan of study.
- The **Mild/Moderate Educational Needs** concentration focuses on needs of students with mild to moderate educational needs who most often participate in the general education academic curriculum with special education supports.
- The **Moderate/Intensive Educational Needs** concentration focuses on students with moderate to intensive educational needs who most often require modifications to the general academic curriculum and/or other extensive special education supports.
- The **Pre-Kindergarten Special Needs** concentration focuses on the needs of preschool children with or at risk for developmental delays or disabilities.

Special Education - Ph.D.

College of Education Health and Human Services
School of Lifespan Development and Educational Sciences
www.kent.edu/ehhs/ldes

About This Program

The Special Education Ph.D. program offers rigorous coursework and research opportunities to help you become a leader in the field. Apply now and make an impact in special education. Read more...

Contact Information

- **Brian Barber** | bbarber8@kent.edu | 330-672-0605
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Mostly online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education administrators, all other

- 8.1% much faster than the average
- 52,100 number of jobs
- $87,580 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Community and social service specialists, all other

- 11.7% much faster than the average
- 105,200 number of jobs
- $46,770 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Social scientists and related workers, all other

- 0.8% little or no change
- 38,800 number of jobs
- $87,260 potential earnings

Special education teachers, all other

- 8.5% much faster than the average
- 36,600 number of jobs
- $62,820 potential earnings

Accreditation

The Ph.D. degree in Special Education is accredited by the Council of Education of the Deaf for coursework that focuses on deaf education.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Minimum 2.750 graduate GPA on a 4.000-point scale (minimum 3.500 GPA is recommended) *starting with spring 2026 admission term, minimum 3.000 GPA will be required*
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
SPED 70092	COLLEGE TEACHING AND PRACTICUM	3
SPED 80001	SPECIAL EDUCATION RESIDENCY	3
SPED 80002	ANALYSIS OF THE LITERATURE IN SPECIAL EDUCATION	3
SPED 80003	IMPLEMENTATION SCIENCE IN SPECIAL EDUCATION	3
SPED 80005	EMPIRICAL INVESTIGATIONS IN SPECIAL EDUCATION	3
SPED 80040	RESEARCH GRANT DEVELOPMENT FOR DISABILITY PROGRAMS	3
SPED 83201	CONTEMPORARY ISSUES IN SPECIAL EDUCATION	3
SPED 83301	SINGLE-SUBJECT RESEARCH METHODS	3
Major Electives, choose from the following:		12
RMS 75510	STATISTICS I FOR EDUCATIONAL SERVICES	
RMS 78710	INTRODUCTION TO MEASUREMENT	
RMS 78716	STATISTICS II: ANOVA AND NONPARAMETRIC TESTS	
RMS 78728	MULTIPLE REGRESSION	
RMS 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	
RMS 85516	QUALITATIVE RESEARCH DESIGN	
RMS 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES	
RMS 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
RMS 88791	SEMINAR: EVALUATION AND MEASUREMENT	
SPED 73204	LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION	
SPED 83991	SEMINAR IN SPECIAL EDUCATION	
SPED 83998	RESEARCH:SPECIAL EDUCATION [1]	
Culminating Requirement		
SPED 80199	DISSERTATION I [2]	30
Minimum Total Credit Hours:		**66**

[1] Research topic for SPED 83998 must be approved by and registered with a specific faculty member and approved by advisory committee.

[2] Upon admission to candidacy, each doctoral candidate must register for SPED 80199. It is expected that a doctoral candidate will

continuously register for Dissertation I for a total of 30 credit hours, and thereafter SPED 80299 each semester until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- After admission to the Ph.D. degree program, students plan a program of study with their respective faculty advisory committee, headed by their advisor.
- Students' programs may include at least one appropriate graduate-level minor or cognate as well as the major.

Program Learning Outcomes

Graduates of the program will be able to:

1. Formulate ideas, concepts, designs and/or techniques within and beyond the current boundaries of knowledge and practice in the field of special education; demonstrate breadth within their learning experiences.
2. Articulate research problems, potentials and limits with respect to theory knowledge or practice in the field of special education; create research and scholarship that makes a substantive contribution to the field.
3. Share knowledge and research in the field of special education with students in a clear and engaging manner; effectively communicate with students within and outside of class; advance contributions of the field of special education to society.
4. Communicate complex ideas in a clear and understandable manner to a variety of audiences.
5. Demonstrate the ability to work well with others, participate in professional organizations and adhere to ethical standards of research protocol and professional behavior.

Full Description

The Ph.D. degree in Special Education is designed to prepare highly qualified, experienced persons for academic faculty and research positions in colleges, universities and research centers, in addition to leadership, administrative and advocacy positions. The program enables students to master a comprehensive field of emphasis in special education; employ intellectual and innovative methods for addressing the needs of exceptional children, youth and adults; and acquire a breadth of understanding of related disciplines that focus on the professional roles of college teaching, research, administration and clinical-, educational- and agency-based services for individuals with exceptionalities.

Students participate in research studies, learn methods for conducting research and design independent and collaborative studies in their specialty area. In addition to conceptualizing, designing, implementing and interpreting research, all doctoral students are also expected to demonstrate competence in teaching at the college level during their doctoral training.

Special Education Deaf Education Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Services
www.kent.edu/ehhs/ldes

About This Program

The Special Education Deaf Education Additional Licensure Preparation program is designed for educators who already have a teaching license, this program will give you the knowledge and skills you need to work with students who are deaf or hard of hearing. You'll learn about communication strategies, assistive technology and other tools that can help these students succeed in the classroom and beyond. Read more...

Contact Information

- **Karen Kritzer** | kkritzer@kent.edu | 330-672-0608
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Special education teachers, all other

- 8.5% much faster than the average
- 36,600 number of jobs
- $62,820 potential earnings

Special education teachers, kindergarten and elementary school

- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

Special education teachers, middle school

- 2.6% slower than the average
- 84,700 number of jobs
- $61,820 potential earnings

Special education teachers, preschool

- 8.3% much faster than the average
- 23,000 number of jobs
- $61,400 potential earnings

Special education teachers, secondary school

- 3.2% about as fast as the average
- 143,000 number of jobs
- $62,320 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Evidence of valid Resident Educator or Professional State of Ohio teaching license

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Prerequisites		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	
ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II	
Licensure Requirements (min C/S grade required in all courses)		
ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I	3
ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II	3
SPED 53010	FAMILY AND PROFESSIONAL COLLABORATION	3
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 53306	FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS	3
SPED 53307	LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS	3
SPED 53309	INTRODUCTION TO DEAF STUDIES	3
SPED 53310	LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS	3
SPED 53311	INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS	3
SPED 53313	LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS	6
SPED 53324	CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD OF HEARING STUDENTS	3
SPED 58880	DEAF EDUCATION TEACHING LABORATORY (taken three times for 3 credit hours total)	3
SPED 63392	PRACTICUM IN DEAF EDUCATION (taken two times for 2 credit hours total)	2
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION	4
Minimum Total Credit Hours:		**45**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Successful completion of the Sign Language Proficiency Interview (SLPI) at the Intermediate level or above.
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum B grade is required in each of these courses. This coursework would be in addition to requirements for the Special Education Deaf-Education non-degree program.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Demonstrate knowledge of
   a. learner development and individual learning differences;
   b. the learning environment
   c. curricular content knowledge;
   d. assessment;
   e. instructional planning and strategies; and
   f. professional practice and collaboration.
2. Demonstrate the dispositions necessary to be successful special education teachers/professionals.
3. Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessment.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

This Special Education Deaf Education Additional Licensure Preparation non-degree program prepares teachers with an active teaching license to obtain an additional license in to teach deaf and hard-of-hearing students ages 3-21 (grades preK-12).

Completion of the coursework is a prerequisite to being recommended by Kent State University for the Special Education Deaf Education (Ohio Intervention Specialist Hearing Impaired) licensure, with licenses granted by the Ohio Department of Education.

This program does not culminate in a master's degree. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted to a master's degree and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for additional licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Special Education Deaf Education Initial Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Services
www.kent.edu/ehhs/ldes

About This Program

The Special Education Deaf Education Initial Licensure Preparation program is designed to prepare you for licensure in Ohio, this program provides you with the knowledge and skills needed to teach deaf and hard-of-hearing students. You'll learn to create and implement individualized education plans, use assistive technology and collaborate with families and professionals to create a supportive learning environment. Read more...

Contact Information

- **Karen Kritzer** | ;kkritzer@kent.edu | 330-672-0608
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Special education teachers, all other

- 8.5% much faster than the average
- 36,600 number of jobs
- $62,820 potential earnings

Special education teachers, kindergarten and elementary school

- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

Special education teachers, middle school

- 2.6% slower than the average
- 84,700 number of jobs
- $61,820 potential earnings

Special education teachers, preschool

- 8.3% much faster than the average
- 23,000 number of jobs
- $61,400 potential earnings

Special education teachers, secondary school

- 3.2% about as fast as the average
- 143,000 number of jobs
- $62,320 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form

Applicants are assessed holistically, considering academic credentials, academic or professional references, non-academic criteria and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Priority deadline: July 1
- **Spring Semester**
  - Priority deadline: December 1
- **Summer Term**
  - Priority deadline: April 1

Applications submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Prerequisites		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	
ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II	
Licensure Requirements (min C/S grade required in all courses)		
ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I	3
ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
ECED 50303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I	3
ECED 40401	TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS	3
SPED 53010	FAMILY AND PROFESSIONAL COLLABORATION	3
ECED 50402	TEACHING READERS IN THE ELEMENTARY YEARS	3
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 53306	FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS	3
SPED 53307	LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS	3
SPED 53309	INTRODUCTION TO DEAF STUDIES	3
SPED 53310	LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS	3
SPED 53311	INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS	3
SPED 53313	LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS	6
SPED 53324	CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD OF HEARING STUDENTS	3
SPED 58880	DEAF EDUCATION TEACHING LABORATORY (taken three times for 3 credit hours total)	3
SPED 63392	PRACTICUM IN DEAF EDUCATION (taken twice for 2 credit hours total)	2
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION [1]	8
SPED 69525	INQUIRY PROFESSIONAL PRACTICE	3
Minimum Total Credit Hours:		**64**

[1] Student teaching is taken after completion of all licensure coursework and in conjunction with SPED 69525. Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Successful completion of the Sign Language Proficiency Interview (SLPI) at the Intermediate level (or above) or the American Sign Language Proficiency Interview (ASCPI) at a level of 2 (or above).

Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Demonstrate knowledge of
   a. learner development and individual learning differences;
   b. the learning environment;
   c. curricular content knowledge;
   d. assessment;
   e. instructional planning and strategies; and
   f. professional practice and collaboration.
2. Demonstrate the dispositions necessary to be a successful special education teacher/professional.
3. Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessment.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including

the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Special Education Deaf Education Initial Licensure Preparation non-degree program is designed for individuals who have a bachelor's degree and want to teach deaf and hard-of-hearing students, ages 3-21 (pre-kindergarten to grade 12).

Completion of the coursework is a prerequisite to being recommended by Kent State University for an initial teaching license in Special Education Deaf Education (Ohio Intervention Specialist Hearing Impaired), with a license granted by the Ohio Department of Education.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure. Completing a master's degree in special education and the initial licensure requirements will, in most cases, require an additional 15-18 credit hours.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Special Education Early Childhood (PK-5) Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Services
www.kent.edu/ehhs/ldes

About This Program

The Special Education Early Childhood PK-5 Additional Licensure Preparation program is designed to prepare educators to work with young children with disabilities or developmental delays in inclusive settings. You will learn how to create meaningful learning experiences that promote growth and development while addressing individual student needs. Read more...

Contact Information

- **Sanna Harjusola-Webb** | shwebb@kent.edu | 330-672-0585
  Ching I Chen | cchen46@kent.edu | 330-672-0609
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Special education teachers, preschool

- 8.3% much faster than the average
- 23,000 number of jobs
- $61,400 potential earnings

Special education teachers, kindergarten and elementary school

- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Evidence of valid Resident Educator or Professional State of Ohio teaching license

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (min C/S grade required in all courses)		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	4
SPED 24000	INCLUSIVE PRACTICES	3
SPED 53040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
SPED 53062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
SPED 53950	CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES	3
SPED 63952	FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
SPED 63954	PRACTICAL APPLICATIONS: TEAMING	3
SPED 63955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	3
SPED 63956	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	3
SPED 63957	ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES	3
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION	4
SPED 64892	ADVANCED PRACTICUM	3
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
Minimum Total Credit Hours:		**41**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum B grade is required in each of these courses. This coursework would be in addition to requirements for the Early Childhood Intervention Specialist non-degree program.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to

1. Demonstrate knowledge and skills of:
   a. learner development and individual learning differences;
   b. the learning environment;
   c. curricular content knowledge;
   d. assessment; instructional planning and strategies; and
   e. professional practice and collaboration.
2. Demonstrate the dispositions necessary to be successful special education teachers/professionals.
3. Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE).

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Special Education Early Childhood (PK-5) Additional Licensure Preparation non-degree program prepares students to obtain an additional Ohio Early Childhood Intervention Specialist (PK-5) license. This program is designed for individuals who have a current teaching license and are seeking an additional license to work with young children with diverse learning abilities in a variety of special education settings, from pre-kindergarten through grade 5.

Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for

state licensing boards at Kent State's website for professional licensure disclosure.

Special Education Early Childhood (PK-5) Initial Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Services
www.kent.edu/ehhs/ldes

About This Program

The Special Education Early Childhood (PK-5) Initial Licensure Preparation program prepares students to become licensed special education teachers for young children, providing the knowledge and skills necessary to create effective learning environments for all students. With a combination of coursework and field experiences, students will develop a deep understanding of how to address the unique needs of children with disabilities and promote their academic and social success. Read more...

Contact Information

- **Sanna Harjusola-Webb** | shwebb@kent.edu | 330-672-0585
  Ching I Chen | cchen46@kent.edu |
  330-672-2294
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Special education teachers, preschool

- 8.3% much faster than the average
- 23,000 number of jobs
- $61,400 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form

Applicants are assessed holistically, considering academic credentials, academic or professional references, non-academic criteria and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Priority deadline: July 1
- **Spring Semester**
  - Priority deadline: December 1
- **Summer Term**
  - Priority deadline: April 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (min C/S grade required in all courses)		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	4
ECED 30201	TEACHING EARLY READERS	3
ECED 40401	TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS	3
ECED 50303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I	3
ECED 50403	TEACHING WRITERS IN THE ELEMENTARY YEARS	3
SPED 24000	INCLUSIVE PRACTICES	3
SPED 53040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
SPED 53042	INTENSIVE READING INTERVENTIONS AND PHONICS	3
SPED 53062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
SPED 53950	CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES	3
SPED 63952	FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
SPED 63954	PRACTICAL APPLICATIONS: TEAMING	3
SPED 63955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	3
SPED 63956	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	3
SPED 63957	ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES	3
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION [1]	8
SPED 64892	ADVANCED PRACTICUM	3
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3

SPED 69525	INQUIRY PROFESSIONAL PRACTICE	3
Minimum Total Credit Hours:		**63**

[1] Student teaching is taken after completion of all licensure coursework and in conjunction with SPED 69525. Teacher candidates are only permitted to repeat a field experience course once. See Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Demonstrate knowledge of
   a. learner development and individual learning differences;
   b. the learning environment;
   c. curricular content knowledge;
   d. assessment; instructional planning and strategies; and
   e. professional practice and collaboration.
2. Demonstrate the dispositions necessary to be a successful special education teacher/professional.
3. Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessment.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Special Education Early Childhood (PK-5) Initial Licensure Preparation non-degree program is designed for individuals who hold a bachelor's degree and want to work with young children with diverse learning abilities in a variety of special education settings, from pre-kindergarten through grade 5.

Completion of the coursework is a prerequisite to being recommended by Kent State University for an initial teaching license in Ohio Early Childhood Intervention Specialist (PK-5), which is granted by the Ohio Department of Education.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Special Education Mild/Moderate Needs Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Services
www.kent.edu/ehhs/ldes

About This Program

Special Education Mild-Moderate Needs Additional Licensure Preparation program provides a comprehensive approach to teaching and learning, including specialized instruction, classroom management and assessment. Read more...

Contact Information

- **Nathan Stevenson** | nsteve15@kent.edu | 330-672-2294
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Special education teachers, all other

- 8.5% much faster than the average
- 36,600 number of jobs
- $62,820 potential earnings

Special education teachers, kindergarten and elementary school

- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

Special education teachers, middle school

- 2.6% slower than the average
- 84,700 number of jobs
- $61,820 potential earnings

Special education teachers, secondary school

- 3.2% about as fast as the average
- 143,000 number of jobs
- $62,320 potential earnings

Teaching assistants, except postsecondary

- 3.6% about as fast as the average
- 1,395,900 number of jobs
- $28,900 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Evidence of valid Resident Educator or Professional State of Ohio teaching license

Application Deadline

- **Fall Semester**
  - Priority deadline: July 1
- **Spring Semester**
  - Priority deadline: December 1
- **Summer Term**
  - Priority deadline: April 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (min C/S grade required in all courses)		
SPED 24000	INCLUSIVE PRACTICES	3
SPED 53010	FAMILY AND PROFESSIONAL COLLABORATION	3
SPED 53021	ASSESSMENT FOR SPECIAL EDUCATION	3
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 53031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION	3
SPED 53040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
SPED 53050	CHARACTERISTICS OF STUDENTS WITH MILD/ MODERATE INTERVENTION NEEDS	3
SPED 53062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
SPED 53070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION	4
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
Minimum Total Credit Hours:		**34**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Special Education non-degree program.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. The candidate must earn the qualifying score on the Ohio Assessments for Educators. Students should consult the Special Education Department for specific program requirements and refer to the

Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Demonstrate knowledge of
   a. learner development and individual learning differences;
   b. the learning environment; curricular content knowledge;
   c. assessment;
   d. instructional planning and strategies; and
   e. professional practice and collaboration.
2. Demonstrate the dispositions necessary to be a successful special education teacher/professional.
3. Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessment.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Special Education Mild/Moderate Needs Additional Licensure Preparation non-degree program will prepare students to obtain an additional Special Education Mild/Moderate Educational Needs (Ohio Intervention Specialist) license. This program is designed for individuals who have a current teaching license and want to become licensed through the State of Ohio to teach students with mild/moderate disabilities, grades K-12.

Students with mild/moderate disabilities are distinguished from students with more severe disabilities by greater participation in the general academic curriculum. Mild/moderate disabilities include learning disabilities, emotional and behavioral disorders, ADHD, mild intellectual disabilities and (in certain cases) autism spectrum disorder.

Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure. Completing a master's degree in special education in addition to licensure will in most cases require an additional 15-18 credit hours.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Special Education Mild/Moderate Needs Initial Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Services
www.kent.edu/ehhs/ldes

About This Program

The Special Education Mild/Moderate Needs Initial Licensure Preparation program is designed to provide you with the knowledge and skills necessary to become an effective special education teacher. Read more...

Contact Information

- **Nathan Stevenson** | nsteve15@kent.edu | 330-672-2294
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Special education teachers, all other

- 8.5% much faster than the average
- 36,600 number of jobs
- $62,820 potential earnings

Special education teachers, kindergarten and elementary school

- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

Special education teachers, middle school

- 2.6% slower than the average
- 84,700 number of jobs
- $61,820 potential earnings

Special education teachers, secondary school

- 3.2% about as fast as the average
- 143,000 number of jobs
- $62,320 potential earnings

Teaching assistants, except postsecondary

- 3.6% about as fast as the average
- 1,395,900 number of jobs
- $28,900 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form

Applicants are assessed holistically, considering academic credentials, academic or professional references, non-academic criteria and other specific program dimensions.

Application Deadlines

- **Fall Semester**
  - Priority deadline: July 1
- **Spring Semester**
  - Priority deadline: December 1
- **Summer Term**
  - Priority deadline: April 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (min C grade is required in all courses)		
ECED 50303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
SPED 24000	INCLUSIVE PRACTICES	3
SPED 53010	FAMILY AND PROFESSIONAL COLLABORATION	3
SPED 53021	ASSESSMENT FOR SPECIAL EDUCATION	3
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 53031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION	3
SPED 53040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
SPED 53050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS	3
SPED 53062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
SPED 53070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
SPED 63092	FIELD EXPERIENCE IN SPECIAL EDUCATION	3
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
SPED 53042	INTENSIVE READING INTERVENTIONS AND PHONICS	3
ECED 50402	TEACHING READERS IN THE ELEMENTARY YEARS	3
ECED 50403	TEACHING WRITERS IN THE ELEMENTARY YEARS	3
SPED 69525	INQUIRY PROFESSIONAL PRACTICE	3
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION [1]	8
Minimum Total Credit Hours:		**59**

[1] Student teaching is taken after completion of all licensure coursework and in conjunction with the Inquiry to Professional Practice course. Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Progression Requirements

- Must maintain a minimum 3.000 overall GPA.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. The candidate must earn the qualifying score on the Ohio Assessments for Educators. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Demonstrate knowledge of
   a. learner development and individual learning differences;
   b. the learning environment; curricular content knowledge;
   c. assessment;

   d. instructional planning and strategies; and
   e. professional practice and collaboration.
2. Demonstrate the dispositions necessary to be a successful special education teacher/professional.
3. Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessment.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Special Education Mild/Moderate Needs Initial Licensure Preparation non-degree program is designed for individuals who hold a bachelor's degree and want to teach students with mild/moderate disabilities. These students are distinguished from students with more severe disabilities by greater participation in the general academic curriculum. Mild/moderate disabilities include learning disabilities, emotional and behavioral disorders, ADHD, mild intellectual disabilities and (in certain cases) autism spectrum disorder.

Completion of the coursework is a prerequisite to being recommended by Kent State University for an initial teacher license in Special Education Mild/Moderate Educational Needs (Ohio Intervention Specialist), which is granted by the Ohio Department of Education.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure. Completing a master's degree in special education in addition to licensure will, in most cases, require an additional 15-18 credit hours.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Special Education Moderate/ Intensive Needs Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Services
www.kent.edu/ehhs/ldes

About This Program

The Special Education Moderate-Intensive Needs Additional Licensure Preparation program is designed to prepare you for the unique challenges and opportunities associated with working with students with significant cognitive, physical and/or behavioral disabilities. Read more...

Contact Information

- **Rob Cimera** | rcimera@kent.edu | 330-672-2294
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Special education teachers, all other

- 8.5% much faster than the average
- 36,600 number of jobs
- $62,820 potential earnings

Special education teachers, kindergarten and elementary school

- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

Special education teachers, middle school

- 2.6% slower than the average
- 84,700 number of jobs
- $61,820 potential earnings

Special education teachers, preschool

- 8.3% much faster than the average
- 23,000 number of jobs
- $61,400 potential earnings

Special education teachers, secondary school

- 3.2% about as fast as the average
- 143,000 number of jobs
- $62,320 potential earnings

Teaching assistants, except postsecondary

- 3.6% about as fast as the average
- 1,395,900 number of jobs
- $28,900 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Evidence of valid Resident Educator or Professional State of Ohio teaching license

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (min C/S grade required in all courses)		
SPED 53010	FAMILY AND PROFESSIONAL COLLABORATION	3
SPED 53021	ASSESSMENT FOR SPECIAL EDUCATION	3
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 53031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION	3
SPED 53040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
SPED 53051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS	3
SPED 53063	CURRICULUM METHODS MODERATE/ INTENSIVE INTERVENTION	3
SPED 53070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
SPED 53080	ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES	3
SPED 54309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS	3
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION	4
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
Minimum Total Credit Hours:		**37**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum B grade is required in each of these courses. This coursework would be in addition to requirements for the Special Education Moderate/ Intensive Needs non-degree program.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. The candidate must earn the qualifying score on the Ohio Assessments for Educators. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Demonstrate knowledge of
   a. learner development and individual learning differences;
   b. the learning environment;
   c. curricular content knowledge;
   d. assessment;
   e. instructional planning and strategies; and
   f. professional practice and collaboration.
2. Demonstrate the dispositions necessary to be successful special education teachers/professionals.
3. Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessment.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Special Education Moderate/Intensive Needs Additional Licensure Preparation non-degree program prepares students to obtain an additional Special Education Moderate/Intensive Needs (Ohio Intervention Specialist) license. The program is designed for individuals who have a current teaching license and want to teach students requiring intensive and ongoing special education support. Most often, these will be students with intellectual disabilities, autism spectrum disorder, multiple disabilities and complex health impairments.

Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure. Completing a master's degree in special education in addition to licensure will in most cases require an additional 15-18 credit hours.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Special Education Moderate/ Intensive Needs Initial Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Services
www.kent.edu/ehhs/ldes

About This Program

The Special Education Moderate to Intensive Needs Initial Licensure Preparation program will provide you with the skills and knowledge to help students with disabilities achieve their academic, social and emotional goals. Read more...

Contact Information

- **Rob Cimera** | rcimera@kent.edu | 330-672-2294
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Special education teachers, all other

- 8.5% much faster than the average
- 36,600 number of jobs
- $62,820 potential earnings

Special education teachers, kindergarten and elementary school

- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

Special education teachers, middle school

- 2.6% slower than the average
- 84,700 number of jobs
- $61,820 potential earnings

Special education teachers, preschool

- 8.3% much faster than the average
- 23,000 number of jobs
- $61,400 potential earnings

Special education teachers, secondary school

- 3.2% about as fast as the average
- 143,000 number of jobs
- $62,320 potential earnings

Teaching assistants, except postsecondary

- 3.6% about as fast as the average
- 1,395,900 number of jobs
- $28,900 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment

over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applicants are assessed holistically, considering academic credentials, academic or professional references, non-academic criteria and other specific program dimensions.

- Bachelor's degree from an accredited institution
- Minimum 2.750 GPA
- Official Transcripts
- Goal Statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form

Application Deadlines

- **Fall Semester**
  - Priority deadline: July 1
- **Spring Semester**
  - Priority deadline: December 1
- **Summer Term**
  - Priority deadline: April 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (min C grade is required in all courses)		
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
ECED 50303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I	3
SPED 53010	FAMILY AND PROFESSIONAL COLLABORATION	3
SPED 53021	ASSESSMENT FOR SPECIAL EDUCATION	3
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 53031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION	3
SPED 53040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
SPED 53051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS	3
SPED 53063	CURRICULUM METHODS MODERATE/ INTENSIVE INTERVENTION	3
SPED 53070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
SPED 53080	ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES	3
SPED 63092	FIELD EXPERIENCE IN SPECIAL EDUCATION	3
ECED 50402	TEACHING READERS IN THE ELEMENTARY YEARS	3
ECED 50403	TEACHING WRITERS IN THE ELEMENTARY YEARS	3
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION [1]	8
SPED 64309	Course SPED 64309 Not Found	3
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
SPED 53042	INTENSIVE READING INTERVENTIONS AND PHONICS	3
SPED 69525	INQUIRY PROFESSIONAL PRACTICE	3
Minimum Total Credit Hours:		**62**

[1] Student teaching is taken after completion of all licensure coursework and in conjunction with the Inquiry to Professional Practice course. Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Progression Requirements

- Minimum 3.000 overall GPA throughout the program

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. The candidate must earn the qualifying score on the Ohio Assessments for Educators. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Special Education Moderate/Intensive Needs Initial Licensure Preparation non-degree program is designed for individuals who have a bachelor's degree and want to teach students requiring intensive and

ongoing special education support. Most often, these are students with intellectual disabilities, autism spectrum disorder, multiple disabilities and complex health impairments.

Completion of the coursework is a prerequisite to being recommended by Kent State University for an initial teacher license in Special Education Moderate/Intensive Needs (Ohio Intervention Specialist), which is granted by the Ohio Department of Education.

The Moderate/Intensive licensure preparation program is designed for individuals who have a bachelor's degree and want to teach students requiring intensive and ongoing special education support. Most often, these are students with intellectual disabilities, autism spectrum disorder, multiple disabilities and complex health impairments.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure. Completing a master's degree in special education in addition to licensure will, in most cases, require an additional 15-18 credit hours.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Special Education Pre-K Special Needs Endorsement Preparation - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Services
www.kent.edu/ehhs/ldes

About This Program

Through the Special Education Pre-K Special Needs Endorsement Preparation program, you'll gain the skills and knowledge needed to work with pre-kindergarten students who have a variety of special needs, including those with developmental delays and learning disabilities. You'll learn how to create individualized education plans, use assistive technology and implement evidence-based instructional strategies to support student success. Read more...

Contact Information

- **Sanna Harjusola-Webb** | shwebb@kent.edu | 330-672-0585
- **Ching I Chen** | cchen46@kent.edu | 330-672-0609
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Special education teachers, preschool

- 8.3% much faster than the average
- 23,000 number of jobs
- $61,400 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college of university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Evidence of valid Resident Educator or Professional Intervention Specialist, Early Childhood or Primary State of Ohio teaching license or a valid State of Ohio Pre-Kindergarten Certificate or a Special Certificate for Education of the Handicapped.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Endorsement Requirements		
SPED 53950	CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES	3
or SPED 63958	EARLY CHILDHOOD INTERVENTION METHODS	
SPED 63952	FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
SPED 63953	PRACTICAL APPLICATIONS:BIRTH TO FIVE	3
SPED 63955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	3

SPED 63956	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	3
SPED 63957	ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES	3
SPED 64892	ADVANCED PRACTICUM	3
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
Minimum Total Credit Hours:		**24**

Progression Requirements

- Must maintain a minimum 3.000 overall GPA

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Demonstrate knowledge and skills in:
   a. learning development and individual learning differences;
   b. specially designed and individualized instruction;
   c. inclusive learning environments;
   d. development of an Individualized Educational Plan (IEP);
   e. design and implementation of an early childhood special education curriculum;
   f. early childhood special education evaluation, assessment and progress monitoring; and
   g. professional practices in teaching and collaboration with families and professionals.
2. Demonstrate the dispositions necessary to be successful early childhood special education teachers/professionals.
3. Demonstrate preparation for the professional by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessment.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Special Education Pre-K Special Needs Endorsement Preparation non-degree program will prepare students to obtain the Ohio Pre-K Special Needs endorsement. Completion of the coursework is a prerequisite to being recommended by Kent State University for this endorsement and endorsements are granted by the Ohio Department of Education.

This program prepares students to apply for an endorsement which can be added to any Special Education Intervention Specialist license, the Early Childhood Education teaching license and/or the Pre-K validation. The endorsement provides teachers with the coursework and field experiences necessary to work effectively with preschool-aged children with disabilities in a variety of settings.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Special Education Transition-to-Work Endorsement Preparation - Non-Degree

College of Education Health and Human Services
School of Lifespan Development and Educational Services
www.kent.edu/ehhs/ldes

About This Program

The Special Education Transition to Work Endorsement Preparation program program is designed to provide educators with the knowledge and skills they need to support students with disabilities in transitioning from school to work. Read more...

Contact Information

- **Rob Cimera** | rcimera@kent.edu | 330-672-2294
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Special education teachers, all other

- 8.5% much faster than the average
- 36,600 number of jobs
- $62,820 potential earnings

Special education teachers, kindergarten and elementary school

- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

Special education teachers, middle school

- 2.6% slower than the average
- 84,700 number of jobs
- $61,820 potential earnings

Special education teachers, secondary school

- 3.2% about as fast as the average
- 143,000 number of jobs
- $62,320 potential earnings

Teaching assistants, except postsecondary

- 3.6% about as fast as the average
- 1,395,900 number of jobs
- $28,900 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum overall 2.750 GPA on a 4.000-point scale of most recent degree completed
- Official transcript(s)
- Evidence of valid Resident Educator or Professional Intervention Specialist or Career-Technical State of Ohio teaching license or a valid Professional State of Ohio Pupil Services license
- Interview with Transition-to-Work program coordinator
- Experience teaching students with moderate-to-intensive disabilities or the completion of 15 credit hours of moderate-to-intensive coursework

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (minimum C required in all courses)		
SPED 53070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
SPED 63075	ASPECTS OF DISABILITY AND TRANSITION SERVICES	3
SPED 64200	CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION	3
Minimum Total Credit Hours:		**9**

Progression Requirements

- Must maintain a minimum 3.000 overall GPA

Graduation Requirements

- Minimum 3.000 overall GPA

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Program Learning Outcomes

Completers of this program will be able to:

1. Develop an Individual Transition Plan (ITP) that fits the unique needs of an individual with disabilities.
2. Create job development plans.
3. Create community-based curriculum for students with intensive disabilities.

4. Create curricula to teach residential skills to students with intensive disabilities.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Special Education Transition-to-Work Endorsement Preparation non-degree program is designed for special educators who wish to prepare 4th- through 12th-grade students with disabilities for adult life. In addition to employment, this program also addresses issues related to residential, recreational, continuing education and other outcomes experienced by adults with and without disabilities.

The Kent State Transition-to-Work endorsement leads to a single qualification applicable to all former transition roles (e.g., work study, VOSE, Option IV). For more information regarding the standards governing the endorsement, please visit Ohio's Department of Education.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure. Coursework from a master's degree in special education may apply towards endorsement requirements.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

School of Teaching, Learning and Curriculum Studies

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
404 White Hall
Kent Campus
330-672-2580
www.kent.edu/ehhs/tlcs

Undergraduate Programs

- Early Childhood Education - B.S.E.
- Earth Science - B.S.E.
- Integrated Language Arts - B.S.E.
- Integrated Mathematics - B.S.E.
- Integrated Science - B.S.E.
- Integrated Social Studies - B.S.E.
- Life Science - B.S.E.
- Life Science/Chemistry - B.S.E.
- Middle Childhood Education - B.S.E.
- Physical Education and Sport Performance - B.S.
- Physical Science - B.S.E.
- Sport, Exercise and Performance Psychology - B.S.

Minors

- Athletic Coaching
- Sport, Exercise and Performance Psychology
- Teaching and Learning with Technology

Graduate Programs

- Career-Technical Teacher Education - M.Ed.
- Curriculum and Instruction - Ed.S.
- Curriculum and Instruction - M.Ed.
- Curriculum and Instruction - Ph.D.
- Early Childhood Education - M.A.T.
- Early Childhood Education - M.Ed.
- Educational Technology - M.Ed.
- Reading Specialization - M.Ed.
- Secondary Education - M.A.T.

Certificates

Undergraduate Certificates

- Career-Technical Teacher Education
- Teaching and Learning with Technology

Graduate Certificates

- Career-Technical Teacher Education
- Online and Blended Learning

Licensure/Endorsement Programs - Non-Degree

Undergraduate

- Middle Childhood Generalist Science (4-6) Endorsement Preparation
- Middle Childhood Generalist Social Studies (4-6) Endorsement Preparation

Graduate

- Adapted Physical Education Endorsement Preparation
- Alternative Licensure Professional Development Institute, English/Language Arts
- Alternative Licensure Professional Development Institute, Mathematics
- Alternative Licensure Professional Development Institute, Science
- Alternative Licensure Professional Development Institute, Social Studies
- Career-Based Intervention Endorsement Preparation
- Computer Science Endorsement Preparation
- Computer Technology Endorsement Preparation
- Early Childhood Education (P-5) Additional Licensure Preparation
- Early Childhood Education Pre-Kindergarten (3-5 years) Endorsement Preparation
- Integrated Language Arts Additional Licensure Preparation
- Integrated Mathematics Additional Licensure Preparation
- Integrated Science Additional Licensure Preparation
- Integrated Social Studies Additional Licensure Preparation
- Middle Childhood Education (4-9) Language Arts/Reading and Mathematics Initial Licensure Preparation
- Middle Childhood Education (4-9) Language Arts/Reading and Science Initial Licensure Preparation
- Middle Childhood Education (4-9) Mathematics and Science Initial Licensure Preparation
- Middle Childhood Education (4-9) Mathematics and Social Studies Initial Licensure Preparation
- Middle Childhood Education (4-9) Social Studies and Language Arts/Reading Initial Licensure Preparation
- Middle Childhood Education (4-9) Social Studies and Science Initial Licensure Preparation
- Middle Childhood Education–Language Arts and Reading (4-9) Additional Licensure Preparation
- Middle Childhood Education–Mathematics (4-9) Additional Licensure Preparation
- Middle Childhood Education–Science (4-9) Additional Licensure Preparation
- Middle Childhood Education–Social Studies (4-9) Additional Licensure Preparation
- Reading Endorsement Preparation

School of Teaching, Learning and Curriculum Studies Faculty

- Bintz, William P. (2004), Professor
- Borgerding, Lisa (2007), Professor, Ph.D., Indiana University, Bloomington, 2007
- Caniglia, Joanne C. (2008), Professor, Ph.D., Kent State University, 1994
- Courtney, Scott A. (2010), Associate Professor, Ph.D., Arizona State University, 2010
- Crowe, Alicia R. (2001), Professor, Ph.D., Vanderbilt University, 2001
- Dever, Robin M. (2018), Associate Professor, Ph.D., Kent State University, 2008
- Durham, Brian S. (2022), Assistant Professor, Ph.D., Michigan State University, 2021
- Eckert, Kevin (2015), Associate Lecturer, M.Ed., Kent State University, 2017
- Ellison, Douglas (2017), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 2016
- Ferdig, Richard E. (2009), Professor, Ph.D., Michigan State University, 2000
- Gandolfi, Enrico (2015), Associate Professor, Ph.D., Sapienza University of Rome, 2014
- Gruhler, Danielle M. (1999), Professor, Ph.D., Kent State University, 2004
- Guivernau, Marta (2007), Assistant Professor, Ph.D., Purdue University, 1999
- Hannon, James C. (2017), Professor
- Hawley, Todd (2008), Professor, Ph.D., University of Georgia, 2008
- Heron, Michele L. (2004), Associate Professor, Ph.D., Kent State University, 2010
- Hollstein, Matthew S. (2015), Associate Professor, Ph.D., Ohio University, 2015
- Hutchins, Pamela K. (1993), Associate Lecturer, M.Ed., Kent State University, 1992
- Irving, Sonya E. (2013), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 2014
- Kamberelis, George (2023), Professor
- Kenyon, Elizabeth (2015), Associate Professor, Ph.D., Michigan State University, 2015
- Kim, Insook (2012), Professor, Ph.D., The Ohio State University, 2011
- Kirin, Melanie D. (2019), Lecturer, M.Ed., Kent State University, 2015
- Knapp, Kathryn A. (2007), Associate Professor, Ph.D., Kent State University, 2013
- Kosko, Karl W. (2012), Professor, Ph.D., Virginia Polytechnic Institute and State University, 2010
- Kroeger, Janice (2002), Professor, Ph.D., University of Wisconsin, Madison, 2003
- Kuo, Chia Ling (2005), Professor, Ph.D., Ohio University, 2005
- Lampe, Jennifer K. (2014), Lecturer, Bowling Green State University, 2010
- McCreight, Jennifer A. (2024), Assistant Professor, University of Georgia, 2012
- Miller Marsh, Monica A. (2012), Associate Professor, Ph.D., University of Wisconsin-Madison, 1997
- Mitchell, Stephen A. (1992), Professor, Ph.D., Syracuse University, 1992
- Monobe, Gumiko (2010), Associate Professor
- Mulvey, Bridget K. (2012), Associate Professor, Ph.D., University of Virginia-Main Campus, 2012
- Mupinga, Davison M. (2008), Professor, Ph.D., Louisiana State University-Baton Rouge, 1999
- Navy, Shannon L. (2017), Associate Professor, Ph.D., University of Georgia, 2014
- Novak, Elena (2015), Associate Professor, Ph.D., Florida State University, 2012
- Pech, Sandra (2000), Associate Professor, Ph.D., Kent State University, 2010
- Porto, Adonia F. (2006), Assistant Professor, Ph.D., Kent State University, 2017

- Potenza-Radis, Cheryl L. (2009), Assistant Professor, M.Ed., Miami University, 1993
- Pytash, Kristine E. (2006), Professor, Ph.D., Kent State University, 2009
- Ridley, Jacqueline N. (2020), Assistant Professor, Ph.D., Ohio University, 2020
- Roginski, Dawn R. (2017), Assistant Professor, Ph.D., Kent State University, 2020
- Sethna, Kim C. (2010), Assistant Professor, Ed.D., Walden University, 2022
- Stoll, Julia A. (2000), Professor, Ph.D., Kent State University, 2015
- Testa, Elizabeth A. (2013), Associate Professor, Ph.D., University of Akron, 2014
- Torres, Francisco L. (2021), Assistant Professor, Ph.D., University of Colorado-Boulder, 2020
- Walker, Amy (2022), Assistant Professor, Ph.D., Indiana University, 2022
- Walton-Fisette, Jennifer L. (2008), Professor, Ed.D., University of Massachusetts-Amherst, 2008
- Wang, Jiahui (2018), Assistant Professor, Ph.D., University of Florida, 2018
- Wilfong, Lori G. (2002), Associate Professor, Ph.D., Kent State University, 2006
- Wisdom, Sonya L. (2012), Professor, Ph.D., Kent State University, 2010
- Zolfaghari, Maryam (2018), Assistant Professor, Ph.D., Kent State University, 2023

Adolescent/Adult Education (ADED)

ADED 20000 TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING 3 Credit Hours

Course examines social justice issues that are central to teaching and learning across all educational contexts. Students consider topics such as race, poverty, social class, LGBTQ youth and colleagues, socially responsive teaching and at-risk youth as they intersect with K-12 educational settings.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 20020 EXPLORING SECONDARY SCIENCE TEACHING 1 Credit Hour

This course is designed to allow students to learn and practice science teaching skills, develop real-world teaching experience in secondary schools, learn about research-based science teaching methods, and explore formal and informal science teaching careers. The course includes an associated field experience where students get to teach science lessons to local secondary students.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ADED 22275 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours

A course that introduces you to the field of social studies education. In this course you will explore the history and current issues and trends in the field of social studies education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 32142 PRINCIPLES OF TEACHING ADOLESCENTS (WIC) 3 Credit Hours

Orientation to adolescence and the teaching-learning process. This course includes 30 field-clinical hours in an urban setting. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: ADED 20000; and admission to advanced study.
Schedule Type: Field Experience, Lecture
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ADED 32268 THE SECONDARY SCHOOL MATHEMATICS CURRICULUM 3 Credit Hours

The secondary school mathematics curriculum will be examined. Student's textbooks and recommendations will be investigated. This course includes 30 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: ADED 32142 and MATH 22005.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

ADED 32275 CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES 3 Credit Hours

A beginning social studies teaching and learning course. In this course you will explore how to achieve the purposes of social studies education through curriculum, instructional and planning decisions.
Prerequisite: ADED 22275 and ADED 32142; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 32277 TEACHING SCIENCE IN SECONDARY SCHOOLS 3 Credit Hours
This course is designed to facilitate the development of preservice middle and secondary school science teachers. Fundamental to middle and secondary school science teaching is an understanding of content knowledge, pedagogical knowledge and methodologies appropriate for science learning in secondary school. During this course students participate in hands-on activities, group discussions, presentations, pedagogical analyses and curriculum development. This course particularly focuses on nature of science, conceptual change and student misconceptions, ambitious science teaching, engineering design and STEM, issues-based instruction and teaching diverse learners and using technology to plan, teach, assess and analyze assessment data.
Prerequisite: ADED 32142.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 33268 MATHEMATICAL MODELING FOR SECONDARY TEACHERS 3 Credit Hours
The Mathematical Modeling for Secondary Teachers is designed to promote reasoning, problem-solving and modeling through thematic units focused on mathematical practices, while reinforcing and extending content in number and quantity, algebra, functions, statistics and probability and geometry.
Corequisite: ADED 32268.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 42196 INDIVIDUAL PROJECT IN ADOLESCENT EDUCATION 2-4 Credit Hours
(Repeatable for credit) Independent study in Adolescent Education.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory

ADED 42268 TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS 3 Credit Hours
Methodology and materials for effective teaching of secondary school mathematics will be discussed and implemented in field experiences.
Prerequisite: ADED 32268.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 42275 TEACHING SOCIAL STUDIES IN GRADES 7 - 12 3 Credit Hours
An advanced social studies education teaching and learning course. Addresses a range of topics that will help you engage your 7th–12th grade students with social studies.
Prerequisite: Minimum C grade in ADED 32275; and admission to advanced study.
Corequisite: ADED 42292.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 42277 TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING 3 Credit Hours
Analysis of trends in science teaching and materials and methods for introducing topics from the history of science and from health education.
Prerequisite: ADED 32277; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 42292 FIELD WORK PRACTICUM (ELR) 3 Credit Hours
(Repeatable for credit) A field experience in a middle or high school. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Students must be on track for student teaching the following semester in order to register for this course.
Prerequisite: Minimum C grade in ADED 32268 or ADED 32275 or ADED 32277; or ADED 43325 and ADED 43335; and advanced study.
Corequisite: ADED 42268 or 42275 or 42277 or ADED 43325.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ADED 42392 SECONDARY STUDENT TEACHING (ELR) 9 Credit Hours
Provides a full time student-teaching experience. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: ADED 42292; and admission to advanced study.
Corequisite: ADED 49525.
Schedule Type: Practical Experience
Contact Hours: 35 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ADED 43210 TEACHING READING IN MIDDLE AND HIGH SCHOOL WITH YOUNG ADULT LITERATURE 3 Credit Hours
Through reading, young adults have the opportunity to reflect on their lives and to consider diverse cultures, time periods, and experiences. Readers can recognize themselves or grow to know someone, something, or someplace quite different. This course supports the pre-service Integrated Language Arts educator in learning how to plan and implement reading experiences, specifically focused on young adult literature and its instructional uses in middle school and high school language arts classrooms. This class will place an emphasis on the reading process and the foundations of reading for middle and high school students.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 43315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS 3 Credit Hours
(Slashed with ADED 53315) Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.
Prerequisite: ADED 32142 and MCED 40007; and advanced standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 43325 MULTI-MODAL LITERACIES IN THE SECONDARY CLASSROOM 3 Credit Hours
Explores the pedagogies of reading and composing with a variety of print and non-print texts. Focuses on the impact of media culture on adolescent learners. Utilizes new literacies to enhance learning in the content area.
Prerequisite: ADED 32142 and ADED 43315 and ADED 43335 and MCED 40007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 43335 TEACHING LANGUAGE AND COMPOSITION 3 Credit Hours
Explores linguistic and rhetorical perspectives on the teaching of composition in secondary schools.
Prerequisite: ADED 32142 and MCED 40007; and advanced standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 49525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
Reflection on teaching for the purpose of instructional improvement. Emphases are placed on preparing implementing and assessing a curricular unit collaborative problem solving conducting an action research project and creating a portfolio.
Prerequisite: Admission to advanced study.
Corequisite: ADED 42392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 52267 IMPROVING MATHEMATICS INSTRUCTION FOR ADOLESCENT AND ADULT EDUCATION 3 Credit Hours
Methodology and materials for effective teaching of secondary school mathematics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 52277 TEACHING SCIENCE IN THE SECONDARY SCHOOL 3 Credit Hours
Analysis of teaching materials, demonstrations and participation in science classes appropriate for graduate students seeking certification to teach science in the secondary school.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 53315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS 3 Credit Hours
(Slashed with ADED 43315) Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 62092 ADVANCED PRACTICUM 3 Credit Hours
(Repeatable for credit) Internship held at a school under the direction of a cooperating teacher, requiring a minimum of 100 field hours. Activities included in the internship include lesson plan preparation, unit planning, evaluation of student learning and other duties typical of teachers in the performance of their role in the school setting. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which the practicum will take place.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 6.67 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 62145 PRINCIPLES OF SECONDARY TEACHING 3 Credit Hours
Principles of teaching adolescents including curriculum, planning instruction, assessment, fundamentals of evaluation, and reflective practice. All course content focuses on preparing teachers for secondary school teaching.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 62191 SEMINAR IN SECONDARY EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Cross-listed with ADED 72191) Study and experience of various theoretical and methodological and practical approaches to special problems.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ADED 62198 RESEARCH IN SECONDARY EDUCATION 2-15 Credit Hours
(Repeatable for credit) Students pursue an individualized research project under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 2-15 other
Grade Mode: Standard Letter

ADED 63192 SECONDARY EDUCATION STUDENT TEACHING INTERNSHIP 1-10 Credit Hours
(Repeatable for credit) Internship held at a secondary school under the direction of a cooperating teacher. A minimum of 50 hours per credit are required. Activities included in the internship include lesson plan preparation, unit planning, evaluation of student learning and other duties typical of teachers in the performance of their role in the school setting.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33-33.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 63292 ADOLESCENT/YOUNG ADULT INTEGRATED LANGUAGE ARTS ADDITIONAL LICENSURE INTERNSHIP 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within integrated language arts.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 63392 ADOLESCENT/YOUNG ADULT INTEGRATED SOCIAL STUDIES ADDITIONAL LICENSURE INTERNSHIP 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within integrated social studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 63492 ADOLESCENT/YOUNG ADULT INTEGRATED MATHEMATICS ADDITIONAL LICENSURE INTERNSHIP 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within integrated mathematics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 63592 ADOLESCENT/YOUNG ADULT INTEGRATED SCIENCE ADDITIONAL LICENSURE INTERNSHIP 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within integrated science.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ADED 67147 TEACHING ADOLESCENTS IN THE SECONDARY SCHOOL CULTURE 3 Credit Hours
Providing for motivation, discipline and instruction of adolescents within the culture of the secondary school.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 67232 SECONDARY SCHOOL SOCIAL STUDIES 3 Credit Hours
(Cross-listed with ADED 77232) General focus is on examining current instructional and curricular trends in teaching social studies. Emphasis is placed on strategies of teaching developing student's critical thinking skills role of the computer use of primary sources teaching controversial issues and stimulating active citizenship.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ADED 72191 SEMINAR IN SECONDARY EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Cross-listed with ADED 62191) Study and experience of various theoretical and methodological and practical approaches to special problems.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Curriculum and Instruction (CI)

CI 40093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 50093 and CI 70093)(Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 47095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Repeatable for credit) Topic varies for each offering.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter-IP

CI 47096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Repeatable for credit) Student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Kent State faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 47192 STUDENT TEACHING IN CURRICULUM AND INSTRUCTION (ELR) 1-5 Credit Hours
(Repeatable for credit) Student teaching topics vary for each offering.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD 3 Credit Hours
(Slashed with CI 57330) Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments and teaching students who struggle as readers and writers.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 57501) Addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards.
Prerequisite: MATH 14001 or MATH 14002 with a minimum C grade; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47502 SCIENCE TEACHING IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 57502) Addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. Students examine how to best align science practice to state and national standards.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47503 TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 57503) Addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47504 TEACHING READING AND WRITING IN MIDDLE GRADES 3 Credit Hours
(Slashed with CI 57504) Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades 4-9, based on the national content and process standards.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 47505 INTEGRATED SOCIAL STUDIES AND SCIENCE 3 Credit Hours
(Slashed with CI 57505) Addresses principles of teaching and learning as applied to teaching social studies and science in elementary and middle grades. Students examine how to best align social studies and science practice with state and national standards.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 50093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 40093 and CI 70093)(Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

CI 50095 SPECIAL TOPICS: SEMINAR/WORKSHOP IN CURRICULUM AND INSTRUCTION 1 Credit Hour
(Repeatable for credit) Topics varies for each offering. Seminar workshop for International Baccalaureate program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 55015 PSYCHOLOGY OF COACHING 3 Credit Hours
(Slashed with PESP 45015) Factors affecting athletic performance emphasizing skill, motivation, personality and practice conditions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 55020 CONTEMPORARY ATHLETIC COACHING 3 Credit Hours
(Slashed with PESP 45020) A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD 3 Credit Hours
(Slashed with CI 47330) Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments, and teaching students who struggle as readers and writers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 47501) Addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57502 SCIENCE TEACHING IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 47502) Addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. Students examine how to best align science practice to state and national standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57503 TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES 3 Credit Hours
(Slashed with CI 47503) Addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57504 TEACHING READING AND WRITING IN MIDDLE GRADES 3 Credit Hours
(Slashed with CI 47504) Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades 4-9, based on the national content and process standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 57505 INTEGRATED SOCIAL STUDIES AND SCIENCE 3 Credit Hours
(Slashed with CI 47505) Addresses principles of teaching and learning as applied to teaching social studies and science in elementary and middle grades. Students examine how to best align social studies and science practice with state and national standards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 60169 UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES 3 Credit Hours
(Slashed with CI 80169) This course is designed to help the general practitioner understand and know foundational concepts about multi-lingual students, immigrants, English Language Learners and their families.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 60171 TEACHING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS 3 Credit Hours
(Slashed with CI 80171) General educators will explore the application of teaching methods and a variety of curriculum approaches for immigrant and bi-literate children, and apply more fully their work with families and communities.
Prerequisite: CI 60169; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CI 60199; and Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 61124 EDUCATING THE GOOD CITIZEN 3 Credit Hours
(Slashed with CI 71124) Course explores the competing conceptions of citizenship education through an examination and critique of the diverse perspectives on the purposes and possibilities of citizenship education—including the contributions and influence of multicultural, international and theoretical perspectives on the meaning of educating citizens in a democracy—situating work, thinking and practice in the literature. As part of the process of reading, discussing and deliberating together, students articulate a rationale for citizenship education and develop ways to incorporate their vision for citizenship education into their work as teacher educators, practicing social studies teachers and/or community members.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 61125 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours
(Slashed with CI 71125) Provides an overview of historical trends and contemporary issues in social studies education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61126 RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING 3 Credit Hours
(Slashed with CI 71126) Students examine, discuss and study research in the teaching and learning of social studies, as well as develop their own study of social studies teaching and learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61127 TECHNOLOGY AND SOCIAL STUDIES 3 Credit Hours
(Slashed with CI 71127) Course provides experiences with and study of various uses of technology in social studies teaching and learning. Students examine implications and effects of technology on student learning, teaching and society as a whole.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61130 MULTICULTURAL EDUCATION: STRATEGIES 3 Credit Hours
(Slashed with CI 71130) Course provides the strategies for teaching children to function effectively in a pluralistic society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61133 ISSUES AND TRENDS IN ELEMENTARY SCIENCE 3 Credit Hours
(Slashed with CI 71133) New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61134 RESEARCH TRENDS IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 71134) Course in issues relating to research methods pertinent to science education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61140 CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 71140) Provides a general introduction to the impacts of multiculturalism and the social studies of science on science education. Implications for science educational curriculum theory, classroom practice and research are explored. Teaching topics examined include race and gender in science education, culture of science and science in a global context.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 61141 NATURE OF SCIENCE IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 71141) Course in issues relating to the nature of science as it impacts science education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 62000 PRINCIPLES OF TEACHING WITH DIFFERENTIATION 3 Credit Hours
Principles of teaching adolescents, including designing curriculum, planning instruction, differentiation, assessment, fundamentals of evaluation and reflective practice. Learning experiences focus on preparing teachers for secondary school teaching in diverse settings. Teaching as a profession is explored, including examination of the Ohio licensure code of professional conduct and the Ohio Standards for the Teaching profession. Additionally, the course emphasizes culturally relevant, responsive and sustaining pedagogies. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62001 ASSESSMENT PROCEDURES AND PRAXIS 3 Credit Hours
Students gain an understanding of the complexities of designing, collecting, analyzing and evaluating student performance data. Both formative and summative assessment practices are examined. Additionally, students determine best practices in inference-making based on data and consider pedagogical and evaluative choices that rely on the quality of data that they collect, both from their own design and assessment data from vendors. Students consider how qualitative data about individual learners can be collected and analyzed to strengthen the validity and reliability of the decisions made about learning outcomes. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: CI 62000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62002 CULTURALLY RESPONSIVE CLASSROOM MANAGEMENT PRACTICES 3 Credit Hours
Course explores principles of positive behavior supports and interventions; procedures to promote and practice positive learning interactions; and development of routines that practice social-emotional skill development, including resolution of conflict using restorative practice methods. Additionally, students examine the physical- and psychological-learning environment as a factor in culturally responsive teaching. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62003 LITERACIES IN THE CONTENT AREAS 3 Credit Hours
Student acquire professional knowledge of the nature of literacy as it relates to specific content areas. Students understand the critical role that "literacy - including the interpretation and production of texts and representations - plays as vital to participation and learning in different academic disciplines" (International Literacy Association, 2017). Students develop, implement and reflect on a variety of curricular engagements, instructional strategies and assessment procedures for meeting the literacy needs of diverse students. Additionally, students learn how to plan inquiry-based teaching and learning that employs and extends students' literacy development. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62101 CURRICULUM STUDIES OF SECONDARY ENGLISH LANGUAGE ARTS 3 Credit Hours
Course explores pedagogies of reading and composing with a variety of print and non-print texts. Considers the impact of media upon adolescent culture. Also explores teaching canonical literature and literary theories. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62102 CURRICULUM STUDIES OF SECONDARY MATHEMATICS 3 Credit Hours
Course examines the secondary school mathematics curriculum, textbooks and national standards. Analyzes, implements and evaluates methodology and materials of effective teaching of secondary mathematics. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62103 CURRICULUM STUDIES OF SECONDARY SCIENCE 3 Credit Hours
This course is designed to deepen secondary science teaching through the development of content knowledge, pedagogical knowledge and methodologies appropriate for science learning in secondary school. Students engage in pedagogical analyses and curriculum development related to nature of science; science literacy; conceptual change and student misconceptions; issues-based instruction; problem-based learning; and teaching diverse-learners science concepts. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62104 CURRICULUM STUDIES OF SECONDARY SOCIAL STUDIES 3 Credit Hours
This course is designed to prepare prospective teachers to be purposeful, deliberative decision-makers and reflective practitioners who prepare citizens who contribute to the deepening of democracy and promote the common good. Areas of planning, curriculum, instruction and assessment are examined from a social studies perspective. The goal is to support purposeful social studies teaching and learning that engages students in the learning experiences designed to honor their real-world experiences and prepare them to be agents of change in their school and community. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 62121 FOUNDATIONS OF LITERACY AND PHONICS FOR SECONDARY TEACHERS 3 Credit Hours
Course provides professional training in the teaching of the foundations of literacy: word/recognition/decoding, vocabulary, reading fluency and comprehension. Consideration of how struggling adolescent readers development may be assessed followed by how to provide interventions to strengthen literacy skills and strategies. This course is intended for students in the Alternative Licensure Professional Development Institute non-degree program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

CI 63193 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT 1-3 Credit Hours
(Repeatable for credit) Workshop in exercise, leisure and sport. Topics vary. Maximum 4 credit hours applied to the degree.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CI 65025 CONTEMPORARY ISSUES IN SPORT PEDAGOGY - AN INTERNATIONAL PERSPECTIVE 3 Credit Hours
(Slashed with CI 85025) An international perspective on the investigation and study of current problems, issues and trends in sport pedagogy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 65037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours
(Slashed with CI 85037) Course prepares physical education teachers to provide safe, appropriate and individualized accommodations to students with disabilities. All information presented is structured around research-based and cross-culturally appropriate practices in adapted physical education that have been implemented in physical education programs globally.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 65044 PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT 3 Credit Hours
(Slashed with CI 85044) An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 65055 CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY 3 Credit Hours
(Slashed with CI 85055) The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 65592 PRACTICUM IN ADAPTED PHYSICAL EDUCATION 3 Credit Hours
(Repeatable for credit) Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment and individualized task analysis.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

CI 65692 INTERNSHIP IN ATHLETIC COACHING 2-4 Credit Hours
(Repeatable for a maximum of 4 credits) Supervised experience in organized sport focused upon the duties of a coach; can involve one or more level (youth, school, college, professional) and sport. A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society. 45 contact hours per credit. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching-internship will take place.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 67001 FUNDAMENTALS OF CURRICULUM 3 Credit Hours
(Slashed with CI 77001) Orientation to the curriculum field. Theoretical examination of foundations, elements, design and development of school, college and non-school curricula.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67002 CURRICULUM LEADERSHIP 3 Credit Hours
(Slashed with CI 77002) Course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal.
Prerequisite: CI 67001; and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67003 TEACHER EDUCATION 3 Credit Hours
(Slashed with CI 77003) Course provides a broad overview of teacher education, including curriculum, organization, governance and policy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67004 PROFESSIONAL DEVELOPMENT IN TEACHING 3 Credit Hours
(Slashed with CI 77004) Course provides a broad overview and conceptual framework for professional development; its historical, cultural, psychological and social contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING 3 Credit Hours
(Slashed with CI 77005) Course addresses teaching and learning in the intercultural K-16 context. Increasing intercultural interaction in schools and communities across the nation and around the world are prompting educational changes in terms of what is being taught and how it is being taught. Educators at all levels are increasingly being called upon to enhance their own intercultural competence and to consider how best to translate this to students in their charge.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67007 CRITICAL REFLECTION IN CURRICULUM AND INSTRUCTION 2 Credit Hours
Capstone course for a master's degree in curriculum and instruction. Students critique their content area studies with reference to the standard of curriculum-based pedagogy. Three concepts inform this critique: continuing professional development, multicultural education, curriculum leadership for reform and renewal.
Prerequisite: CI 67001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CI 67010 CURRICULUM EVALUATION 3 Credit Hours
(Slashed with CI 77010) Students learn to plan for and use a variety of techniques to gather information in systematic ways, across different phases of curriculum planning, development, implementation and evaluation to enhance decision-making processes. Students develop evaluation questions around a curriculum or program of their choice and then design a detailed evaluation plan.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67091 SEMINAR IN CURRICULUM AND INSTRUCTION 1-4 Credit Hours
(Slashed with CI 87091)(Repeatable for credit) A wide range of topics for advanced graduate inquiry. Normally, course provides a balance of theoretical study and creative application.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

CI 67092 ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION 1-3 Credit Hours
(Repeatable for credit) Supervised practicum in curriculum design, development, implementation and-or leadership. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

CI 67095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 77095)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CI 67096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 67098 RESEARCH IN CURRICULUM AND INSTRUCTION 1-15 Credit Hours
(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 67105 IMPROVING CLASSROOM INSTRUCTION 3 Credit Hours
(Slashed with CI 77105) Emphasizes motivation, varied materials and methods, individual needs and sources of teacher help. Class members define goals and means.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67107 CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES 3 Credit Hours
(Slashed with CI 77107) Course enhances students' knowledge, skills and dispositions about curriculum history and organization of middle schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. In addition, students are able to extend their knowledge, skills, techniques and professional dispositions as related to middle school students' experiences, as well as to differentiate curriculum and assessment for diverse learners.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67108 TEACHING AND LEARNING IN THE MIDDLE GRADES 3 Credit Hours
(Slashed with CI 77108) Course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planning, teaching strategies, assessment, classroom management and effective classroom instructions. In a concurrent clinical field experience, teacher candidates apply teaching methods in intermediate-middle school classrooms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67224 TEACHING MATHEMATICS WITH TECHNOLOGY 3 Credit Hours
(Slashed with CI 77224) Students develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Students develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67225 RESEARCH IN MATHEMATICS EDUCATION 3 Credit Hours
(Slashed with CI 77225) Current research theory, methodology and results in mathematics education are investigated. Implications for instructional practice and curriculum design are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67226 IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD 3 Credit Hours
(Slashed with CI 77226) Instructional psychology and materials, including technology, for the effective teaching of mathematics in grades 3-8, with a theoretical emphasis on cognitive development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67240 INTRODUCTION TO ENVIRONMENTAL EDUCATION 3 Credit Hours
(Slashed with CI 77240) Survey course emphasizes current debates in environmental issues, exploring the interconnectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67292 PRACTICUM IN MATHEMATICAL ASSESSMENT 2 Credit Hours
(Repeatable for credit) Practicum experience in designing and administering both formal and informal assessments.
Prerequisite: Two courses from the following: ADED 52267, CI 67224, CI 67226 and/or ECED 50147; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Standard Letter

CI 67310 THEORY AND PRACTICE IN THE TEACHING OF READING 3 Credit Hours
(Slashed with CI 77310) Nature and development of reading, approaches to instruction, relation to learning and development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67312 TEACHING WRITING AS A PROCESS 3 Credit Hours
(Slashed with CI 77312) Course emphasizes a process approach to writing instruction in grades K-12. Examines the steps and studies of composing, evaluation and components of a school-wide program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67314 SURVEY OF YOUNG ADULT LITERATURE 3 Credit Hours
(Slashed with CI 77314) Presents a survey of selected types of literature appropriate for students in middle school, junior high and high school. Emphasis on evaluating, selecting and teaching.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67319 DIAGNOSIS AND REMEDIATION IN READING 3 Credit Hours
(Slashed with CI 77319) Theory and application of diagnostic principles and remedial reading approaches with school-age children. Cultural, linguistic, cognitive and effective factors in diagnosing and remediating reading problems.
Prerequisite: CI 67310; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67320 TEACHER AS LITERACY RESEARCHER 3 Credit Hours
Capstone experience in master's program in literacy in which students pursue an individualized literacy research program.
Prerequisite: CI 67351 or RMS 65510 or RMS 65511; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67330 READING IN CONTENT AREAS 3 Credit Hours
(Slashed with CI 77330) Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through post-secondary years.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67339 WRITING ASSESSMENT AND RESPONSE 3 Credit Hours
(Slashed with CI 77339) Exploration of issues in writing assessment, theoretical base for effective formative response to student writing and design, and implementation of writing assessment measures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67351 PERSPECTIVES ON LITERACY RESEARCH 3 Credit Hours
(Slashed with CI 77351) Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy.
Prerequisite: Reading Specialization major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67352 LITERACY COACHING 3 Credit Hours
(Slashed with CI 77352) Focus on principles and strategies related to literacy coaching, within classrooms, schools and districts.
Prerequisite: CI 67310 and CI 67319 and CI 67330 and CI 67692 and MCED 50005; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67353 MULTICULTURAL VOICES IN TEACHING CHILDREN'S AND YOUNG ADULT LITERATURE 3 Credit Hours
(Slashed with CI 77353) Exploring diverse voices in children's and young adult literature in K-12 literacy classrooms to support culturally responsive teaching and learning and broaden student understandings of diversity.
Prerequisite: Reading Specialization major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67392 ADVANCED PRACTICUM AND INTERNSHIP IN READING 1-10 Credit Hours
(Repeatable for credit) Supervised practicum requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Standard Letter

CI 67395 SPECIAL TOPICS IN READING 1-5 Credit Hours
(Slashed with CI 77395)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in reading.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CI 67396 INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS 1-5 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 67517 NEW LITERACIES IN PRACTICE 3 Credit Hours
(Slashed with CI 87517) Developing technologies are changing the very definition of literacy. Designed to provide an overview of current (and past) theory and practices related to the growing line of inquiry known as new literacies. Participants of the class follow their own paths of inquiry related to the question: How is the definition of literacy changing? Participants engage in discussions of theoretical positions related to this question (from perspectives as new literacies, multi-literacies and arts-based knowing to name a few) as well as encounter the basics of creating a blog or wiki and editing video. Appropriate for any educator who is interested in examining how new literacies are transforming the classrooms.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 67592 PRACTICUM IN MATHEMATICS EDUCATION INTERVENTION 3 Credit Hours
(Repeatable for credit) Experience in providing leadership in designing intervention programs for schools, and designing curriculum and instruction for individual learners that experience difficulties in learning mathematics.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CI 67692 CLINICAL PRACTICUM IN CORRECTIVE READING 3 Credit Hours
Application of previous courses includes supervised diagnostic/prescriptive reading work with school-age pupils and diagnostic/remedial reporting.
Prerequisite: CI 67319; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CI 67791 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 70093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 40093 and CI 50093) (Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

CI 71124 EDUCATING THE GOOD CITIZEN 3 Credit Hours
(Slashed with CI 61124) Course explores the competing conceptions of citizenship education through an examination and critique of the diverse perspectives on the purposes and possibilities of citizenship education–including the contributions and influence of multicultural, international and theoretical perspectives on the meaning of educating citizens in a democracy–situating work, thinking and practice in the literature. As part of the process of reading, discussing and deliberating together, students articulate a rationale for citizenship education and develop ways to incorporate their vision for citizenship education into their work as teacher educators, practicing social studies teachers and/or community members.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 71125 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours
(Slashed with CI 61125) Provides an overview of historical trends and contemporary issues in social studies education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71126 RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING 3 Credit Hours
(Slashed with CI 61126) Students examine, discuss and study research in the teaching and learning of social studies, as well as develop their own study of social studies teaching and learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71127 TECHNOLOGY AND SOCIAL STUDIES 3 Credit Hours
(Slashed with CI 61127) Course provides experiences with and study of various uses of technology in social studies teaching and learning. Students examine implications and effects of technology on student learning, teaching and society as a whole.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71130 MULTICULTURAL EDUCATION: STRATEGIES 3 Credit Hours
(Slashed with CI 61130) Course provides the strategies for teaching children to function effectively in a pluralistic society.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71133 ISSUES AND TRENDS IN ELEMENTARY SCIENCE 3 Credit Hours
(Slashed with CI 61133) New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71134 RESEARCH TRENDS IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 61134) Course in issues relating to research methods pertinent to science education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71140 CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 61140) Provides a general introduction to the impacts of multiculturalism and the social studies of science on science education. Implications for science educational curriculum theory, classroom practice and research are explored. Teaching topics examined include race and gender in science education, culture of science and science in a global context..
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 71141 NATURE OF SCIENCE IN SCIENCE EDUCATION 3 Credit Hours
(Slashed with CI 61141) Course in issues relating to the nature of science as it impacts science education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 75592 PRACTICUM IN ADAPTED PHYSICAL EDUCATION 3 Credit Hours
(Repeatable for credit) Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment and individualized task analysis.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

CI 77001 FUNDAMENTALS OF CURRICULUM 3 Credit Hours
(Slashed with CI 67001) Orientation to the curriculum field. Theoretical examination of foundations, elements, design and development of school, college and non-school curricula.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77002 CURRICULUM LEADERSHIP 3 Credit Hours
Course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal. It is recommended that students complete CI 77001 or a compatible professional experience with fundamentals of curriculum work is before taking this course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77003 TEACHER EDUCATION 3 Credit Hours
(Slashed with CI 67003) Course provides a broad overview of teacher education, including curriculum, organization, governance and policy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77004 PROFESSIONAL DEVELOPMENT IN TEACHING 3 Credit Hours
(Slashed with CI 67004) Course provides a broad overview and conceptual framework for professional development; its historical, cultural, psychological and social contexts.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING 3 Credit Hours
(Slashed with CI 67005) Course addresses teaching and learning in the intercultural K-16 context. Increasing intercultural interaction in schools and communities across the nation and around the world are prompting educational changes in terms of what is being taught and how it is being taught. Educators at all levels are increasingly being called upon to enhance their own intercultural competence and to consider how best to translate this to students in their charge.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77010 CURRICULUM EVALUATION 3 Credit Hours
(Slashed with CI 67010) Students learn to plan for and use a variety of techniques to gather information in systematic ways, across different phases of curriculum planning, development, implementation and evaluation to enhance decision-making processes. Students develop evaluation questions around a curriculum or program of their choice and then design a detailed evaluation plan.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77092 ADVANCED PRACTICUM IN CURRICULUM AND INSTRUCTION 1-3 Credit Hours
(Repeatable for credit) Supervised practicum in curriculum design, development, implementation and-or leadership. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

CI 77095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Slashed with CI 67095)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CI 77096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 77105 IMPROVING CLASSROOM INSTRUCTION 3 Credit Hours
(Slashed with CI 67105) Emphasizes motivation, varied materials and methods individual needs and sources of teacher help. Class members define goals and means.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77107 CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES 3 Credit Hours
(Slashed with CI 67107) Course enhances students' knowledge, skills and dispositions about curriculum history and organization of middle schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. In addition, students are able to extend their knowledge, skills, techniques and professional dispositions as related to middle school students' experiences, as well as to differentiate curriculum and assessment for diverse learners.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77108 TEACHING AND LEARNING IN THE MIDDLE GRADES 3 Credit Hours
(Slashed with CI 67108) Course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planing, teaching strategies, assessment, classroom management and effective classroom instructions. In a concurrent clinical field experience, teacher candidates apply teaching methods in intermediate-middle school classrooms.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77224 TEACHING MATHEMATICS WITH TECHNOLOGY 3 Credit Hours
(Slashed with CI 67224) Students develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Students develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77225 RESEARCH IN MATHEMATICS EDUCATION 3 Credit Hours
(Slashed with CI 67225) Current research theory, methodology and results in mathematics education are investigated. Implications for instructional practice and curriculum design are examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77226 IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD 3 Credit Hours
(Slashed with CI 67226) Instructional psychology and materials, including technology, for the effective teaching of mathematics in grades 3-8, with a theoretical emphasis on cognitive development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77240 INTRODUCTION TO ENVIRONMENTAL EDUCATION 3 Credit Hours
(Slashed with CI 67240) Survey course emphasizing current debates in environmental issues, exploring the interconnectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77292 PRACTICUM IN MATHEMATICAL ASSESSMENT 2 Credit Hours
(Repeatable for credit) Practicum experience in designing and administering both formal and informal assessments.
Prerequisite: Two courses from the following: ADED 52267, CI 77224, CI 77226 and/or ECED 50147; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Standard Letter

CI 77310 THEORY AND PRACTICE IN THE TEACHING OF READING 3 Credit Hours
(Slashed with CI 67310) Nature and development of reading, approaches to instruction, relation to learning and development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77312 TEACHING WRITING AS A PROCESS 3 Credit Hours
(Slashed with CI 67312) Course emphasizes a process approach to writing instruction in grades K-12. Examines the steps and studies of composing, evaluation and components of a school-wide program.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77314 SURVEY OF YOUNG ADULT LITERATURE 3 Credit Hours
(Slashed with CI 67314) Presents a survey of selected types of literature appropriate for students in middle school, junior high and high school. Emphasis on evaluating, selecting and teaching.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77319 DIAGNOSIS AND REMEDIATION IN READING 3 Credit Hours
(Slashed with CI 67319) Theory and application of diagnostic principles and remedial reading approaches with school-age children. Cultural linguistic cognitive and affective factors in diagnosing and remediating reading problems.
Prerequisite: CI 77310; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77330 READING IN CONTENT AREAS 3 Credit Hours
(Slashed with CI 67330) Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through post-secondary years.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77339 WRITING ASSESSMENT AND RESPONSE 3 Credit Hours
(Slashed with CI 67339) Exploration of issues in writing assessment, theoretical base for effective formative response to student writing, and design and implementation of writing assessment measures.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77351 PERSPECTIVES ON LITERACY RESEARCH 3 Credit Hours
(Slashed with CI 67351) Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy.
Prerequisite: Curriculum and Instruction major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77352 LITERACY COACHING 3 Credit Hours
(Slashed with CI 67352) Focus on principles and strategies related to literacy coaching, within classrooms, schools and districts.
Prerequisite: CI 77310 and CI 77319 and CI 77330 and CI 77692 and MCED 50005; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77353 MULTICULTURAL VOICES IN TEACHING CHILDREN'S AND YOUNG ADULT LITERATURE 3 Credit Hours
(Slashed with CI 67353) Exploring diverse voices in children's and young adult literature in K-12 literacy classrooms to support culturally responsive teaching and learning and broaden student understandings of diversity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 77392 ADVANCED PRACTICUM AND INTERNSHIP IN READING 1-10 Credit Hours
(Repeatable for credit) Supervised program requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Standard Letter

CI 77395 SPECIAL TOPICS IN READING 1-5 Credit Hours
(Slashed with CI 67395)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in reading.
Prerequisite: Doctoral standing and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CI 77396 INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS 1-5 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 77592 PRACTICUM IN MATHEMATICS EDUCATION INTERVENTION 3 Credit Hours
(Repeatable for credit) Experience in providing leadership in designing intervention programs for schools, and designing curriculum and instruction for individual learners that experience difficulties in learning mathematics.
Prerequisite: ADED 52267 and CI 77224 and CI 77226 and ECED 50147; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CI 77692 CLINICAL PRACTICUM IN CORRECTIVE READING 3 Credit Hours
Application of previous courses includes supervised diagnostic/prescriptive reading work with school-age pupils and diagnostic/remedial reporting.
Prerequisite: CI 77319; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter

CI 77791 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours
(Repeatable for credit) An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 80001 PROSEMINAR IN CURRICULUM AND INSTRUCTION I 3 Credit Hours
The first course in this seminar sequence provides an essential foundation for first-year PhD students, guiding them through the structure, expectations, and resources of the doctoral program. Students will engage with faculty members, gain insights into diverse research areas, and explore opportunities for collaboration within and beyond the program. Through these interactions, students will develop a clearer understanding of their research pathways and the community they are joining. In the second half of the semester, the course shifts focus to introduce foundational scholarly reading and writing skills, equipping students with strategies for analyzing academic texts and managing research literature.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 80090 RESIDENCY II 3 Credit Hours
Advanced doctoral seminar. Structured opportunity for students to synthesize research from the field, explore research options for their dissertation study, review literature for their research studies and discuss the development of their research.
Prerequisite: CI 80089; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory

CI 80169 UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES 3 Credit Hours
(Slashed with CI 60169) This course is designed to help the general practitioner understand and know foundational concepts about multi-lingual students, immigrants, English Language Learners and their families.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 80171 TEACHING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS 3 Credit Hours
(Slashed with CI 60171) General educators will explore the application of teaching methods and a variety of curriculum approaches for immigrant and bi-literate children, and apply more fully their work with families and communities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: CI 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 85025 CONTEMPORARY ISSUES IN SPORT PEDAGOGY - AN INTERNATIONAL PERSPECTIVE 3 Credit Hours
(Slashed with CI 65025) An international perspective on the investigation and study of current problems, issues and trends in sport pedagogy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 85037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours
(Slashed with CI 65037) Course prepares physical education teachers to provide safe, appropriate and individualized accommodations to students with disabilities. All information presented is structured around research-based and cross-culturally appropriate practices in adapted physical education that have been implemented in physical education programs globally.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 85044 PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT 3 Credit Hours
(Slashed with CI 65044) An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 85055 CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY 3 Credit Hours
(Slashed with CI 65055) The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87000 THEORY AND RESEARCH IN TEACHING 3 Credit Hours
Focuses on critical study of contrasting approaches to the study of teaching processes. Surveys issues to give students a more critical perspective and to provoke thought about the relationship among theory research and practice.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87001 THEORY AND RESEARCH IN CURRICULUM 3 Credit Hours
Focuses on historic and contemporary examples of curriculum theory and their application in curriculum design, development and evaluation. Examines modes of inquiry used by curriculum researchers and contemporary curriculum issues.
Prerequisite: CI 77001; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87002 FORMS OF INQUIRY IN CURRICULUM AND INSTRUCTION 3 Credit Hours
Introduction to the history, context, philosophy and ethics of inquiry in curriculum and instruction. Emphasis on acquainting students with faculty lines of inquiry and research foci while preparing them for critical consumption of and significant contribution to inquiry in curriculum and instruction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 87091 SEMINAR IN CURRICULUM AND INSTRUCTION 1-4 Credit Hours
(Slashed with CI 87091)(Repeatable for credit) A wide range of topics for advanced graduate inquiry. Normally, course provides a balance of theoretical study and creative application.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

CI 87098 RESEARCH IN CURRICULUM AND INSTRUCTION 1-15 Credit Hours
(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CI 87340 RESEARCH IN READING 3 Credit Hours
An introduction to a perspective on psychological processes underlying levels of reading from pre-reading to mature reading with implications for instruction.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87342 SEMINAR IN READING AND LANGUAGE 3 Credit Hours
Exploration of some of the issues, methods and findings on the relationship of reading and language. Examination of selected issues such as dialect bilingualism readability language based-strategies for reading instruction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87343 RESEARCH IN TEACHING OF WRITING 3 Credit Hours
Issues and methodologies in research in the teaching of writing. Students review the literature and conduct research in a significant area of writing instruction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87391 SEMINAR IN READING 1-4 Credit Hours
(Repeatable for credit) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

CI 87398 RESEARCH IN READING AND LANGUAGE ARTS 1-15 Credit Hours
(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

CI 87517 NEW LITERACIES IN PRACTICE 3 Credit Hours
(Slashed with CI 67517) Developing technologies are changing the very definition of literacy. Designed to provide an overview of current (and past) theory and practices related to the growing line of inquiry known as new literacies. Participants of the class follow their own paths of inquiry related to the question: How is the definition of literacy changing? Participants engage in discussions of theoretical positions related to this question (from perspectives as new literacies, multi-literacies and arts-based knowing to name a few) as well as encounter the basics of creating a blog or wiki and editing video. Appropriate for any educator who is interested in examining how new literacies are transforming the classrooms.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CI 87791 DOCTORAL SEMINAR IN MATHEMATICS EDUCATION 1-3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Variable content seminar covering mathematics education. Students must seek faculty advisor recommendation prior to registration.
Prerequisite: Curriculum and Instruction major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Career and Technical Teacher Education (CTTE)

CTTE 36014 EVALUATION PRACTICES IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Study and construction of evaluation devices for use in laboratory and related technology courses,test construction, standardized and nonstandardized test procedures. This course includes 10 field/clinical hours.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 40093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with CTTE 50093 and CTTE 70093) Topics of special interest to students desiring to intensify their knowledge in a particular area of career technical education.
Prerequisite: Department permission.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 44092 IN-SERVICE TEACHING - PRACTICUM (ELR) 2 Credit Hours
(Slashed with CTTE 54092) This course provides an overview of/and practice in the concepts necessary to plan, organize and implement meaningful instruction in the laboratory and related classroom. The course provides an opportunity for students to apply classroom management skills as they get one-on-one support from the teacher educators.
Prerequisite: None.
Schedule Type: Practical Experience
Contact Hours: 36 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

CTTE 44099 IN-SERVICE TEACHING - CAPSTONE (ELR) 1 Credit Hour
(Slashed with CTTE 54099) The capstone course provides students an opportunity to demonstrate their knowledge and growth as a career technical education teacher; it essentially provides an opportunity for students to show how they integrate and apply knowledge from their career technical education licensure courses into their responsibilities as teachers. The course will assess the extent to which the students meet the Ohio Standards for the Teaching Profession, through an electronic portfolio and instructional videos from the student as evidence.
Prerequisite: None.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

CTTE 45372 ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS 3 Credit Hours
(Slashed with CTTE 55372) Exploration of issues and trends unique to specific career technical education subjects.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 45377 CAREER AND TECHNICAL EDUCATION: ADVANCED METHODOLOGIES 3 Credit Hours
Selection, organization and presentation of subject matter pertaining to specific subjects in career and technical education. Emphasis on methods and techniques through theory and practice. Course includes 30 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46015 METHODS OF CAREER AND TECHNICAL EDUCATION 3 Credit Hours
(Slashed with CTTE 56015) Organization and management of classroom and laboratory; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46017 STUDENT-CENTERED LEADERSHIP IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Study of the role of leadership and youth organizations in Career Technical Education with emphasis on the organization and purpose of student leadership and the role of the advisor related to leadership in career technical education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46018 DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION (WIC) 3 Credit Hours
(Slashed with CTTE 56018) Developing an understanding of disadvantaged youth stressing their characteristics as they pertain to career technical education program. This course is restricted to Trade & Industrial majors, students registered in the undergraduate Career-Technical Teacher certificate, of those working on a Career-Based Interventnion endorsement.
Prerequisite: Trade and Industrial Education majors or Career-Technical Teacher Education (C205) certificate.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

CTTE 46019 COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS 3 Credit Hours
(Slashed with CTTE 56019) Reviews duties, problems, techniques of home, school and work coordination. Internship site selection, job development, servicing the job station, coordinating classroom and work experience. A study of important linkage to local business/industry and education support agencies for career and technical development.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46020 CURRICULUM GUIDE: DESIGN AND APPLICATION 3 Credit Hours
Methods and techniques involved in developing and utilizing a curriculum guide in career and technical education subjects. This course includes 15 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 46095 SPECIAL TOPICS IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in career-technical education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CTTE 46096 INDIVIDUAL INVESTIGATION IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CTTE 56096) An individual investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.
Prerequisite: None.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 50093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with CTTE 40093 and CTTE 70093) Topics of special interest to students desiring to intensify their knowledge in a particular area or areas of career technical education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 54092 IN-SERVICE TEACHING - PRACTICUM 2 Credit Hours
(Slashed with CTTE 44092) This course provides an overview of/and practice in the concepts necessary to plan, organize and implement meaningful instruction in the laboratory and related classroom. The course provides an opportunity for students to apply classroom management skills and as they get one-on-one support from the teacher educators.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Standard Letter

CTTE 54099 IN-SERVICE TEACHING - CAPSTONE 1 Credit Hour
(Slashed with CTTE 44099) The capstone course provides students an opportunity to demonstrate their knowledge and growth as a career technical education teacher; it essentially provides an opportunity for students to show how they integrate and apply knowledge from their career technical education licensure courses into their responsibilities as teachers. The course will assess the extent to which the students meet the Ohio Standards for the Teaching Profession, through an electronic portfolio and instructional videos from the student as evidence.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 55372 ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS 3 Credit Hours
(Slashed with CTTE 45372) Exploration of issues and trends unique to specific career-technical education subjects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 55377 CAREER AND TECHNICAL EDUCATION: ADVANCED METHODOLOGIES 3 Credit Hours
(Slashed with CTTE 45377) Selection, organization and presentation of subject matter pertaining to specific subjects in career and technical education. Emphasis on methods and techniques through theory and practice. Course includes 30 field clinical hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56002 IN-SERVICE TEACHING 3 Credit Hours
(Slashed with CTTE 46002) Overview of teaching process in career technical teacher education. Emphasizes techniques of skill development and assessment, includes organizing for instruction, individual behavior, organizational relationships and application steps.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56015 METHODS OF CAREER AND TECHNICAL EDUCATION 3 Credit Hours
(Slashed with CTTE 46015) Organization and management of classroom and laboratory; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56017 STUDENT-CENTERED LEADERSHIP IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Study of the role of leadership and youth organizations in Career Technical Education with emphasis on the organization and purpose of student leadership and the role of the advisor related to leadership in career technical education.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56018 DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION 3 Credit Hours
(Slashed with CTTE 46018) Developing an understanding of disadvantaged youth stressing their characteristics as they pertain to career technical education programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56019 COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS 3 Credit Hours
(Slashed with CTTE 46019) Reviews duties, problems, techniques of home, school and work coordination. Internship site selection, job development ,servicing the job station, coordinating classroom and work experience. A study of important linkage to local business/ industry and education support agencies for career and technical development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56020 CURRICULUM GUIDE: DESIGN AND APPLICATION 3 Credit Hours
(Slashed with CTTE 46020) Methods and techniques involved in developing and utilizing a curriculum guide in career and technical education subjects. This course includes 15 field clinical hours.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 56095 SPECIAL TOPICS IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Specialized offerings in response to emerging or selected program needs in career-technical education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CTTE 56096 INDIVIDUAL INVESTIGATION IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CTTE 46096) An individual investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CTTE 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: CTTE 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

CTTE 66001 PRINCIPLES AND PRACTICES IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Study of principles, current practices and trends relating to modern programs of career technical education and relationships to the total plan of public education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 66003 ANALYSIS OF HUMAN RESOURCE DEVELOPMENT 3 Credit Hours
Provides analysis of human resource development from global,national state and local perspectives including social economic political and emo graphic influences. Includes the application of the contemporary workforce to engage in life long learning to keep career and technical skills updated.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 66004 PROGRAM EVALUATION IN CAREER TECHNICAL EDUCATION 3 Credit Hours
Designed to provide the skills and knowledge necessary to evaluate the effectiveness and efficiency of career-technical education curriculum programs personnel.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 66005 SPECIAL POPULATIONS IN CAREER TECHNICAL EDUCATION 3 Credit Hours
A study of the special populations student in career technical education programs emphasizing characteristics, curriculum modification, instruction and job placement.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CTTE 66095 SPECIAL TOPICS IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Specialized offerings in response to emerging or selected program needs in career-technical education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CTTE 66096 INDIVIDUAL INVESTIGATION IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CTTE 76096) An investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 70093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with CTTE 40093 and CTTE 50093) Topics of special interest to students desiring to intensify their knowledge in a particular area or areas of career technical education.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 76095 SPECIAL TOPICS IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit)Specialized offerings in response to emerging or selected program needs in career-technical education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CTTE 76096 INDIVIDUAL INVESTIGATION IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with CTTE 66096) An investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

CTTE 86098 ADVANCED RESEARCH IN CAREER-TECHNICAL EDUCATION 1-15 Credit Hours
(Repeatable for credit)Student pursues an individual research project on a specialized career technical education topic with approval and under the direction of an instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Early Childhood Education (ECED)

ECED 10120 INTRODUCTION TO EARLY CHILDHOOD SERVICES 1 Credit Hour
Orientation to the field of early childhood education: historical and present day programs and services for young children 0-12. This course provides an overview of early childhood programs and related services for children and their families birth through age 12. The course is intended for early childhood majors as well as those who may be interested in related fields or are undecided.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

ECED 20101 UNDERSTANDING YOUNG CHILDREN'S DEVELOPMENT 3 Credit Hours
Growth and development of young children from birth to age 8 as it occurs along both typical and atypical pathways. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 10120; and special approval.
Pre/corequisite: Minimum C grade in SPED 23000; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

ECED 20102 SOCIAL STUDIES AND THE ARTS IN PRESCHOOL 3 Credit Hours
Young children's development in the expressive arts and social studies; implications for development of the environment and integrated curriculum and teaching methods for preschool children. There are field-based assignments in this course.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 20103 PRESCHOOL TEACHING AND LEARNING 3 Credit Hours
(Equivalent to EYEC 22000) Integrated field-based seminar that gives students a foundation for the ways children learn during the preschool years. This course focuses on the importance of play, guidance of young children, designing quality environments, and authentic documentation and assessment. There are field-based assignments in this course.
Prerequisite: Admission to advanced standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 20105 FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS 3 Credit Hours
(Equivalent to EYEC 21005) Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in preschool classrooms. There are field-based assignments in this course.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

ECED 20163 UNDERSTANDING YOUNG CHILDREN: TYPICAL AND ATYPICAL PATHWAYS 3 Credit Hours
Growth and development of young children from birth to age eight as it occurs along both typical and atypical pathways. Pre/Corequisite: SPED 23000; and admission to advanced study.
Prerequisite: ECED 10120; and special approval.
Corequisite: ECED 30134 and 30164 and 40145.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Education

ECED 20192 CLINICAL EXPERIENCE IN PRESCHOOL (ELR) 2 Credit Hours
(Equivalent to EYEC 22192) Internship in preschool settings. This is a supervised internship working alongside a preschool teacher in a school/childcare setting. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 14 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 30123 LANGUAGE AND LITERACY FOR THE PRESCHOOL CHILD 3 Credit Hours
(Equivalent to EYEC 22130) An examination of the process of language and literacy development in preschool children. The course focuses on how preschool teachers integrate knowledge of development with early school and family literacy learning.
Prerequisite: Admission to advanced study.
Corequisite: ECED 30142 and ECED 30147 and ECED 40165.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30134 INTEGRATED EXPRESSIVE ARTS AND SOCIAL STUDIES IN PRESCHOOL 3 Credit Hours
Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children.
Prerequisite: Admission to advanced study.
Corequisite: ECED 20163 and ECED 30164 and ECED 40145 (ECED Block I).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30142 PARTNERSHIPS AND GUIDANCE FOR PRESCHOOL CHILDREN 3 Credit Hours
(Equivalent to EYEC 21005) Appropriate guidance strategies set the foundation for positive experiences our youngest children in school; patterns learned early often set a foundation for primary school entry. This course addresses the concerns of guidance family partnerships and inclusive schooling with preschool children and their educators. It takes a proactive stance, helping teachers develop a constructive guidance approach.
Prerequisite: Admission to advanced study.
Corequisite: ECED 30123 and ECED 30147 and ECED 40165.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30144 INTEGRATED CURRICULUM FOR SOCIAL STUDIES 3 Credit Hours
Objectives, resources, curriculum development, methods of teaching social studies and expressive arts at kindergarten and primary levels; emphasis on developing integrated social studies curriculum; infusing multiple forms of expressive arts into integrated curriculum and assessment; and engaging professional collaboration with teachers in the field.
Prerequisite: ECED 30134; and admission to advanced study.
Corequisite: ECED 40142 and ECED 40105 and ECED 40107 and ECED 40123.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30147 EARLY EXPERIENCES IN MATHEMATICS AND SCIENCE 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics and science in preschool settings with a theoretical emphasis on cognitive development.
Prerequisite: MATH 14001 and 14002 with a minimum of a C grade; and admission to advanced study.
Corequisite: ECED 30123 and ECED 30142 and ECED 40165.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30164 PRESCHOOL EDUCATION 3 Credit Hours
Integrated curriculum utilizing principles of developmentally appropriate practice in settings for children under five. Field experience two mornings a week. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Admission to advanced standing.
Corequisite: ECED 20163 and ECED 30134 and ECED 40145 (ECED Block I).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30201 TEACHING EARLY READERS 3 Credit Hours
(Equivalent to EYEC 22130) An examination of the process of languages and literacies development. This course focuses on teaching literacy to preschool and primary age students
Prerequisite: Minimum C grade in the following courses: ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block 2); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30202 MATHEMATICS AND SCIENCE IN THE EARLY YEARS 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics and science in preschool and early primary settings with a theoretical emphasis on cognitive development. Student engagement through authentic, inquiry-based, integrated experiences are explored.
Prerequisite: Minimum C grade in the following courses: ECED 20101, ECED 20102, ECED 20103 and ECED 20105 (Block I); and a satisfactory grade in ECED 20192; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30205 CULTURALLY AND LINGUISTICALLY SUSTAINING PEDAGOGY 3 Credit Hours
(Equivalent to EYEC 22140) This course extends students' knowledge of the application of culturally and linguistically sustaining curriculum for students in preschool and primary years classrooms. This course has a field component attached to it. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Minimum C grade in the following courses: ECED 20101, ECED 20102, ECED 20103, ECED 20105 (Block I); and a satisfactory grade in ECED 20192; admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 30292 CLINICAL EXPERIENCE PRIMARY II (ELR) 1 Credit Hour
A structured tutoring experience with K-5 students in collaboration with local schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Minimum C grade in ECED 20101, ECED 20102, ECED 20103 and ECED 20105 (Block I); and a satisfactory grade in ECED 20192; and admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 30392 CLINICAL EXPERIENCE PRIMARY III (ELR) 1 Credit Hour
A structured field experience with K-5 students in collaboration with local schools. Students are assigned a mentor teacher/classroom and participate in all classroom activities at the field site weekly. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Minimum C grade in ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and a satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 40092 INTEGRATED FIELD EXPERIENCES (ELR) 3 Credit Hours
(Repeatable for credit) Participation in experiences offering opportunity to plan and teach reading, language arts, integrated content units and observe students in early childhood classrooms. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Admission to advanced study.
Corequisite: ECED 40114 and ECED 40126 and ECED 40127 and ECED 40147.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 40093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 50093 and ECED 70093) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent early childhood faculty members and may include experts from outside agencies and other institutions.
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 40105 APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN 3 Credit Hours
(Slashed with ECED 50105) An examination of phonics in early reading and writing development, effective strategies for teaching and assessing phonics appropriate for kindergarten and primary grade children.
Prerequisite: ECED 30123; and admission to advanced study.
Corequisite: ECED 30144 ECED 40107 and ECED 40123 and ECED 40142 (Block III).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40107 TEACHING MATHEMATICS: EARLY YEARS I 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-1 with a theoretical emphasis on cognitive development.
Prerequisite: ECED 30147 and MATH 14001 and 14002; and admission to advanced study.
Corequisite: ECED 30144 and ECED 40105 and ECED 40123 and ECED 40142.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40114 TEACHING SCIENCE IN THE EARLY YEARS 3 Credit Hours
(Slashed with ECED 50114) This course investigates engaging young children in inquiry-based processes of science. Emphasis is given to creating developmentally appropriate experiences in accordance to NAEYC guidelines. National and state science standards as well as the college and graduate school of education conceptual framework. Attention is focused on the use of science materials safety planning assessment and incorporating science across the curriculum.
Prerequisite: ECED 30147; and admission to advanced study.
Corequisite: ECED 40126 and ECED 40127 and ECED 40092 and ECED 40147 (Block IV).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS 3 Credit Hours
(Slashed with ECED 50123) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.
Prerequisite: Admission to advanced study.
Corequisite: ECED 30144 and ECED 40105 and ECED 40107 and ECED 40142.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40125 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
Interdisciplinary inquiry into teaching as a professional practice in early childhood education. Completion of K-STEP unit assessment.
Prerequisite: A minimum C grade in the following courses: ECED 40401, ECED 40402, ECED 40403, ECED 40404 and ECED 44444 (Block IV); and a satisfactory grade in ECED 40492; and admission to advanced study.
Corequisite: ECED 40292.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40126 DEVELOPMENTAL READING AND WRITING: EARLY YEARS 3 Credit Hours
(Slashed with ECED 50126) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.
Prerequisite: ECED 40105; and admission to advanced study.
Corequisite: ECED 40092 and ECED 40114 and ECED 40127 and ECED 40147.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40127 DEVELOPING A BALANCED LITERACY PROGRAM (WIC) 3 Credit Hours
This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction.
Prerequisite: ECED 40105; and admission to advanced study.
Corequisite: ECED 40114 and ECED 40126 and ECED 40092 and ECED 40147.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ECED 40142 HOME-SCHOOL-COMMUNITY-PARTNERSHIPS IN DIVERSE CONTEXTS (ELR) 3 Credit Hours
(Slashed with ECED 50142) Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the primary grades.
Prerequisite: Admission to advanced study.
Corequisite: ECED 30144 and ECED 40105 and 40107 and 40123.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, TAG Education

ECED 40145 MUSIC MOVEMENT IN PRE-PRIMARY EDUCATION 3 Credit Hours
(Slashed with ECED 50145) Music and movement for pre-primary children. Course intended for majors in early childhood education or other persons desiring additional work with pre-primary children.
Prerequisite: Admission to advanced study.
Corequisite: ECED 20163 and ECED 30134 and ECED 30164 (ECED Block I).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40147 TEACHING MATHEMATICS:EARLY YEARS II 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-3 with a theoretical emphasis on cognitive development.
Prerequisite: MATH 14001 and 14002 with a minimum C grade; and admission to advanced study.
Corequisite: ECED 40114 and ECED 40126 and ECED 40127 and ECED 40092 (Block IV).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40151 GUIDANCE OF YOUNG CHILDREN 3 Credit Hours
Principles and practices of appropriate guidance for young children, intervention strategies, resources and materials for guidance.
Prerequisite: Admission to advanced study.
Corequisite: ECED 40105 and 40107 and 40142 and CULT 29535.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40165 INTEGRATED APPLICATION OF PRESCHOOL CURRICULUM 3 Credit Hours
(Equivalent to EYEC 22140) Internship in preschool. Advanced integrated preschool curriculum utilizing principles of developmentally appropriate practice focusing on infant toddler and preschool age children. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: ECED 30164.
Corequisite: ECED 30123 and ECED 30142 and ECED 30147.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40196 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) Open to seniors in ECED. Intensive individual study on an early childhood topic selected by student and adviser.
Prerequisite: Admission to advanced study; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 40203 CRITICAL INQUIRY: THE INTERNATIONAL BACCALAUREATE FRAMEWORK 3 Credit Hours
(Slashed with ECED 50203) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.
Prerequisite: Minimum C grade in the following courses ECED 20101, ECED 20102, ECED 20103, ECED 20105 (Block I); and satisfactory grade in ECED 20192; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40292 INTERNSHIP IN ELEMENTARY SCHOOLS (ELR) 4-9 Credit Hours
(Repeatable for credit) Internship in grades K-5, full day for 15 weeks. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: ECED 40492; and admission to advanced study.
Corequisite: ECED 40125.
Schedule Type: Practical Experience
Contact Hours: 20-40 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ECED 40301 TEACHING SOCIAL STUDIES IN THE ELEMENTARY YEARS 3 Credit Hours
Objectives, resources, curriculum development, and methods of teaching social studies K-fifth grade with an emphasis on developing integrated social studies curriculum and engaging professional collaboration with teachers in the field. Emphasis on non-dominant narratives will be considered. At least one field experience assignment will be integrated in this course.
Prerequisite: Minimum C grade in the following courses: ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40302 TEACHING PHONICS AND WORD STUDY 3 Credit Hours
(Slashed with ECED 50302) An examination of phonics in reading and writing development; effective strategies for teaching and assessing phonics appropriate for K-5 students.
Prerequisite: Minimum C grade in the following courses ECED 20101, ECED 20102, ECED 20103 and ECED 20105 (Block I); and a satisfactory grade in ECED 20192; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40303 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development; application of curriculum planning, teaching strategies, and task analysis. There are field-based assignments in this course.
Prerequisite: Minimum C grade in the following courses: ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40304 TEACHING SCIENCE IN THE ELEMENTARY YEARS 3 Credit Hours
(Slashed with ECED 50304) This course investigates engaging students in inquiry-based science practices and big science ideas. Emphasis is given to creating developmentally appropriate experiences.
Prerequisite: Minimum C grade in the following courses: ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40305 GUIDANCE AND ASSESSMENT: SUPPORTING ALL CHILDREN 3 Credit Hours
This course addresses the complexities of addressing individual student needs within the larger classroom setting. Strategies specific to guidance and assessment are examined to meet social/emotional and cognitive development needs and set the foundation for positive experiences in school. This course highlights a proactive stance, helping teachers develop a constructive guidance approach and meaningful assessment practices. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 30202, ECED 30205, ECED 40203 and ECED 40302 (Block II); and satisfactory grade in ECED 30292; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40401 TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS 3 Credit Hours
This course focuses on the following aspects for the elementary grades: science and social studies content and practices; planning and teaching of science and social studies; and critical literacy and non-dominant narratives. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 30201, ECED 40301, ECED 40303, ECED 40304 and ECED 40305 (Block III); and satisfactory grade in ECED 30392; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40402 TEACHING READERS IN THE ELEMENTARY YEARS 3 Credit Hours
(Slashed with ECED 50402) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.
Prerequisite: ECED 30201 and ECED 40301 and ECED 40303 and ECED 40304 and ECED 40305 (Block III); and satisfactory grade in ECED 30392; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40403 TEACHING WRITERS IN THE ELEMENTARY YEARS (WIC) 3 Credit Hours
This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction. There are field-based assignments in this course.
Prerequisite: ECED 30201 and ECED 40302 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ECED 40404 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 30201, ECED 40301, ECED 40303, ECED 40304 and ECED 40305 (Block III); and satisfactory grade in ECED 30392; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 40492 CLINICAL EXPERIENCE PRIMARY IV (ELR) 1 Credit Hour
A structured field experience with K-5 students in collaboration with local schools. Students are assigned a mentor teacher/classroom and participate in all classroom activities at the field site weekly. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Minimum C grade in ECED 30201, ECED 40301, ECED 40303, ECED 40304 and ECED 40305 (Block III); and admission to advanced study.
Corequisite: ECED 44444.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ECED 44444 DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL 3 Credit Hours
Growth and development of children in grades four and five; implications for the application to the intermediate classroom; developmentally-appropriate practices including differentiation; examination of classroom systems and whole-child learning including impacts of trauma and stress. There are field-based assignments in this course.
Prerequisite: Minimum C grade in ECED 30201, ECED 40301, ECED 40303, ECED 40304 and ECED 40305 (Block III); and satisfactory grade in ECED 30392; and admission to advanced study.
Corequisite: ECED 40492.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 40093 and ECED 70093) Variable topic workshop in early childhood education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 50105 APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN 3 Credit Hours
An examination of phonics in early reading and writing development, effective strategies for teaching and assessing phonics appropriate for kindergarten and primary grade children.
Prerequisite: ECED 60167; and Early Childhood Education major; and graduate standing.
Corequisite: ECED 50147, ECED 50114 and ECED 50126.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50114 TEACHING SCIENCE IN THE EARLY YEARS 3 Credit Hours
(Slashed with ECED 40114) This course investigates engaging young children in inquiry-based processes of science. Emphasis is given to creating developmentally appropriate experiences in accordance to NAEYC guidelines. National and state science standards as well as the college and graduate school of education conceptual framework. Attention is focused on the use of science materials safety planning assessment and incorporating science across the curriculum.
Prerequisite: Graduate standing in the Master of Arts in Teaching program.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS 3 Credit Hours
(Slashed with ECED 40123) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.
Prerequisite: ECED 60113 and 60152; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50125 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ECED 40125) Interdisciplinary inquiry into teaching as a professional practice in early childhood education. Completion of a unit wide assessment determined by EHHS teacher education. Corequisites: ECED 67292
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50126 DEVELOPMENTAL READING AND WRITING: THE EARLY YEARS 3 Credit Hours
(Slashed with ECED 40126) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50142 HOME, SCHOOL AND COMMUNITY RELATIONS 3 Credit Hours
(Slashed with ECED 40142) Approaches to parent and community involvement in the education and welfare of children. Understanding of role of community agencies and organizations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50145 MUSIC AND MOVEMENT IN PRE-PRIMARY EDUCATION 3 Credit Hours
(Slashed with ECED 40145) Music and movement for pre-primary children. Course intended for majors in early childhood education or other persons desiring additional work with pre-primary children.
Prerequisite: Graduate standing; and special approval from instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50147 TEACHING MATHEMATICS:EARLY YEARS 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in prekindergarten through grade three with a theoretical emphasis on cognitive development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50203 CRITICAL INQUIRY: THE INTERNATIONAL BACCALAUREATE FRAMEWORK 3 Credit Hours
(Slashed with ECED 40203) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50301 TEACHING SOCIAL STUDIES IN K-5 CLASSROOMS 3 Credit Hours
Social Studies objectives, resources, curriculum development, and methods of teaching K-5 with an emphasis on developing integrated social studies curriculum and engaging professional collaborations with teachers in the field is emphasized. Narratives of diversity and difference with an emphasis upon social justice pedagogies are discussed and described. At least one field based experience assignment will be integrated into teaching and learning in this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50302 TEACHING PHONICS AND WORD STUDY 3 Credit Hours
(Slashed with ECED 40302) An examination of phonics in reading and writing development, effective strategies for teaching and assessing phonics appropriate for K-5 students.
Prerequisite: Early Childhood Education major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50303 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50304 TEACHING SCIENCE IN THE ELEMENTARY YEARS 3 Credit Hours
(Slashed with ECED 40304) This course investigates engaging students in inquiry-based science practices and big science ideas. Emphasis is given to creating developmentally appropriate experiences.
Prerequisite: Majors enrolled in a Master of Arts in Teaching degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50402 TEACHING READERS IN THE ELEMENTARY YEARS 3 Credit Hours
(Slashed with ECED 40402) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.
Prerequisite: ECED 50302 and ECED 60201 with a minimum C grade; and Early Childhood Education within the Master of Arts in Teaching degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50403 TEACHING WRITERS IN THE ELEMENTARY YEARS 3 Credit Hours
This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction.
Prerequisite: ECED 50302 and ECED 60201; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 50404 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II 3 Credit Hours
Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development. There are field based assignments in this course.
Prerequisite: ECED 50303 and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 54444 DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL 3 Credit Hours
Growth and development of children in grades four and five; implications for the application to the intermediate classroom; developmentally-appropriate practices including differentiation; examination of classroom systems and whole-child learning including impacts of trauma and stress.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60101 CONSTRUCTIVIST TEACHING IN TRADITIONAL AND NON-TRADITIONAL EARLY CHILDHOOD SETTINGS 3 Credit Hours
Theorists and researchers with a constructivist orientation will be examined in relationship to teacher beliefs and diverse settings. The course will focus on constructivist practices emphasizing child sensitive curriculum within traditional (classrooms and schools) and non-traditional settings (museums, forests, etc.).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60102 DEVELOPING A BALANCED LITERACY PROGRAM 3 Credit Hours
An examination of own teaching practice focusing on assessment strategies to inform decision making for individual children and evaluation strategies to fine tune a balanced literacy program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60103 SOCIAL STUDIES AND THE ARTS IN PRESCHOOL 3 Credit Hours
Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60110 TEACHING HUMANITIES: EARLY YEARS 3 Credit Hours
Looking at Humanities through the lens of a young child’s experience in learning with a focus on visual thinking and expression, music and movement.
Prerequisite: Admission to advanced study; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60112 HUMANITIES FOR CHILDREN 2 Credit Hours
(Slashed with ECED 70112) Relevance of humanities as applied to education of young children.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECED 60113 PRESCHOOL EDUCATION 3 Credit Hours
(Slashed with ECED 70113) In-depth study of curriculum development in preschool programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60115 SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION 3 Credit Hours
(Cross-listed with MCED 60115) This course introduces early and middle childhood educators to STEM (Science, Technology, Engineering, Mathematics) for students in K-6 classroooms. This includes a foundation and overview of the what, how, and why STEM is included in K-6 classrooms. As a foundations course, students will gain exposure to integrating the STEM disciplines, assessment of mathematics and science in STEM, and aspects of developmentally appropriate STEM for early and middle childhood settings.
Prerequisite: Graduate standing.
Pre/corequisite: ECED 50304.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60116 SCIENCE TECHNOLOGY ENGINEERING AND MATH INQUIRY FOR EARLY CHILDHOOD EDUCATION 3 Credit Hours
This course builds on STEM Foundations for Early Childhood Education. Interdisciplinary teaching of STEM for young children is the main focus, with attention to specific pedagogical applications. Thus, inquiry as a pedagogic approach to STEM application is a central, concurrent feature of this course.
Prerequisite: ECED 60115; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60145 TEACHING SOCIAL STUDIES: EARLY YEARS 3 Credit Hours
Involves the systematic study of the theories, methods, and materials necessary to successfully teach social studies to diverse populations of pre-Kindergarten and elementary school students growing up in a global society. The course will consider aspects of the history of social studies and theory and research in social education as a background for understanding methods and materials.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60151 SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 70151) Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship making, guidance strategies and interventions, building and facilitating classroom communities and promoting caring classrooms will be the focus of this course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60152 APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN 3 Credit Hours
(Slashed with ECED 70152) Examination of theories pertaining to child development which have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60156 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours
(Cross-listed with SPED 63956 and SPED 73956) Issues facing children within family/society; history of early childhood services; theoretical perspectives; implications of childhood disabilities; recommended assessment, intervention and evaluation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM 3 Credit Hours
(Slashed with ECED 70158) Course examines postmodern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60159 FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours
(Cross-listed with SPED 63952) Examines issues facing families and professionals serving young children who are at risk, disabled and typically developing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60160 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours
(Cross-listed with SPED 63955) Overview of typical/atypical development pathways age three to grade three: theories of behavior, implications of atypical development on play/learning; development within ecological framework.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60163 CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 70163) The course is an examination of contemporary issues with young children, families, school communities, and diverse populations detailing the philosophical, social, and political ramifications of the study of children highlighting current research, practices and policies. This course will examine a body of literature, (recent seminal works of impact in early childhood), which encompass a few of the pervasive dilemmas and debates shaping the early childhood field in the U.S. today (with a global international backdrop). International perspectives on issues will be liberally juxtaposed in conjunction with U.S. issues, and overall this course will address how educators have and can structure their practice with various communities to support young children, families, and society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60167 LANGUAGE AND LITERACY:UNDERSTANDING DEVELOPMENT 3 Credit Hours
(Slashed with ECED 70167) The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multi-cultural language. Topics specifically related to classroom teaching include the assessment of language delays and disorders and strategies for connecting oral language to literacy in preschool.
Prerequisite: Graduate standing.
Corequisite: ECED 60152.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60170 WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
The seminar examines publication possibilities within early childhood education. A wide range of writing (e.g., journals, book reviews, training modules-manuals) will be reviewed for topics concerning young children (i.e., education, development, families, care, schools, health, and-or their teachers-providers.) This seminar will rely greatly on student participation for determining topics in support of individual interests, research, teaching practices at the university level, curriculum practices in the early childhood classrooms and settings, and more.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 60201 TEACHING EARLY READERS 3 Credit Hours
An examination of the process of languages and literacies development. This course focuses on teaching literacy to primary age students.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ECED 60199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 60392 CLINICAL EXPERIENCE PRIMARY III 1 Credit Hour
A structured field experience with K-5 students in collaboration with local schools. Students are assigned a mentor teacher/classroom and participate in all classroom activities at the field site weekly. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 60492 CLINICAL EXPERIENCE PRIMARY IV 1 Credit Hour
A structured field experience with K-5 students in collaboration with local schools. Students are assigned a mentor teacher/classroom and participate in all classroom activities at the field site weekly. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 63333 FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS 3 Credit Hours
Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the primary grades.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 67291 SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours
(Repeatable for credit) (Slashed with ECED 77291) Seminar in early childhood education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECED 67292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours
(Repeatable for credit) (Slashed with ECED 77292) Practicum/internship in early childhood education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 67295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 77295) Special topics in early childhood education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

ECED 67296 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) Individual investigation in early childhood education.
Prerequisite: Graduate standing; and permission.
Schedule Type: Individual Investigation
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 67298 RESEARCH IN EARLY CHILDHOOD EDUCATION 1-15 Credit Hours
(Repeatable for credit) Research in early childhood education.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 67392 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours
(Repeatable for credit) Practicum/internship in early childhood education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place. The practicum is 50 clock hours per credit hour.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 70093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 40093 and ECED 50093)
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

ECED 70112 HUMANITIES FOR CHILDREN 2 Credit Hours
(Slashed with ECED 60112) Relevance of humanities as applied to education of young children.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ECED 70113 PRESCHOOL EDUCATION 3 Credit Hours
(Slashed with ECED 60113) In-depth study of curriculum development in preschool programs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70151 SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 60151) Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship- making, guidance strategies and interventions, building and facilitating classroom communities and promoting caring classrooms will be the focus of this course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70152 APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN 3 Credit Hours
(Slashed with ECED 60152) Examination of theories pertaining to child development which have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM 3 Credit Hours
(Slashed with ECED 60158) Course examines postmodern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70163 CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 60163) The course is an examination of contemporary issues with young children, families, school communities, and diverse populations detailing the philosophical, social, and political ramifications of the study of children highlighting current research, practices and policies. This course will examine a body of literature (recent seminal works of impact in early childhood), which encompass a few of the pervasive dilemmas and debates shaping the early childhood field in the U.S. today (with a global international backdrop). International perspectives on issues will be liberally juxtaposed with U.S. issues, and overall this course will address how educators have and can structure their practice with various communities to support young children, families and society.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70167 LANGUAGE AND LITERACY:UNDERSTANDING DEVELOPMENT 3 Credit Hours
(Slashed with ECED 60167) The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multi-cultural language. Topics specifically related to classroom teaching include the assessment of language, delays and disorders and strategies for connecting oral language to literacy in preschool.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 70170 WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION 3 Credit Hours
(Slashed with ECED 60170) The seminar examines publication possibilities within the field of early childhood education. A wide range of writing (e.g., journals, boos reviews, training modules-manuals) will be reviewed for topics concerning young children (i.e., education, development, families, care, schools, health, and-or their teachers providers.) This seminar will rely a great deal on student participation for determining topics in support of individual interests, research, teaching practices at the university level, curriculum practices in the early childhood classrooms and settings and more.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECED 77291 SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours
(Repeatable for credit) (Slashed with ECED 67291) Seminar in ECED.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECED 77292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours
(Repeatable for credit) (Slashed with ECED 67292) Practicum/ internship in ECED. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-30 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ECED 77295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) (Slashed with ECED 67295) Special topics in ECED.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

ECED 80291 ADVANCED SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours
(Repeatable for credit) Advanced seminar in ECED.
Prerequisite: Doctoral standing; and permission.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ECED 80295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours
(Repeatable for credit) Special topics in ECED.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

ECED 80298 RESEARCH IN EARLY CHILDHOOD EDUCATION 1-15 Credit Hours
(Repeatable for credit)Research in ECED.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

Educational Technology (ETEC)

ETEC 39525 EDUCATIONAL TECHNOLOGY 3 Credit Hours
Develops knowledge and skills in designing, implementing, and assessing learning experiences, using various digital tools and resources to support teaching, learning and research.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 40093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with ETEC 50093) Variable topic workshop designed to respond to emerging or specialized needs in educational technology.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

ETEC 47400 TRENDS IN EDUCATIONAL TECHNOLOGY 3 Credit Hours
(Slashed with ETEC 57400) This course explores current trends in educational technology and its transformative impact on teaching, learning, and human performance improvement. Students will examine how digital and networked technologies can enhance instructional practices and foster meaningful learning experiences. Through readings, critical analyses of emerging learning tools and interactive projects, students will gain practical experience with current educational technologies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 47403 INSTRUCTIONAL DESIGN 3 Credit Hours
(Slashed with ETEC 57403) Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 47427 TECHNOLOGY AND LEARNING 3 Credit Hours
(Slashed with ETEC 57427) This course provides an overview of major theoretical perspectives and frameworks that have influenced the research and practice of learning and teaching with technology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 47495 SPECIAL TOPICS: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Specialized offering in response to emerging or selected program needs in educational technology.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ETEC 47496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a faculty member.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with ETEC 40093) Variable topic workshop designed to respond to emerging or specialized needs in educational technology.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

ETEC 57400 TRENDS IN EDUCATIONAL TECHNOLOGY 3 Credit Hours
(Slashed with ETEC 47400) This course explores current trends in educational technology and its transformative impact on teaching, learning and human performance improvement. Students will examine how digital and networked technologies can enhance instructional practices and foster meaningful learning experiences. Through readings, critical analyses of emerging learning tools and interactive projects, students will gain practical experience with current educational technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 57403 INSTRUCTIONAL DESIGN 3 Credit Hours
(Slashed with ETEC 47403) Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 57427 TECHNOLOGY AND LEARNING 3 Credit Hours
(Slashed with ETEC 47427) This course provides an overview of major theoretical perspectives and frameworks that have influenced the research and practice of learning and teaching with technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Students electing to complete a thesis to fulfill the requirements for the Master of Education degree must register for at least one semester of Thesis I.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 60299 THESIS II 2 Credit Hours
(Repeatable for credit) When 6 credits of Thesis I have been complete, students electing to complete a thesis to fulfill the requirements for the Master of Education degree must continue to register each semester for Thesis II until all degree requirements have been completed.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 67402 MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS 3 Credit Hours
(Slashed with ETEC 77402) Provides skills in planning, organizing, administering and evaluating school-based technology and media centers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67410 SIMULATIONS AND GAMES IN EDUCATION 3 Credit Hours
(Slashed with ETEC 77410) Introduction to digital simulations and games as educational tools. Students develop proficiency in applying these tools to learning. Surveys research and design principles and introduces game editors for developing simulations and games.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67411 DESIGNING VISUALS FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 77411) Investigates research in perception and cognition and its influence on principles and best practices in educational visual design. Focuses on the design of educational visuals and media in print, video, and computer-based technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67420 RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY 3 Credit Hours
(Slashed with ETEC 77420) Educational Technology is a broad field that intersects many disciplines and provides numerous opportunities for individuals with varied interests. Having knowledge of the important issues in educational technology research enables students to evaluate both rigor and usefulness of empirical studies in the field of educational technology. This course is designed to explore significant issues in educational technology, including the latest research into how technology can most effectively facilitate learning.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67425 MANAGING TECHNOLOGICAL CHANGE 3 Credit Hours
(Slashed with ETEC 77425) This course examines how to implement technological change within organizations, with a particular focus on those involved in education, training and performance improvement. As new hardware and software technologies are continually developed and promoted as revolutionary tools for teaching and learning and as innovative instructional strategies emerge that effectively leverage these technologies, organizations face critical decisions. This course addresses key questions, including how to identify the technologies best suited for teaching and learning, how to pinpoint sources of resistance and obstacles to change, and how to design projects that ensure successful technological implementation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67426 MANAGING SCHOOL TECHNOLOGIES 3 Credit Hours
(Slashed with ETEC 77426) Specifically for students interested in working in school settings managing computer labs and school servers and networks. Covers managing aspects of computer hardware, software and updates, and networks.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67432 DESIGNING MULTIMEDIA FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 77432) Application of evidence-based instructional methods to the design, development, and evaluation of multimedia learning materials. Research-based guidelines for multimedia learning that influence learning outcomes. Uses various tools to design and develop multimedia projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67434 EMERGING TECHNOLOGIES FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 77434) Focuses on the theoretical foundations, design, and development of educational delivery systems employing leading-edge and emergent technologies. Includes presentations and activities that employ the technologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67435 VIRTUAL AND AUGMENTED REALITY 3 Credit Hours
(Slashed with ETEC 77435) Virtual augmented reality can help provide engaging educational experiences. This course enables students to understand best practices and core guidelines in these technologies. Design principles and software for developing environments are included.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67442 DESIGNING ONLINE AND BLENDED COURSES 3 Credit Hours
(Slashed with ETEC 77442) This course focuses on applying instructional design principles to the development of an online/blended course. Students will follow a structured instructional design process to analyze, design, develop and evaluate an online/blended course relevant to their professional contexts. Students will also use a learning management system (e.g., Canvas, Blackboard, Google Classroom) for delivering their courses.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67444 TEACHING ONLINE AND BLENDED COURSES 3 Credit Hours
(Slashed with ETEC 77444) This course explores pedagogical approaches tailored for online and blended learning, including strategies for facilitating synchronous and asynchronous discussions, embedding assessments, enhancing interactivity, fostering student motivation, supporting peer assessment and feedback, encouraging collaboration and community building and integrating self-directed learning. Students will plan, create, implement and evaluate instructional and motivational activities for online and blended environments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67445 DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS 3 Credit Hours
(Slashed with ETEC 77445) Develop knowledge of the systematic approach to instructional design, the contexts of application of this approach, and the roles of professionals in this field in adapting and applying the process in a flexible and innovative manner, especially to large-scale projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67449 RESEARCH IN ONLINE AND BLENDED LEARNING 3 Credit Hours
(Slashed with ETEC 77449) Online and blended learning offers democratized education and endless opportunities in the fields of education and training because of its accessibility and flexibility. This course serves as an introduction to research and theory in online and blended learning. We will examine major concepts in online and blended learning, theoretical underpinnings of the field, historical foundations and trends, as well as important research paradigms in online and blended learning research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 67491 SEMINAR: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with ETEC 77491) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ETEC 67492 PRACTICUM AND PORTFOLIO 3 Credit Hours
Apply knowledge and skills related to the design, development, implementation, management, and evaluation of educational technologies through practical field experience in a school setting or an environment where educational technology services and programs are being used. Create a standards-based online portfolio to demonstrate professional competence and growth.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 67495 SPECIAL TOPICS IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Specialized offering in response to emerging or selected program needs in educational technology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ETEC 67496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ETEC 77496) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 67498 INDEPENDENT RESEARCH IN EDUCATIONAL TECHNOLOGY 1-5 Credit Hours
(Repeatable for credit) (Slashed with ETEC 77498) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 3-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 77402 MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS 3 Credit Hours
(Slashed with ETEC 67402) Provides skills in planning, organizing, administering and evaluating school-based technology and media centers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77410 SIMULATIONS AND GAMES IN EDUCATION 3 Credit Hours
Introduction to digital simulations and games as educational tools. Students develop proficiency in applying these tools to learning. Surveys research and design principles and introduces game editors for developing simulations and games.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77411 DESIGNING VISUALS FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 67411) Investigates research in perception and cognition and its influence on principles and best practices in educational visual design. Focuses on the design of educational visuals and media in print, video, and computer-based technology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77420 RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY 3 Credit Hours
(Slashed with ETEC 67420) Educational technology is a broad field that intersects many disciplines and provides numerous opportunities for individuals with varied interests. Having knowledge of the important issues in educational technology research enables students to evaluate both rigor and usefulness of empirical studies in the field of educational technology. This course is designed to explore significant issues in educational technology, including the latest research into how technology can most effectively facilitate learning.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77425 MANAGING TECHNOLOGICAL CHANGE 3 Credit Hours
(Slashed with ETEC 67425) This course examines how to implement technological change within organizations, with a particular focus on those involved in education, training and performance improvement. As new hardware and software technologies are continually developed and promoted as revolutionary tools for teaching and learning and as innovative instructional strategies emerge that effectively leverage these technologies, organizations face critical decisions. This course addresses key questions, including how to identify the technologies best suited for teaching and learning, how to pinpoint sources of resistance and obstacles to change, and how to design projects that ensure successful technological implementation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77426 MANAGING SCHOOL TECHNOLOGIES 3 Credit Hours
(Slashed with ETEC 67426) Specifically for students interested in working in school settings managing computer labs and school servers and networks. Covers managing aspects of computer hardware, software and updates, and networks.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77432 DESIGNING MULTIMEDIA FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 67432) Application of evidence-based instructional methods to the design, development, and evaluation of multimedia learning materials. Research-based guidelines for multimedia learning that influence learning outcomes. Uses various tools to design and develop multimedia projects.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77434 EMERGING TECHNOLOGIES FOR EDUCATION 3 Credit Hours
(Slashed with ETEC 67434) Focuses on the theoretical foundations, design, and development of educational delivery systems employing leading-edge and emergent technologies. Includes presentations and activities that employ the technologies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77435 VIRTUAL AND AUGMENTED REALITY 3 Credit Hours
(Slashed with ETEC 67435) Virtual augmented reality can help provide engaging educational experiences. This course enables students to understand best practices and core guidelines in these technologies. Design principles and software for developing environments are included.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77442 DESIGNING ONLINE AND BLENDED COURSES 3 Credit Hours
(Slashed with ETEC 67442) This course focuses on applying instructional design principles to the development of an online/blended course. Students will follow a structured instructional design process to analyze, design, develop and evaluate an online/blended course relevant to their professional contexts. Students will also use a learning management system (e.g., Canvas, Blackboard, Google Classroom) for delivering their courses.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77444 TEACHING ONLINE AND BLENDED COURSES 3 Credit Hours
(Slashed with ETEC 67444) This course explores pedagogical approaches tailored for online and blended learning, including strategies for facilitating synchronous and asynchronous discussions, embedding assessments, enhancing interactivity, fostering student motivation, supporting peer assessment and feedback, encouraging collaboration and community building, and integrating self-directed learning. Students will plan, create, implement and evaluate instructional and motivational activities for online and blended environments.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77445 DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS 3 Credit Hours
(Slashed with ETEC 67445) Develop knowledge of the systematic approach to instructional design, the contexts of application of this approach, and the roles of professionals in this field in adapting and applying the process in a flexible and innovative manner, especially to large-scale projects.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77449 RESEARCH IN ONLINE AND BLENDED LEARNING 3 Credit Hours
(Slashed with ETEC 67449) Online and blended learning offers democratized education and endless opportunities in the fields of education and training because of its accessibility and flexibility. This course serves as an introduction to research and theory in online and blended learning. We will examine major concepts in online and blended learning, theoretical underpinnings of the field, historical foundations and trends, as well as important research paradigms in online and blended learning research.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ETEC 77491 SEMINAR: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) (Slashed with ETEC 67491) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

ETEC 77492 ADVANCED PRACTICUM AND INTERNSHIP IN EDUCATIONAL TECHNOLOGY 1-10 Credit Hours
Supervised program requiring application of theory to practice in the use of instructional technology directed by a graduate faculty member and a practitioner in the field. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which internship will take place.
Prerequisite: Doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 3-33 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 77495 SPECIAL TOPICS IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours
(Slashed with ETEC 67495) Specialized offering in response to emerging or selected program needs in educational technology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ETEC 77496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ETEC 67496) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 77498 INDEPENDENT RESEARCH IN EDUCATIONAL TECHNOLOGY 1-5 Credit Hours
(Repeatable for credit) (Slashed with ETEC 67498) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 3-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ETEC 87450 LEARNING WITH EDUCATIONAL TECHNOLOGIES 3 Credit Hours
Provides an overall introduction to research and practice in educational technology at the doctoral level. Includes examination of principles and examples of the effective application of technology to educational settings as well as approaches to research in the field.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Middle Childhood Education (MCED)

MCED 20000 LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION 3 Credit Hours
This course introduces Middle Childhood Education (MCED) teacher candidates to the cultural, community, social, emotional, cognitive, physical and moral development of early adolescents. It offers MCED candidates the opportunity to immerse themselves in a grades 4-9 clinical experience while exploring the experiences of early adolescence.
Prerequisite: CULT 29535.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MCED 30001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I 3 Credit Hours
Examine issues and trends in mathematics and mathematics education. Theories of the teaching and learning of mathematics will be addressed within the context of problem solving, communications, reasoning and connections with other disciplines.
Prerequisite: EPSY 29525; and MATH 14001 and MATH 14002; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 30002 INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD 3 Credit Hours
Introductory methods course integrating social studies and science. Emphasis on principles of teaching and learning as applied to teaching to social issues and problems appropriate for middle childhood students.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 31000 TEACHING AND LEARNING IN MIDDLE CHILDHOOD 3 Credit Hours
This course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planning, teaching strategies, assessment, classroom management, and effective classroom instructions. In a concurrent clinical field experience, teacher candidates will apply teaching methods in intermediate-middle school classrooms. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching internship will take place.
Prerequisite: Admission to advanced study; and middle childhood education major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MCED 40001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II 3 Credit Hours
To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-9 and develop skill in their use.
Prerequisite: MCED 30001; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40002 TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II 3 Credit Hours
This course is designed to provide pre-service teachers with meaningful and practical learning experiences that will prepare them to create effective science learning environments for grade 4-9 students. This course includes 40 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which clinical hours will take place.
Prerequisite: MCED 30002; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40003 TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II 3 Credit Hours
Advanced methods course. Examines the purpose of citizenship education and understanding the role of history and the social sciences. Applying the principles of powerful teaching. Includes a major field experience at the student teaching site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.
Prerequisite: MCED 30002; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40005 EFFECTIVE USE OF PHONICS IN READING 3 Credit Hours
The influence of theoretical perspectives on word identification instruction, an examination of the role of phonics in reading and writing strategies for effective phonics instruction and assessment.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40006 READING AND WRITING IN MIDDLE CHILDHOOD (WIC) 6 Credit Hours
Understanding of literacy learning in the middle childhood (classrooms grades 4-9) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment and teaching children who struggle as readers.
Prerequisite: Admission to advanced study.
Schedule Type: Lecture
Contact Hours: 6 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MCED 40007 TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD 3 Credit Hours
The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program.
Prerequisite: MCED 40006; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 40045 TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5 3 Credit Hours
To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-5 and develop skill in their use.
Prerequisite: ECED 40147 with a minimum grade of C.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 41000 CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD 3 Credit Hours
This course is designed to enhance knowledge, skills, and dispositions about curriculum history and organization of middle level schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. Additionally, this course is also designed to extend knowledge, skills, techniques, and professional dispositions as related to middle school students' experiences, and differentiate curriculum and assessment for diverse learners. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching internship will take place.
Prerequisite: Admission to advanced study; and MCED 31000; and middle childhood education major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

MCED 41192 MIDDLE CHILDHOOD EDUCATION GENERALIST PRACTICAL EXPERIENCE (ELR) 1 Credit Hour
(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal within Middle Childhood Education Science or Social Studies.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3.33 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MCED 42392 STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR) 9 Credit Hours
(Slashed with MCED 52392) Full-time student teaching for sixteen weeks in two selected concentrations (mathematics, science, language arts, social studies) and reading in grades 4-5 or grades 6-7-8. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: MCED 41000 and MCED 40007; and admission to advanced study.
Corequisite: MCED 49525.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MCED 46645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4 3 Credit Hours
Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 47745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5 3 Credit Hours
Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 49525 INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD 3 Credit Hours
A seminar linked to student teaching with an emphasis on action research as professional development; completion of professional portfolios; professional ethics; and legal, medical and ethical issues in teaching.
Prerequisite: MCED 41000 and MCED 40007.
Corequisite: MCED 42392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50002 TEACHING SCIENCE IN MIDDLE CHILDHOOD II 3 Credit Hours
(Slashed with MCED 40002) This course is designed to provide pre-service teachers with meaningful and practical learning experiences that will prepare them to create effective science learning environments for grade 4-9 students. This course includes 40 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which clinical hours will take place.
Prerequisite: MCED 30002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50003 TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II 3 Credit Hours
Advanced methods course. Examines the purpose of citizenship education and understanding the role of history and the social sciences. Applying the principles of powerful teaching. Includes a major field experience at the student teaching site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.
Prerequisite: MCED 30002; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50005 EFFECTIVE USE OF PHONICS IN READING 3 Credit Hours
The influence of theoretical perspectives on word identification instruction, an examination of the role of phonics in reading and writing, strategies for effective phonics instruction and assessment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50006 READING AND WRITING IN MIDDLE CHILDHOOD 6 Credit Hours
Understanding of literacy learning in the middle childhood (classrooms grades 4-9) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment and teaching children who struggle as readers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 6 lecture
Grade Mode: Standard Letter

MCED 50007 TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD 3 Credit Hours
The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program.
Prerequisite: MCED 50006; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 50045 TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5 3 Credit Hours
To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-5 and develop skill in their use.
Prerequisite: ECED 40147 with a minimum C grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 52392 STUDENT TEACHING IN MIDDLE CHILDHOOD 9 Credit Hours
(Slashed with MCED 42392) Full-time student teaching for sixteen weeks on an interdisciplinary team in two selected concentrations (mathematics, language arts, social studies, science) and reading in grades 4-9. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.
Prerequisite: Graduate standing.
Corequisite: MCED 59525.
Schedule Type: Practical Experience
Contact Hours: 27 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MCED 56645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4 3 Credit Hours
Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 57745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5 3 Credit Hours
Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 59525 INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD 3 Credit Hours
A seminar linked to student teaching with an emphasis on action research as professional development, completion of professional portfolios, professional ethics and legal, medical and ethical issues in teaching.
Prerequisite: CI 67107 and MCED 50007 with a minimum C grade; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MCED 60115 SCIENCE TECHNOLOGY ENGINEERING AND MATH FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION 3 Credit Hours
(Cross-listed with ECED 60115) This course introduces early and middle childhood educators to STEM (Science, Technology, Engineering, Mathematics) for students in K-6 classrooms. This includes a foundation and overview of the what, how, and why STEM is included in K-6 classrooms. As a foundation course, students will gain exposure to integrating the STEM disciplines, assessment of mathematics and science in STEM, and aspects of developmentally appropriate STEM for early and middle childhood settings.
Prerequisite: ECED 50404 and ECED 50304 and ECED 50303; and graduate standing.
Pre/corequisite: ECED 50203.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Physical Activity, Wellness and Sport (PWS)

PWS 10020 DEVELOPMENT AND CONDITIONING 1 Credit Hour
Introduction to the principles of physical training. Practical application of these principles through a variety of activities.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10035 LIFETIME FITNESS 2 Credit Hours
The role of exercise in enhancing physical fitness. Lectures on principles of planning scientifically sound exercise programs. Laboratory experiences in personal fitness evaluation and exercise routines.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PWS 10036 FITNESS WALKING 1 Credit Hour
Introduction to Fitness Walking as a lifetime physical activity through personal cardiovascular fitness.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10095 SELECTED TOPICS: PHYSICAL EDUCATION ACTIVITIES 1-2 Credit Hours
(Repeatable for credit) Selected and varied topics of relevance in physical education basic instruction.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2-4 lab
Grade Mode: Standard Letter

PWS 10101 SCUBA DIVING 1 Credit Hour
Designed to make students a comfortable and qualified diver, capable of conducting recreational dives to shallow depths and deep water diving. Could lead to certification as a PADI open water diver.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10125 BASKETBALL 1 Credit Hour
The course is designed to give students a basic understanding of how to play the game of basketball through active participation. Students are expected to learn and be able to demonstrate the skills and strategies of the game through various practice and competitive activities. Material is presented through class instruction and handouts.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10204 BADMINTON 1 Credit Hour
Instruction in the skills and techniques of the game of Badminton
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10304 BOWLING 1 Credit Hour
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10305 BILLIARDS 1 Credit Hour
Skills, technique, strategy, game knowledge as introduction to billiards (pool), a 'cue' sport; rules and gaming for variations of pocket billiards; practice and class tournament play.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10306 JOGGING 1 Credit Hour
This course is designed to enhance cardiovascular fitness through jogging and or running. The course will focus on a mixture of training techniques including light jogging and interval type workouts. This course will also include supplemental exercises such as core strengthening and stretching. Students will perform basic calculations to determine target heart rate zones. Students will establish fitness goals and select appropriate activities to attain these goals. Pre and Post assessments will allow students to monitor progress towards their fitness goals.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10403 BEGINNING BALLROOM DANCE 1 Credit Hour
This course is designed for the beginning social dance to learn how to partner dance in a recreational setting. Dances include: Foxtrot, Rhumba, Meringue, Swing, Cha Cha.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10413 LATIN SOCIAL DANCE 1 Credit Hour
Presentation of the DVIDA bronze syllabus for Latin dances. Introduction of Latin rhythm dances, which will include the Merengue, Salsa, Rumba, Cha Cha and Samba. Includes proper technique, rhythm of the dance and approximately 10-15 figures for each dance.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10505 VOLLEYBALL 1 Credit Hour
Introduction to the sport of Volleyball through instruction in individual and team skills, team building and game play.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10604 BEGINNING GOLF 1 Credit Hour
The student will have the opportunity to develop basic golf skills through lectures, demonstration, drills and game play. The student will also gain knowledge of golf etiquette and other areas as related to the game of golf.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10904 TENNIS 1 Credit Hour
You will be exposed to and utilize basic tennis skills, terms, and principles, with an emphasis on skill development and integration of playing tactics and strategies during match play.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 10906 RACQUETBALL 1 Credit Hour
Instruction in the skills, techniques and strategies of the game of Racquetball.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11126 FLAG FOOTBALL I 1 Credit Hour
This course is designed to give the students an opportunity to review and practice the basic fundamental skills relative to the game of flag football. Students are expected to be able to demonstrate the skills and strategies of the game through various practice and competitive activities.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11325 ADVANCED ICE HOCKEY 1 Credit Hour
To build on the basic hockey fundamentals, leading to advanced team play and game situations providing deeper insight into the game of hockey.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11327 KETTLEBELLS 1 Credit Hour
A vigorous introductory physical conditioning course primarily utilizing kettlebells. Exercises designed to enhance strength, power, endurance, and agility will be emphasized. Introductory approach to kettlebell techniques and kettlebell program development.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11425 VARSITY SPORTS 1 Credit Hour
(Repeatable for credit) Designed to focus on advanced varsity sport skill development, to promote techniques and strategies to perform at a high level of competition, and to foster ethical values, sportsmanship and responsible citizenship through practices and game competitions. Designed for the student athlete who meets NCAA eligibility requirements.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Satisfactory/Unsatisfactory

PWS 11426 VARSITY SPORT TRAINING AND CONDITIONING 1 Credit Hour
(Repeatable for credit) Designed for sport specific training both in and out of season to produce highly skilled student-athletes through structured programs for immediate performance enhancement and injury prevention and to endure practice and competition. Designed for the student athlete who meets NCAA eligibility requirements.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Satisfactory/Unsatisfactory

PWS 11435 SPORTS CONDITIONING 1 Credit Hour
This course will cover methods and techniques that are used to safely and effectively enhance an individual's athletic performance by increasing speed, strength, endurance, agility and flexibility. This course will cover a variety of training principles, training methods, basic components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle. This course is part theory and part practical application.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11604 BEGINNING KARATE 1 Credit Hour
A karate course designed for students with little or no martial arts or karate experience. This course will involve the training in the philosophy, principles, and techniques of Karate for self-defense, improvement of overall fitness and to give a greater understanding of the art and themselves.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11633 JU JITSU 1 Credit Hour
Presentation of Ju-Jitsu and Judo techniques for use in self-defense. Includes falling, throwing, grappling, bars, locks, strikes, kicks and defends against various weapons.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11634 SELF-DEFENSE 1 Credit Hour
A self-defense course designed for students with little or no martial arts or self-defense background. Physical, verbal, and mental defensive techniques, tactics, and strategies are taught to prepare students for any potentially dangerous situation they may encounter. The course will also improve the student's physical and mental fitness.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11663 BEGINNING YOGA 1 Credit Hour
Overview course in yoga, an integrated study of health. Involves the investigation and practice of breathing techniques (pranayama), hatha yoga postures (asana), meditation and relaxation. Also unifies the mind, body and spirit.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11664 PILATES 1 Credit Hour
Pilates is a form of fitness endeavors which unite the rhythmic performances and strength with the conditioning principles of the movement sciences.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11665 ZUMBA 1 Credit Hour
Zumba® is a fitness program that fuses hypnotic Latin rhythms and easy-to-follow moves and mixes body sculpting movements with dance steps.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11666 BEGINNING SPINNING 1 Credit Hour
The Spinning program is based on two major components: health and fitness. Each of these parts is also related to the concept of mind (the health component) and body (the fitness component), and the overall program design is intended as more than a fitness regimen. It encourages Spinning participants to shift and broaden their perspectives by exposing them to new ideas and a variety of training styles and Energy Zones.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11667 BOOT CAMP I 1 Credit Hour
This course is designed to acquaint students with an exercise program using calisthenics, resistance training, running, and agility drills. The course will focus on increasing physical fitness, including cardiovascular efficiency, muscular strength, and flexibility. Students will also learn the fundamental principles of physical fitness and their effect on lifelong health and fitness.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11673 INTERMEDIATE YOGA 1 Credit Hour
Expansion of Yoga skills, building on knowledge base from Beginning Yoga. Students will explore movement components of anatomy, as related to yoga asanas and understand relationship of asanas to anatomy, creating movement and space.
Prerequisite: PWS 11663.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11674 INTERMEDIATE PILATES 1 Credit Hour
Intermediate Pilates reviews the fundamentals of the beginner class while moving on to the more challenging exercises and repertoire. Students will review and practice correct technique and form for strength, breathing, fluidity, and endurance for mat Pilates. This class is designed for experienced Pilates students.
Prerequisite: PWS 11664.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11675 ZUMBA TONING 1 Credit Hour
Zumba® is a fitness program that fuses hypnotic Latin and International rhythms with easy-to-follow moves and body sculpting movements to create a dynamic workout. The Zumba Toning® program uses hand held weights to enhance rhythm and tone the muscles, specifically arms, thighs, and abdomen. Zumba Toning is an ideal way to sculpt the body.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11684 BALL PILATES 1 Credit Hour
Ball Pilates, "Pilates on an Exercise Ball" is very similar to other Pilates classes in that it incorporates many mat and equipment-based exercises. Adding the ball increases your mind-body awareness, core strength, balance and flexibility as you perform the work on an unstable base of support.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 11904 BEGINNING ICE SKATING 1 Credit Hour
This course will give the beginner an introduction to the basic skills of ice skating with a focus on safe technique and the development of the basic skills of ice skating. Students will learn the fundamentals of balance, movement and safety on the ice.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12204 BEGINNING BROOMBALL 1 Credit Hour
Broomball is a recreational ice game played in an ice rink. Skills, tactics and plays are similar to those used in ice hockey.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12324 WEIGHT TRAINING 1 Credit Hour
This course is designed to teach students the correct technique in lifting with machines, free weights and body weight in a safe and effective manner. Students learn scientific methods (macrocycle, mesocycle and microcycle) on how to correctly design a resistance training workout based around desired goals of strength, endurance, hypertrophy, power and speed. Students will be tested on the application of their knowledge by having to design an 8 week training planning with specific training principles used.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12325 WOMEN'S WEIGHT TRAINING 1 Credit Hour
A basic course in the use of equipment in an average weight room and its application towards the development of strength and power.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12424 EXERCISE AND WEIGHT CONTROL 1 Credit Hour
The course aims to educate the student on differing types of exercise styles currently available to assist in living a healthy lifestyle. The student will also learn ideal dietary requirements required to compliment the variety of exercise components. This course will teach how to combine this information to create a nutritional and training plan to meet current goals for this course. Students will pre-test and post-test physical fitness components in order to successfully asses how a change in a nutrition and exercise can contribute to living a healthy lifestyle.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 12425 NAUTILUS EXERCISES 1 Credit Hour
This course will cover the proper use and weight training equipment. This course will also cover the instruction of proper weight training techniques for a safe and effective weight training program. Functional training and isolation training will be discussed and practiced, so that the student will benefit from both types of strength training exercises. The course is part theory and part practical application.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13003 DANCE EXERCISE 1 Credit Hour
Dance Exercise is a form of fitness, which unites the rhythmic performance, and energy of dance with the conditioning principles of the movement sciences. In addition to the physical exercise, students will also learn about the basic methodology behind an exercise class, a general history of dance exercise, and its relevance in the fitness industry today. Students should leave the course with knowledge of basic exercise and nutrition principles that can be applied in their personal exercise programs.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13008 INTERMEDIATE VOLLEYBALL 1 Credit Hour
Introduction of advanced playing systems and strategies in volleyball while emphasizing individual skill performance.
Prerequisite: PWS 10505.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13010 JUDO-JUJITSU 1 Credit Hour
Presentation of Jujitsu-Judo techniques for use in self-defense. This will include falling skills, throwing, grappling, come-along, as well as strikes and kicks and defenses against various weapons.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13012 BACKPACKING 2 Credit Hours
Trip planning and leadership, equipment and clothing selection, safety considerations, search and rescue, environmental ethics, map and compass, weekend backpacking trip. Student must supply equipment.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PWS 13016 CYCLING 1 Credit Hour
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13022 CAMPING 2 Credit Hours
Basic camping skills including: toolcraft, ropecraft, fire building, cooking, campsite management, equipment selection, safety considerations, environmental ethics, and map and compass for use on weekend trip. Students must supply own clothing and shelter.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PWS 13028 INTRODUCTION TO KAYAKING 1 Credit Hour
Basic paddling skills learned in a pool environment and then experienced in open lakes and whitewater situations.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13030 BEGINNING ROCK CLIMBING 1 Credit Hour
Basic instruction in safe rope handling, knots, conditioning, climbing technique, belaying, anchor systems and rappelling.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13036 INDOOR CYCLING 1 Credit Hour
Covers the knowledge and skills that are needed for understanding and participating in an indoor cycling program. Also covers the components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13040 CARDIO KICKBOXING 1 Credit Hour
Covers the knowledge and skills that are needed to understand and participate in Cardio Kickboxing. Also covers the components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle. This course is part theory and part practical application.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13041 HARDCORE ABS 1 Credit Hour
Examines methods and techniques that improve abdominal and back strength, mechanics and the ability to dynamically stabilize. The student masters total body movement that occur through all three planes of motion. The exercises are performed on a stable and unstable surface for greater balance challenge. Equipment is used to increase resistance to intensify the work load. Improves core strength and activities of daily living.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PWS 13093 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT 1-2 Credit Hours
(Repeatable for credit) Workshop in exercise, leisure and sport activities topics vary.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

Physical Education and Sport Performance (PESP)

PESP 15010 INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT 3 Credit Hours
Development of a knowledge base on the roles, foundations, contextual and social issues, and career opportunities as they relate to physical education, physical activity and sport. Experimentation with various fitness tests and assessments that lead to the development of personal fitness plans.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 15011 DEVELOPMENT AND ANALYSIS OF INVASION GAMES 3 Credit Hours
Development, analysis and assessment of game performance skills used in invasion games.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 15015 DEVELOPMENT AND ANALYSIS OF NET GAMES 3 Credit Hours
Development and analysis of game performance skills in net games. Emphasis on problem solving strategies and skill execution related to game performance and on effective pedagogy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 15016 DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES 3 Credit Hours
Development and analysis of game performance skills used in target games and field-run-score games.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 15018 DEVELOPMENT OF SWIMMING AND AQUATIC SKILLS 1 Credit Hour
Development and analysis of basic aquatic skills, swimming strokes, starts and turns, diving skills, physical fitness principles, aquatic safety and basic rescue techniques.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

PESP 15020 FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE 3 Credit Hours
Designed to provide teachers and activity leaders with knowledge, skills, and dispositions necessary to teach developmentally appropriate progressions for fundamental movement skills, dance and gymnastics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 25025 TEACHING IN PHYSICAL EDUCATION 3 Credit Hours
This course aims to introduce students to teaching and management strategies linked to student learning, the design of instructional materials and techniques, and strategies for working with diverse learners in various contexts. This course will study, discuss, and apply effective teaching skills. Thirty field hours at each elementary and secondary level requires a BCII and FBI background check report.
Prerequisite: PESP 15010.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 25026 OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION 3 Credit Hours
An overview of outdoor pursuits and adventure education is provided for students preparing to serve students/clients in physically active, outdoor and adventure contexts. Includes a required service learning component, which involves the design and delivery of quality outdoor education programs and/or curricula to children within the local community.
Prerequisite: School Health Education majors with Health and Physical Education Licensure concentration and Physical Education and Sport Performance majors.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

PESP 25033 LIFESPAN MOTOR DEVELOPMENT 3 Credit Hours
Introduction to motor development across the life span. Special emphasis on description of motor development changes and factors influencing change.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 25056 ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT 3 Credit Hours
This course is designed to provide students with an understanding of the principles and applications of assessment methods in the fields of physical education and sport. Emphasis is placed on the selection, construction, administration, analysis and interpretation of appropriate assessments in a variety of settings, with particular emphasis on using assessments to evaluate learner progress relative to established standards in PE and sport. Throughout the course appropriate technological applications are used to facilitate data collection, management and analysis.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 35010 PSYCHOLOGICAL DIMENSIONS OF MOTOR BEHAVIOR (WIC) 3 Credit Hours
Psychological factors in exercise, physical activity and sport emphasizing motor control learning and performance. Laboratory included.
Prerequisite: EXSC 35068 or PESP 25056; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

PESP 35020 FITNESS EDUCATION 3 Credit Hours
This course is designed to prepare teachers, coaches, and physical activity specialists for an interdisciplinary approach to fitness education. Specific emphasis will be placed on enhancing students' content knowledge of fitness and physical activity within a classroom setting as well as applying pedagogical principles of class management, instructional strategies, feedback and assessment in in practical settings to enhance students' ability to teach and coach fitness content within a variety of physical education, sport and physical activity contexts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 35040 COACHING FOOTBALL 2 Credit Hours
Techniques of coaching football, including film analysis and offensive and defensive skills and systems.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35041 COACHING SOCCER 2 Credit Hours
Coaching soccer, including analysis of skills strategy and administrative responsibilities.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35042 COACHING VOLLEYBALL 2 Credit Hours
Coaching volleyball, including analysis of skills, offensive and defensive strategy and administrative responsibilities.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35044 COACHING BASKETBALL 2 Credit Hours
Philosophy, fundamentals, strategy, administrative responsibilities and conditioning.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35048 COACHING BASEBALL AND SOFTBALL 2 Credit Hours
Coaching techniques in softball and baseball, including analysis of basic skills, position play and offensive and defensive strategies.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35049 COACHING TRACK AND FIELD 2 Credit Hours
Coaching techniques relative to track and field events. Principles of organization for track and field meets.
Prerequisite: Not open to freshmen.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PESP 35084 MOTOR SKILL ANALYSIS 3 Credit Hours
Designed to assist teachers, coaches, and physical activity specialists in the analysis of motor skills. Students study the applications of performance and biomechanical principles to enhance skill and tactical performance in physical activity settings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 45015 PSYCHOLOGY OF COACHING 3 Credit Hours
(Slashed with CI 55015) Psychological factors affecting athletic performance, with particular attention to practice factors, personality, motivation and problem athletes.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 45020 CONTEMPORARY ATHLETIC COACHING 3 Credit Hours
(Slashed with CI 55020) A focus on the philosophy, skills strategies and tactics of coaching within contemporary society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 45037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours
This course aims to promote an academic and practical approach to teaching physical education for students with disabilities. A minimum of 30 field hours is required for this course.
Prerequisite: Junior standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours
(Slashed with CI 55051) Approaches to teaching in elementary school physical education. Focus on establishing an environment for learning, planning standards-based lessons, instructional effectiveness, and assessment of student learning. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.
Corequisite: PESP 45053.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours
(Slashed with CI 55053) Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours)
Prerequisite: PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.
Corequisite: PESP 45051.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours
(Slashed with CI 55058) Approaches to teaching in secondary school physical education. Focus on management of the learning environment, planning for learning outcomes in three domains, instructional effectiveness, and sequential curriculum development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.
Corequisite: PESP 45059.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours
(Slashed with CI 55059) Introduction and development of content, standards-based curriculum models, management, and organizational skills related to sports and activities utilized in secondary school physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.
Corequisite: PESP 45058.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 45092 INTERNSHIP IN PHYSICAL EDUCATION (ELR) 2-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) Supervised full-time experience providing knowledge of overall operations for an agency or sports program in an approved setting. Forty-five (45) work hours per credit hour.
Prerequisite: Senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PESP 45096 INDIVIDUAL INVESTIGATION IN PHYSICAL EDUCATION 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours)Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-6 other
Grade Mode: Standard Letter-IP

PESP 45692 INTERNSHIP IN ATHLETIC COACHING (ELR) 2-4 Credit Hours
(Repeatable for a maximum of 4 credit hours) Supervised experience in organized sport focused upon the duties of a coach; can involve one or more level (youth, school, college, professional) and sport. 45 contact hours per credit.
Prerequisite: PESP 45020; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-12 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PESP 49525 INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION 3 Credit Hours
(Slashed with PESP 59525) Seminar focused on development of those skills and knowledge which enable future teachers to engage in effective reflective, collaborative and ethical professional practice.
Prerequisite: School Health Education or Physical Education and Sport Performance majors; and admission to advanced study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PESP 49592 STUDENT TEACHING IN PHYSICAL EDUCATION (ELR) 12 Credit Hours
This experience provides for a full semester of student teaching in a school setting that is taken with PESP 49525 Inquiry into Professional Practice in Physical Education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching will take place.
Prerequisite: School Health Education or Physical Education and Sport Performance majors; and admission to advanced study.
Schedule Type: Practical Experience
Contact Hours: 45 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PESP 55051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours
(Slashed with PESP 45051) Approaches to teaching in elementary school physical education. Focus on establishing an environment for learning, planning standards-based lessons, instructional effectiveness, and assessment of student learning. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: Physical Education concentration in the Secondary Education major; and graduate standing; and special approval.
Corequisite: PESP 55053.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 55053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours
(Slashed with PESP 45053) Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: Graduate standing; and special approval.
Corequisite: PESP 55051.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 55058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours
(Slashed with PESP 45058) Approaches to teaching in secondary physical education. Focus on management of the learning environment, planning for learning outcomes in three domains, instructional effectiveness, and sequential curriculum development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: Graduate standing; and special approval.
Corequisite: PESP 55059.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 55059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours
(Slashed with PESP 45059) Introduction and development of content, standards-based curriculum models, management and organizational skills related to sports and activities utilized in secondary school physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of field experience (30 hours).
Prerequisite: Graduate standing; and special approval.
Corequisite: PESP 55058.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter

PESP 59525 INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION 3 Credit Hours
(Slashed with PESP 49525) Seminar focused on developing those skills and knowledge that enable future teachers to engage in effective reflective, collaborative and ethical professional practice.
Prerequisite: Physical Education concentration in the Secondary Education major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Sport, Exercise and Performance Psychology (SEPP)

SEPP 20026 PSYCHOLOGICAL FOUNDATIONS OF SPORT AND EXERCISE 3 Credit Hours
Psychological Foundations of Sport and Exercise is an overview of foundational concepts and principles essential to understanding the psychological aspects of sport and exercise. Emphasis is given to psychologically based frameworks and their application to sport; in particular, exercise behavior, performance enhancement, mental skills, health and well-being. Coursework reflects an application of sport and exercise psychology concepts to practitioners in sport-related professions such as coaching, athletic training, sport management, physical education or fitness instruction, among others.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 30019 PSYCHOSOCIAL PERSPECTIVES FOR GROWTH AND DEVELOPMENT IN YOUTH SPORT 3 Credit Hours
This course provides a holistic approach to youth sport participation. Pulling from the most current knowledge and views from a diversity of disciplines the course addresses comprehensive and relevant considerations in the field and brings attention to the influences impacting children and youth participating in a range of sport and performance activities. Knowledge from this course applies to any professional working with children and adolescents, from a leadership standpoint; such as coaches, teachers, dance, music or other instructors of any performance-related activity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 32250 PSYCHOLOGICAL ASPECTS OF SPORT INJURY 3 Credit Hours
This course examines the various factors impacting athletes prior to and after a sport injury occurs. Understanding the relationship between biological, psychological, and social factors is critical to understanding, preventing, and rehabbing from a sport injury. Students will learn more about the consequences of sport injury, various psychological responses to sport injury, and the culture surrounding sport injury for athletes at different levels. In addition, various psychological concepts that can influence rehabilitation from an injury will be explored.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 40020 HIGH PERFORMANCE ATHLETES IN SPORT 3 Credit Hours
(Slashed with SPAD 50020) This course provides an understanding of various aspects of training, coaching, and best practices in working with athletes in a high-performance environment along with an emphasis on the social-psychological factors related to the successful performance of elite level athletes and teams.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 40221 EXERCISE PSYCHOLOGY 3 Credit Hours
(Slashed with SPAD 50221) This course is designed to examine the science and practice of exercise psychology from both a theoretical and applied perspective. Students will be engaged in a comprehensive inquiry into behaviors and lifestyles that influence physical and mental health from physical activity, exercise and psychological lenses. Students will explore topics such as stress, anxiety, cognitive functioning, mood, body image, personality, emotion, and childhood inactivity/obesity as they relate to exercise behaviors and contexts. Students will gain a general understanding of issues in exercise psychology related to theory, practice, and research. In addition, students will develop practical skills to promote exercise adherence and create an exercise intervention program.
Prerequisite: SEPP 20026; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 45007 PRINCIPLES AND APPLICATION OF SPORT PSYCHOLOGY 3 Credit Hours
(Slashed with SPAD 55007) This course encompasses the most current developments in the field of psychology with a strong foundation of the principles of human behavior in the sport and movement sciences. It incorporates sound practical theory with a focus on the application of that knowledge to be readily used by students in a range of sport and movement science careers; such as athletic training, coaching, sport management, consulting, physical education teachers and related areas with the goal to improve the sport performance and experience for all.
Prerequisite: SEPP 20026; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 45092 PRACTICUM IN SPORT PERFORMANCE (ELR) 1-3 Credit Hours
(Repeatable for credit) Supervised practical experiences within sport, exercise and performance psychology that are integrated with academic instruction. Forty-five contact hours per credit hour.
Prerequisite: Senior standing; and sport, exercise and performance psychology major or minor; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

SEPP 45300 MOTIVATION IN SPORT, PERFORMANCE, AND MOVEMENT SETTINGS 3 Credit Hours
(Cross-listed with SPAD 55300) This course provides an in-depth and wide-ranging look at motivational theories and its application to sport, performance and physical activity. It combines the many theoretical concepts of the diverse frameworks and principles with a survey of motivational interventions performed in the sport domain. Students will leave the class with a rigorous and comprehensive knowledge of constructs, cutting-edge research, effective interventions and future outlook of motivation in sport.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SEPP 48225 SPORT PERFORMANCE PSYCHOLOGICAL INTERVENTIONS 3 Credit Hours
(Slashed with SPAD 58225) This course combines the theoretical concepts of sport and performance psychology with applied skill development to enhance performance. Students will gain knowledge of psychological skills training, learn techniques and develop confidence in their skills to work with athletes and performers. The focus of this course is on both, educational psychological interventions for personal development as well as teaching athletes strategies to enhance mental skill. Learning will be done hands-on, via case studies or scenario-based activities. Through the course of this class this course, students will create and present their individual program for an athlete or performer. This course will include learning and understanding the APA/AASP ethics' code to develop awareness of the boundaries of ethical conduct of the profession.
Prerequisite: SEPP 20026; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Adapted Physical Education Endorsement Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Adapted Physical Education Endorsement Preparation program is designed to provide you with the skills and knowledge needed to work with students who have unique physical needs. This program will prepare you to be a leader in inclusive physical education by teaching you how to assess, plan and implement individualized instruction. Read more...

Contact Information

- **Douglas Ellison** | delliso4@kent.edu | 330-672-6330
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Coaches and scouts

- 11.8% much faster than the average
- 292,000 number of jobs
- $36,330 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Exercise trainers and group fitness instructors

- 15.4% much faster than the average
- 373,700 number of jobs
- $40,510 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Recreation and fitness studies teachers, postsecondary

- 2.6% slower than the average
- 19,100 number of jobs
- $66,290 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

Approved by the Ohio Department of Higher Education

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale

- Official transcript(s)
- Evidence of valid Resident Educator or Professional Physical Education State of Ohio teaching license

Application Deadlines

- **Fall Semester**
  - Rolling admissions

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Endorsement Requirements		
CI 65037	ADAPTED PHYSICAL EDUCATION	3
CI 65592	PRACTICUM IN ADAPTED PHYSICAL EDUCATION	3
Minimum Total Credit Hours:		**6**

Progression Requirements

- Must maintain a 3.000 overall GPA

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. Students should consult the Physical Education program for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Understand educational laws and legislation pertaining to students and individuals with disabilities.
2. Design and implement inclusive and modified lessons to motivate and stimulate personal, physical and affective development.
3. Describe, analyze and evaluate strategies that enable students from diverse populations to learn and achieve in adapted physical education at both elementary and secondary levels.
4. Describe, analyze and evaluate techniques for classroom management observed in both physical education and classroom settings.
5. Create transdisciplinary plans to reflect the Individual Educational Plan (IEP) of learning in physical education at both elementary and secondary levels.
6. Gain knowledge of professional development and ethics, resources, grant funding opportunities and professional preparation.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Adapted Physical Education Endorsement Preparation non-degree program prepares teacher educators with the knowledge and skills required to meet the needs of *all* students through adapted physical education.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Alternative Licensure Professional Development Institute, English/ Language Arts - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Alternative Licensure Professional Development Institute program at Kent State would serve new teachers who completed the Ohio Department of Education requirements for an Alternative Resident Educator License. These teachers then have four years to complete 15-18

credit hours, depending on their area of licensure, from a professional development institute approved by the Ohio Department of Higher Education. This fully online program has 7-week courses sequenced to allow teachers to complete the required courses in one calendar year. Read more...

Contact Information

- **Elizabeth Testa** | etesta@kent.edu | 330-672-2580
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

English language and literature teachers, postsecondary

- 2.1% slower than the average
- 81,300 number of jobs
- $69,000 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.500 GPA on a 4.000-point scale
- Official transcript(s)
- Evidence of successful completion of an Intensive Pedagogical Development Institute or Alternative Resident Educator Institute approved by the Ohio Department of Education
- Evidence of passing scores for the Ohio Educator Assessment (OAE) test for licensure area
- Ohio Alternative Resident Educator License (and license number)

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (min B grade required in all courses)		
CI 62000	PRINCIPLES OF TEACHING WITH DIFFERENTIATION	3
CI 62001	ASSESSMENT PROCEDURES AND PRAXIS	3
CI 62002	CULTURALLY RESPONSIVE CLASSROOM MANAGEMENT PRACTICES	3
CI 62003	LITERACIES IN THE CONTENT AREAS	3
CI 62101	CURRICULUM STUDIES OF SECONDARY ENGLISH LANGUAGE ARTS	3
CI 62121	FOUNDATIONS OF LITERACY AND PHONICS FOR SECONDARY TEACHERS	3
Minimum Total Credit Hours:		**18**

Graduation Requirements

- Minimum B grade in all courses

Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Plan and deliver instruction that is equitable, inclusive and skillfully aligned to state and national curriculum standards.
2. Design assessments that across a range of situations, both formal and informal, that provides data that leads to making valid and reliable inferences about student performance.
3. Critically reflect on instruction, assessment practices and professional engagements with colleagues and students.
4. Design learning environments, both physical and psychological, where students are safe, engaged and supported in their learning endeavors.
5. Model behaviors of learning, cognitive, social and emotional to lead learners toward self-regulation, personal growth and academic achievement.
6. Craft curriculum that aligns to school, state and national standards.
7. Gain professional practices related to content area.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.

- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Alternative Licensure Professional Development Institute, English/Language Arts, non-degree program serve new teachers who completed the Ohio Department of Education requirements for an alternative resident educator license and now need to earn an Ohio five-year professional license. Self-paced and online, the program can be completed in under one year. The program prepares teachers in the principles and practices of teaching, student development and learning, pupil assessment procedures, curriculum development, classroom management and teaching methodology.

Kent State is one of a select number of universities approved by the Ohio Department of Higher Education to provide coursework and experiences for an alternative pathway to teaching grades 7-12. The alternative resident educator license is an accelerated pathway to classroom teaching. This pathway allows students, schools and communities to benefit from the candidates' content-related knowledge, life experience and successful career experience.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Alternative Licensure Professional Development Institute, Mathematics - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Alternative Licensure Professional Development Institute at Kent State would serve new teachers who completed the Ohio Department of Education requirements for an Alternative Resident Educator License. These teachers then have four years to complete 15-18 credit hours, depending on their area of licensure, from a professional development institute approved by the Ohio Department of Higher Education. This fully online program has 7-week courses sequenced to allow teachers to complete the required courses in one calendar year. Read more...

Contact Information

- **Elizabeth Testa** | etesta@kent.edu | 330-672-2580
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Mathematical science teachers, postsecondary

- 1.3% slower than the average
- 60,100 number of jobs
- $73,650 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.500 GPA on a 4.000-point scale
- Official transcript(s)
- Evidence of successful completion of an Intensive Pedagogical Development Institute or Alternative Resident Educator Institute approved by the Ohio Department of Education
- Evidence of passing scores for the Ohio Educator Assessment (OAE) test for licensure area
- Ohio Alternative Resident Educator License (and license number)

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (min B grade required in all courses)		
CI 62000	PRINCIPLES OF TEACHING WITH DIFFERENTIATION	3
CI 62001	ASSESSMENT PROCEDURES AND PRAXIS	3
CI 62002	CULTURALLY RESPONSIVE CLASSROOM MANAGEMENT PRACTICES	3
CI 62003	LITERACIES IN THE CONTENT AREAS	3
CI 62102	CURRICULUM STUDIES OF SECONDARY MATHEMATICS	3
Minimum Total Credit Hours:		**15**

Graduation Requirements

- Minimum B grade in all courses

Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Plan and deliver instruction that is equitable, inclusive and skillfully aligned to state and national curriculum standards.
2. Design assessments that across a range of situations, both formal and informal, that provides data that leads to making valid and reliable inferences about student performance.
3. Critically reflect on instruction, assessment practices and professional engagements with colleagues and students.
4. Design learning environments, both physical and psychological, where students are safe, engaged and supported in their learning endeavors.
5. Model behaviors of learning, cognitive, social and emotional to lead learners toward self-regulation, personal growth and academic achievement.
6. Craft curriculum that aligns to school, state and national standards.
7. Gain professional practices related to content area.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Alternative Licensure Professional Development Institute, Mathematics, non-degree program serve new teachers who completed the Ohio Department of Education requirements for an alternative resident educator license and now need to earn an Ohio five-year professional license. Self-paced and online, the program can be completed in under one year. The program prepares teachers in the principles and practices of teaching, student development and learning, pupil assessment procedures, curriculum development, classroom management and teaching methodology.

Kent State is one of a select number of universities approved by the Ohio Department of Higher Education to provide coursework and experiences for an alternative pathway to teaching grades 7-12. The alternative resident educator license is an accelerated pathway to classroom teaching. This pathway allows students, schools and communities to benefit from the candidates' content-related knowledge, life experience and successful career experience.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Alternative Licensure Professional Development Institute, Science - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Alternative Licensure Professional Development Institute at Kent State would serve new teachers who completed the Ohio Department of Education requirements for an Alternative Resident Educator License. These teachers then have four years to complete 15-18 credit hours, depending on their area of licensure, from a professional development institute approved by the Ohio Department of Higher Education. This fully online program has 7-week courses sequenced to allow teachers to complete the required courses in one calendar year. Read more...

Contact Information

- **Elizabeth Testa** | etesta@kent.edu | 330-672-2580
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.500 GPA on a 4.000-point scale
- Official transcript(s)
- Evidence of successful completion of an Intensive Pedagogical Development Institute or Alternative Resident Educator Institute approved by the Ohio Department of Education
- Evidence of passing scores for the Ohio Educator Assessment (OAE) test for licensure area
- Ohio Alternative Resident Educator License (and license number)

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (min B grade required in all courses)		
CI 62000	PRINCIPLES OF TEACHING WITH DIFFERENTIATION	3
CI 62001	ASSESSMENT PROCEDURES AND PRAXIS	3
CI 62002	CULTURALLY RESPONSIVE CLASSROOM MANAGEMENT PRACTICES	3
CI 62003	LITERACIES IN THE CONTENT AREAS	3
CI 62103	CURRICULUM STUDIES OF SECONDARY SCIENCE	3
Minimum Total Credit Hours:		**15**

Graduation Requirements

- Minimum B grade in all courses

Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Plan and deliver instruction that is equitable, inclusive and skillfully aligned to state and national curriculum standards.
2. Design assessments that across a range of situations, both formal and informal, that provides data that leads to making valid and reliable inferences about student performance.
3. Critically reflect on instruction, assessment practices and professional engagements with colleagues and students.
4. Design learning environments, both physical and psychological, where students are safe, engaged and supported in their learning endeavors.
5. Model behaviors of learning, cognitive, social and emotional to lead learners toward self-regulation, personal growth and academic achievement.
6. 6Craft curriculum that aligns to school, state and national standards.
7. Gain professional practices related to content area.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Alternative Licensure Professional Development Institute, Science, non-degree program serve new teachers who completed the Ohio Department of Education requirements for an alternative resident educator license and now need to earn an Ohio five-year professional license. Self-paced and online, the program can be completed in under one year. The program prepares teachers in the principles and practices of teaching, student development and learning, pupil assessment

procedures, curriculum development, classroom management and teaching methodology.

Kent State is one of a select number of universities approved by the Ohio Department of Higher Education to provide coursework and experiences for an alternative pathway to teaching grades 7-12. The alternative resident educator license is an accelerated pathway to classroom teaching. This pathway allows students, schools and communities to benefit from the candidates' content-related knowledge, life experience and successful career experience.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure.

Alternative Licensure Professional Development Institute, Social Studies - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Alternative Licensure Professional Development Institute at Kent State would serve new teachers who completed the Ohio Department of Education requirements for an Alternative Resident Educator License. These teachers then have four years to complete 15-18 credit hours, depending on their area of licensure, from a professional development institute approved by the Ohio Department of Higher Education. This fully online program has 7-week courses sequenced to allow teachers to complete the required courses in one calendar year. Read more...

Contact Information

- **Elizabeth Testa** | etesta@kent.edu | 330-672-2580
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully Online

Examples of Possible Careers and Salaries*

Social sciences teachers, postsecondary, all other

- -0.3% little or no change
- 19,300 number of jobs
- $69,340 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.500 GPA on a 4.000-point scale
- Official transcript(s)
- Evidence of successful completion of an Intensive Pedagogical Development Institute or Alternative Resident Educator Institute approved by the Ohio Department of Education
- Evidence of passing scores for the Ohio Educator Assessment (OAE) test for licensure area
- Ohio Alternative Resident Educator License (and license number)

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (min B grade in all courses)		
CI 62000	PRINCIPLES OF TEACHING WITH DIFFERENTIATION	3
CI 62001	ASSESSMENT PROCEDURES AND PRAXIS	3
CI 62002	CULTURALLY RESPONSIVE CLASSROOM MANAGEMENT PRACTICES	3
CI 62003	LITERACIES IN THE CONTENT AREAS	3
CI 62104	CURRICULUM STUDIES OF SECONDARY SOCIAL STUDIES	3
Minimum Total Credit Hours:		**15**

Graduation Requirements

- Minimum B grade in all courses

Program Learning Outcomes

Completers of this program will be able to:

1. Plan and deliver instruction that is equitable, inclusive and skillfully aligned to state and national curriculum standards.
2. Design assessments across a range of situations, both formal and informal, to provide data that leads to making valid and reliable inferences about student performance.
3. Critically reflect on instruction, assessment practices and professional engagements with colleagues and students.
4. Design learning environments, both physical and psychological, where students are safe, engaged and supported in their learning endeavors.
5. Model behaviors of learning, cognitive, social and emotional to lead learners toward self-regulation, personal growth and academic achievement.
6. Craft curriculum that aligns to school, state and national standards.
7. Gain professional practices related to content area.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Alternative Licensure Professional Development Institute, Social Studies, non-degree program serve new teachers who completed the Ohio Department of Education requirements for an alternative resident educator license and now need to earn an Ohio five-year professional license. Self-paced and online, the program can be completed in under one year. The program prepares teachers in the principles and practices of teaching, student development and learning, pupil assessment procedures, curriculum development, classroom management and teaching methodology.

Kent State is one of a select number of universities approved by the Ohio Department of Higher Education to provide coursework and experiences for an alternative pathway to teaching grades 7-12. The alternative resident educator license is an accelerated pathway to classroom teaching. This pathway allows students, schools and communities to benefit from the candidates' content-related knowledge, life experience and successful career experience.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure.

Athletic Coaching - Minor

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Athletic Coaching minor provides students with the knowledge and skills to coach in youth sport settings, K-12 schools and colleges. The "National Standards for Sport Coaches," published by the Society of Health and Physical Educators (SHAPE America), serves as the guiding basis for the minor.

An internship completes the minor as a capstone experience.

Contact Information

- **Douglas Ellison** | delliso4@kent.edu | 330-672-6330
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
PESP 25033	LIFESPAN MOTOR DEVELOPMENT	3
PESP 35020	FITNESS EDUCATION	3
PESP 35084	MOTOR SKILL ANALYSIS	3
PESP 45015	PSYCHOLOGY OF COACHING	3
PESP 45020	CONTEMPORARY ATHLETIC COACHING	3
PESP 45692	INTERNSHIP IN ATHLETIC COACHING (ELR)	3
SPAD 45020	ORGANIZATION, ADMINISTRATION AND LEADERSHIP IN SPORT	3
Minor Elective, choose from the following:		2
PESP 35040	COACHING FOOTBALL	

PESP 35041	COACHING SOCCER
PESP 35042	COACHING VOLLEYBALL
PESP 35044	COACHING BASKETBALL
PESP 35048	COACHING BASEBALL AND SOFTBALL
PESP 35049	COACHING TRACK AND FIELD
Minimum Total Credit Hours:	**23**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Certification in American Red Cross First Aid and CPR.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand, at the basic level, athletic coaching effectiveness
2. Understand, at the basic level, motor development across the lifespan
3. Understand, at the basic level, mental preparation and performance in sport
4. Understand, at the basic level, motor skill analysis
5. Understand, at the basic level, fitness education
6. Understand, at the basic level, practical athletic coaching experiences in diverse fields

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Career-Based Intervention Endorsement Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Career-Based Intervention Endorsement Preparation program is designed for educators looking to gain skills and knowledge to better serve students in career-technical education settings, this program covers topics like career development, workplace readiness and job acquisition skills. Read more...

Contact Information

- **Davison Mupinga** | dmupinga@kent.edu | 330-672-0676
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Mostly online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Career/technical education teachers, middle school

- 3.1% about as fast as the average
- 11,800 number of jobs
- $62,270 potential earnings

Career/technical education teachers, postsecondary

- 1.1% slower than the average
- 124,100 number of jobs
- $55,620 potential earnings

Career/technical education teachers, secondary school

- 2.3% slower than the average
- 73,800 number of jobs
- $62,460 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment

over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Evidence of two years of successful teaching under a current professional, permanent, resident educator or five-year career-technical teaching license from the State of Ohio
- Evidence of one year of full-time work experience outside education.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Endorsement Requirements		
CTTE 50093	VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION	2
CTTE 56018	DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION	3
CTTE 56019	COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS	3
CTTE 56020	CURRICULUM GUIDE: DESIGN AND APPLICATION	3
Minimum Total Credit Hours:		**11**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. Students should consult with the School of Teaching, Learning and Curriculum Studies for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Implement a curriculum guide based on the Career-Based Intervention standards established by the Ohio Department of Education.
2. Design a Career-Based Intervention program at middle or high school levels using one of the models approved by the Ohio Department of Education.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Career-Based Intervention Endorsement Preparation non-degree program is designed to prepare educators for teaching learners ages 12 through 21 or grades 7 through 12 who are identified as disadvantaged (either academically and/or economically) or with disabilities and who have barriers to achieving academic and career success. Successful completion of this program qualifies individuals to apply for the Career-Based Intervention endorsement granted by the Ohio Department of Education.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Career-Technical Teacher Education - Graduate Certificate

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

Are you passionate about empowering the next generation with practical skills for the real world? As a career and technical education teacher, you'll shape tomorrow's skilled workforce in construction, automotive, welding and culinary arts to name only a few fields. Start your journey towards transforming your expertise into a rewarding teaching career! Read more...

Contact Information

- **Davison Mupinga** | dmupinga@kent.edu | 330-672-0676
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Career/technical education teachers, middle school

- 3.1% about as fast as the average
- 11,800 number of jobs
- $62,270 potential earnings

Career/technical education teachers, postsecondary

- 1.1% slower than the average
- 124,100 number of jobs
- $55,620 potential earnings

Career/technical education teachers, secondary school

- 2.3% slower than the average
- 73,800 number of jobs
- $62,460 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement of personal and professional objectives
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
CI 57330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
CTTE 54092	IN-SERVICE TEACHING - PRACTICUM	2
CTTE 54099	IN-SERVICE TEACHING - CAPSTONE	1
CTTE 55377	CAREER AND TECHNICAL EDUCATION: ADVANCED METHODOLOGIES	3
CTTE 56015	METHODS OF CAREER AND TECHNICAL EDUCATION	3
CTTE 56020	CURRICULUM GUIDE: DESIGN AND APPLICATION	3
CTTE 66001	PRINCIPLES AND PRACTICES IN CAREER TECHNICAL EDUCATION	3
CTTE 66004	PROGRAM EVALUATION IN CAREER TECHNICAL EDUCATION	3
CTTE 66005	SPECIAL POPULATIONS IN CAREER TECHNICAL EDUCATION	3
Minimum Total Credit Hours:		**24**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Acquire knowledge on lesson planning.
2. Acquire knowledge classroom management.
3. Gain experience in lesson delivery.

4. Acquire knowledge on assessment techniques.
5. Develop professional teacher dispositions.

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Full Description

The Career-Technical Teacher Education graduate certificate provides the educational experiences for individuals pursuing an Ohio teaching license in a vocational field.

Career and technical education teachers help students explore and prepare to enter a career or technical occupation. They use a variety of teaching methods to help students learn and develop skills related to a specific occupation or career field. They demonstrate tasks, techniques and tools used in an occupation. They may assign hands-on tasks, such as replacing brakes on cars, taking blood pressure or applying makeup. Teachers typically oversee these activities in workshops and laboratories in the school.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Career-Technical Teacher Education - M.Ed.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Master of Education degree in Career-Technical Teacher Education serves individuals who desire to continue as classroom and/or laboratory instructors in one of the career-technical service areas. The program offers a special needs specialization, which focuses on coursework and professional experiences related to the study of special needs populations in career-technical education.

Contact Information

- **Davison Mupinga** | dmupinga@kent.edu | 330-672-0676
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers*

Career/technical education teachers, middle school

- 3.1% about as fast as the average
- 11,800 number of jobs
- $62,270 potential earnings

Career/technical education teachers, postsecondary

- 1.1% slower than the average
- 124,100 number of jobs
- $55,620 potential earnings

Career/technical education teachers, secondary school

- 2.3% slower than the average
- 73,800 number of jobs
- $62,460 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CTTE 56020	CURRICULUM GUIDE: DESIGN AND APPLICATION	3
CTTE 66001	PRINCIPLES AND PRACTICES IN CAREER TECHNICAL EDUCATION	3
CTTE 66003	ANALYSIS OF HUMAN RESOURCE DEVELOPMENT	3
CTTE 66004	PROGRAM EVALUATION IN CAREER TECHNICAL EDUCATION	3
CTTE 66005	SPECIAL POPULATIONS IN CAREER TECHNICAL EDUCATION	3
RMS 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
or RMS 65511	RESEARCH IN EDUCATIONAL SERVICES	
Major Elective, choose from the following:		3
CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	
CULT 69521	MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY	
CULT 69522	ETHICS IN PROFESSIONAL PRACTICE	
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	
EPSY 65523	LIFE SPAN DEVELOPMENT	
EPSY 65524	LEARNING THEORIES	
Specialization, choose from the following: [1]		11
Career-Technical Teaching		
CTTE 56019	COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS	
CTTE 60199	THESIS I	
and/or Career-Technical Teacher Education (CTTE) Teaching Area Content Electives		
and/or Career-Technical Teacher Education (CTTE) Electives		
Special Needs		
CTTE 56018	DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION	
CTTE 60199	THESIS I	
and/or Career-Technical Teacher Education (CTTE) Special Needs Electives		
and/or Special Education (SPED) Electives		
Minimum Total Credit Hours:		**32**

[1] Prerequisite or co-requisite for specialization: 6 credit hours undergraduate methods courses that include content in course of study/curriculum guide development and methods of teaching laboratory and related content.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Graduates of this program will be able to:

1. Expand use of instruction based on learner needs, including individualized, mixed-ability, cooperative and teamwork.
2. Be competent in using various instructional strategies.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Career-Technical Teacher Education - Undergraduate Certificate

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

Are you passionate about empowering the next generation with practical skills for the real world? As a career and technical education teacher, you'll shape tomorrow's skilled workforce in construction, automotive, welding and culinary arts to name only a few fields. Start your journey towards transforming your expertise into a rewarding teaching career! Read more...

Contact Information

- **Davison Mupinga** | dmupinga@kent.edu | 330-672-0676
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Career/technical education teachers, middle school

- 3.1% about as fast as the average
- 11,800 number of jobs
- $62,270 potential earnings

Career/technical education teachers, postsecondary

- 1.1% slower than the average
- 124,100 number of jobs
- $55,620 potential earnings

Career/technical education teachers, secondary school

- 2.3% slower than the average
- 73,800 number of jobs
- $62,460 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Code	Title	Credit Hours
Certificate Requirements		
CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
CTTE 36014	EVALUATION PRACTICES IN CAREER TECHNICAL EDUCATION	3
CTTE 44092	IN-SERVICE TEACHING - PRACTICUM (ELR)	2
CTTE 44099	IN-SERVICE TEACHING - CAPSTONE (ELR)	1
CTTE 45377	CAREER AND TECHNICAL EDUCATION: ADVANCED METHODOLOGIES	3
CTTE 46015	METHODS OF CAREER AND TECHNICAL EDUCATION	3
CTTE 46017	STUDENT-CENTERED LEADERSHIP IN CAREER TECHNICAL EDUCATION	3

CTTE 46018	DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION (WIC)	3
CTTE 46020	CURRICULUM GUIDE: DESIGN AND APPLICATION	3
Minimum Total Credit Hours:		**24**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Acquire knowledge on lesson planning.
2. Acquire knowledge classroom management.
3. Gain experience in lesson delivery.
4. Acquire knowledge on assessment techniques.
5. Develop professional teacher dispositions.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Full Description

The Career-Technical Teacher Education undergraduate certificate provides the educational experiences for individuals pursuing an Ohio teaching license in a vocational field. The certificate articulates well into an Associate of Applied Science degree. Completers of the certificate must also have finished a Career-Technical Education license via the industry option issued.

CTE teachers help students explore and prepare to enter a career or technical occupation. They use a variety of teaching methods to help students learn and develop skills related to a specific occupation or career field. They demonstrate tasks, techniques and tools used in an occupation. They may assign hands-on tasks, such as replacing brakes on cars, taking blood pressure or applying makeup. Teachers typically oversee these activities in workshops and laboratories in the school.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Computer Science Endorsement Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Computer Science Endorsement Preparation program is designed for educators seeking to incorporate computer science into their curriculum, this program provides the tools and knowledge necessary to teach computer science concepts to K-12 students. With a focus on both theory and practical application, this program will prepare you to inspire and educate the next generation of computer scientists. Read more...

Contact Information

- **Jiahui Wang** | jwang79@kent.edu | 330-672-0664
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Computer science teachers, postsecondary

- 2.6% slower than the average
- 38,500 number of jobs
- $85,540 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

The Computer Science Endorsement Preparation non-degree program has received national accreditation from the International Society for Technology in Education (ISTE), the professional organization that reviews licensure programs for the National Council for the Accreditation of Teacher Education (NCATE).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree in education or another appropriate field from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale (last degree)
- Official transcript(s)
- Evidence of valid Resident Educator or Professional State of Ohio teaching license
- Goal statement
- Two letters of recommendation from academic and professional references

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Licensure Requirements		
CS 61002	ALGORITHMS AND PROGRAMMING I	4
CS 61003	ALGORITHMS AND PROGRAMMING II	4
CS 61004	OPERATING SYSTEMS AND ARCHITECTURE	4
ETEC 67402	MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS	3
ETEC 67434	EMERGING TECHNOLOGIES FOR EDUCATION	3
ETEC 67492	PRACTICUM AND PORTFOLIO	3
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. Students must pass the Ohio Assessment Exam to obtain this licensure. Students should consult the Educational Technology program area for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Demonstrate knowledge of computer science content and model important principles and concepts:
   a. Demonstrate knowledge of and proficiency in data representation and abstraction;
   b. Effectively design, develop and test algorithms;
   c. Demonstrate knowledge of digital devices, systems and networks; and
   d. Demonstrate an understanding of the role computer science plays and its impact in the modern world.
2. Plan and teach computer science lessons/units using effective and engaging practices and methodologies.
3. Design environments that promote effective teaching and learning in computer science classrooms and online learning environments and promote digital citizenship.
4. Create and maintain safe, ethical, supportive, fair and effective learning environments for all students.
5. Participate in, promote and model ongoing professional development and lifelong learning relative to computer science and computer science education.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.

- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Computer Science Endorsement Preparation non-degree program is intended for teachers who want to become computer science educators or assume various technology coordinator positions in a school or at the school district level.

This endorsement must be added to an existing teaching license and cannot be obtained independently as a separate licensure. Students who hold a master's degree in education or another appropriate field may be able to earn the endorsement with this non-degree program. Students without a master's degree may work toward both a master's degree and the endorsement by applying to the M.Ed. degree in Educational Technology, Computer Science Endorsement Preparation concentration.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Computer Technology Endorsement Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Computer Technology Endorsement Preparation program provides educators with the knowledge and skills necessary to integrate technology into the classroom and prepare students for the digital world. The program is designed for certified teachers seeking to add a computer technology endorsement to their teaching license. Read more...

Contact Information

- **Jiahui Wang** | jwang79@kent.edu | 330-672-0664
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Computer science teachers, postsecondary

- 2.6% slower than the average
- 38,500 number of jobs
- $85,540 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

The Computer Technology Endorsement Preparation non-degree program has received national accreditation from the International Society for Technology in Education (ISTE), the professional organization that reviews licensure programs for the National Council for the Accreditation of Teacher Education (NCATE).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree in education or another appropriate field from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale (last degree)
- Official transcript(s)
- Evidence of valid Resident Educator or Professional State of Ohio teaching license
- Goal statement
- Two letters of recommendation from academic and professional references

Application Deadlines

- **Fall Semester**
  - Rolling admissions

- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Licensure Requirements		
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
ETEC 67402	MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS	3
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE	3
ETEC 67426	MANAGING SCHOOL TECHNOLOGIES	3
ETEC 67492	PRACTICUM AND PORTFOLIO	3
Minimum Total Credit Hours:		**15**

Progression Requirements

- Must maintain a minimum 3.000 overall GPA

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students must pass the Ohio Assessment Exam (OAE) to obtain this licensure. Students should consult the Educational Technology program area for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Use technology to create equitable and ongoing access to high-quality learning.
2. Participate in and model ongoing professional development and lifelong learning relative to educational technology and innovations in pedagogy.
3. Model and support educators to design learning experiences and environments to improve their instructional practice and student learning outcomes.
4. Plan, provide and evaluate the impact of professional learning for educators and leaders to use technology to advance teaching and learning.
5. Model and support the use of data to inform instruction and professional learning.
6. Model digital citizenship and support educators and students in recognizing the responsibilities and opportunities inherent in living in a digital world.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Computer Technology Endorsement Preparation non-degree program is intended for teachers who plan to teach computer applications or who want to assume technology coordinator positions in a school or at the school district level.

This endorsement must be added to an existing teaching license and cannot be obtained independently as a separate licensure. Students who hold a master's degree in education or another appropriate field may be able to earn the endorsement with this non-degree program. Students without a master's degree may work toward both a master's degree and the endorsement by applying to the M.Ed. degree in Educational Technology, Computer Technology Endorsement Preparation concentration.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Curriculum and Instruction - Ed.S.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Educational Specialist degree in Curriculum and Instruction provides a wide range of graduate study opportunities in progressive, research-based curriculum and teaching practices. The program

provides educators with advanced professional development beyond the master's degree for those who wish to become university educators or to hold leadership positions in areas of curriculum, supervision and teacher education.

Contact Information

- **Scott Courtney** | scourtn5@kent.edu | 330-672-2580
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Instructional coordinators

- 5.9% faster than the average
- 192,900 number of jobs
- $66,970 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Minimum 2.750 graduate GPA on a 4.000-point scale (minimum 3.250 graduate GPA is recommended) *starting with spring 2026 admission term, minimum 3.000 graduate GPA will be required*
- Official transcript(s)
- Résumé or curriculum vitae
- Application essay
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application Deadline: July 15
- **Spring Semester**
  - Application Deadline: November 15
- **Summer Term**
  - Application Deadline: April 15 (domestic students only)

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CI 77001	FUNDAMENTALS OF CURRICULUM [1]	3
Research Elective		3
Foundation Elective		3
Additional Courses [2]		21
Minimum Total Credit Hours:		**30**

[1] Students who completed CI 67001 as part of their master's degree do not need to retake the course (as CI 77001). However, the students will still need to meet the minimum 30 credit hours for the Ed.S. degree.

[2] It is recommended that Ed.S. students complete an internship as part of their course work, in consultation with their advisor(s). If CI 77001 is included in the student's prospectus, a minimum of seven additional courses must be taken. If CI 77001 is **not** included in this prospectus, a minimum of eight additional courses must be taken.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of the program will be able to:

1. Educate in multicultural settings.
2. Function as professional leaders for curriculum reform and renewal.
3. Demonstrate the disposition and skills for continuing professional development.

Curriculum and Instruction - M.Ed.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Curriculum and Instruction M.Ed. program curriculum focused on the latest research and best practices in education, you'll gain the knowledge and experience you need to create effective learning experiences for your students. Whether you're a seasoned educator or just starting out, our program will provide you with the tools you need to succeed in today's ever-changing educational landscape. Read more...

Contact Information

- **Scott Courtney (Curriculum and Teaching Studies and Mathematics Education)** | scourtn5@kent.edu | 330-672-2580
  Kristine Pytash (English/Language Arts Education) | kpytash@kent.edu | 330-672-0641
  Danielle Gruhler, Ph.D. (Middle Childhood Education) | dgruhler@kent.edu | 330-672-6517
  Lisa Borgerding, Ph.D. (Science Education) | ldonnell@kent.edu | 330-672-0614
  Lisa Testa, Ph.D. (Secondary Education) | etesta@kent.edu | 330-672-0647
  Todd Hawley, Ph.D. (Social Studies Education) | thawley1@kent.edu | 330-672-0670
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Instructional coordinators

- 5.9% faster than the average
- 192,900 number of jobs
- $66,970 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal Statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

The **Secondary Education concentration** does not allow direct admission; students may enter only with a change of major initiated by their faculty advisor. This concentration is for students who have completed the coursework for the M.A.T. degree in Secondary Education but who have not completed the teacher licensure requirements.

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application Deadline: July 15

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CI 60003	Course CI 60003 Not Found	
CI 60004	Course CI 60004 Not Found	
CI 60005	Course CI 60005 Not Found	
CI 67352	LITERACY COACHING	3
CI 67004	PROFESSIONAL DEVELOPMENT IN TEACHING	3
CI 67010	CURRICULUM EVALUATION	3
CI 67351	PERSPECTIVES ON LITERACY RESEARCH	3
Electives or Focus (Specialization) Area Coursework [1]		6
Culminating Requirement		
CI 67399	Course CI 67399 Not Found	
Minimum Total Credit Hours:		**18**

[1] Students are to select courses in consultation with their academic faculty advisor.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of the program will be able to:

1. Educate in multicultural settings.
2. Function as professional leaders for curriculum reform and renewal.

3. Demonstrate the disposition and skills for continuing professional development.

Full Description

The Master of Education degree in Teaching, Learning, and Curriculum Studies provides a wide range of graduate study opportunities in progressive, research-based curriculum and teaching practices. The program prepares educators for continuing professional development, education in a multicultural society, and leadership for curriculum reform and renewal.

- **Students may elect to focus exclusively on Teaching, Learning, and Curriculum Studies or a more narrow area of interest in one of our faculty members' areas of specialization (e.g., Critical Studies, Educational Technology, Literacy, Mathematics Education). The availability of faculty and specialization areas changes each year. Please contact the program coordinator for more information.**
- The School of Teaching, Learning and Curriculum Studies offers an accelerated or dual MEd / PhD program that allows highly-qualified students to enter our Master's degree program with the intent to continue for a doctoral degree. The MEd / PhD program emphasizes academic, research, and professional learning tailored for the PhD degree so that students can move quickly into doctoral studies. Please contact the program coordinator for more information.

Curriculum and Instruction - Ph.D.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

Become a leader in Curriculum and Instruction with Kent State's Ph.D. program. Conduct original research and develop expertise in curriculum theory to shape the future of education. Read more...

Contact Information

- **Scott Courtney** | scourtn5@kent.edu | 330-672-2580
  Jiahui Wang (Educational Technology concentration) |
  jwang79@kent.edu |
  330-672-0664
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery (two options available; students must apply to a specific option):**
  - In-person
  - Online
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Instructional coordinators

- 5.9% faster than the average
- 192,900 number of jobs
- $66,970 potential earnings

Additional Careers

- University Professor

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Minimum 2.750 graduate GPA on a 4.000-point scale (minimum 3.500 graduate GPA is recommended) *starting with spring 2026 admission term, minimum 3.000 graduate GPA will be required*
- Official transcript(s)
- Résumé or curriculum vitae
- Application essay
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Application Deadline: July 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CI 80001	PROSEMINAR IN CURRICULUM AND INSTRUCTION I	3
CI 80002	Course CI 80002 Not Found	
CI 80003	Course CI 80003 Not Found	
CI 80004	Course CI 80004 Not Found	
CI 80005	Course CI 80005 Not Found	
CI 80006	Course CI 80006 Not Found	
CI 80007	Course CI 80007 Not Found	
RMS 75510	STATISTICS I FOR EDUCATIONAL SERVICES [1]	3
RMS 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	3
RMS 85516	QUALITATIVE RESEARCH DESIGN	3
RMS 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES [2]	3
or RMS 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
Electives or Focus (Specialization) Area Coursework [4]		9
Culminating Requirement		
CI 80199	DISSERTATION I [3]	30
Minimum Total Credit Hours:		**54**

1. If a student has taken a master's level course similar to RMS 75510, then they must take an alternative RMS course.
2. Students may complete another specialized research methods course with approval.
3. Upon admission to candidacy, each doctoral candidate must register for CI 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter CI 80299, each semester until all requirements for the degree have been met.
4. Students are to select courses in consultation with their academic faculty advisor.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students may be required to take additional coursework as well as research activities that support their scholarly interests in the context of doctoral socialization.

Comprehensive Examination Requirements

The course phase of study culminates with a written and oral comprehensive examination that is created and evaluated by each doctoral student's prospectus committee. Students choose one of the following options for the written component:

- Eight-hour in-class written examination
- Take-home written examination
- Written examination and portfolio (this option must be selected when submitting the plan of study)

Once doctoral students have passed the comprehensive examination, they organize a dissertation committee, which supervises their dissertation research project.

Program Learning Outcomes

Graduates of the program will be able to:

1. Practice research-based leadership.
2. Function as responsible, informed researchers and professional practitioners in the areas of teaching, learning, and curriculum studies.
3. Establish a disciplined life of inquiry.
4. Conduct research informed by multicultural education literature.

Full Description

The Ph.D. degree in Teaching, Learning, and Curriculum Studies prepares scholars for successful careers in college and university settings and produces curriculum leaders for schools and other educational institutions. The program is relevant for qualified students interested in issues related to educational research with a focus on learning, teaching, or curriculum. Upon completion of the program, students will have gained insight into what it means to transition from doctoral student to disciplined scholar.

The program offers both an **in-person** and an **online** option:

1. For the in-person Ph.D. option, at least 51% of coursework will be offered in person (or face-to-face).
2. For the online PhD option, all coursework is taken online, but certain milestones will require mandatory synchronous meetings via Teams (e.g., oral comprehensive exam, dissertation proposal defense). Furthermore, some courses may require synchronous meetings via Teams to maximize the effectiveness of teaching and learning; those classes may or may not require attendance at synchronous sessions as a part of the course grade. If such courses have mandatory synchronous meetings, they are noted at the time of registration (so you will know before signing up).

- **Students may elect to focus exclusively on Teaching, Learning, and Curriculum Studies or a more narrow area of interest in one of our faculty members' areas of specialization (e.g., Critical Studies, Educational Technology, Literacy, Mathematics Education). The availability of faculty and specialization areas changes each year. Please contact the program coordinator for more information.**
- The School of Teaching, Learning and Curriculum Studies offers an accelerated or dual MEd / PhD program that allows highly-qualified students to enter our Master's degree program with the intent to continue for a doctoral degree. The MEd / PhD program emphasizes academic, research, and professional learning tailored for the PhD degree so that students can move quickly into doctoral studies. Please contact the program coordinator for more information.

Early Childhood Education (P-5) Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies

www.kent.edu/ehhs/tlcs

About This Program

The Early Childhood Education PK-5 Additional Licensure Preparation program provides aspiring educators with the necessary training to succeed in today's rapidly evolving educational environment. Through comprehensive coursework and practical training, you'll be equipped to address the unique challenges of working with young learners, developing their cognitive and emotional skills while promoting social and emotional growth. Read more...

Contact Information

- **Elizabeth Kenyon** | ekenyon@kent.edu | 330-672-0620
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Elementary school teachers, except special education

- 3.5% about as fast as the average
- 1,452,100 number of jobs
- $60,940 potential earnings

Kindergarten teachers, except special education

- 3.7% about as fast as the average
- 127,700 number of jobs
- $57,860 potential earnings

Preschool teachers, except special education

- 2.5% slower than the average
- 540,400 number of jobs
- $31,930 potential earnings

Teaching assistants, except postsecondary

- 3.6% about as fast as the average
- 1,395,900 number of jobs
- $28,900 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid Resident Educator or Professional State of Ohio teaching license

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Licensure Requirements (min C grade in all courses) [1]		
ECED 50125	INQUIRY INTO PROFESSIONAL PRACTICE	3
ECED 50203	CRITICAL INQUIRY: THE INTERNATIONAL BACCALAUREATE FRAMEWORK	3
ECED 50301	TEACHING SOCIAL STUDIES IN K-5 CLASSROOMS	3
ECED 50302	TEACHING PHONICS AND WORD STUDY	3
ECED 50303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I	3
ECED 50304	TEACHING SCIENCE IN THE ELEMENTARY YEARS	3
ECED 50402	TEACHING READERS IN THE ELEMENTARY YEARS	3
ECED 50403	TEACHING WRITERS IN THE ELEMENTARY YEARS	3
ECED 50404	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II	3
ECED 54444	DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL	3
ECED 60103	SOCIAL STUDIES AND THE ARTS IN PRESCHOOL	3
ECED 60113	PRESCHOOL EDUCATION	3
ECED 60115	SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION	3
ECED 60151	SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION	3
ECED 60152	APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN	3

ECED 60201	TEACHING EARLY READERS	3
ECED 63333	FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS	3
ECED 67392	PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION [2]	1-10
Minimum Total Credit Hours:		**52**

[1] Students must have an advising appointment with the graduate program coordinator to review former licenses, teaching experiences, employment, as well as field experiences, to determine the necessary courses and field experiences to compliment the student's existing valid Ohio license. All coursework for the license must be current. Additionally, a program of study must be filed in the Office of Graduate Student Services, 418 White Hall, prior to application for the licensure.

[2] Internship will be determined by the faculty advisor, based on the student's transcript evaluation, prior employment and work history. For candidates employed full time in a teaching capacity, an individualized plan for completing the internship will be developed with the faculty advisor. This may include observations, partnering with a primary teacher, and development of a portfolio to demonstrate competency for teaching in the primary grades. The preschool internship may be completed during the summer I session. It should precede the primary internship.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Minimum C grade required in each course for licensure.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the early childhood education program for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirement, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this program will be able to:

1. Apply PreK-5 learning standards to classroom experiences with students in grades pre-kindergarten through fifth grade.
2. Demonstrate knowledge of appropriate standards in reading, writing, mathematics, science and social studies related to learning environments.
3. Assess student learning and demonstrate effective home, school and community partnerships through assessment sharing.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Early Childhood Education (P-5) Additional Licensure Preparation non-degree program is designed to provide licensure to teachers who hold an active resident educator or professional State of Ohio teaching license.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Early Childhood Education - B.S.E.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Bachelor of Science in Education in Early Childhood Education prepares you to work with young children in a variety of settings. With a focus on child development and effective teaching strategies, you'll develop the skills needed to make a meaningful impact on the lives of children and families. Read more...

Contact Information

- Kent: **Julia Stoll** | jastoll@kent.edu | 330-672-0992
- Salem: **Dawn Roginski** | dturocy@kent.edu | 330-337-4295
- Tuscarawas: **Sandra Pech** | spech@kent.edu | 330-308-7430

- Speak with an Advisor
  - Kent Campus
  - Salem Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Salem Campus
  - Tuscarawas Campus

Examples of Possible Careers*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Elementary school teachers, except special education

- 3.5% about as fast as the average
- 1,452,100 number of jobs
- $60,940 potential earnings

Kindergarten teachers, except special education

- 3.7% about as fast as the average
- 127,700 number of jobs
- $57,860 potential earnings

Preschool teachers, except special education

- 2.5% slower than the average
- 540,400 number of jobs
- $31,930 potential earnings

Teaching assistants, except postsecondary

- 3.6% about as fast as the average
- 1,395,900 number of jobs
- $28,900 potential earnings

Accreditation

Council for the Accreditation of Educator Preparation

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Please use the standard university language for undergraduate admission.

Standard admission criteria for the degree.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
ECED 10120	INTRODUCTION TO EARLY CHILDHOOD SERVICES (min C grade)	1
ECED 20101	UNDERSTANDING YOUNG CHILDREN'S DEVELOPMENT (min C grade)	3
ECED 20102	SOCIAL STUDIES AND THE ARTS IN PRESCHOOL (min C grade)	3
ECED 20103	PRESCHOOL TEACHING AND LEARNING (min C grade)	3
ECED 20105	FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS (min C grade)	3
ECED 20192	CLINICAL EXPERIENCE IN PRESCHOOL (ELR) [1]	2
ECED 30201	TEACHING EARLY READERS (min C grade)	3
ECED 30202	MATHEMATICS AND SCIENCE IN THE EARLY YEARS (min C grade)	3
ECED 30205	CULTURALLY AND LINGUISTICALLY SUSTAINING PEDAGOGY (min C grade)	3
ECED 30292	CLINICAL EXPERIENCE PRIMARY II (ELR) [1]	1
ECED 30392	CLINICAL EXPERIENCE PRIMARY III (ELR) [1]	1
ECED 40125	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
ECED 40203	CRITICAL INQUIRY: THE INTERNATIONAL BACCALAUREATE FRAMEWORK (min C grade)	3
ECED 40292	INTERNSHIP IN ELEMENTARY SCHOOLS (ELR) [1]	9
ECED 40301	TEACHING SOCIAL STUDIES IN THE ELEMENTARY YEARS (min C grade)	3
ECED 40302	TEACHING PHONICS AND WORD STUDY (min C grade)	3
ECED 40303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I (min C grade)	3
ECED 40304	TEACHING SCIENCE IN THE ELEMENTARY YEARS (min C grade)	3
ECED 40305	GUIDANCE AND ASSESSMENT: SUPPORTING ALL CHILDREN (min C grade)	3
ECED 40401	TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS (min C grade)	3

ECED 40402	TEACHING READERS IN THE ELEMENTARY YEARS (min C grade)	3
ECED 40403	TEACHING WRITERS IN THE ELEMENTARY YEARS (WIC) (min C grade)	3
ECED 40404	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II (min C grade)	3
ECED 40492	CLINICAL EXPERIENCE PRIMARY IV (ELR) [1]	1
ECED 44444	DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL (min C grade) [1]	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
Additional Requirements (courses do not count in major GPA)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS) (min C grade required for either course)	3
or GEOG 17064	GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	
or GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM) (min C grade)	3
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR) (min C grade)	4
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR) (min C grade)	4
UC 10001	FLASHES 101	1
Science and Lab Elective, choose from the following (min C grade): [2]		3-4
BSCI 10002	LIFE ON PLANET EARTH (KBS)	
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	
ESCI 11040	HOW THE EARTH WORKS (KBS)	
ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	
ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	
ESCI 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	
Physics (PHY) Elective, choose from the following (min C grade): [2]		3-4
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	
PHY 21040	PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS)	
PHY 21041	PHYSICS IN ENTERTAINMENT AND THE ARTS LABORATORY (KBS) (KLAB)	
Kent Core Composition (minimum C grade)		6
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences (must be from two disciplines)		3
Minimum Total Credit Hours:		**123**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

[2] A laboratory course must be selected from one of two elective lists.

Progression Requirements

Admission to advanced study is required prior to enrolling in select upper-division education courses. Students must meet all professional requirements for admission to advanced study and have a minimum 2.750 overall GPA[1].

To manage enrollment and deliver high-quality programs, the faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University; non-academic criteria and other specific program criteria.

Please be aware that reapplication may be necessary if postponing advanced study coursework or if withdrawn for one year or more.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.750

- A minimum C grade is required in most courses; view the program requirements to see specific courses.

Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet state-approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12-month deadline may have to take additional coursework if the content, methods courses, program requirements or licensure requirements have changed from the catalog in force.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
!	MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
!	ECED 10120	INTRODUCTION TO EARLY CHILDHOOD SERVICES	1

	GEOG 17063 or GEOG 17064 or GEOG 22061	WORLD GEOGRAPHY (DIVG) (KSS) or GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS) or HUMAN GEOGRAPHY (DIVG) (KSS)	3
!	MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Physics (PHY) Elective		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Three		
	Note: minimum 2.750 overall GPA; apply online for Advanced Study by the second Friday of the term		
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
	Science and Lab Elective		3-4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	Requirement: minimum 2.75 overall GPA		
	Note: Complete application for student teaching; Block of courses must be taken together in same term; field assignment is part of ECED 20192		
	ECED 20101	UNDERSTANDING YOUNG CHILDREN'S DEVELOPMENT	3
	ECED 20102	SOCIAL STUDIES AND THE ARTS IN PRESCHOOL	3
	ECED 20103	PRESCHOOL TEACHING AND LEARNING	3
	ECED 20105	FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS	3
	ECED 20192	CLINICAL EXPERIENCE IN PRESCHOOL (ELR)	2
		Credit Hours	**14**
	Semester Five		
	Requirement: minimum 2.750 overall GPA		
	Note: Block of courses must be taken together in same term; there is a field assignment for this semester		
	ECED 30202	MATHEMATICS AND SCIENCE IN THE EARLY YEARS	3
	ECED 30205	CULTURALLY AND LINGUISTICALLY SUSTAINING PEDAGOGY	3
	ECED 30292	CLINICAL EXPERIENCE PRIMARY II (ELR)	1
	ECED 40203	CRITICAL INQUIRY: THE INTERNATIONAL BACCALAUREATE FRAMEWORK	3
	ECED 40302	TEACHING PHONICS AND WORD STUDY	3
	ETEC 39525	EDUCATIONAL TECHNOLOGY	3
		Credit Hours	**16**
	Semester Six		
	Requirement: minimum 2.750 overall GPA; block of courses must be taken together in same term		
	Note: Block of courses must be taken together in same term; there is a field assignment for this semester		
	ECED 30201	TEACHING EARLY READERS	3
	ECED 30392	CLINICAL EXPERIENCE PRIMARY III (ELR)	1
	ECED 40301	TEACHING SOCIAL STUDIES IN THE ELEMENTARY YEARS	3
	ECED 40303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I	3
	ECED 40304	TEACHING SCIENCE IN THE ELEMENTARY YEARS	3
	ECED 40305	GUIDANCE AND ASSESSMENT: SUPPORTING ALL CHILDREN	3
		Credit Hours	**16**
	Semester Seven		
	Note: Apply for graduation; minimum 2.750 GPA required for end of term; Block of courses must be taken together in same term; there is a field assignment for this semester		
	ECED 40401	TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS	3
	ECED 40402	TEACHING READERS IN THE ELEMENTARY YEARS	3
	ECED 40403	TEACHING WRITERS IN THE ELEMENTARY YEARS (WIC)	3
	ECED 40404	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II	3
	ECED 40492	CLINICAL EXPERIENCE PRIMARY IV (ELR)	1
	ECED 44444	DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL	3
		Credit Hours	**16**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA at end of term		
	Note: Full-time teaching in this term		
!	ECED 40125	INQUIRY INTO PROFESSIONAL PRACTICE	3
!	ECED 40292	INTERNSHIP IN ELEMENTARY SCHOOLS (ELR)	9
		Credit Hours	**12**
		Minimum Total Credit Hours:	**123**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3

Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of the program will be able to:

1. Co-construct curriculum as a co-worker with learners and others (parents, families, colleagues and community members) to make sound decisions for learning and teaching experiences, as opposed to being passive receivers of prescribed curriculum.
2. Synthesize conceptual understandings of children, theory, content, technology and sociocultural contexts into meaningful activities and opportunities for learning with all preschool-to-grade five students.
3. Engage in the habit of self-assessment in order to continually uncover unknown possibilities in children's learning, classroom practice, educational theory and one's own teaching identity in the local and global context.
4. Become committed to the children and their learning, the families and the local community while having an awareness of the global context; engage in continuous self-improvement and lifelong learning.
5. Apply skills, knowledge and dispositions to challenge "questionable" policies that limit opportunities for all children.
6. Utilize research and theory to develop varied and effective pedagogies and assessments that will positively impact all students' learning (learning and teaching is a transdisciplinary practice).
7. Advocate as ethical leaders and moral agents striving for social justice.
8. Acknowledges and practices multiple, multi-ethnic, multicultural, multiracial, multi- social and -economic and multilingual perspectives in a global society.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity

- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:
  - MATH 14001 (or equivalent)
  - MATH 14002
- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following

courses (i.e., both courses must be completed with a minimum C grade for graduation):
  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration (minimum C grade) to be eligible for advanced study. Students should meet with their advisor.
- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science, Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.
- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas: pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science in Education degree in Early Childhood Education focuses on professional preparation and application of current theory, methods and practices for future teachers of preschool to grade five classrooms. Students form a cohort and complete the five-block sequence of courses while gaining teaching experiences linked to coursework. All students complete field and practicum experiences in diverse settings, including urban and inclusive programs, and accumulate approximately 1,200 clock hours of field experience in preschool and elementary classrooms.

Graduates of the program who pass the State of Ohio Assessment Tests are eligible for Ohio licensure in Early Childhood, which is valid for teaching children, age three through grade five, who are typically developing, at-risk, gifted or who have mild/moderate educational needs.

Graduates also have the opportunity to receive an International Baccalaureate recognition certificate concurrent with the completion of the B.S.E. degree.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Early Childhood Education - M.A.T.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Early Childhood Education M.A.T. program is designed for those who already hold a bachelor's degree in a field other than education and want to become licensed teachers. With a focus on early childhood education, you'll gain the knowledge and skills needed to succeed in the classroom and make a difference in the lives of young children. Read more...

Contact Information

- **Elizabeth Kenyon** | ekenyon@kent.edu | 330-672-0620
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Elementary school teachers, except special education

- 3.5% about as fast as the average
- 1,452,100 number of jobs
- $60,940 potential earnings

Kindergarten teachers, except special education

- 3.7% about as fast as the average
- 127,700 number of jobs
- $57,860 potential earnings

Preschool teachers, except special education

- 2.5% slower than the average
- 540,400 number of jobs
- $31,930 potential earnings

Teaching assistants, except postsecondary

- 3.6% about as fast as the average
- 1,395,900 number of jobs
- $28,900 potential earnings

Accreditation

Council for the Accreditation of Educator Preparation (CAEP)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Questions in Anticipation of Licensure form
- Supplemental form
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score

- Minimum 58 PTE score
- Minimum 110 DET score

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing and mathematics; academic or professional references; non-academic dimensions; and other specific program criteria.

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Summer Term**
  - Priority deadline: February 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	3
ECED 50125	INQUIRY INTO PROFESSIONAL PRACTICE	3
ECED 50203	CRITICAL INQUIRY: THE INTERNATIONAL BACCALAUREATE FRAMEWORK	3
ECED 50301	TEACHING SOCIAL STUDIES IN K-5 CLASSROOMS	3
ECED 50302	TEACHING PHONICS AND WORD STUDY	3
ECED 50303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I	3
ECED 50304	TEACHING SCIENCE IN THE ELEMENTARY YEARS	3
ECED 50402	TEACHING READERS IN THE ELEMENTARY YEARS	3
ECED 50403	TEACHING WRITERS IN THE ELEMENTARY YEARS	3
ECED 50404	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II	3
ECED 54444	DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL	3
ECED 60103	SOCIAL STUDIES AND THE ARTS IN PRESCHOOL	3
ECED 60113	PRESCHOOL EDUCATION	3
ECED 60115	SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION	3
ECED 60151	SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION	3
ECED 60152	APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN	3
ECED 60201	TEACHING EARLY READERS	3
ECED 60392	CLINICAL EXPERIENCE PRIMARY III [1]	1
ECED 60492	CLINICAL EXPERIENCE PRIMARY IV [1]	1
ECED 63333	FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS	3
ECED 67292	PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION [1]	8
Minimum Total Credit Hours:		**64**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a plan of study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the M.A.T. degree in Early Childhood.

Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Graduates of this program will be able to:

1. Co-construct curriculum as a co-worker with learners and others (parents, families, colleagues and community members) to make sound decisions for learning and teaching experiences, as opposed to being passive receivers of prescribed curriculum.
2. Synthesize conceptual understandings of children, theory, content, technology and socio-cultural contexts into meaningful activities and opportunities for learning with all students from pre-kindergarten to grade five.
3. Engage in the habit of self-assessment in order to continually uncover unknown possibilities in children's learning, classroom practice, educational theory and one's own teaching identity in the local and global context.
4. Become committed to the children and their learning, the families and the local community while having an awareness of the global context.
5. Engage in continuous self-improvement and lifelong learning.
6. Apply skills, knowledge and dispositions to challenge "questionable" policies that limit opportunities for all children.
7. Utilize research and theory to develop varied and effective pedagogies and assessments that will positively impact all students' learning (learning and teaching is a transdisciplinary practice).
8. Advocate as ethical leaders and moral agents striving for social justice.

9. Acknowledge and practice multiple, multi-ethnic, multicultural, multiracial, multi- social and -economic and multilingual perspectives in a global society.

Full Description

The Master of Arts in Teaching degree in Early Childhood Education is for qualified students who possess at least a baccalaureate in a discipline other than teacher education. This program leads to Ohio licensure for teaching children in pre-kindergarten through grade five. Students have intensive, supervised field experiences in pre-school, primary and upper elementary grades, including those in urban/diverse settings.

This degree program requires 19 months of full-time study, which begins in mid-May of odd years and ends with a final student teaching experience and a December graduation.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Early Childhood Education - M.Ed.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

Program revisions are pending approval from the Ohio Department of Higher Education. After final approval, the program revisions will display.

About This Program

The Early Childhood Education M.Ed. program is designed for experienced educators who want to advance their careers and take on leadership roles in the field of early childhood education. With a focus on curriculum development, teacher leadership and program administration, you'll gain the skills needed to make a meaningful impact on the field of early childhood education. Read more...

Contact Information

- **Elizabeth Kenyon** | ekenyon@kent.edu | 330-672-0620
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the M.Ed. in Early Childhood Education are not being accepted at this time.

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Elementary school teachers, except special education

- 3.5% about as fast as the average
- 1,452,100 number of jobs
- $60,940 potential earnings

Kindergarten teachers, except special education

- 3.7% about as fast as the average
- 127,700 number of jobs
- $57,860 potential earnings

Preschool teachers, except special education

- 2.5% slower than the average
- 540,400 number of jobs
- $31,930 potential earnings

Teaching assistants, except postsecondary

- 3.6% about as fast as the average
- 1,395,900 number of jobs
- $28,900 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.Ed. in Early Childhood Education are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ECED 60152	APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN	3
Major Electives, choose from the following:		11
ECED 50093	VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION	
ECED 50203	CRITICAL INQUIRY: THE INTERNATIONAL BACCALAUREATE FRAMEWORK	
ECED 50301	TEACHING SOCIAL STUDIES IN K-5 CLASSROOMS	
ECED 50302	TEACHING PHONICS AND WORD STUDY	
ECED 50303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I	
ECED 50403	TEACHING WRITERS IN THE ELEMENTARY YEARS	
ECED 50404	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II	
ECED 54444	DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL	
ECED 60101	CONSTRUCTIVIST TEACHING IN TRADITIONAL AND NON-TRADITIONAL EARLY CHILDHOOD SETTINGS	
ECED 60103	SOCIAL STUDIES AND THE ARTS IN PRESCHOOL	
ECED 60113	PRESCHOOL EDUCATION	
ECED 60115	SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION	
ECED 60151	SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION	
ECED 60158	RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM	
ECED 60201	TEACHING EARLY READERS	
ECED 63333	FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS	
ECED 67296	INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION	
ECED 67298	RESEARCH IN EARLY CHILDHOOD EDUCATION	
Additional electives with advisor approval		
Culminating Requirement		
ECED 67296	INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION	3
or ECED 67298	RESEARCH IN EARLY CHILDHOOD EDUCATION	
ECED 67392	PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION	1-10
Additional Requirements or Concentrations		
Choose from the following:		15
Additional Requirements for Students Not Declaring a Concentration		
Early Childhood Leadership: Advocacy, Curriculum and Policy Concentration		
Globalization and Intercultural Competence Concentration		
Science, Technology, Engineering and Mathematics Concentration		
Minimum Total Credit Hours:		**33**

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements		
CI 60171	TEACHING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS	3
or ECED 60116	SCIENCE TECHNOLOGY ENGINEERING AND MATH INQUIRY FOR EARLY CHILDHOOD EDUCATION	
or ECED 60163	CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION	
Major Electives, choose from the following: [1]		9
ECED 50093	VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION	
ECED 50203	CRITICAL INQUIRY: THE INTERNATIONAL BACCALAUREATE FRAMEWORK	
ECED 50301	TEACHING SOCIAL STUDIES IN K-5 CLASSROOMS	
ECED 50302	TEACHING PHONICS AND WORD STUDY	
ECED 50303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I	
ECED 50304	TEACHING SCIENCE IN THE ELEMENTARY YEARS	
ECED 60101	CONSTRUCTIVIST TEACHING IN TRADITIONAL AND NON-TRADITIONAL EARLY CHILDHOOD SETTINGS	
ECED 60113	PRESCHOOL EDUCATION	
ECED 60151	SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION	
ECED 60158	RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM	
ECED 63333	FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS	
ECED 67292	PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION	
ECED 67296	INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION	
ECED 67298	RESEARCH IN EARLY CHILDHOOD EDUCATION	
Additional electives with advisor approval		
Additional Major Elective, choose from the following:		3
CI 60169	UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES	
ECED 60115	SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION	
ECED 60158	RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM	

MCED 60115	SCIENCE TECHNOLOGY ENGINEERING AND MATH FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION	
Minimum Total Credit Hours:		**15**

[1] Courses fulfilling major program requirements (listed above) may not be used to also fulfill the requirements for the additional major electives.

Early Childhood Leadership: Advocacy, Curriculum and Policy Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
ECED 60101	CONSTRUCTIVIST TEACHING IN TRADITIONAL AND NON-TRADITIONAL EARLY CHILDHOOD SETTINGS	3
ECED 60158	RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM	3
ECED 60163	CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION	3
ECED 60170	WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION	3
Advisor-Approved Concentration Elective		3
Minimum Total Credit Hours:		**15**

Globalization and Intercultural Competence Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 60169	UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES	3
CI 60171	TEACHING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS	3
Concentration Electives, choose from the following with advisor approval:		3-6
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	
CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
ECED 50123	CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS	
English Education Electives, choose from the following		3-6
ENG 63001	METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE	
ENG 63033	THEORIES IN SECOND LANGUAGE ACQUISITION	
ENG 63038	TEACHING LITERATURE AND CULTURE	
ENG 63047	HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING	
Additional elective with advisor approval		
Minimum Total Credit Hours:		**15**

Science, Technology, Engineering and Mathematics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
ECED 60115	SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION	3
or MCED 60115	SCIENCE TECHNOLOGY ENGINEERING AND MATH FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION	
Mathematics Education Electives, choose from the followng with advisor approval:		6
CI 67095	SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION	
CI 67224	TEACHING MATHEMATICS WITH TECHNOLOGY	
CI 67225	RESEARCH IN MATHEMATICS EDUCATION	
Science Education Electives, choose from the following with advisor approval:		6
CI 61134	RESEARCH TRENDS IN SCIENCE EDUCATION	
CI 61140	CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION	
CI 61141	NATURE OF SCIENCE IN SCIENCE EDUCATION	
CI 67240	INTRODUCTION TO ENVIRONMENTAL EDUCATION	
Additional electives with advisor approval		
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students are guided by faculty in the development of a program of study that satisfies both individual professional goals and expectations of the school, college and university.
- All students are expected to complete an exit project that involves a practicum or action research project.
- To earn the M.Ed. degree in Early Childhood Education, students must complete minimum 33 credit hours.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Co-construct curriculum as a co-worker with learners and others (parents, families, colleagues and community members) to make sound decisions for learning and teaching experiences, as opposed to being passive receivers of prescribed curriculum.
2. Synthesize conceptual understandings of children, theory, content, technology and socio-cultural contexts into meaningful activities and opportunities for learning with all students in pre-kindergarten to grade three.
3. Engage in the habit of self-assessment in order to continually uncover unknown possibilities in children's learning, classroom practice,

educational theory and one's own teaching identity in the local and global context.
4. Become committed to the children and their learning, the families and the local community while having an awareness of the global context.
5. Engage in continuous self-improvement and lifelong learning.
6. Apply skills, knowledge and dispositions to challenge "questionable" policies that limit opportunities for all children.
7. Utilize research and theory to develop varied and effective pedagogies and assessments that will positively impact all students' learning (learning and teaching is a transdisciplinary practice).
8. Advocate as ethical leaders and moral agents striving for social justice.
9. Acknowledge and practice multiple, multi-ethnic, multicultural, multiracial, multi-social, multi-economic and multilingual perspectives in a global society.

Full Description

The Master of Education degree in Early Childhood Education prepares critically reflective teachers with advanced knowledge in pre-school through primary multi-disciplinary curriculum. Students are prepared to be democratically accountable leaders, co-decision makers, pedagogical experts and committed professionals in various early childhood realms. The program emphasizes commitment to equitable and caring learning communities.

Ohio endorsements for pre-school and literacy may be embedded in the program. In addition, students have the opportunity to receive an International Baccalaureate (IB) recognition award in the M.Ed. degree.

The Early Childhood Education major includes the following optional concentrations:

- The **Early Childhood Leadership: Advocacy, Curriculum and Policy** concentration commonly appeals to teachers who desire to further their own early childhood programs, become master teachers and/or enhance their own leadership on behalf of young children and professionals who work with them. Students delve into issues and trends in the field, reconceptualize practice, understand and deconstruct/reconstruct policy understandings and complete their own independent research as an inquiry exit project or thesis.
- The **Globalization and Intercultural Competence** concentration is designed for teachers who are searching for research-based solutions to the learning and teaching of international students and/or who want to build intercultural competence to meet the demands of growing or changing immigrant and refugee populations in the classroom.
- The **Science, Technology, Engineering and Mathematics** concentration provides students the opportunity to engage children in interdisciplinary instruction; gain experience working with and integrating technology; and integrate STEM to break down traditional boundaries.

Early Childhood Education Pre-Kindergarten (3-5 years) Endorsement Preparation - Non-Degree

College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Early Childhood Education Pre-Kindergarten (3-5 Years) Endorsement Preparation program is designed for educators who want to specialize in early childhood education and gain the necessary skills and knowledge to teach young children effectively. You will learn about child development, curriculum design, and instructional strategies specific to this age group. Read more...

Contact Information

- **Elizabeth Kenyon** | ekenyon@kent.edu | 330-672-0620
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Elementary school teachers, except special education

- 3.5% about as fast as the average
- 1,452,100 number of jobs
- $60,940 potential earnings

Kindergarten teachers, except special education

- 3.7% about as fast as the average
- 127,700 number of jobs
- $57,860 potential earnings

Preschool teachers, except special education

- 2.5% slower than the average
- 540,400 number of jobs
- $31,930 potential earnings

Teaching assistants, except postsecondary

- 3.6% about as fast as the average
- 1,395,900 number of jobs
- $28,900 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment

over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Evidence of a valid Resident Educator or Professional Kindergarten-Primary, Elementary, Family and Consumer Sciences or a valid State of Ohio Special Certificate for the Education of the Handicapped

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Licensure Requirements (min C grade in all courses)		
ECED 60103	SOCIAL STUDIES AND THE ARTS IN PRESCHOOL	3
ECED 60113	PRESCHOOL EDUCATION	3
ECED 60151	SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION	3
ECED 67392	PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION [1]	1-10
Program Elective, choose from the following:		3
CI 60169	UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES	
CI 60171	TEACHING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS	
ECED 50302	TEACHING PHONICS AND WORD STUDY	
ECED 60152	APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN	
Minimum Total Credit Hours:		**13**

[1] Required credit hours based upon prior coursework and teaching experience, and current employment. All coursework for the license must be current. For candidates employed full time in a teaching capacity, an individualized plan for completing the practicum will be developed with the faculty advisor. This may include observations, partnering with a preschool teacher and development of a portfolio to demonstrate competency for teaching in the preschool years.

Progression Requirements

- Must maintain a minimum 3.000 overall GPA

Graduation Requirements

- Minimum C grade is required in each course for endorsement.
- The preschool internship may be completed during the summer session.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching endorsement are required to pass specific requirements in order to apply for an endorsement from the Ohio Department of Education. Students should consult the Early Childhood Education program for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to endorsement.

Students who do not apply for endorsement within 12 months of program completion may be subject to additional course requirement, based on standards in force at the time of application.

Program Learning Outcomes

Completers of this program will be able to:

1. Apply early childhood learning standards, including
   a. knowing and understanding characteristics of young children
   b. creating safe and appropriate environments for learning
   c. working with diverse families
   d. performing appropriate assessments
   e. understanding and applying ethical principles within the profession

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Early Childhood Education Pre-Kindergarten (3-5 years) Endorsement Preparation non-degree program is designed for teaching learners ages three through five and is limited to those with a Resident Educator or Professional Kindergarten-Primary, Elementary, Family and Consumer Sciences or a valid State of Ohio special certificate for the education of the handicapped.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Earth Science - B.S.E.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Bachelor of Science in Education in Earth Science prepares you to become a highly effective K-12 teacher, equipped with the knowledge and skills needed to inspire the next generation of Earth scientists. With a focus on inquiry-based learning and field experiences, you'll be prepared to engage students in the wonders of the natural world. Read more...

Contact Information

- **Kristine E. Pytash, Ph.D.** | kpytash@kent.edu | 330-672-0641
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Atmospheric, earth, marine, and space sciences teachers, postsecondary

- 1.9% slower than the average
- 13,100 number of jobs
- $94,520 potential earnings

Geological and hydrologic technicians

- 5.5% faster than the average
- 19,000 number of jobs
- $50,630 potential earnings

Geoscientists, except hydrologists and geographers

- 4.9% about as fast as the average
- 31,800 number of jobs
- $93,580 potential earnings

Hydrologists

- 5.3% faster than the average
- 7,000 number of jobs
- $84,040 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- $137,940 potential earnings

Additional Careers

- Earth science teacher

Accreditation

Council for the Accreditation of Educator Preparation

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. Please insert the standard university approved admission language for undergraduate degrees.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) (min C grade required in all courses)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	3
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	3
ESCI 11040	HOW THE EARTH WORKS (KBS)	3
ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
ESCI 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
ESCI 21080	ALL ABOUT THE OCEANS (KBS)	3
ESCI 23063	EARTH MATERIALS I	4
ESCI 31070	EARTH MATERIALS II (WIC)	4
or ESCI 32066	GEOMORPHOLOGY	
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
Additional Requirements (courses do not count in major GPA)		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING (min C grade) [1]	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) [1]	3
ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS (min C grade) [1]	3
ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING (min C grade)	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) [1]	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR) [1]	9
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10001	FLASHES 101	1
Kent Core Composition (minimum C grade)		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Minimum Total Credit Hours:		**123**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health, and Human Services, including being open-minded, flexible, caring and responsible.

Faculty will select the most qualified applicants based on an interview, letters of recommendation; GPA[1], and performance in English coursework.

Applicants to the program must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health, and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with admission to advanced study.

[1] Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

Double Majors/Dual Degrees

Students seeking to declare an additional teacher education major in the B.S.E. degree (double major) or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major
3. All required method courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
   a. ADED 42292 (or the equivalent required by the major outside the college)
   b. ADED 49525 (or the equivalent required by the major outside the college)

5. Students who have two majors from among the following only need to take one ADED 42392, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.
6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
!	ESCI 11040	HOW THE EARTH WORKS (KBS)	3
!	ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Composition		3
	Kent Core Social Sciences		3
		Credit Hours	**18**
	Semester Two		
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
	ESCI 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
	MATH 11022	TRIGONOMETRY (KMCR)	3
	Kent Core Composition		3
		Credit Hours	**16**
	Semester Three		
	Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	Kent Core Humanities or Fine Arts		3
		Credit Hours	**15**
	Semester Four		
	Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	ESCI 21080	ALL ABOUT THE OCEANS (KBS)	3
	Kent Core Fine Arts		3
	Kent Core Humanities		3
	Kent Core Social Sciences		3
		Credit Hours	**17**
	Semester Five		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	ESCI 23063	EARTH MATERIALS I	4
	GEOG 31062	FUNDAMENTALS OF METEOROLOGY	3
	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
		Credit Hours	**15**
	Semester Six		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS	3
	ESCI 31070 or ESCI 32066	EARTH MATERIALS II (WIC) or GEOMORPHOLOGY	4
	GEOG 41073	CONSERVATION OF NATURAL RESOURCES	3
	PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
	PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
!	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
		Credit Hours	**15**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**123**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Plan multiple lessons using a variety of inquiry approaches that demonstrate their knowledge and understanding of how to engage all students in learning science.
2. Plan a learning environment and learning experiences for all students that demonstrate chemical safety, safety procedures, and the ethical treatment of living organisms within their licensure area.
3. Plan fair and equitable assessment strategies to analyze student learning and to evaluate if the science learning goals are met.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity
- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education

program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:
  - MATH 14001 (or equivalent)
  - MATH 14002
- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following courses (i.e., both courses must be completed with a minimum C grade for graduation):
  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration

(minimum C grade) to be eligible for advanced study. Students should meet with their advisor.

- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science, Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.
- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas: pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science in Education degree in Earth Science prepares students for teacher licensure in earth science, grades 7-12. Students take a broad range of courses in biology, chemistry, geography and physics and specialize in geology content. Most content coursework is completed during students' first three years; methods coursework begins during the spring of their third year. In the final year of the program, students complete remaining content courses, science teaching methods courses and a year-long placement in a local school district, which concludes with 13 weeks of student teaching in the spring. Earth Science

students are encouraged to meet with their advisor early in their program because many courses must be sequenced carefully.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Educational Technology - M.Ed.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Master of Education in Educational Technology program prepares you for a successful career in the field of education technology. With a curriculum focused on the latest trends and technologies in education, you'll gain the skills and knowledge needed to excel in a variety of roles. Read more...

Contact Information

- **Jiahui Wang** | jwang79@kent.edu | 330-672-0664
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Description

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Instructional coordinators

- 5.9% faster than the average
- 192,900 number of jobs
- $66,970 potential earnings

Librarians and media collections specialists

- 5.0% faster than the average
- 146,500 number of jobs
- $60,820 potential earnings

Training and development specialists

- 8.6% much faster than the average
- 327,900 number of jobs
- $62,700 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation from academic and professional references
- Computer Science and Computer Technology Endorsement Preparation concentrations require evidence of a valid Resident Educator or Professional State of Ohio teaching license
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ETEC 57427	TECHNOLOGY AND LEARNING	3
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
ETEC 57403	INSTRUCTIONAL DESIGN	3
ETEC 67420	RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY	3
Culminating Requirement		
Choose from the following:		3-6
ETEC 60199	THESIS I	
ETEC 67492	PRACTICUM AND PORTFOLIO [1]	
Additional Requirements or Concentrations		
Choose from the following:		15-18
Additional Requirements for Students Not Declaring a Concentration		
Computer Science Endorsement Preparation Concentration		
Computer Technology Endorsement Preparation Concentration		
Minimum Total Credit Hours:		**30-33**

[1] Minimum 3 credit hours of ETEC 67492 is required for students in either concentration.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements		
Specialization Electives [1]		15
Minimum Total Credit Hours:		**15**

[1] Students may choose coursework in various specializations, including immersive technologies for learning, management of educational technologies, online and blended learning and teaching, designing instructional and performance solutions.

Computer Science Endorsement Preparation Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CS 61002	ALGORITHMS AND PROGRAMMING I	4
CS 61003	ALGORITHMS AND PROGRAMMING II	4
CS 61004	OPERATING SYSTEMS AND ARCHITECTURE	4
ETEC 67434	EMERGING TECHNOLOGIES FOR EDUCATION	3
ETEC 67402	MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS	3
Minimum Total Credit Hours:		**18**

Computer Technology Endorsement Preparation Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
ETEC 67402	MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS	3
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE	3
ETEC 67426	MANAGING SCHOOL TECHNOLOGIES	3
Electives		6
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students must complete 100 hours in the practicum for either the Computer Technology or Computer Science endorsement.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge about different types of hardware and of a variety of different software applications.
2. Conduct literature reviews to examine issues associated with technology and learning.
3. Develop, implement and troubleshoot web-based, interactive multimedia educational programs.
4. Design, develop and evaluate educational materials using various technology tools.
5. Apply principles of message design to the development of educational materials.
6. Identify critical issues related to the field of educational technology.
7. Advocate for the appropriate use of technology in educational settings, including providing equitable access to technology resources for all students.
8. Apply principles of change management, organizational development, technological diffusion and adoption and project management to effecting change in an organization.
9. Practice the systematic evaluation of educational materials that use technology, based upon the objectives previously established for the unit or lesson.
10. Assess the effectiveness of the use of technology for instruction, with a variety of assessment techniques.
11. Identify trends in the field, and apply those trends to current situations.

In addition, graduates of the Computer Science Endorsement Preparation concentration will be able to:

1. Demonstrate knowledge of computer science content and model important principles and concepts.
2. Demonstrate knowledge of and proficiency in data representation and abstraction.
3. Effectively design, develop and test algorithms.
4. Demonstrate knowledge of digital devices, systems and networks.
5. Demonstrate an understanding of the role computer science plays in its impact in the modern world.

Dual Degree with M.L.I.S. degree in School Library Media K-12

Student have the opportunity to complete a dual degree program with the M.Ed. degree in Educational Technology and the M.L.I.S. degree in School Library Media K-12. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The M.Ed./M.L.I.S. dual degree program leads to a multi-age initial licensure in school library media. This program prepares students to work in all types of libraries, including school libraries. The program of study includes professional educational requirements, along with library science and educational technology courses.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
CI 67310	THEORY AND PRACTICE IN THE TEACHING OF READING	3
CI 67330	READING IN CONTENT AREAS	3
ETEC 57427	TECHNOLOGY AND LEARNING	3
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
LIS 60020	INFORMATION ORGANIZATION	3
LIS 60030	PEOPLE IN THE INFORMATION ECOLOGY	3
LIS 60050	RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE	3
LIS 60607	SCHOOL LIBRARY MANAGEMENT	3
LIS 60617	INFORMATION LITERACY FOR YOUTH	3
LIS 60624	CATALOGING FOR SCHOOL LIBRARIES	3
LIS 60626	ENGAGING TEENS	3
LIS 60629	ENGAGING SCHOOL-AGE CHILDREN	3
LIS 60630	REFERENCE SOURCES AND SERVICES FOR YOUTH	3
LIS 60676	TEACHING STRATEGIES AND METHODS IN SCHOOL LIBRARIES	3
SPED 53050	CHARACTERISTICS OF STUDENTS WITH MILD/ MODERATE INTERVENTION NEEDS	3
Dual Degree Electives, choose from the following:		6
ETEC 57403	INSTRUCTIONAL DESIGN	
ETEC 57427	TECHNOLOGY AND LEARNING	
ETEC 67420	RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY	
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE	
ETEC 67426	MANAGING SCHOOL TECHNOLOGIES	
ETEC 67434	EMERGING TECHNOLOGIES FOR EDUCATION	
ETEC 67442	DESIGNING ONLINE AND BLENDED COURSES	
ETEC 67444	TEACHING ONLINE AND BLENDED COURSES	
ETEC 67445	DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS	
LIS 60675	YOUTH MEDIA CULTURES	
Additional Library and Information Science (LIS) courses are accepted		
Culminating Requirement		
LIS 60892	CULMINATING EXPERIENCE FOR DUAL DEGREE	6
Minimum Total Credit Hours:		**57**

Graduation Requirements

- Students in M.Ed. degree have six years from the term of first enrollment to complete the degree.
- Students are responsible for completing licensure paperwork requirements through the College of Education, Health and Human Services near the end of or at the conclusion of their M.L.I.S. degree program. Exam administered by the Evaluation Systems Group of Pearson is required for licensure.

Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website. for more information on assessments specific to licensure type.

Full Description

The Master of Education degree in Educational Technology prepares students to design, develop and use a variety of technologies in school classrooms, in training facilities or in other educational settings. Students gain core educational technology knowledge and skills and then specialize in an area within the field.

The Educational Technology major include the following optional concentrations:

- The **Computer Technology Endorsement Preparation** concentration allows students with an existing Ohio teaching license to obtain the computer technology endorsement. The endorsement allows teachers to teach computer applications in the classroom or assume technology leadership positions in a school or at the district level. The endorsement cannot be obtained as a stand-alone license.
- The **Computer Science Endorsement Preparation** concentration allows students with an existing Ohio teaching license to obtain the computer science endorsement. The endorsement prepares computer science educators. The endorsement cannot be obtained as a stand-alone license.

Students may declare the program with no concentration and develop of plan of study to meet their educational and career goals.

Integrated Language Arts - B.S.E.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Integrated Language Arts B.S.E. program prepares students to be a successful teacher with a focus on language arts education. With expert faculty and hands-on experience, you'll gain the skills needed to make a difference in students' lives. Read more...

Contact Information

- **Kristine E. Pytash, Ph.D.** | kpytash@kent.edu | 330-672-0641
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

English language and literature teachers, postsecondary

- 2.1% slower than the average
- 81,300 number of jobs
- $69,000 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

Council for the Accreditation of Educator Preparation

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. Students can be admitted directly into the major, including first-time students or transfer students.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) (min C grade required in all courses)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
or COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	
ENG 20021	INTRODUCTION TO CREATIVE WRITING	3
or ENG 43092	TEACHING POETRY IN THE SCHOOLS (ELR)	
ENG 21054	INTRODUCTION TO SHAKESPEARE (KHUM)	3
ENG 22071	STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM)	3
or ENG 22072	STORIES TO SAVE THE WORLD: LITERATURE AND THE FUTURE OF HUMANITY (KHUM)	
ENG 24001	INTRODUCTION TO LITERARY STUDY	3
ENG 24002	INTRODUCTION TO COMPOSITION THEORY	3
ENG 31003	LINGUISTICS	3
ENG 34004	BRITISH LITERATURE, 1800-1900	3
or ENG 34005	BRITISH AND IRISH LITERATURE, 1900-PRESENT	
MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
MDJ 26001	WRITING FOR MEDIA	3
MDJ 47003	TEACHING HIGH SCHOOL JOURNALISM	3
THEA 11000	THE ART OF THE THEATRE (DIVG) (KFA)	3
British Literature Elective, choose from the following:		3
ENG 25001	LITERATURE IN ENGLISH I	
ENG 34001	MEDIEVAL LITERATURE	
ENG 34002	BRITISH LITERATURE, 1500-1660	
ENG 34003	BRITISH LITERATURE, 1660-1800	
Reading Against the Grain Elective, choose from the following:		3
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	
ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 33010	AFRICAN-AMERICAN LITERATURE TO 1900	
ENG 33012	MODERN AFRICAN-AMERICAN LITERATURE	
ENG 33013	AFRICANA WOMEN'S LITERATURE (DIVG)	

ENG 33014	AFRICAN-AMERICAN WOMEN'S LITERATURE	
ENG 33015	AFRICAN LITERATURES (DIVG)	
ENG 34011	WORLD LITERATURE IN ENGLISH (DIVG)	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
U.S. Literature Electives, choose from the following:		6
ENG 33001	U.S. LITERATURE TO 1865	
ENG 33002	U.S. LITERATURE FROM 1865 TO 1945	
ENG 33003	U.S. LITERATURE FROM 1945 TO PRESENT	
Linguistics Elective, choose from the following:		3
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	
ENG 31002	HISTORY OF THE ENGLISH LANGUAGE	
ENG 31004	LEXICOLOGY/LEXICOGRAPHY	
ENG 31008	GRAMMAR FOR TEACHING ENGLISH AS A SECOND/FOREIGN LANGUAGE	
ENG 41001	SOCIOLINGUISTICS IN SCHOOLING (DIVD) (WIC)	
Major Electives, choose from the following:		2
COMM 35912	GENDER AND COMMUNICATION (DIVD)	
COMM 45007	FREEDOM OF SPEECH	
ENG 25002	LITERATURE IN ENGLISH II	
SOC 42568	RACE AND ETHNIC STUDIES (DIVD)	
THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	
THEA 11303	THE ART OF ACTING	
THEA 11722	FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND	
THEA 11723	FUNDAMENTALS OF PRODUCTION LABORATORY I: SCENERY	
THEA 11724	FUNDAMENTALS OF PRODUCTION LABORATORY II: PROPS AND SCENIC ART	
THEA 11732	FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS	
THEA 11733	FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES	
THEA 11734	FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS	
THEA 21016	MAKEUP FOR STAGE AND SCREEN	
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)		
English (ENG) Upper-Division Electives (30000 or 40000 level)		
Media and Journalism (MDJ) Upper-Division Electives (30000 or 40000 level)		
Foreign Language Electives (two semesters)		
Additional Requirements (courses do not count in major GPA)		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING (min C grade) [1]	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) [1]	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) [1]	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR) [1]	9
ADED 43210	TEACHING READING IN MIDDLE AND HIGH SCHOOL WITH YOUNG ADULT LITERATURE	3
ADED 43315	TEACHING LITERATURE IN THE SECONDARY SCHOOLS (min C grade)	3
ADED 43325	MULTI-MODAL LITERACIES IN THE SECONDARY CLASSROOM (min C grade) [1]	3
ADED 43335	TEACHING LANGUAGE AND COMPOSITION (min C grade) [1]	3
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10001	FLASHES 101	1
Kent Core Composition (min B grade)		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
Minimum Total Credit Hours:		**120**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible

Faculty will select the most qualified applicants based on an interview, letters of recommendation, GPA[1], and performance in English coursework.

Applicants must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health, and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with admission to advanced study.

[1] Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

Double Majors/Dual Degrees

Students seeking to declare an additional teacher education major in the B.S.E. degree (double major) or in a different degree (dual degree) may

have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major
3. All required methods courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
   a. ADED 42292 (or the equivalent required by the major outside the college)
   b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take ADED 42392, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.
6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
	THEA 11000	THE ART OF THE THEATRE (DIVG) (KFA)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	COMM 15000 or COMM 26000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) or CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	ENG 22071 or ENG 22072	STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM) or STORIES TO SAVE THE WORLD: LITERATURE AND THE FUTURE OF HUMANITY (KHUM)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	Requirement: minimum 2.75 overall GPA by end of term; minimum 2.600 major GPA		
	ENG 21054	INTRODUCTION TO SHAKESPEARE (KHUM)	3
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	ENG 24001	INTRODUCTION TO LITERARY STUDY	3
	ENG 24002	INTRODUCTION TO COMPOSITION THEORY	3
	ENG 33001 or ENG 33002 or ENG 33003	U.S. LITERATURE TO 1865 or U.S. LITERATURE FROM 1865 TO 1945 or U.S. LITERATURE FROM 1945 TO PRESENT	3
	ETEC 39525	EDUCATIONAL TECHNOLOGY	3
		Credit Hours	**15**
	Semester Five		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
!	ADED 43210	TEACHING READING IN MIDDLE AND HIGH SCHOOL WITH YOUNG ADULT LITERATURE	3
	ENG 20021 or ENG 43092	INTRODUCTION TO CREATIVE WRITING or TEACHING POETRY IN THE SCHOOLS (ELR)	3
	ENG 25001 or ENG 34001 or ENG 34002 or ENG 34003	LITERATURE IN ENGLISH I or MEDIEVAL LITERATURE or BRITISH LITERATURE, 1500-1660 or BRITISH LITERATURE, 1660-1800	3
	ENG 31003	LINGUISTICS	3
	MDJ 26001	WRITING FOR MEDIA	3
		Credit Hours	**18**
	Semester Six		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 43315	TEACHING LITERATURE IN THE SECONDARY SCHOOLS	3
!	ADED 43335	TEACHING LANGUAGE AND COMPOSITION	3
	ENG 33001 or ENG 33002 or ENG 33003	U.S. LITERATURE TO 1865 or U.S. LITERATURE FROM 1865 TO 1945 or U.S. LITERATURE FROM 1945 TO PRESENT	3
	MDJ 47003	TEACHING HIGH SCHOOL JOURNALISM	3
	Linguistics Elective		3
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
!	ADED 43325	MULTI-MODAL LITERACIES IN THE SECONDARY CLASSROOM	3
	ENG 34004 or ENG 34005	BRITISH LITERATURE, 1800-1900 or BRITISH AND IRISH LITERATURE, 1900-PRESENT	3
	Reading Against the Grain Elective		3
	Major Elective		2
		Credit Hours	**14**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	

Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Plan and implement research-based instruction in the teaching of reading, literature, language, and composition.
2. Implement response-centered literacy instruction that is culturally relevant and sustaining.
3. Implement fair and equitable assessment strategies to analyze students' literacy learning.
4. Engage in reflective practice and pursue continued professional growth and collaboration with colleagues.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity

- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:
  - MATH 14001 (or equivalent)
  - MATH 14002
- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following

courses (i.e., both courses must be completed with a minimum C grade for graduation):
  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration (minimum C grade) to be eligible for advanced study. Students should meet with their advisor.
- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science, Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.
- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas: pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science in Education degree in Integrated Language Arts prepares students for teacher licensure in integrated language arts reading, writing, speaking and listening) for grades 7-12. The combination of content and methods courses provides a strong foundation for graduates of the program, who will be licensed to teach English/language arts, journalism, communication and theater. (Please note that those with Ohio licensure in integrated language arts are able to teach theater for grades seven and eight only.) The program uniquely features a methods course devoted to the teaching of new media.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Integrated Language Arts Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Integrated Language Arts Additional Licensure Preparation program is designed for licensed teachers, this program will equip you with the skills and knowledge needed to teach English Language Arts in grades 7-12, while also providing you with the opportunity to explore new teaching methods and gain valuable experience in the classroom. Read more...

Contact Information

- **Kristine E. Pytash, Ph.D.** | kptash@kent.edu | 330-672-0641
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

English language and literature teachers, postsecondary

- 2.1% slower than the average
- 81,300 number of jobs
- $69,000 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

National Council for Accreditation of Teacher Education (NCATE)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 overall undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid Resident Educator or Professional State of Ohio teaching license

Applicants will be assessed holistically, considering academic credentials, academic or professional references; non-academic dimensions; and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**

- Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements		
ADED 53315	TEACHING LITERATURE IN THE SECONDARY SCHOOLS	3
ADED 63292	ADOLESCENT/YOUNG ADULT INTEGRATED LANGUAGE ARTS ADDITIONAL LICENSURE INTERNSHIP	1
CI 67312	TEACHING WRITING AS A PROCESS	3
Minimum Total Credit Hours:		**7**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600*	3.000

* Minimum 2.600 content area GPA is required for the Adolescence to Young Adult 7-12 licensure.

- **Additional Coursework:** An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Integrated Language Arts non-degree program.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the OAE Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this program will be able to:

1. Plan and implement research-based instruction in the teaching of reading, literature, language and composition.
2. Implement response-centered literacy instruction that is culturally relevant and sustaining.
3. Implement fair and equitable assessment strategies to analyze students' literacy learning.
4. Engage in reflective practice and pursue continued professional growth and collaboration with colleagues.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Integrated Language Arts Additional Licensure Preparation non-degree program prepares students to obtain an additional teacher license in integrated language arts (reading, writing, speaking and listening) for grades 7-12. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, which is granted by the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for additional licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Integrated Mathematics - B.S.E.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The B.S.E. in Integrated Mathematics program prepares you for a successful career as a teacher. From middle school to high school, Kent State's program has you covered. Read more...

Contact Information

- **Kristine E. Pytash, Ph.D.** | kpytash@kent.edu | 330-672-0641
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Mathematical science teachers, postsecondary

- 1.3% slower than the average
- 60,100 number of jobs
- $73,650 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

Council for the Accreditation of Educator Preparation

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. Standard university approved admission for undergraduate degrees.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA; min C grade required in all courses)		
ADED 33268	MATHEMATICAL MODELING FOR SECONDARY TEACHERS	3
CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	4
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 21001	LINEAR ALGEBRA	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
MATH 30011	BASIC PROBABILITY AND STATISTICS	3
MATH 31011	PROOFS IN DISCRETE MATHEMATICS	3
MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
MATH 47021	HISTORY OF MATHEMATICS	3
Three electives (9 hours) must be chosen from mathematics courses 30000 and above. Additional Requirements (courses do not count in major GPA)		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING (min C grade) [1]	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) [1]	3
ADED 32268	THE SECONDARY SCHOOL MATHEMATICS CURRICULUM (min C grade)	3
ADED 42268	TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS (min C grade)	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) [1]	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR) [1]	9
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
HED 42575	HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS (min C grade)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3

SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10001	FLASHES 101	1
Kent Core Composition (minimum C grade)		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Minimum Total Credit Hours:		**112**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible.

Faculty will select the most qualified applicants based on an interview; letters of recommendation; GPA[1]; and performance in English and communication studies coursework. Applicants to the Integrated Mathematics major must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with advanced study.

[1] Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

Double Majors/Dual Degrees

Students seeking to declare an additional teacher education major in the B.S.E. degree (double major), or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major
3. All required methods courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
   a. ADED 42292 (or the equivalent required by the major outside the college)
   b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take ADED 42392, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.
6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Three		
	Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		

	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	ETEC 39525	EDUCATIONAL TECHNOLOGY	3
	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
	MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Four		
	Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
	MATH 30011	BASIC PROBABILITY AND STATISTICS	3
	MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Five		
	Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
!	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
!	CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	4
	MATH 21001	LINEAR ALGEBRA	3
	MATH 31011	PROOFS IN DISCRETE MATHEMATICS	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
		Credit Hours	**16**
	Semester Six		
	Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
!	ADED 32268	THE SECONDARY SCHOOL MATHEMATICS CURRICULUM	3
!	ADED 33268	MATHEMATICAL MODELING FOR SECONDARY TEACHERS	3
	HED 42575	HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS	3
	Mathematics Electives		6
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
!	ADED 42268	TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS	3
!	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	MATH 47021	HISTORY OF MATHEMATICS	3
	Mathematics Elective		3
		Credit Hours	**12**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
!	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**121**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Successfully pass the Ohio Assessment Exam.
2. Demonstrate understanding of the content and pedagogy of required program courses.
3. Successfully plan three types of lesson plans: conceptual, procedural and relevance to teaching mathematics.
4. Successfully complete student teaching.
5. Create a unit plan in secondary mathematics.
6. Model five problems of antiquity in Desmos or Geogebra.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a

minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity
- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare

a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:
  - MATH 14001 (or equivalent)
  - MATH 14002
- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following courses (i.e., both courses must be completed with a minimum C grade for graduation):
  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration (minimum C grade) to be eligible for advanced study. Students should meet with their advisor.
- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science, Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.
- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas:

pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science in Education degree in Integrated Mathematics prepares students for teacher licensure in grades 7-12. Students complete most of their content coursework during their first three years; methods coursework typically begins during the spring of their third year. During the final year of the program, candidates complete remaining content courses, mathematics teaching methods courses and a year-long placement in a local school district, which concludes with 13 weeks of student teaching in the spring.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Integrated Mathematics Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Integrated Mathematics Additional Licensure Preparation program equips licensed teachers with the additional credentials necessary to teach integrated mathematics in grades 7-12. With courses that cover topics such as calculus, geometry, algebra and statistics, you'll gain a comprehensive understanding of the subject matter and the best ways to teach it to your students. Read more...

Contact Information

- **Kristine Pytash** | kpytash@kent.edu | 330-672-2580

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Mathematical science teachers, postsecondary

- 1.3% slower than the average
- 60,100 number of jobs
- $73,650 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

National Council for Accreditation of Teacher Education (NCATE)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 overall undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid Resident Educator or Professional State of Ohio teaching license

Applicants will be assessed holistically, considering academic credentials; academic or professional references; non-academic dimensions; and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements		
ADED 52267	IMPROVING MATHEMATICS INSTRUCTION FOR ADOLESCENT AND ADULT EDUCATION	3
ADED 63492	ADOLESCENT/YOUNG ADULT INTEGRATED MATHEMATICS ADDITIONAL LICENSURE INTERNSHIP	1
CI 67224	TEACHING MATHEMATICS WITH TECHNOLOGY	3
Minimum Total Credit Hours:		**7**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600*	3.000

* Minimum 2.600 content area GPA is required for the Adolescence to Young Adult 7-12 licensure.

- **Additional Coursework:** An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Integrated Mathematics non-degree program.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the OAE Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Students who do not apply for license within 12 months

of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this program will be able to:

1. Successfully pass the Ohio Assessment Exam.
2. Demonstrate understanding of the content and pedagogy of required integrated mathematics courses.
3. Successfully plan three types of lesson plans: conceptual, procedural and relevance to teaching mathematics.
4. Successfully complete student teaching.
5. Create a unit plan in secondary mathematics.
6. Model five problems of antiquity in Desmos or Geogebra.
7. Fulfill the requirements of edTPA.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Integrated Mathematics Additional Licensure Preparation non-degree program prepares students to obtain an additional teacher license in mathematics for grades 7-12. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, which is granted by the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete requirements for the master's program, in addition to courses that are prescribed here for additional licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Integrated Science - B.S.E.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Bachelor of Science in Education in Integrated Science prepares you to teach science to middle and high school students through a multidisciplinary approach. With a curriculum that combines biology, chemistry, physics and earth science, you'll be equipped to create engaging and effective lesson plans. Read more...

Contact Information

- **Kristine E. Pytash, Ph.D.** | kpytash@kent.edu | 330-672-0641
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Agricultural sciences teachers, postsecondary

- 2.1% slower than the average
- 11,400 number of jobs
- $90,340 potential earnings

Atmospheric, earth, marine, and space sciences teachers, postsecondary

- 1.9% slower than the average
- 13,100 number of jobs
- $94,520 potential earnings

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Chemistry teachers, postsecondary

- 4.3% about as fast as the average
- 26,400 number of jobs
- $80,400 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Environmental science teachers, postsecondary

- 3.7% about as fast as the average
- 7,600 number of jobs
- $84,740 potential earnings

Forestry and conservation science teachers, postsecondary

- 2.2% slower than the average
- 2,100 number of jobs
- $87,400 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Physics teachers, postsecondary

- 4.4% about as fast as the average
- 17,100 number of jobs
- $90,400 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

Council for the Accreditation of Educator Preparation

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. Standard university approved admission for undergraduate degrees.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) (min C grade required in all courses)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
ESCI 11040	HOW THE EARTH WORKS (KBS)	3
ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
ESCI 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	3
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
Additional Requirements (courses do not count in major GPA)		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING (min C grade) [1]	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) [1]	3
ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS (min C grade) [1]	3
ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING (min C grade)	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) [1]	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR) [1]	9
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Concentrations		
Choose from the following:		21-28
Chemistry		
Earth Science		

Life Science	
Physics	
Minimum Total Credit Hours:	**131-138**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Chemistry Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all courses)		
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 30301	INORGANIC CHEMISTRY I	3
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Minimum Total Credit Hours:		**21**

Earth Science Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all courses)		
ESCI 21080	ALL ABOUT THE OCEANS (KBS)	3
ESCI 23063	EARTH MATERIALS I	4
ESCI 31070	EARTH MATERIALS II (WIC)	4
or ESCI 32066	GEOMORPHOLOGY	
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Minimum Total Credit Hours:		**21**

Life Science Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all courses)		
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 40163	EVOLUTION	3
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Minimum Total Credit Hours:		**21**

Physics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all courses)		
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
PHY 32511	ELECTRONICS	3-4
or PHY 36002	APPLICATIONS OF MODERN PHYSICS	
PHY 36001	INTRODUCTORY MODERN PHYSICS	3
Minimum Total Credit Hours:		**28**

Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents

Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible.

Faculty will select the most qualified applicants based on an interview; letters of recommendation, GPA[1], and performance in English coursework.

Applicants to the Integrated Science major must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with advanced study.

[1] Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

Double Majors/Dual Degrees

Students seeking to declare an additional teacher education major in the B.S.E. degree (double major), or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major
3. All required methods courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
   a. ADED 42292 (or the equivalent required by the major outside the college)
   b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take ADED 42392, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.
6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

Roadmaps

Chemistry Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	MATH 11022	TRIGONOMETRY (KMCR)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	ESCI 11040	HOW THE EARTH WORKS (KBS)	3
	ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	BSCI 30156	ELEMENTS OF GENETICS	3
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
	ESCI 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Five		
	Requirement: minimum 2.750 overall GPA required by end of term and minimum 2.600 major GPA		
	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	BSCI 30140	CELL BIOLOGY	4
	CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
		Credit Hours	**17**
	Semester Six		
	Requirement: minimum 2.750 overall GPA required by end of term and minimum 2.600 major GPA		
	ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS	3
	CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	CHEM 30301	INORGANIC CHEMISTRY I	3
	GEOG 41073	CONSERVATION OF NATURAL RESOURCES	3
	PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
	PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
		Credit Hours	**18**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	CHEM 30105	ANALYTICAL CHEMISTRY I	3
	CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
	PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3

	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
		Credit Hours	**18**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**131**

Earth Science Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
	ESCI 11040	HOW THE EARTH WORKS (KBS)	3
	ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Two		
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
	ESCI 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
	MATH 11022	TRIGONOMETRY (KMCR)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	ESCI 21080	ALL ABOUT THE OCEANS (KBS)	3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Four		
	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	BSCI 30140	CELL BIOLOGY	4
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Five		
	Requirement: minimum 2.750 overall GPA required by end of term and minimum 2.600 major GPA		
	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
	ESCI 23063	EARTH MATERIALS I	4
	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
		Credit Hours	**16**
	Semester Six		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS	3
	BSCI 30156	ELEMENTS OF GENETICS	3
	ESCI 31070 or ESCI 32066	EARTH MATERIALS II (WIC) or GEOMORPHOLOGY	4
	PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
	PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	GEOG 41073	CONSERVATION OF NATURAL RESOURCES	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
		Credit Hours	**18**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**131**

Life Science Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	MATH 11022	TRIGONOMETRY (KMCR)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	BSCI 30140	CELL BIOLOGY	4
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Four		
	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	BSCI 30156	ELEMENTS OF GENETICS	3
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	GEOG 41073	CONSERVATION OF NATURAL RESOURCES	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
		Credit Hours	**17**
	Semester Five		
	Requirement: minimum 2.750 overall GPA required by end of term and minimum 2.600 major GPA		
	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
	ESCI 11040	HOW THE EARTH WORKS (KBS)	3
	ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
		Credit Hours	**16**
	Semester Six		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS	3
	BSCI 40163	EVOLUTION	3
	CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
	PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
	PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
		Credit Hours	**18**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	ESCI 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
	ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
		Credit Hours	**17**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
		Credit Hours	**12**
		Minimum Total Credit Hours:	**131**

Physics Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Two		
	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	MATH 11022	TRIGONOMETRY (KMCR)	3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Three		
	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
	CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
		Credit Hours	**18**
	Semester Four		
	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
	ESCI 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
		Credit Hours	**17**
	Semester Five		
	Requirement: minimum 2.750 overall GPA required by end of term and minimum 2.600 major GPA		
	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Six		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS	3
	BSCI 30140	CELL BIOLOGY	4
	BSCI 30156	ELEMENTS OF GENETICS	3
	GEOG 41073	CONSERVATION OF NATURAL RESOURCES	3
	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
		Credit Hours	**18**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	ESCI 11040	HOW THE EARTH WORKS (KBS)	3
	ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
	PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
	PHY 32511	ELECTRONICS	4
		Credit Hours	**20**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
	Kent Core Requirement		3
		Credit Hours	**15**
		Minimum Total Credit Hours:	**142**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9

Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Plan multiple lessons using a variety of inquiry approaches that demonstrate their knowledge and understanding of how to engage all students in learning science.
2. Plan a learning environment and learning experiences for all students that demonstrate chemical safety, safety procedures, and the ethical treatment of living organisms within their licensure area.
3. Plan fair and equitable assessment strategies to analyze student learning and to evaluate if the science learning goals are met.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity
- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.

- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:
  - MATH 14001 (or equivalent)
  - MATH 14002
- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following courses (i.e., both courses must be completed with a minimum C grade for graduation):
  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration (minimum C grade) to be eligible for advanced study. Students should meet with their advisor.
- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science, Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.
- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas: pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science in Education degree in Integrated Science is a four-year degree that prepares students for licensure in all areas of science, grades 7-12. Students take a broad range of science-content courses in earth science, geography, biology, chemistry and physics, and choose one area in which to specialize. Students complete most of their content coursework during their first three years and then begin their methods coursework during the spring of their third year. During the final year of the program, students complete remaining content courses, science teaching methods courses and a year-long placement in a local school district, which concludes with 13 weeks of student teaching in the spring. Integrated Science students are encouraged to meet with their advisor early in their program as many courses must be sequenced carefully.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Integrated Science Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Integrated Science Additional Licensure Preparation program is designed for those who already have a teaching license but want to expand their expertise to teach integrated science classes. You'll gain valuable skills in biology, chemistry, physics, and earth science, giving you a comprehensive understanding of science instruction. With a focus on inquiry-based teaching methods and hands-on learning, this program will prepare you to engage and inspire your students like never before. Read more...

Contact Information

- **Kristine Pytash** | kpytash@kent.edu | 330-672-2580
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Agricultural sciences teachers, postsecondary

- 2.1% slower than the average
- 11,400 number of jobs
- $90,340 potential earnings

Atmospheric, earth, marine, and space sciences teachers, postsecondary

- 1.9% slower than the average
- 13,100 number of jobs
- $94,520 potential earnings

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Chemistry teachers, postsecondary

- 4.3% about as fast as the average
- 26,400 number of jobs
- $80,400 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Environmental science teachers, postsecondary

- 3.7% about as fast as the average
- 7,600 number of jobs
- $84,740 potential earnings

Forestry and conservation science teachers, postsecondary

- 2.2% slower than the average
- 2,100 number of jobs
- $87,400 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Physics teachers, postsecondary

- 4.4% about as fast as the average
- 17,100 number of jobs
- $90,400 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

National Council for Accreditation of Teacher Education (NCATE)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment

over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 overall undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid Resident Educator or Professional State of Ohio teaching license

Applicants will be assessed holistically, considering academic credentials, academic or professional references, non-academic dimensions and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements		
ADED 52277	TEACHING SCIENCE IN THE SECONDARY SCHOOL	3
or CI 61133	ISSUES AND TRENDS IN ELEMENTARY SCIENCE	
or CI 61140	CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION	
ADED 63592	ADOLESCENT/YOUNG ADULT INTEGRATED SCIENCE ADDITIONAL LICENSURE INTERNSHIP	1
CI 57330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
Minimum Total Credit Hours:		**7**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600*	3.000

* Minimum 2.600 content area GPA is required for the Adolescence to Young Adult 7-12 licensure.

- **Additional Coursework:** An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Integrated Science non-degree program.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the OAE Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Students who do not apply for license within 12 months of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this program will be able to:

1. Plan multiple lessons using a variety of inquiry approaches that demonstrate their knowledge and understanding of how to engage all students in learning science.
2. Plan a learning environment and learning experiences for all students that demonstrate chemical safety, safety procedures and the ethical treatment of living organisms within their licensure area.
3. Plan fair and equitable assessment strategies to analyze student learning and to evaluate if the science learning goals are met.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Integrated Science Additional Licensure Preparation non-degree program prepares students to obtain an additional teacher license in all areas of sciences for grades 7-12. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure,

which is granted by the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for additional licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Integrated Social Studies - B.S.E.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Bachelor of Science in Education in Integrated Social Studies prepares you to teach social studies to middle and high school students using a multidisciplinary approach. With a curriculum that combines history, geography, economics and political science, you'll be equipped to create engaging and effective lesson plans. Enroll now and start your journey towards shaping the next generation of informed citizens. Read more...

Contact Information

- **Kristine E. Pytash, Ph.D.** | kpytash@kent.edu | 330-672-0641
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Middle school teachers, except special and career/ technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/ technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

Council for the Accreditation of Educator Preparation

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. Standard university approved admission for undergraduate degrees.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) (min C grade required in all courses)		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3

WMST 30091	KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD)	3
Psychology Elective, choose from the following:		3
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	
PSYC 30652	SOCIAL AND PERSONALITY DEVELOPMENT	
PSYC 31532	SOCIAL PSYCHOLOGY	
PSYC 40112	PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE	
PSYC 40625	DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD)	
Additional Requirements (courses do not count in major GPA)		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING [1]	3
ADED 22275	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION (min C grade)	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) [1]	3
ADED 32275	CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES (min C grade) [1]	3
ADED 42275	TEACHING SOCIAL STUDIES IN GRADES 7 - 12 (min C grade)	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) [1]	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR) [1]	9
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10001	FLASHES 101	1
Kent Core Composition (min C grade)		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Fine Arts		3
Kent Core Basic Sciences (must include one laboratory)		3
Concentrations		
Choose from the following:		27-30
Economics		
Geography		
History		
Political Science		
Sociology		
Minimum Total Credit Hours:		**121**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Economics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or POL 10500	WORLD POLITICS (DIVG) (KSS)	
or POL 30002	POLITICAL THOUGHT	
POL 30100	AMERICAN POLITICAL THEORY	3
or POL 30820	INTERNATIONAL ORGANIZATION AND LAW	
or POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	3
or SOC 32400	INDIVIDUAL AND SOCIETY	
or SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
Economics Electives, choose from the following:		12
ECON 32025	MONEY, CREDIT AND BANKING	
ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS	
ECON 32041	INTERMEDIATE MACROECONOMIC THEORY AND POLICY	
ECON 32083	THE ECONOMICS OF POVERTY (DIVD)	
ECON 32084	ECONOMICS OF THE ENVIRONMENT	
ECON 42072	LABOR ECONOMICS: WORK AND PAY	
ECON 42075	INTERNATIONAL ECONOMIC RELATIONS	
ECON 42080	REGIONAL ECONOMICS	
ECON 42081	URBAN ECONOMICS: CITIES AND HOUSING	
ECON 42085	PUBLIC ECONOMICS: GOVERNMENT AND POLICY	
ECON 42086	ECONOMICS OF HEALTH CARE	
Geography Elective, choose from the following:		3
GEOG 32080	POLITICS AND PLACE (DIVG)	
GEOG 34070	ECONOMIC GEOGRAPHY	
GEOG 36065	CITIES AND URBANIZATION (DIVG)	
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)	
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	
GEOG 37072	GEOGRAPHY OF CHINA	
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE	
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT	
GEOG 42070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES	
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT	
GEOG 46080	URBAN SUSTAINABILITY	
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY	
History Elective, choose from the following:		3
HIST 30020	THE SIXTIES IN AMERICA	
HIST 30070	THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 31035	THE GLOBAL COLD WAR	
HIST 31053	MODERN EUROPE, 1815 TO PRESENT	
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT	
HIST 31106	PROGRESSIVE AMERICA - REFORMERS, CRUSADERS AND RADICALS: AMERICA, 1893-1929	
HIST 31107	NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945	
HIST 31112	CHINESE CIVILIZATION	
HIST 31113	HISTORY OF JAPAN	

HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31131	HISTORY OF COLONIAL AFRICA, 1880-1994	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY MODERN LATIN AMERICA (C. 1450-1820) (DIVG)	
HIST 41060	COMPARATIVE FASCISM	
Additional Requirements (courses do not count in major GPA)		
Kent Core Basic Sciences (must include one laboratory)		3-4
Minimum Total Credit Hours:		**30**

Geography Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
or GEOG 17064	GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	
GEOG 21062	PHYSICAL GEOGRAPHY (KBS)	3
GEOG 39070	MAPPING, SPACE AND POWER	3
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or POL 10500	WORLD POLITICS (DIVG) (KSS)	
or POL 30002	POLITICAL THOUGHT	
POL 30100	AMERICAN POLITICAL THEORY	3
or POL 30820	INTERNATIONAL ORGANIZATION AND LAW	
or POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	3
or SOC 32400	INDIVIDUAL AND SOCIETY	
or SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
Geography Upper-Division Electives, choose from the following:		3
GEOG 32080	POLITICS AND PLACE (DIVG)	
GEOG 34070	ECONOMIC GEOGRAPHY	
GEOG 36065	CITIES AND URBANIZATION (DIVG)	
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE	
GEOG 42070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES	
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT	
GEOG 46080	URBAN SUSTAINABILITY	
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY	
International Geography Elective, choose from the following:		3
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)	
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	
GEOG 37072	GEOGRAPHY OF CHINA	
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
History Elective, choose from the following:		3
HIST 30020	THE SIXTIES IN AMERICA	
HIST 30070	THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 31106	PROGRESSIVE AMERICA - REFORMERS, CRUSADERS AND RADICALS: AMERICA, 1893-1929	
HIST 31035	THE GLOBAL COLD WAR	
HIST 31053	MODERN EUROPE, 1815 TO PRESENT	
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT	
HIST 31107	NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945	
HIST 31112	CHINESE CIVILIZATION	
HIST 31113	HISTORY OF JAPAN	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31131	HISTORY OF COLONIAL AFRICA, 1880-1994	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY MODERN LATIN AMERICA (C. 1450-1820) (DIVG)	
HIST 41060	COMPARATIVE FASCISM	
Additional Requirements (courses do not count in major GPA)		
General Electives (total credit hours depends on earning 124 credit hours, including 39 upper-division credit hours)		3
Minimum Total Credit Hours:		**30**

History Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or POL 10500	WORLD POLITICS (DIVG) (KSS)	
or POL 30002	POLITICAL THOUGHT	
POL 30100	AMERICAN POLITICAL THEORY	3
or POL 30820	INTERNATIONAL ORGANIZATION AND LAW	
or POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	3
or SOC 32400	INDIVIDUAL AND SOCIETY	
or SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
Non-Western History Elective, choose from the following:		3
HIST 31035	THE GLOBAL COLD WAR	
HIST 31112	CHINESE CIVILIZATION	
HIST 31113	HISTORY OF JAPAN	
HIST 31114	TRADITION AND REVOLUTION IN SOUTHEAST ASIA (DIVG)	
HIST 31118	VIETNAM WAR	
HIST 31124	HIGHLIFE HISTORIES: MODERN AFRICAN URBAN EXPERIENCE	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31131	HISTORY OF COLONIAL AFRICA, 1880-1994	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY MODERN LATIN AMERICA (C. 1450-1820) (DIVG)	
U.S. History Elective, choose from the following:		3
HIST 30030	IDEAS IN ACTION: U.S. INTELLECTUAL HISTORY (DIVD)	
HIST 30111	JEFFERSON-JACKSON ERA, 1789-1848	
HIST 31071	AMERICA AND THE WORLD THROUGH 1898	
HIST 31084	THE INVENTION OF AMERICA: 1492-1714 (DIVD)	
HIST 31085	ALEXANDER HAMILTON'S WORLD: 18TH-CENTURY AMERICA (DIVD)	
HIST 31087	SECTIONAL CONFLICT AND CIVIL WAR	
HIST 31100	RECONSTRUCTION AND THE LATER SOUTH	

HIST 31101	WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865	
HIST 31104	MIGRATIONS TO AMERICA, 1607 TO PRESENT (DIVD)	
20th Century U.S. History Elective, choose from the following:		3
HIST 30020	THE SIXTIES IN AMERICA	
HIST 31072	AMERICA AND THE WORLD: 1898-1945	
HIST 31073	AMERICA AND THE WORLD SINCE 1945	
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT	
HIST 31106	PROGRESSIVE AMERICA - REFORMERS, CRUSADERS AND RADICALS: AMERICA, 1893-1929	
HIST 31107	NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945	
Europe Since 1500 Elective, choose from the following:		3
HIST 30040	NINETEENTH-CENTURY EUROPE	
HIST 30049	MODERN EUROPEAN HISTORY, 1914-1945	
HIST 30050	MODERN EUROPEAN HISTORY: 1945-PRESENT	
HIST 30060	HISTORY OF GERMANY, 1871-PRESENT	
HIST 30070	THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 31031	REFORMATIONS IN EARLY MODERN CHRISTIANITY	
HIST 31032	THE GLOBAL CRISIS OF THE SEVENTEENTH CENTURY	
HIST 31053	MODERN EUROPE, 1815 TO PRESENT	
HIST 31056	EUROPE IN THE RENAISSANCE	
HIST 31550	MEDICINE IN THE MODERN WORLD SINCE 1500	
HIST 31543	THE SCIENTIFIC REVOLUTION	
HIST 41060	COMPARATIVE FASCISM	
Geography Elective, choose from the following:		3
GEOG 32080	POLITICS AND PLACE (DIVG)	
GEOG 34070	ECONOMIC GEOGRAPHY	
GEOG 36065	CITIES AND URBANIZATION (DIVG)	
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)	
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	
GEOG 37072	GEOGRAPHY OF CHINA	
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE	
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT	
GEOG 42070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES	
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT	
GEOG 46080	URBAN SUSTAINABILITY	
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY	
Additional Requirements (courses do not count in major GPA)		
Kent Core Basic Sciences (must include one laboratory)		3-4
Minimum Total Credit Hours:		**27**

Political Science Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
POL 10500	WORLD POLITICS (DIVG) (KSS)	3
POL 30002	POLITICAL THOUGHT	3
POL 30100	AMERICAN POLITICAL THEORY	3
or POL 30500	INTERNATIONAL RELATIONS THEORY	
POL 30430	OHIO POLITICS	3
or POL 30450	URBAN POLITICS AND POLICY	
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	3
or SOC 32400	INDIVIDUAL AND SOCIETY	
or SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
American Government Elective, choose from the following:		3
POL 30110	THE CONGRESS	
POL 30120	PRESIDENCY AND EXECUTIVE BUREAUCRACY	
POL 30450	URBAN POLITICS AND POLICY	
POL 40116	PUBLIC OPINION AND POLITICAL BEHAVIOR	
POL 40118	POLITICAL PARTIES AND INTEREST GROUPS	
POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
International Relation/Comparative Politics Elective, choose from the following:		3
POL 30820	INTERNATIONAL ORGANIZATION AND LAW	
POL 30530	ASIAN POLITICS (DIVG)	
POL 30540	AFRICAN POLITICS (DIVG)	
POL 40540	POLITICS OF DEVELOPMENT (DIVG)	
POL 40560	HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG)	
POL 40840	COMPARATIVE FOREIGN POLICY	
POL 40930	U.S. FOREIGN POLICY	
Geography Elective, choose from the following:		3
GEOG 32080	POLITICS AND PLACE (DIVG)	
GEOG 34070	ECONOMIC GEOGRAPHY	
GEOG 36065	CITIES AND URBANIZATION (DIVG)	
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)	
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	
GEOG 37072	GEOGRAPHY OF CHINA	
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE	
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT	
GEOG 42070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES	
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT	
GEOG 46080	URBAN SUSTAINABILITY	
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY	
History Elective, choose from the following:		3
HIST 30020	THE SIXTIES IN AMERICA	
HIST 30070	THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 31035	THE GLOBAL COLD WAR	

HIST 31053	MODERN EUROPE, 1815 TO PRESENT	
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT	
HIST 31106	PROGRESSIVE AMERICA - REFORMERS, CRUSADERS AND RADICALS: AMERICA, 1893-1929	
HIST 31107	NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945	
HIST 31112	CHINESE CIVILIZATION	
HIST 31113	HISTORY OF JAPAN	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31131	HISTORY OF COLONIAL AFRICA, 1880-1994	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY MODERN LATIN AMERICA (C. 1450-1820) (DIVG)	
HIST 41060	COMPARATIVE FASCISM	
Additional Requirements (courses do not count in major GPA)		
Kent Core Basic Sciences (must include one laboratory)		3-4
Minimum Total Credit Hours:		**30**

Sociology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or POL 10500	WORLD POLITICS (DIVG) (KSS)	
or POL 30002	POLITICAL THOUGHT	
POL 30100	AMERICAN POLITICAL THEORY	3
or POL 30820	INTERNATIONAL ORGANIZATION AND LAW	
or POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	3
or SOC 32400	INDIVIDUAL AND SOCIETY	
or SOC 32569	MINORITIES IN THE UNITED STATES (DIVD)	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	3
Sociology Electives, choose from the following:		9
SOC 32210	RESEARCHING SOCIETY (ELR) (WIC)	
SOC 32560	SOCIOLOGY OF FAMILIES (DIVD)	
SOC 32569	MINORITIES IN THE UNITED STATES (DIVD)	
SOC 32762	DEVIANT BEHAVIOR	
SOC 42315	SOCIOLOGY OF GENDER (DIVD)	
SOC 42478	ADOLESCENCE IN SOCIETY	
SOC 42577	SOCIOLOGY OF FAMILY VIOLENCE	
Geography Elective, choose from the following:		3
GEOG 32080	POLITICS AND PLACE (DIVG)	
GEOG 34070	ECONOMIC GEOGRAPHY	
GEOG 36065	CITIES AND URBANIZATION (DIVG)	
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)	
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	
GEOG 37072	GEOGRAPHY OF CHINA	
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE	
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT	
GEOG 42070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES	
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT	
GEOG 46080	URBAN SUSTAINABILITY	
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY	
History Elective, choose from the following:		3
HIST 30020	THE SIXTIES IN AMERICA	
HIST 30070	THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 31035	THE GLOBAL COLD WAR	
HIST 31053	MODERN EUROPE, 1815 TO PRESENT	
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT	
HIST 31106	PROGRESSIVE AMERICA - REFORMERS, CRUSADERS AND RADICALS: AMERICA, 1893-1929	
HIST 31107	NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945	
HIST 31112	CHINESE CIVILIZATION	
HIST 31113	HISTORY OF JAPAN	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31131	HISTORY OF COLONIAL AFRICA, 1880-1994	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY MODERN LATIN AMERICA (C. 1450-1820) (DIVG)	
HIST 41060	COMPARATIVE FASCISM	
Additional Requirements (courses do not count in major GPA)		
Kent Core Basic Sciences (must include one laboratory)		3-4
Minimum Total Credit Hours:		**30**

Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible.

Faculty will select the most qualified applicants based on an interview; letters of recommendation; GPA[1] and performance in English studies coursework. Applicants to the Integrated Social Studies major must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with admission to advanced study.

[1] Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced

study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

- A minimum C grade may be required in some courses.

Double Majors/Dual Degrees

Students seeking to declare an additional teacher education major in the B.S.E. degree (double major), or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major
3. All required methods courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
   a. ADED 42292 (or the equivalent required by the major outside the college)
   b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take ADED 42392, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.
6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

Roadmaps

Economics Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
	HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
	POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA by end of the term		
!	ADED 22275	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Sociology Elective		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Four		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	3
	Geography Elective		3
		Credit Hours	**15**
	Semester Five		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	POL 10004 or POL 10500 or POL 30002	COMPARATIVE POLITICS (DIVG) (KSS) or WORLD POLITICS (DIVG) (KSS) or POLITICAL THOUGHT	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	WMST 30091	KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD)	3
	Economics Elective		3
		Credit Hours	**15**
	Semester Six		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 32275	CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES	3
	ETEC 39525	EDUCATIONAL TECHNOLOGY	3
	POL 30100 or POL 30820 or POL 40183	AMERICAN POLITICAL THEORY or INTERNATIONAL ORGANIZATION AND LAW or CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	3
	Economics Electives		6
	History Elective		3
		Credit Hours	**18**
	Semester Seven		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 42275	TEACHING SOCIAL STUDIES IN GRADES 7 - 12	3
!	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	Economics Elective		3
	Psychology Elective		3
		Credit Hours	**15**
	Semester Eight		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**124**

Geography Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
	HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
	POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA by end of the term		
!	ADED 22275	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Sociology Elective		3
		Credit Hours	**15**
	Semester Four		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	GEOG 21062	PHYSICAL GEOGRAPHY (KBS)	3
	HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	3
		Credit Hours	**15**
	Semester Five		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	GEOG 39070	MAPPING, SPACE AND POWER	3
	POL 10004 or POL 10500 or POL 30002	COMPARATIVE POLITICS (DIVG) (KSS) or WORLD POLITICS (DIVG) (KSS) or POLITICAL THOUGHT	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	WMST 30091	KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD)	3
		Credit Hours	**15**
	Semester Six		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 32275	CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES	3
	ETEC 39525	EDUCATIONAL TECHNOLOGY	3
	GEOG 17063 or GEOG 17064	WORLD GEOGRAPHY (DIVG) (KSS) or GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	3
	POL 30100 or POL 30820 or POL 40183	AMERICAN POLITICAL THEORY or INTERNATIONAL ORGANIZATION AND LAW or CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	3
	International Geography Elective		3
	History Elective		3
		Credit Hours	**18**
	Semester Seven		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 42275	TEACHING SOCIAL STUDIES IN GRADES 7 - 12	3
!	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	Geography Upper-Division Elective		3
	Psychology Elective		3
	General Elective		3
		Credit Hours	**18**
	Semester Eight		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**124**

History Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
	HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
	POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA by end of the term		
!	ADED 22275	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Sociology Elective		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Four		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	3
	POL 10004 or POL 10500 or POL 30002	COMPARATIVE POLITICS (DIVG) (KSS) or WORLD POLITICS (DIVG) (KSS) or POLITICAL THOUGHT	3
		Credit Hours	**15**
	Semester Five		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	POL 30100 or POL 30820 or POL 40183	AMERICAN POLITICAL THEORY or INTERNATIONAL ORGANIZATION AND LAW or CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	WMST 30091	KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD)	3
	20th Century U.S. History Elective		3
		Credit Hours	**15**
	Semester Six		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 32275	CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES	3
	ETEC 39525	EDUCATIONAL TECHNOLOGY	3
	Geography Elective		3
	Europe Since 1500 Elective		3
	U.S. History Elective		3
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 42275	TEACHING SOCIAL STUDIES IN GRADES 7 - 12	3
!	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	Non-Western History Elective		3
	Psychology Elective		3
		Credit Hours	**15**
	Semester Eight		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**121**

Political Science Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
	HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
	POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA by end of the term		
!	ADED 22275	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Sociology Elective		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Four		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	3
	POL 10500	WORLD POLITICS (DIVG) (KSS)	3
		Credit Hours	**15**
	Semester Five		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	POL 30002	POLITICAL THOUGHT	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	WMST 30091	KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD)	3
	Geography Elective		3
		Credit Hours	**15**
	Semester Six		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 32275	CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES	3
	ETEC 39525	EDUCATIONAL TECHNOLOGY	3
	POL 30100 or POL 30500	AMERICAN POLITICAL THEORY or INTERNATIONAL RELATIONS THEORY	3
	POL 30430 or POL 30450	OHIO POLITICS or URBAN POLITICS AND POLICY	3
	American Government Elective		3
	History Elective		3
		Credit Hours	**18**
	Semester Seven		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 42275	TEACHING SOCIAL STUDIES IN GRADES 7 - 12	3
!	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	International Relation/Comparative Politics Elective		3
	Psychology Elective		3
		Credit Hours	**15**
	Semester Eight		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**124**

Sociology Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
	HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
	POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA by end of the term		
!	ADED 22275	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	3
!	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Four		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	POL 10004 or POL 10500 or POL 30002	COMPARATIVE POLITICS (DIVG) (KSS) or WORLD POLITICS (DIVG) (KSS) or POLITICAL THOUGHT	3
	SOC 22778 or SOC 32400 or SOC 32569	SOCIAL PROBLEMS (DIVG) (KSS) or INDIVIDUAL AND SOCIETY or MINORITIES IN THE UNITED STATES (DIVD)	3
		Credit Hours	**15**
	Semester Five		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	WMST 30091	KEY CONVERSATIONS THROUGH WOMEN'S STUDIES (DIVD)	3
	Geography Elective		3
		Credit Hours	**15**
	Semester Six		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 32275	CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES	3
	ETEC 39525	EDUCATIONAL TECHNOLOGY	3
	POL 30100 or POL 30820 or POL 40183	AMERICAN POLITICAL THEORY or INTERNATIONAL ORGANIZATION AND LAW or CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	3
	History Elective		3
	Sociology Electives		6
		Credit Hours	**18**
	Semester Seven		
	Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
!	ADED 42275	TEACHING SOCIAL STUDIES IN GRADES 7 - 12	3
!	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	Psychology Elective		3
	Sociology Elective		3
		Credit Hours	**15**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA		
!	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**124**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours

Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Plan and teach lessons rooted in inquiry-based questions as outlined by the College, Career and Civic (C3) Framework as endorsed by the National Council for the Social Studies.
2. Plan for and teach in ways that promote active student engagement, value multiple perspectives and encourage listening across difference.
3. Develop equitable classrooms steeped in social justice that promote freedom and democracy for all learners.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity
- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:
  - MATH 14001 (or equivalent)
  - MATH 14002
- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following courses (i.e., both courses must be completed with a minimum C grade for graduation):

  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration (minimum C grade) to be eligible for advanced study. Students should meet with their advisor.
- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science, Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.
- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas: pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science in Education degree in Integrated Social Studies prepares prospective teachers to be purposeful, deliberative and reflective practitioners, who teach students to contribute to the deepening of democracy, and promote the common good. The program is designed to develop pre-service teachers who learn from practice; engage in collaborative inquiry and partnerships to promote student learning and continued professional growth, create equitable classrooms, plan/organize meaningful lessons and assessments; and view themselves as curriculum developers who recognize that social studies content and curriculum are more than information in textbooks and standardized curriculum guides.

The Integrated Social Studies major comprises the following concentrations which prepares students to build on and integrate their content knowledge as part of developing participatory, democratic citizens:

- Economics
- Geography
- History
- Political Science
- Sociology

Graduates are prepared to teach social studies in grades 7-12 and are recommended for Ohio licensure upon completion of all state requirements.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Integrated Social Studies Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Integrated Social Studies Additional Licensure Preparation program is designed for individuals who already have a teaching license, this program will provide you with the skills and knowledge necessary to teach social studies to students in grades 7-12. You'll learn about a variety of social studies topics, from American history to world geography and gain valuable classroom experience through field placements. Read more...

Contact Information

- **Kristine Pytash** | kpytash@kent.edu | 330-672-2580
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

National Council for Accreditation of Teacher Education (NCATE)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 overall undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid Resident Educator or Professional State of Ohio teaching license

Applicants will be assessed holistically, considering academic credentials, academic or professional references, non-academic dimensions and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements		
ADED 63392	ADOLESCENT/YOUNG ADULT INTEGRATED SOCIAL STUDIES ADDITIONAL LICENSURE INTERNSHIP	1
ADED 67232	SECONDARY SCHOOL SOCIAL STUDIES	3
CI 57330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
Minimum Total Credit Hours:		**7**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600*	3.000

* Minimum 2.600 content area GPA is required for the Adolescence to Young Adult 7-12 licensure.

- **Additional Coursework:** An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Integrated Social Studies non-degree program.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the OAE Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Students who do not apply for license within 12 months of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this program will be able to:

1. Plan and implement research-based instruction in the teaching of reading, literature, language and composition.
2. Implement response-centered literacy instruction that is culturally relevant and sustaining.
3. Implement fair and equitable assessment strategies to analyze students' literacy learning.
4. Engage in reflective practice and pursue continued professional growth and collaboration with colleagues.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Integrated Social Studies Additional Licensure Preparation non-degree program prepares students to obtain an additional teacher license in social studies for grades 7-12. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, which is granted by the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for additional licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Life Science - B.S.E.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The bachelor's degree program in Life Science provides you with the skills and knowledge needed to teach biology, environmental science and other life sciences. With hands-on training, experienced faculty, and real-world experiences, you'll gain the skills needed to inspire the next generation of scientists. Read more...

Contact Information

- **Kristine E. Pytash, Ph.D.** | kpytash@kent.edu | 330-672-0641
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Agricultural sciences teachers, postsecondary

- 2.1% slower than the average
- 11,400 number of jobs
- $90,340 potential earnings

Atmospheric, earth, marine, and space sciences teachers, postsecondary

- 1.9% slower than the average
- 13,100 number of jobs
- $94,520 potential earnings

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Chemistry teachers, postsecondary

- 4.3% about as fast as the average
- 26,400 number of jobs
- $80,400 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Environmental science teachers, postsecondary

- 3.7% about as fast as the average
- 7,600 number of jobs
- $84,740 potential earnings

Forestry and conservation science teachers, postsecondary

- 2.2% slower than the average
- 2,100 number of jobs
- $87,400 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Physics teachers, postsecondary

- 4.4% about as fast as the average
- 17,100 number of jobs
- $90,400 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

Council for the Accreditation of Educator Preparation

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. Please insert the standard university approved admission language for undergraduate degrees.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA; min C grade required in all courses)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40163	EVOLUTION	3
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
ESCI 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Additional Requirements (courses do not count in major GPA)		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING (min C grade) [1]	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) [1]	3
ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS (min C grade) [1]	3
ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING (min C grade)	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) [1]	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR) [1]	9
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
UC 10001	FLASHES 101	1
Kent Core Composition (min C grade)		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Minimum Total Credit Hours:		**121**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible

Faculty will select the most qualified applicants based on an interview, letters of recommendation, GPA[1], and performance in English coursework.

Applicants must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health, and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with admission to advanced study.

[1] Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

Double Majors/Dual Degrees

Students in the this major seeking to declare an additional teacher education major in the B.S.E. degree (double major) or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major
3. All required methods courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
   a. ADED 42292 (or the equivalent required by the major outside the college)
   b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take ADED 42392, consisting of a 16-week classroom experience

involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/ Chemistry, Integrated Social Studies and/or Integrated Language Arts.

6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	MATH 11022	TRIGONOMETRY (KMCR)	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	Requirement: minimum 2.600 major GPA; Note: minimum 2.750 overall GPA by end of term		
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
	ESCI 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	BSCI 30156	ELEMENTS OF GENETICS	3
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
		Credit Hours	**14**
	Semester Five		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
		Credit Hours	**15**
	Semester Six		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS	3
	BSCI 40163	EVOLUTION	3
	CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
	PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
!	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	BSCI 30140	CELL BIOLOGY	4
	BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
		Credit Hours	**14**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**121**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3

Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Plan multiple lessons using a variety of inquiry approaches that demonstrate their knowledge and understanding of how to engage all students in learning science.
2. Plan a learning environment and learning experiences for all students that demonstrate chemical safety, safety procedures, and the ethical treatment of living organisms within their licensure area.
3. Plan fair and equitable assessment strategies to analyze student learning and to evaluate if the science learning goals are met.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity
- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:
  - MATH 14001 (or equivalent)
  - MATH 14002
- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following courses (i.e., both courses must be completed with a minimum C grade for graduation):
  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration (minimum C grade) to be eligible for advanced study. Students should meet with their advisor.
- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science, Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.
- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas: pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science in Education degree in Life Science prepares students for teacher licensure in life science, grades 7-12. Students take a broad range of science-content courses in geology, chemistry and physics, and specialize in biology content. Students in the Life Science major complete most of their content coursework during their first three years; methods coursework typically begins during the spring of their third year. During the final year of the program, students complete remaining content courses, science teaching methods courses and a year-long placement in a local school district, which concludes with 13 weeks of student teaching in the spring. Life Science students are encouraged to meet with their advisor early in their program because many courses must be sequenced carefully.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Life Science/Chemistry - B.S.E.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Life Science/Chemistry B.S.E. program provides you with a strong foundation in chemistry, biochemistry and the life sciences. With hands-on training, experienced faculty, and real-world experiences, you'll gain the skills needed to pursue a career in a variety of industries, including biotechnology, pharmaceuticals and environmental science. Read more...

Contact Information

- **Kristine E. Pytash, Ph.D.** | kpytash@kent.edu | 330-672-0641
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Chemistry teachers, postsecondary

- 4.3% about as fast as the average
- 26,400 number of jobs
- $80,400 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

Council for the Accreditation of Educator Preparation

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. Please insert the standard university approved admission language for undergraduate degrees.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA; min C grade required in all courses)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40163	EVOLUTION	3
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30105	ANALYTICAL CHEMISTRY I	3

CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
ESCI 11040	HOW THE EARTH WORKS (KBS)	3
ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Additional Requirements (courses do not count in major GPA)		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING (min C grade) [1]	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) [1]	3
ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS (min C grade) [1]	3
ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING (min C grade)	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) [1]	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR) [1]	9
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10001	FLASHES 101	1
Kent Core Composition (min C grade)		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Minimum Total Credit Hours:		**125**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible.

Faculty will select the most qualified applicants based on an interview, letters of recommendation, GPA[1], and performance in English coursework.

Applicants to the Life Science/Chemistry major must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with advanced study.

[1] Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

Double Majors/Dual Degrees

Students in the this major seeking to declare an additional teacher education major in the B.S.E. degree (double major), or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major
3. All required methods courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
   a. ADED 42292 (or the equivalent required by the major outside the college)
   b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take ADED 42392, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/ Chemistry, Integrated Social Studies and/or Integrated Language Arts.
6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved

program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	MATH 11022	TRIGONOMETRY (KMCR)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
	BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	ESCI 11040	HOW THE EARTH WORKS (KBS)	3
	ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
		Credit Hours	**16**
	Semester Four		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	BSCI 30156	ELEMENTS OF GENETICS	3
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
		Credit Hours	**16**
	Semester Five		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
	PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
		Credit Hours	**16**
	Semester Six		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS	3
	BSCI 40163	EVOLUTION	3
	CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
!	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	BSCI 30140	CELL BIOLOGY	4
	CHEM 30105	ANALYTICAL CHEMISTRY I	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**125**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Plan multiple lessons using a variety of inquiry approaches that demonstrate their knowledge and understanding of how to engage all students in learning science.
2. Plan a learning environment and learning experiences for all students that demonstrate chemical safety, safety procedures, and the ethical treatment of living organisms within their licensure area.
3. Plan fair and equitable assessment strategies to analyze student learning and to evaluate if the science learning goals are met.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity
- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education

program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:
  - MATH 14001 (or equivalent)
  - MATH 14002
- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following courses (i.e., both courses must be completed with a minimum C grade for graduation):
  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration

(minimum C grade) to be eligible for advanced study. Students should meet with their advisor.

- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science, Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.
- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas: pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science in Education degree in Life Science/Chemistry prepares students for teacher licensure in life science and chemistry, grades 7-12. Students take a broad range of science-content courses in geology and physics and specialize in biology and chemistry content. Students complete most content coursework during their first three years; methods coursework typically begins during the spring of their third year. During the final year of the program, students complete remaining content courses, science teaching methods courses and a year-long placement in a local school district, which concludes with 13 weeks of student teaching in the spring. Life Science/Chemistry students

are encouraged to meet with their advisor early in their programs as many courses must be sequenced carefully.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Middle Childhood Education (4-9) Language Arts/Reading and Mathematics Initial Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Middle Childhood Education (4-9) Language Arts/Reading and Mathematics Initial Licensure Preparation program is designed for aspiring educators who want to teach language arts, reading and math to students in grades 4-9. You'll gain the knowledge and skills needed to create engaging lesson plans, evaluate student progress and establish a positive classroom culture. Read more...

Contact Information

- **Danielle Gruhler** | dgruhler@kent.edu | 330-672-6517
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 overall GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Interview (to be conducted prior to full acceptance into the program)

Applicants already licensed as a teacher in Ohio, at any level, **cannot** apply to this program.

Applicants are assessed holistically, considering academic credentials, academic or professional references, nonacademic dimensions and dimensions; and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Priority deadline: June 15
- **Spring Semester**
  - Priority deadline: October 1
- **Summer Term**
  - Priority deadline: February 15

Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (min C/S grades required in all courses)		
CI 57501	TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES	3
or CI 67226	IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD	

CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	3
or CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
or CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
or MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
or MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
or HDF 54020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
or HDF 64027	EARLY ADOLESCENCE	
EPSY 65524	LEARNING THEORIES	3
MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50006	READING AND WRITING IN MIDDLE CHILDHOOD	6
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
MCED 52392	STUDENT TEACHING IN MIDDLE CHILDHOOD [1]	9
MCED 59525	INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD	3
Minimum Total Credit Hours:		**48**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. A qualifying score on the Ohio Assessments for Educators for the Assessment of Professional Knowledge (APK) and content tests is required for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirement, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with the standards of the Association for Middle Level Education (AMLE).
6. Demonstrate knowledge and skills identified in the initial standards of the Council for the Accreditation of Educator Preparation (CAEP).

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

This Middle Childhood Education (4-9) Language Arts/Reading and Mathematics Initial Licensure Preparation non-degree program prepares students to obtain the Ohio Middle Childhood 4-9 teacher license in language arts/reading and mathematics. Completion of the prescribed coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

The program includes intensive pedagogy courses that prepare students to understand the unique social, physical, cognitive and emotional needs of the young adolescent; these courses are taken as a cohort. Student teaching occurs during the final semester of the program.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Middle Childhood Education (4-9) Language Arts/Reading and Science Initial Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Middle Childhood Education 4-9 Language Arts/Reading and Science Initial Licensure Preparation program provides students with a solid foundation in education theory and practical teaching experience, preparing them to become knowledgeable and effective educators. With a focus on language arts, reading and science, students will gain valuable skills and insights into how to help children learn and succeed. Read more...

Contact Information

- **Danielle Gruhler** | dgruhler@kent.edu | 330-672-6517
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited institution
- Official transcript(s)
- Minimum 2.750 overall GPA on a 4.000-point scale
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Interview (to be conducted prior to full acceptance into the program)

Applicants already licensed as a teacher in Ohio, at any level, **cannot** apply to this program.

Applicants are assessed holistically, considering academic credentials, academic or professional references, nonacademic dimensions and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Priority deadline: June 15
- **Spring Semester**
  - Priority deadline: October 1
- **Summer Term**
  - Priority deadline: February 15

Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Licensure Requirements (min C/S grade in all courses)		
CI 57502	SCIENCE TEACHING IN EARLY AND MIDDLE GRADES	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCED 50002	TEACHING SCIENCE IN MIDDLE CHILDHOOD II	
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	3
or CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
or CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
or MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
or MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
or HDF 54020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
or HDF 64027	EARLY ADOLESCENCE	
EPSY 65524	LEARNING THEORIES	3

MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50006	READING AND WRITING IN MIDDLE CHILDHOOD	6
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
MCED 52392	STUDENT TEACHING IN MIDDLE CHILDHOOD [1]	9
MCED 59525	INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD	3
Minimum Total Credit Hours:		**48**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. A qualifying score on the Ohio Assessments for Educators for the Assessment of Professional Knowledge and content tests is required for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirement, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with the standards of the Association for Middle Level Education (AMLE).
6. Demonstrate knowledge and skills identified in the initial standards of the Council for the Accreditation of Educator Preparation (CAEP).

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

This Middle Childhood Education (4-9) Language Arts/Reading and Science Initial Licensure Preparation non-degree program prepares students to obtain the Ohio Middle Childhood 4-9 teacher license in language arts/reading and science. Completion of the prescribed coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

The program includes intensive pedagogy courses that prepare students to understand the unique social, physical, cognitive and emotional needs of the young adolescent; these courses are taken as a cohort. Student teaching occurs during the final semester of the program.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Middle Childhood Education (4-9) Mathematics and Science Initial Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

In the Middle Childhood Education 4-9 Mathematics and Science Initial Licensure Preparation program you will gain the skills and knowledge necessary to become an effective teacher in the critical areas of math and science education. Read more...

Contact Information

- **Danielle Gruhler** | dgruhler@kent.edu | 330-672-6517
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Official transcript(s)
- Minimum 2.750 overall GPA on a 4.000-point scale
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Interview (to be conducted prior to full acceptance into the program)

Applicants already licensed as a teacher in Ohio, at any level, **cannot** apply to this program.

Applicants are assessed holistically, considering academic credentials, academic or professional references, nonacademic dimensions and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Priority deadline: June 15
- **Spring Semester**
  - Priority deadline: October 1
- **Summer Term**
  - Priority deadline: February 15

Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (min C/S grade required in all courses)		
CI 57501	TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES	3
or CI 67226	IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD	
CI 57502	SCIENCE TEACHING IN EARLY AND MIDDLE GRADES	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCED 50002	TEACHING SCIENCE IN MIDDLE CHILDHOOD II	
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	3
or CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
or CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
or MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
or MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
or HDF 54020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
or HDF 64027	EARLY ADOLESCENCE	
EPSY 65524	LEARNING THEORIES	3
MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50006	READING AND WRITING IN MIDDLE CHILDHOOD	6
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
MCED 52392	STUDENT TEACHING IN MIDDLE CHILDHOOD [1]	9
MCED 59525	INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD	3
Minimum Total Credit Hours:		**51**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. A qualifying score on the Ohio Assessments for Educators for the Assessment of Professional Knowledge and content tests is required for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirement, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with the standards of the Association for Middle Level Education (AMLE).
6. Demonstrate knowledge and skills identified in the initial standards of the Council for the Accreditation of Educator Preparation (CAEP).

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

This Middle Childhood Education (4-9) Mathematics and Science Initial Licensure Preparation non-degree program prepares students to obtain the Ohio Middle Childhood 4-9 teacher license in mathematics and science. Completion of the prescribed coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

The program includes intensive pedagogy courses that prepare students to understand the unique social, physical, cognitive and emotional needs of the young adolescent; these courses are taken as a cohort. Student teaching occurs during the final semester of the program.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Middle Childhood Education (4-9) Mathematics and Social Studies Initial Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Middle Childhood Education (4-9) Mathematics and Social Studies Initial Licensure Preparation program is designed to prepare you for initial teacher licensure and equip you with the knowledge and skills needed to teach in diverse classroom settings. Read more...

Contact Information

- **Danielle Gruhler** | dgruhler@kent.edu | 330-672-6517
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Official transcript(s)
- Minimum 2.750 overall GPA on a 4.000-point scale
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Interview (to be conducted prior to full acceptance into the program)

Applicants already licensed as a teacher in Ohio, at any level, **cannot** apply to this program.

Applicants will be assessed holistically, considering academic credentials, academic or professional references, nonacademic dimensions and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Priority deadline: June 15
- **Spring Semester**
  - Priority deadline: October 1
- **Summer Term**
  - Priority deadline: February 15

Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (min C/S grade required in all courses)		
CI 57501	TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES	3
or CI 67226	IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD	
CI 57503	TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCED 50003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	3
or CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
or CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
or MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
or MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
or HDF 54020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
or HDF 64027	EARLY ADOLESCENCE	
EPSY 65524	LEARNING THEORIES	3
MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50006	READING AND WRITING IN MIDDLE CHILDHOOD	6
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
MCED 52392	STUDENT TEACHING IN MIDDLE CHILDHOOD [1]	9
MCED 59525	INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD	3
Minimum Total Credit Hours:		**51**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. A qualifying score on the Ohio Assessments for Educators for the Assessment of Professional Knowledge and content tests is required for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirement, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with the standards of the Association for Middle Level Education (AMLE).
6. Demonstrate knowledge and skills identified in the initial standards of the Council for the Accreditation of Educator Preparation (CAEP).

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

This Middle Childhood Education (4-9) Mathematics and Social Studies Initial Licensure Preparation non-degree program prepares students to obtain the Ohio Middle Childhood 4-9 teacher license in mathematics and social studies. Completion of the prescribed coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

The program includes intensive pedagogy courses that prepare students to understand the unique social, physical, cognitive and emotional needs of the young adolescent; these courses are taken as a cohort. Student teaching occurs during the final semester of the program.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Middle Childhood Education (4-9) Social Studies and Language Arts/ Reading Initial Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Middle Childhood Education (4-9) Social Studies and Language Arts/ Reading Initial Licensure Preparation program prepares you to become an effective teacher and leader in the classroom, providing you with the skills and knowledge necessary to teach a diverse range of students. With a focus on interdisciplinary teaching and learning, you'll be equipped to inspire the next generation of critical thinkers, problem solvers and engaged citizens. Read more...

Contact Information

- **Danielle Gruhler** | dgruhler@kent.edu | 330-672-6517
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/ technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/ technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Official transcript(s)
- Minimum 2.750 overall GPA on a 4.000-point scale
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- An interview will be conducted prior to full acceptance into the program.

Applicants already licensed as a teacher in Ohio, at any level, **cannot** apply to this program.

Applicants will be assessed holistically, considering academic credentials, academic or professional references, nonacademic dimensions and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Priority deadline: June 15
- **Spring Semester**
  - Priority deadline: October 1
- **Summer Term**
  - Priority deadline: February 15

Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (min C/S grade is required in all courses)		
CI 57503	TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES (min C grade required for either course)	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCED 50003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES (min C grade required for either course)	3
or CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
or CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES (min C grade required for either course)	3
or MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES (min C grade required for either course)	3
or MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
or HDF 54020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
or HDF 64027	EARLY ADOLESCENCE	
EPSY 65524	LEARNING THEORIES (min C grade)	3
MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I (min C grade)	3
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD (min C grade)	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING (min C grade)	3
MCED 50006	READING AND WRITING IN MIDDLE CHILDHOOD (min C grade)	6
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD (min C grade)	3
MCED 52392	STUDENT TEACHING IN MIDDLE CHILDHOOD (min C grade) [1]	9
MCED 59525	INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD (min C grade)	3
Minimum Total Credit Hours:		**48**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education. A qualifying score on the Ohio Assessments for Educators for the Assessment of Professional Knowledge and content tests is required for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator

Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirement, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with the standards of the Association for Middle Level Education (AMLE).
6. Demonstrate knowledge and skills identified in the initial standards of the Council for the Accreditation of Educator Preparation (CAEP).

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Middle Childhood Education (4-9) Social Studies and Language Arts/Reading Initial Licensure Preparation non-degree program prepares students to obtain the Ohio Middle Childhood 4-9 teacher license in social studies and language arts/reading. Completion of the prescribed coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

The program includes intensive pedagogy courses that prepare students to understand the unique social, physical, cognitive and emotional needs of the young adolescent; these courses are taken as a cohort. Student teaching occurs during the final semester of the program.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Middle Childhood Education (4-9) Social Studies and Science Initial Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Middle Childhood Education program that prepares future educators to teach social studies and science for grades 4-9. This program provides students with the knowledge and skills necessary to create engaging, inclusive and effective classroom environments for diverse student populations. Read more...

Contact Information

- **Danielle Gruhler** | dgruhler@kent.edu | 330-672-6517
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/ technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/ technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Official transcript(s)
- Minimum 2.750 overall GPA on a 4.000-scale
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Interview (to be conducted prior to full acceptance into the program)

Applicants already licensed as a teacher in Ohio, at any level, **cannot** apply to this program.

Applicants are assessed holistically, considering academic credentials, academic or professional references, nonacademic dimensions and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Priority deadline: June 15
- **Spring Semester**
  - Priority deadline: October 1
- **Summer Term**
  - Priority deadline: February 15

Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements minimum C/S grade required in all courses)		
CI 57502	SCIENCE TEACHING IN EARLY AND MIDDLE GRADES	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCED 50002	TEACHING SCIENCE IN MIDDLE CHILDHOOD II	
CI 57503	TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCED 50003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	3
or CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
or CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
or MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
or MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
or HDF 54020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
or HDF 64027	EARLY ADOLESCENCE	
EPSY 65524	LEARNING THEORIES	3
MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50006	READING AND WRITING IN MIDDLE CHILDHOOD	6
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
MCED 52392	STUDENT TEACHING IN MIDDLE CHILDHOOD [1]	9
MCED 59525	INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD	3
Minimum Total Credit Hours:		**51**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). A qualifying score on the Ohio Assessments for Educators (OAE) for the Assessment of Professional Knowledge (APK) and content tests is required for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirement, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with the standards of the Association for Middle Level Education (AMLE).
6. Demonstrate knowledge and skills identified in the initial standards of the Council for the Accreditation of Educator Preparation (CAEP).

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Middle Childhood Education (4-9) Social Studies and Science Initial Licensure Preparation non-degree program prepares students to obtain the Ohio Middle Childhood 4-9 teacher license in social studies and science. Completion of the prescribed coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

The program includes intensive pedagogy courses that prepare students to understand the unique social, physical, cognitive and emotional needs of the young adolescent; these courses are taken as a cohort. Student teaching occurs during the final semester of the program.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete requirements for the master's program, in addition to courses that are prescribed here for licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Middle Childhood Education - B.S.E.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Bachelor of Science in Education in Middle Childhood Education equips students with the skills and knowledge needed to succeed as a middle school teacher. With a focus on hands-on learning, experienced faculty, and real-world experience, this program prepares graduates to make a meaningful impact on young students. Read more...

Contact Information

- Kent: **Danielle Gruhler** | dgruhler@kent.edu | 330-672-6517
- Geauga: **Robin Dever** | rdever2@kent.edu | 440-834-3720
- Stark: **Shelly Heron** | mheron@kent.edu | 330-244-3403
- Speak with an Advisor
  - Geauga Campus
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Geauga Campus *Applications to the B.S.E. in Middle Childhood Education are not being accepted starting spring 2024 on the Geauga Campus.*
  - Kent Campus
  - Stark Campus

Examples of Possible Careers and Salaries*

Middle school teachers, except special and career/ technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/ technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

Council for the Accreditation of Educator Preparation | Association of Middle Level Education

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Applications to the B.S.E. in Middle Childhood Education are not being accepted starting spring 2024 on the Geauga Campus.

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. Students can be admitted directly into the major, including first-time students or transfer students.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
ENG 22071	STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM) [1]	3
or ENG 22072	STORIES TO SAVE THE WORLD: LITERATURE AND THE FUTURE OF HUMANITY (KHUM)	
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR) (min C grade)	4
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR) (min C grade)	4
MCED 20000	LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION (min C grade) [2]	3
MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I (min C grade)	3
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD (min C grade)	3
MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD (min C grade) [2]	3
MCED 40005	EFFECTIVE USE OF PHONICS IN READING (min C grade)	3
MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC) (min C grade)	6
MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD (min C grade)	3
MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD (min C grade) [2]	3
MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR) [2]	9
MCED 49525	INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
Additional Requirements (courses do not count in major GPA)		
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS) [3]	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS) [3]	3
UC 10001	FLASHES 101	1
Kent Core Composition (min C grade)		6
Kent Core Fine Arts		3
Concentrations		
Choose from the following:		45-55
Language Arts and Mathematics		
Language Arts and Science		
Mathematics and Science		
Mathematics and Social Studies		
Social Studies and Language Arts		
Social Studies and Science		
Minimum Total Credit Hours:		**120-130**

1 A minimum C grade is required in either ENG 22071 or ENG 22072 for students in the Language Arts concentration.

2 Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

3 A minimum C grade is required for students in the Social Studies concentration.

Language Arts and Mathematics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all courses)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
or ENG 31003	LINGUISTICS	
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
MCED 40001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II	3
Literature Electives, choose from the following:		3
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	

ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 32002	LITERATURE FOR YOUNG ADULTS	
ENG 33012	MODERN AFRICAN-AMERICAN LITERATURE	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)	
Writing Electives, choose from the following:		3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
ENG 20021	INTRODUCTION TO CREATIVE WRITING	
ENG 30050	WRITING AND RHETORIC IN A DIGITAL AGE	
ENG 30051	WRITING, RHETORIC AND NEW MEDIA	
ENG 30064	ARGUMENTATIVE PROSE WRITING	
ENG 30071	CREATIVE NONFICTION	
Additional Requirements (courses do not count in major GPA)		
AFS 23001	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	3
or HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	
or HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	
BSCI 10001	HUMAN BIOLOGY (KBS)	3
Kent Core Basic Sciences (must include one laboratory)		3-4
Minimum Total Credit Hours:		**48**

Language Arts and Science Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all courses)		
ANTH 18630	HUMAN EVOLUTION (KBS)	3
or BSCI 10002	LIFE ON PLANET EARTH (KBS)	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
or ENG 31003	LINGUISTICS	
MCED 40002	TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II	3
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3
Literature Electives, choose from the following:		3
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	
ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 32002	LITERATURE FOR YOUNG ADULTS	
ENG 33012	MODERN AFRICAN-AMERICAN LITERATURE	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)	
Writing Elective, choose from the following:		3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
ENG 20021	INTRODUCTION TO CREATIVE WRITING	
ENG 30050	WRITING AND RHETORIC IN A DIGITAL AGE	
ENG 30051	WRITING, RHETORIC AND NEW MEDIA	
ENG 30064	ARGUMENTATIVE PROSE WRITING	
ENG 30071	CREATIVE NONFICTION	
Physical Science Electives, choose from the following: [1]		5
CHEM 10060 & CHEM 10062	GENERAL CHEMISTRY I (KBS) and GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
Earth Science Electives, choose from the following:		4
ESCI 11040 & ESCI 11041	HOW THE EARTH WORKS (KBS) and HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	
ESCI 11042 & ESCI 11043	EARTH AND LIFE THROUGH TIME (KBS) and EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	
Science Elective, choose from the following:		3-4
BSCI 20021	BASIC MICROBIOLOGY	
BSCI 30275	LOCAL FLORA (ELR)	
BSCI 30560	INVERTEBRATE ZOOLOGY	
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
ESCI 21080	ALL ABOUT THE OCEANS (KBS)	
ESCI 41073	GEOLOGY OF OHIO	
PHY 21040	PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS)	
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	
Additional Requirements (courses do not count in major GPA)		
AFS 23001	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	3
or HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	
or HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB) (min C grade for either course)	4
or BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS) (min C grade)	3
Minimum Total Credit Hours:		**46**

[1] Additional mathematics course(s) may be required depending on mathematics placement. Please see your advisor.

Mathematics and Science Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all courses)		
ANTH 18630	HUMAN EVOLUTION (KBS)	3
or BSCI 10002	LIFE ON PLANET EARTH (KBS)	
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
MCED 40001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II	3

MCED 40002	TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II	3
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3
Physical Science Electives, choose from the following:		5
CHEM 10060 & CHEM 10062	GENERAL CHEMISTRY I (KBS) and GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
Earth Science Electives, choose from the following:		4
ESCI 11040 & ESCI 11041	HOW THE EARTH WORKS (KBS) and HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	
ESCI 11042 & ESCI 11043	EARTH AND LIFE THROUGH TIME (KBS) and EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	
Science Elective, choose from the following:		3-4
BSCI 20021	BASIC MICROBIOLOGY	
BSCI 30275	LOCAL FLORA (ELR)	
BSCI 30560	INVERTEBRATE ZOOLOGY	
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
ESCI 21080	ALL ABOUT THE OCEANS (KBS)	
ESCI 41073	GEOLOGY OF OHIO	
PHY 21040	PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS)	
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	
Additional Requirements (courses do not count in major GPA)		
AFS 23001	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	3
or HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	
or HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB) (min C grade for either course)	4
or BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS) (min C grade)	3
Minimum Total Credit Hours:		**55**

Mathematics and Social Studies Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all courses)		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
HIST 31061	HISTORY OF OHIO	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
MCED 40001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II	3
MCED 40003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
Additional Requirements (courses do not count in major GPA)		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
Kent Core Basic Sciences (must include one laboratory)		3-4
Minimum Total Credit Hours:		**51**

Social Studies and Language Arts Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all courses)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or MDJ 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
or ENG 31003	LINGUISTICS	
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
HIST 31061	HISTORY OF OHIO	3
MCED 40003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
Literature Elective, choose from the following:		3
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	
ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 32002	LITERATURE FOR YOUNG ADULTS	
ENG 33012	MODERN AFRICAN-AMERICAN LITERATURE	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)	
Writing Elective, choose from the following:		3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
ENG 20021	INTRODUCTION TO CREATIVE WRITING	
ENG 30050	WRITING AND RHETORIC IN A DIGITAL AGE	
ENG 30051	WRITING, RHETORIC AND NEW MEDIA	
ENG 30064	ARGUMENTATIVE PROSE WRITING	
ENG 30071	CREATIVE NONFICTION	
Additional Requirements (courses do not count in major GPA)		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
Kent Core Basic Sciences (must include one laboratory)		3-4

General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	3
Minimum Total Credit Hours:	**45**

Social Studies and Science Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all courses)		
ANTH 18630	HUMAN EVOLUTION (KBS)	3
or BSCI 10002	LIFE ON PLANET EARTH (KBS)	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
HIST 31061	HISTORY OF OHIO	3
MCED 40002	TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II	3
MCED 40003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	3
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
Physical Science Electives, choose from the following: [1]		5
CHEM 10060 & CHEM 10062	GENERAL CHEMISTRY I (KBS) and GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
Earth Science Electives, choose from the following:		4
ESCI 11040 & ESCI 11041	HOW THE EARTH WORKS (KBS) and HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	
ESCI 11042 & ESCI 11043	EARTH AND LIFE THROUGH TIME (KBS) and EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	
Science Elective, choose from the following:		3-4
BSCI 20021	BASIC MICROBIOLOGY	
BSCI 30275	LOCAL FLORA (ELR)	
BSCI 30560	INVERTEBRATE ZOOLOGY	
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
ESCI 21080	ALL ABOUT THE OCEANS (KBS)	
ESCI 41073	GEOLOGY OF OHIO	
PHY 21040	PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS)	
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	
Additional Requirements (courses do not count in major GPA; min C grade required in all courses)		
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
or BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	3
Minimum Total Credit Hours:		**49**

[1] Additional mathematics course(s) may be required depending on mathematics placement. Please see your advisor.

Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of young adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible.

Faculty will select the most qualified applicants based on an interview, letters of recommendation, and GPA[1]. Applicants to the Middle Childhood Education major should have experience working with young adolescence in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health and Human Services' Vacca Office of Student Services, 304 White Hall, at the Kent campus, or the Geauga Student Services Office at 440-834-4187 at the Geauga campus, or the Office of Student Services, 132 Main Hall, 330-244-3251 at the Stark campus, during the first year of study to inquire about the procedures and criteria associated with advanced study

[1] Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	2.750

Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet state-approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12-month deadline may have to take additional coursework if the content, methods courses, program requirements or licensure requirements have changed from the catalog in force.

Roadmaps

Language Arts and Mathematics Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	AFS 23001 or HIST 11050 or HIST 12070	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM) or WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM) or EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
	GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
!	MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
	BSCI 10001	HUMAN BIOLOGY (KBS)	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
		Credit Hours	**16**
	Semester Three		
	Requirement: minimum 2.750 overall GPA by the end of term		
	ENG 31001 or ENG 31003	FUNDAMENTAL ENGLISH GRAMMAR or LINGUISTICS	3
	MATH 11022	TRIGONOMETRY (KMCR)	3
	MCED 20000	LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	Requirement: minimum 2.750 overall GPA		
	COMM 26000 or MDJ 20001	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM) or MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
	ENG 22071 or ENG 22072	STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM) or STORIES TO SAVE THE WORLD: LITERATURE AND THE FUTURE OF HUMANITY (KHUM)	3
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Five		
	Requirement: minimum 2.750 overall GPA		
	MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
!	MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
!	MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
!	MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	3
!	MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC)	6
		Credit Hours	**18**
	Semester Six		
	Requirement: minimum 2.750 overall GPA		
	MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
!	MCED 40001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II	3
!	MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
!	MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	3
	Writing Elective		3
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA		
	MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
	MCED 40005	EFFECTIVE USE OF PHONICS IN READING	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Literature Elective		3
		Credit Hours	**13**
	Semester Eight		
	Requirement: minimum C grade in all professional courses and minimum 2.750 overall GPA		
	MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR)	9
!	MCED 49525	INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**123**

Language Arts and Science Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
!	MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
	PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
	AFS 23001 or HIST 11050 or HIST 12070	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM) or WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM) or EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	ESCI 11040 or ESCI 11042	HOW THE EARTH WORKS (KBS) or EARTH AND LIFE THROUGH TIME (KBS)	3
	ESCI 11041 or ESCI 11043	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) or EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
!	MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
		Credit Hours	**14**
	Semester Three		
	Requirement: minimum 2.750 overall GPA by the end of term		
	BSCI 10120 or BSCI 10110	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB) or BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
	CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	MCED 20000	LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
	Requirement: minimum 2.750 overall GPA		
	CHEM 10060 or PHY 13001	GENERAL CHEMISTRY I (KBS) or GENERAL COLLEGE PHYSICS I (KBS)	4
	CHEM 10062 or PHY 13021	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) or GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	COMM 26000 or MDJ 20001	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM) or MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
	ENG 22071 or ENG 22072	STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM) or STORIES TO SAVE THE WORLD: LITERATURE AND THE FUTURE OF HUMANITY (KHUM)	3
	ENG 31001 or ENG 31003	FUNDAMENTAL ENGLISH GRAMMAR or LINGUISTICS	3
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
		Credit Hours	**17**
	Semester Five		
	Requirement: minimum 2.750 overall GPA		
!	MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
!	MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
!	MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	3
!	MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC)	6
		Credit Hours	**15**
	Semester Six		
	Requirement: minimum 2.750 overall GPA		
	ANTH 18630 or BSCI 10002	HUMAN EVOLUTION (KBS) or LIFE ON PLANET EARTH (KBS)	3
!	MCED 40002	TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II	3
!	MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
!	MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	3
	Writing Elective		3
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA		
	MCED 40005	EFFECTIVE USE OF PHONICS IN READING	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Literature Elective		3
	Science Elective		3-4
		Credit Hours	**15**
	Semester Eight		
	Requirement: minimum C grade in all professional courses and minimum 2.750 overall GPA		
	MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR)	9
!	MCED 49525	INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**121**

Mathematics and Science Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
!	MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
	PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
	ANTH 18630 or BSCI 10002	HUMAN EVOLUTION (KBS) or LIFE ON PLANET EARTH (KBS)	3
	CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
		Credit Hours	**16**
	Semester Three		
	Requirement: minimum 2.750 overall GPA by the end of term		
	BSCI 10120 or BSCI 10110	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB) or BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
	MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
	MATH 11022	TRIGONOMETRY (KMCR)	3
	MCED 20000	LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION	3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Four		
	Requirement: minimum 2.750 overall GPA		
	CHEM 10060 or PHY 13001	GENERAL CHEMISTRY I (KBS) or GENERAL COLLEGE PHYSICS I (KBS)	4
	CHEM 10062 or PHY 13021	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) or GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	ESCI 11040 or ESCI 11042	HOW THE EARTH WORKS (KBS) or EARTH AND LIFE THROUGH TIME (KBS)	3
	ESCI 11041 or ESCI 11043	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) or EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
		Credit Hours	**17**
	Semester Five		
	Requirement: minimum 2.750 overall GPA		
	MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
!	MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
!	MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
!	MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	3
!	MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC)	6
		Credit Hours	**18**
	Semester Six		
	Requirement: minimum 2.750 overall GPA		
!	MCED 40001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II	3
!	MCED 40002	TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II	3
!	MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
!	MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA		
	AFS 23001 or HIST 11050 or HIST 12070	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM) or WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM) or EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
	ENG 22071 or ENG 22072	STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM) or STORIES TO SAVE THE WORLD: LITERATURE AND THE FUTURE OF HUMANITY (KHUM)	3
	MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
	MCED 40005	EFFECTIVE USE OF PHONICS IN READING	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Science Elective		3-4
		Credit Hours	**18**
	Semester Eight		
	Requirement: minimum C grade in all professional courses and minimum 2.750 overall GPA		
	MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR)	9
!	MCED 49525	INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**130**

Mathematics and Social Studies Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
	HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
!	MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4

	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
	POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
		Credit Hours	**16**
	Semester Three		
	Requirement: minimum 2.750 overall GPA by the end of term		
	HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
	MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
	MATH 11022	TRIGONOMETRY (KMCR)	3
	MCED 20000	LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
	Requirement: minimum 2.750 overall GPA		
	BSCI 10001	HUMAN BIOLOGY (KBS)	3
	ENG 22071 or ENG 22072	STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM) or STORIES TO SAVE THE WORLD: LITERATURE AND THE FUTURE OF HUMANITY (KHUM)	3
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
		Credit Hours	**17**
	Semester Five		
	Requirement: minimum 2.750 overall GPA		
	MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
!	MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
!	MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
!	MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	3
!	MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC)	6
		Credit Hours	**18**
	Semester Six		
	Requirement: minimum 2.750 overall GPA. Note: apply for student teaching		
	MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
!	MCED 40001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II	3
!	MCED 40003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	3
!	MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
!	MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	3
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA		
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	HIST 31061	HISTORY OF OHIO	3
	MCED 40005	EFFECTIVE USE OF PHONICS IN READING	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement		3-4
		Credit Hours	**15**
	Semester Eight		
	Requirement: minimum C grade in all professional courses and minimum 2.750 overall GPA		
	MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR)	9
!	MCED 49525	INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**126**

Social Studies and Language Arts Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
	HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
!	MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
	BSCI 10001	HUMAN BIOLOGY (KBS)	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
!	MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
		Credit Hours	**16**
	Semester Three		
	Requirement: minimum 2.750 overall GPA by the end of term		
	HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
	MCED 20000	LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION	3
	POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3-4
		Credit Hours	**15**
	Semester Four		
	Requirement: minimum 2.750 overall GPA		
	COMM 26000 or MDJ 20001	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM) or MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
	ENG 22071 or ENG 22072	STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM) or STORIES TO SAVE THE WORLD: LITERATURE AND THE FUTURE OF HUMANITY (KHUM)	3
	ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
		Credit Hours	**15**
	Semester Five		
	Requirement: minimum 2.750 overall GPA		
!	MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
!	MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
!	MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	3
!	MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC)	6
		Credit Hours	**15**
	Semester Six		
	Requirement: minimum 2.750 overall GPA		
!	MCED 40003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	3
!	MCED 40005	EFFECTIVE USE OF PHONICS IN READING	3
!	MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
!	MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	3
	Writing Elective		3
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA		
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	HIST 31061	HISTORY OF OHIO	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Literature Elective		3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
	Requirement: minimum C grade in all professional courses and minimum 2.750 overall GPA		
	MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR)	9
!	MCED 49525	INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

Social Studies and Science Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
!	MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
	PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Two		
	BSCI 10120 or BSCI 10110	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB) or BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	ESCI 11040 or ESCI 11042	HOW THE EARTH WORKS (KBS) or EARTH AND LIFE THROUGH TIME (KBS)	3
	ESCI 11041 or ESCI 11043	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) or EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
!	MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
		Credit Hours	**18**
	Semester Three		
	Requirement: minimum 2.750 overall GPA by the end of term		
	CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	3
	HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
	MCED 20000	LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION	3
	POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	Requirement: minimum 2.750 overall GPA		
	CHEM 10060 or PHY 13001	GENERAL CHEMISTRY I (KBS) or GENERAL COLLEGE PHYSICS I (KBS)	4
	CHEM 10062 or PHY 13021	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) or GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	ENG 22071 or ENG 22072	STORIES THAT BUILT THE WORLD: HEROES, QUESTS AND LEGENDS (KHUM) or STORIES TO SAVE THE WORLD: LITERATURE AND THE FUTURE OF HUMANITY (KHUM)	3
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
		Credit Hours	**17**
	Semester Five		
	Requirement: minimum 2.750 overall GPA		
!	MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
!	MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
	MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	3
!	MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC)	6
		Credit Hours	**15**
	Semester Six		
	Requirement: minimum 2.750 overall GPA		
	ANTH 18630 or BSCI 10002	HUMAN EVOLUTION (KBS) or LIFE ON PLANET EARTH (KBS)	3
!	MCED 40002	TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II	3
!	MCED 40003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	3
!	MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
!	MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	3
		Credit Hours	**15**
	Semester Seven		
	Requirement: minimum 2.750 overall GPA		
	HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
	HIST 31061	HISTORY OF OHIO	3
	MCED 40005	EFFECTIVE USE OF PHONICS IN READING	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Science Elective		3-4
		Credit Hours	**15**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA		
	MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR)	9
!	MCED 49525	INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**124**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies

Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate the knowledge, skills and disposition needed to work collaboratively with diverse others.
2. Demonstrate content knowledge in two licensure specialization areas.
3. Demonstrate in-depth instructional and planning skills to effectively meet the needs of all their students.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity

- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:
  - MATH 14001 (or equivalent)
  - MATH 14002
- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following

courses (i.e., both courses must be completed with a minimum C grade for graduation):
  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration (minimum C grade) to be eligible for advanced study. Students should meet with their advisor.
- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science, Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.
- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas: pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science in Education degree in Middle Childhood Education prepares students for teacher licensure in selected subject areas, plus reading, for grades four to nine. In addition to content coursework and a substantial amount of field experiences, the Middle Childhood Education major includes intensive pedagogy courses that prepare students to understand the unique social, physical, cognitive and emotional needs of the young adolescent; these courses are taken as a cohort. Student teaching occurs during the final semester of the program.

Students choose two concentrations from the following:

- The **Language Arts** concentration includes courses in communication, grammar, literature, reading and writing.
- The **Mathematics** concentration includes courses in algebra, trigonometry, calculus, geometry and statistics.
- The **Science** concentration includes diverse courses in chemistry, biology, geology and physics.
- The **Social Studies** concentration includes diverse courses in economics, history, political science and geography.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Middle Childhood Education-Language Arts and Reading (4-9) Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Middle Childhood Education Language Arts and Reading 4-9 Additional Licensure Preparation program prepares you with the skills, knowledge and practical experience needed to succeed in the classroom. This program will provide you with a deep understanding of language and literature, literacy development and teaching strategies that will help you to engage and inspire your students. Read more...

Contact Information

- **Danielle Gruhler** | dgruhler@kent.edu | 330-672-6517
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 overall undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid Resident Educator or Professional State of Ohio teaching license
- Interview (to be conducted prior to full acceptance into the program)

Applicants are assessed holistically, considering academic credentials, academic or professional references, non-academic dimensions and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions

- **Summer Term**
  - Rolling admissions

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Licensure Requirements (minimum C/S grade required in all courses)		
CI 57504	TEACHING READING AND WRITING IN MIDDLE GRADES	3
CI 67092	ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION [1]	1
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
CI 67396	INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS	3
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
or HDF 54020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
or HDF 64027	EARLY ADOLESCENCE	
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
Minimum Total Credit Hours:		**22**

[1] Requirement to be determined by faculty advisor after review of previous teaching experience. Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the OAE Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with the standards of the Association for Middle Level Education (AMLE).
6. Demonstrate knowledge and skills identified in Advanced Standard A.1.1. of the Council for the Accreditation of Educator Preparation (CAEP).

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Middle Childhood Education–Language Arts and Reading Grades (4-9) Additional Licensure Preparation non-degree program provides coursework and field-based experiences for students who plan to apply for additional teacher licensure from the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete requirements for the master's program, in addition to courses that are prescribed here for additional licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for

state licensing boards at Kent State's website for professional licensure disclosure.

Middle Childhood Education-Mathematics (4-9) Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Middle Childhood Education - Mathematics 4-9 Additional Licensure Preparation program provides licensed teachers with the opportunity to add an additional license in mathematics education for grades 4-9. With a strong emphasis on mathematics content and pedagogy, this program will help you to develop the knowledge, skills, and strategies needed to effectively teach math to young students Read more...

Contact Information

- **Danielle Gruhler** | dgruhler@kent.edu | 330-672-6517
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 overall undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Questions in Anticipation of Licensure Form
- Evidence of valid Resident Educator or Professional State of Ohio teaching license
- Two letters of recommendation
- Interview (to be conducted prior to full acceptance into the program)

Applicants are assessed holistically, considering academic credentials, academic or professional references, non-academic dimensions and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Licensure Requirements

Code	Title	Credit Hours
Licensure Requirements (minimum C/S grade required in all courses)		
CI 57501	TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES	3
or CI 67226	IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD	
CI 57504	TEACHING READING AND WRITING IN MIDDLE GRADES	3
CI 67092	ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION [1]	1
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
CI 67396	INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS	3
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
or HDF 54020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
or HDF 64027	EARLY ADOLESCENCE	
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
Minimum Total Credit Hours:		**25**

[1] Requirement to be determined by faculty advisor after review of previous teaching experience. Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the OAE Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with the standards of the Association for Middle Level Education (AMLE).
6. Demonstrate knowledge and skills identified in Advanced Standard A.1.1. of the Council for the Accreditation of Educator Preparation (CAEP).

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Middle Childhood Education-Mathematics (4-9) Additional Licensure Preparation non-degree program provides coursework and field-based experiences for students who plan to apply for additional teacher licensure from the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete requirements for the master's program, in addition to courses that are prescribed here for additional licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Middle Childhood Education-Science (4-9) Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Middle Childhood Education - Science 4-9 Additional Licensure Preparation empowers you to become a skilled and knowledgeable educator in the field. This program will provide you with the practical and theoretical foundations necessary to teach science in middle school settings, equipping you with the tools to engage and inspire your students. Read more...

Contact Information

- **Danielle Gruhler** | dgruhler@kent.edu | 330-672-6517
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Questions in Anticipation of Licensure Form
- Evidence of valid Resident Educator or Professional State of Ohio teaching license
- Two letters of recommendation
- Interview (to be conducted prior to full acceptance into the program)

Applicants are assessed holistically, considering academic credentials, academic or professional references, non-academic dimensions and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Licensure Requirements (minimum C/S grade required in all courses)		
CI 57502	SCIENCE TEACHING IN EARLY AND MIDDLE GRADES [1]	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCED 50002	TEACHING SCIENCE IN MIDDLE CHILDHOOD II	
CI 57504	TEACHING READING AND WRITING IN MIDDLE GRADES	3
CI 67092	ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION [2]	1
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
CI 67396	INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS	3
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
or HDF 54020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
or HDF 64027	EARLY ADOLESCENCE	
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
Minimum Total Credit Hours:		**25**

1 Students will need permission from the middle childhood education program coordinator to register for the course.

2 Requirement to be determined by faculty advisor after review of previous teaching experience. Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies,

codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the Ohio Assessments for Educators Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with the standards of the Association for Middle Level Education (AMLE).
6. Demonstrate knowledge and skills identified in Advanced Standard A.1.1. of the Council for the Accreditation of Educator Preparation (CAEP).

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Middle Childhood Education—Science Grades 4-9 non-degree program provides coursework and field-based experiences for students who plan to apply for additional teacher licensure from the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete requirements for the master's program, in addition to courses that are prescribed here for additional licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Middle Childhood Education-Social Studies (4-9) Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Middle Childhood Education Social Studies 4-9 Additional Licensure Preparation program is designed to provide licensed teachers with the knowledge and skills necessary to teach social studies to students in grades 4-9. With a focus on engaging and innovative teaching methods, you will learn how to create meaningful and memorable learning experiences for your students. Read more...

Contact Information

- **Danielle Gruhler** | dgruhler@kent.edu | 330-672-6517
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/ technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/ technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 overall undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Questions in Anticipation of Licensure Form
- Evidence of valid Resident Educator or Professional State of Ohio teaching license
- Two letters of recommendation
- Interview (to be conducted prior to full acceptance Into the program)

Applicants are assessed holistically, considering academic credentials, academic or professional references, non-academic dimensions and other specific program criteria.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Licensure Requirements (minimum C/S grade required in all courses)		
CI 57503	TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES [1]	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCED 50003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	
CI 57504	TEACHING READING AND WRITING IN MIDDLE GRADES	3
CI 67092	ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION [2]	1
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
CI 67396	INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS	3
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
or HDF 54020	RELATIONSHIPS AND DEVELOPMENT ACROSS ADOLESCENCE AND EMERGING ADULTHOOD	
or HDF 64027	EARLY ADOLESCENCE	
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
Minimum Total Credit Hours:		**25**

[1] Students will need permission from the middle childhood education program coordinator to register for the course.

[2] Requirement to be determined by faculty advisor after review of previous teaching experience. Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the Ohio Assessments for Educators (OAE) Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

Program Learning Outcomes

Completers of this program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with the standards of the Association for Middle Level Education (AMLE).

6. Demonstrate knowledge and skills identified in Advanced Standard A.1.1. of the Council for the Accreditation of Educator Preparation (CAEP).

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Full Description

The Middle Childhood Education-Social Studies (4-9) Additional Licensure Preparation non-degree program provides coursework and field-based experiences for students who plan to apply for additional teacher licensure from the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete requirements for the master's program, in addition to courses that are prescribed here for additional licensure.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Middle Childhood Generalist Science (4-6) Endorsement Preparation

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Middle Childhood Generalist Science (4-6) Endorsement Preparation non-degree program prepares teachers to teach grades 4-6 in the concentration areas that are listed on the license. Completion of the coursework is a prerequisite to being recommended by Kent State University for endorsement, which is granted by the Ohio Department of Education.

This endorsement can be added to a Middle Childhood license for graduates of Kent State's middle childhood initial licensure education program after 2004.

Contact Information

- Kent: **Danielle Gruhler** | dgruhler@kent.edu | 330-672-6517
- Geauga: **Robin Dever** | rdever2@kent.edu | 440-834-3720
- Stark: **Shelly Heron** | mheron@kent.edu | 330-244-3403
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/ technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/ technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

- Bachelor of Science in Education degree in Middle Childhood Education earned at Kent State University after 2004 or current Kent State University students enrolled in the degree program
- Minimum 2.750 overall undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Evidence of a valid Resident Educator or Professional Middle Childhood State of Ohio teaching license.

Program Requirements

Code	Title	Credit Hours
Endorsement Requirements (minimum C/S grade required in all courses)		
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	3
ESCI 11040	HOW THE EARTH WORKS (KBS)	3
ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
MCED 41192	MIDDLE CHILDHOOD EDUCATION GENERALIST PRACTICAL EXPERIENCE (ELR) [1]	1
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3
Minimum Total Credit Hours:		**15**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Middle Childhood Education department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Successfully pass the Ohio Assessment Exam.
2. Demonstrate understanding of the content and pedagogy of required science courses.
3. Successfully plan and teach two science lessons using the 5E model of instruction.
4. Successfully plan and teach a unit in science.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Middle Childhood Generalist Social Studies (4-6) Endorsement Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Middle Childhood Generalist Social Studies (4-6) Endorsement Preparation non-degree endorsement program prepares educators to teach grades 4-6 in the concentration areas that are listed on the license. Completion of the coursework is a prerequisite to being recommended by Kent State University for endorsement, which is granted by the Ohio Department of Education.

This endorsement can be added to a Middle Childhood license for graduates of Kent State's middle childhood initial licensure education program after 2004.

Contact Information

- Kent: **Danielle Gruhler** | dgruhler@kent.edu | 330-672-6517
- Geauga: **Robin Dever** | rdever2@kent.edu | 440-834-3720
- Stark: **Shelly Heron** | mheron@kent.edu | 330-244-3403
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

- Bachelor of Science in Education degree Middle Childhood Education earned at Kent State University after 2004 or current students enrolled in the degree program
- Minimum 2.750 overall undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Evidence of a valid Resident Educator or Professional Middle Childhood State of Ohio teaching license

Program Requirements

Code	Title	Credit Hours
Endorsement Requirements (min C/S grade required in all courses)		
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
GEOG 37010	GEOGRAPHY OF OHIO	3
or HIST 31061	HISTORY OF OHIO	
MCED 41192	MIDDLE CHILDHOOD EDUCATION GENERALIST PRACTICAL EXPERIENCE (ELR) [1]	1
Minimum Total Credit Hours:		**7**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Middle Childhood Education department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Completers of this program will be able to:

1. Successfully pass the Ohio Assessment Exam.
2. Demonstrate understanding of the content and pedagogy of required social studies courses.
3. Successfully plan and teach two social studies lessons using the College, Career and Civil Life (C3) framework.
4. Successfully plan and teach a unit plan in social studies.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.

- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Online and Blended Learning - Graduate Certificate

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Online and Blended Learning graduate certificate provides the skills people need to teach effectively online, whether they are teaching an entire course online or integrating web-based activities into a traditionally taught class. Students examine recommendations from research, design their own online modules and develop effective strategies for delivering instruction online.

Contact Information

- **Jiahui Wang** | jwang79@kent.edu | 330-672-0664
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Agricultural sciences teachers, postsecondary

- 2.1% slower than the average
- 11,400 number of jobs
- $90,340 potential earnings

Anthropology and archeology teachers, postsecondary

- 4.4% about as fast as the average
- 7,200 number of jobs
- $89,220 potential earnings

Architecture teachers, postsecondary

- 5.1% faster than the average
- 8,500 number of jobs
- $90,880 potential earnings

Area, ethnic, and cultural studies teachers, postsecondary

- 4.9% about as fast as the average
- 13,400 number of jobs
- $78,840 potential earnings

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Atmospheric, earth, marine, and space sciences teachers, postsecondary

- 1.9% slower than the average
- 13,100 number of jobs
- $94,520 potential earnings

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Business teachers, postsecondary

- 12.0% much faster than the average
- 105,100 number of jobs
- $88,010 potential earnings

Career/technical education teachers, middle school

- 3.1% about as fast as the average
- 11,800 number of jobs
- $62,270 potential earnings

Career/technical education teachers, postsecondary

- 1.1% slower than the average
- 124,100 number of jobs
- $55,620 potential earnings

Career/technical education teachers, secondary school

- 2.3% slower than the average
- 73,800 number of jobs
- $62,460 potential earnings

Chemistry teachers, postsecondary

- 4.3% about as fast as the average
- 26,400 number of jobs
- $80,400 potential earnings

Communications teachers, postsecondary
- 3.2% about as fast as the average
- 35,600 number of jobs
- $71,030 potential earnings

Computer science teachers, postsecondary
- 2.6% slower than the average
- 38,500 number of jobs
- $85,540 potential earnings

Criminal justice and law enforcement teachers, postsecondary
- 6.7% faster than the average
- 16,800 number of jobs
- $63,560 potential earnings

Economics teachers, postsecondary
- 5.2% faster than the average
- 16,800 number of jobs
- $107,260 potential earnings

Education teachers, postsecondary
- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Elementary school teachers, except special education
- 3.5% about as fast as the average
- 1,452,100 number of jobs
- $60,940 potential earnings

Engineering teachers, postsecondary
- 8.6% much faster than the average
- 44,600 number of jobs
- $103,600 potential earnings

English language and literature teachers, postsecondary
- 2.1% slower than the average
- 81,300 number of jobs
- $69,000 potential earnings

Environmental science teachers, postsecondary
- 3.7% about as fast as the average
- 7,600 number of jobs
- $84,740 potential earnings

Family and consumer sciences teachers, postsecondary
- 1.3% slower than the average
- 2,500 number of jobs
- $72,220 potential earnings

Foreign language and literature teachers, postsecondary
- 5.7% faster than the average
- 30,600 number of jobs
- $69,920 potential earnings

Forestry and conservation science teachers, postsecondary
- 2.2% slower than the average
- 2,100 number of jobs
- $87,400 potential earnings

Geography teachers, postsecondary
- 2.9% slower than the average
- 4,800 number of jobs
- $82,330 potential earnings

Health specialties teachers, postsecondary
- 20.5% much faster than the average
- 254,000 number of jobs
- $99,090 potential earnings

History teachers, postsecondary
- 3.6% about as fast as the average
- 26,000 number of jobs
- $76,890 potential earnings

Kindergarten teachers, except special education
- 3.7% about as fast as the average
- 127,700 number of jobs
- $57,860 potential earnings

Library science teachers, postsecondary
- 3.0% about as fast as the average
- 5,400 number of jobs
- $71,580 potential earnings

Mathematical science teachers, postsecondary
- 1.3% slower than the average
- 60,100 number of jobs
- $73,650 potential earnings

Middle school teachers, except special and career/technical education
- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Nursing instructors and teachers, postsecondary
- 17.6% much faster than the average
- 72,900 number of jobs
- $75,470 potential earnings

Philosophy and religion teachers, postsecondary
- 6.7% faster than the average
- 30,900 number of jobs
- $76,160 potential earnings

Physics teachers, postsecondary
- 4.4% about as fast as the average
- 17,100 number of jobs
- $90,400 potential earnings

Political science teachers, postsecondary
- 4.9% about as fast as the average
- 19,800 number of jobs
- $85,760 potential earnings

Postsecondary teachers, all other
- 2.0% slower than the average
- 245,900 number of jobs
- $71,950 potential earnings

Preschool teachers, except special education
- 2.5% slower than the average
- 540,400 number of jobs
- $31,930 potential earnings

Psychology teachers, postsecondary
- 8.8% much faster than the average
- 46,800 number of jobs
- $78,180 potential earnings

Recreation and fitness studies teachers, postsecondary
- 2.6% slower than the average
- 19,100 number of jobs
- $66,290 potential earnings

Secondary school teachers, except special and career/technical education
- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Social sciences teachers, postsecondary, all other
- -0.3% little or no change
- 19,300 number of jobs
- $69,340 potential earnings

Social work teachers, postsecondary
- 5.7% faster than the average
- 17,300 number of jobs
- $71,570 potential earnings

Sociology teachers, postsecondary
- 3.8% about as fast as the average
- 17,000 number of jobs
- $75,610 potential earnings

Special education teachers, all other
- 8.5% much faster than the average
- 36,600 number of jobs
- $62,820 potential earnings

Special education teachers, kindergarten and elementary school
- 2.9% slower than the average
- 193,000 number of jobs
- $60,620 potential earnings

Special education teachers, middle school
- 2.6% slower than the average
- 84,700 number of jobs
- $61,820 potential earnings

Special education teachers, preschool
- 8.3% much faster than the average
- 23,000 number of jobs
- $61,400 potential earnings

Special education teachers, secondary school
- 3.2% about as fast as the average
- 143,000 number of jobs
- $62,320 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements
- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement of personal and professional objectives
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
- Minimum 79 TOEFL iBT score
- Minimum 6.5 IELTS score
- Minimum 58 PTE score
- Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
ETEC 67442	DESIGNING ONLINE AND BLENDED COURSES	3
ETEC 67444	TEACHING ONLINE AND BLENDED COURSES	3
ETEC 67449	RESEARCH IN ONLINE AND BLENDED LEARNING	3
Minimum Total Credit Hours:		**9**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Graduate Certificate Policy

- Students seeking a graduate certificate must maintain a minimum 3.000 grade point average. A graduate certificate student who receives a combination of more than 8 credit hours of B- or lower grades, or more than 4 credit hours of grades lower than C is subject to dismissal. Students who are unable to maintain academic standards of the College are subject to dismissal for academic reasons. Grades of C- or below are not counted toward completion of the certificate.
- Certificates must be completed within six years after the first graduate enrollment.
- No more than 2 credit hours of workshop may be used toward a certificate.
- Before being eligible to be awarded a Certificate, students must be admitted to the Certificate program.
- Students currently in a graduate degree program may also apply to a certificate program. Their degree seeking coursework may be applied to the certificate coursework with advisor approval. The courses must be completed within six years and satisfy certificate course requirements.
- Students who have a previous graduate degree and are not currently seeking another graduate degree may transfer a maximum 6 credit hours with advisor approval. These credits may include hours from another KSU program, or from another accredited institution, if the following conditions are met:
  - courses were at the graduate level
  - a grade of "A" or "B" was earned
  - credit will be less than six years old at the time the certificate is conferred at Kent
  - student was admitted as a graduate student at the time the course was taken.
- Some program areas may be more restrictive. Students are advised to consult their program.

Physical Education and Sport Performance - B.S.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Physical Education and Sport Performance program offers a unique blend of theory and practice to help you succeed in this exciting field. Learn from experienced faculty and gain hands-on experience through internships and practicums. Launch your career in sports coaching, sports management or fitness training with this bachelor's degree. Read more...

Contact Information

- **Douglas Ellison** | delliso4@kent.edu | 330-672-6330
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Coaches and scouts

- 11.8% much faster than the average
- 292,000 number of jobs
- $36,330 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Exercise trainers and group fitness instructors

- 15.4% much faster than the average
- 373,700 number of jobs
- $40,510 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Miscellaneous entertainers and performers, sports and related workers

- 4.2% about as fast as the average
- 33,300 number of jobs
- $N/A potential earnings

Recreation and fitness studies teachers, postsecondary

- 2.6% slower than the average
- 19,100 number of jobs
- $66,290 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

Council for the Accreditation of Educator Preparation

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Please use the standard undergraduate university admissions language.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) [1]		
ATTR/EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) [2]	4
PESP 15010	INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT	3
PESP 25033	LIFESPAN MOTOR DEVELOPMENT	3
PESP 25056	ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT	3
PESP 35020	FITNESS EDUCATION	3
PESP 35084	MOTOR SKILL ANALYSIS	3
Additional Requirements (courses do not count in major GPA)		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS) [3]	3
UC 10001	FLASHES 101	1
Kent Core Composition [3]		6
Kent Core Mathematics and Critical Reasoning		3-5
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Concentrations		
Choose from the following:		76-113
Health and Physical Education		
Physical Education Licensure		
Physical Activity and Sport Performance		
Minimum Total Credit Hours:		**120-157**

1. Minimum C grade is required in all major coursework for the Health and Physical Education concentration and the Physical Education Licensure concentration.
2. Students who have successfully completed BSCI 11010 with a minimum C grade may use that course in place of ATTR 25057/EXSC 25057.
3. Minimum C grade is required for the Health and Physical Education and Physical Education Licensure concentrations.

Health and Physical Education Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
EHHS 49592	STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION (ELR) [1]	10
HED 11570	PERSONAL HEALTH (min C grade)	3
HED 21030	INTRODUCTION TO HEALTH EDUCATION (min C grade)	3
HED 21050	HEALTH EDUCATION THEORIES (min C grade)	3
HED 30000	TEACHING HEALTH TO YOUNG LEARNERS (min C grade) [1]	3
HED 32530	DRUG USE AND MISUSE (min C grade)	3
HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC) (min C grade) [1]	5
HED 32544	HUMAN SEXUALITY (min C grade)	3
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION (min C grade)	3
HED 42041	HEALTH COACHING (min C grade)	3
HED 44543	ADMINISTRATION OF SCHOOL HEALTH PROGRAMS (min C grade)	3
HED 44544	SEXUALITY EDUCATION PROGRAMS (min C grade)	3
HED 44550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS (min C grade)	3
HED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE (min C grade)	3
PESP 15011	DEVELOPMENT AND ANALYSIS OF INVASION GAMES (min C grade)	3
PESP 15015	DEVELOPMENT AND ANALYSIS OF NET GAMES (min C grade)	3
PESP 15016	DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES (min C grade)	3
PESP 15020	FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE (min C grade)	3
PESP 25025	TEACHING IN PHYSICAL EDUCATION (min C grade) [1]	3
PESP 25026	OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION (min C grade)	3
PESP 45037	ADAPTED PHYSICAL EDUCATION (min C grade) [1]	3
PESP 45051	ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS (min C grade) [1]	3

PESP 45053	ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT (min C grade) [1]	3
PESP 45058	SECONDARY SCHOOL PHYSICAL EDUCATION METHODS (min C grade) [1]	3
PESP 45059	SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT (min C grade) [1]	3
PESP 49525	INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION (min C grade)	3
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) (min C grade)	3
Physical Activity, Wellness and Sport (PWS) Electives, choose from the following (min C grade):		2
PWS 10020	DEVELOPMENT AND CONDITIONING	
PWS 10036	FITNESS WALKING	
PWS 10306	JOGGING	
PWS 10403	BEGINNING BALLROOM DANCE	
PWS 10413	LATIN SOCIAL DANCE	
PWS 11426	VARSITY SPORT TRAINING AND CONDITIONING	
PWS 11604	BEGINNING KARATE	
PWS 11633	JU JITSU	
PWS 11634	SELF-DEFENSE	
PWS 11663	BEGINNING YOGA	
PWS 11664	PILATES	
PWS 11665	ZUMBA	
PWS 11666	BEGINNING SPINNING	
PWS 11667	BOOT CAMP I	
PWS 11673	INTERMEDIATE YOGA	
PWS 11674	INTERMEDIATE PILATES	
PWS 11675	ZUMBA TONING	
PWS 12324	WEIGHT TRAINING	
PWS 12325	WOMEN'S WEIGHT TRAINING	
PWS 12424	EXERCISE AND WEIGHT CONTROL	
PWS 12425	NAUTILUS EXERCISES	
PWS 13003	DANCE EXERCISE	
PWS 13010	JUDO-JUJITSU	
PWS 13016	CYCLING	
PWS 13040	CARDIO KICKBOXING	
Additional Requirements (courses do not count in major GPA)		
CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD (min C grade)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS) (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
Kent Core Additional		3
Minimum Total Credit Hours:		**113**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Physical Activity and Sport Performance Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
PESP 15020	FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE	3
PESP 45015	PSYCHOLOGY OF COACHING	3
PESP 45037	ADAPTED PHYSICAL EDUCATION [1]	3
PESP 45092	INTERNSHIP IN PHYSICAL EDUCATION (ELR)	3
or PESP 45096	INDIVIDUAL INVESTIGATION IN PHYSICAL EDUCATION	
SPAD 25000	SPORT IN SOCIETY (DIVD)	3
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) [2]	3
Physical Activity, Wellness and Sport (PWS) or Professional Movement Elective		1
Development and Analysis Electives, choose from the following:		6
PESP 15011	DEVELOPMENT AND ANALYSIS OF INVASION GAMES	
PESP 15015	DEVELOPMENT AND ANALYSIS OF NET GAMES	
PESP 15016	DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES	
Additional Requirements (courses do not count in major GPA)		
Kent Core Basic Sciences (must include one laboratory)		3
Kent Core Additional		6
Declared Minor and General Electives (total credit hours depends on earning 120 credit hours, including 39 upper division credit hours) [3]		42
Minimum Total Credit Hours:		**76**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

[2] A minimum C grade must be earned to fulfill writing-intensive requirement.

[3] Students are required to declare and complete a minor as part of the Physical Education and Sport Performance program. Students may select any minor available at Kent State, but it should be aligned with the student's overall educational and career goals. Number of credit hours depends on the program selected. A minimum of 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.

Physical Education Licensure Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
HED 42575	HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS	3
PESP 15011	DEVELOPMENT AND ANALYSIS OF INVASION GAMES (min C grade)	3
PESP 15015	DEVELOPMENT AND ANALYSIS OF NET GAMES (min C grade)	3
PESP 15016	DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES (min C grade)	3
PESP 15020	FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE (min C grade)	3
PESP 25025	TEACHING IN PHYSICAL EDUCATION (min C grade) [1]	3

PESP 25026	OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION (min C grade)	3
PESP 45037	ADAPTED PHYSICAL EDUCATION (min C grade) [1]	3
PESP 45051	ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS (min C grade) [1]	3
PESP 45053	ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT (min C grade) [1]	3
PESP 45058	SECONDARY SCHOOL PHYSICAL EDUCATION METHODS (min C grade) [1]	3
PESP 45059	SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT (min C grade) [1]	3
PESP 49525	INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION (min C grade)	3
PESP 49592	STUDENT TEACHING IN PHYSICAL EDUCATION (ELR) [1]	12
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) (min C grade)	3
Physical Activity, Wellness and Sport (PWS) Electives, choose from the following (min C grade):		1
PWS 10020	DEVELOPMENT AND CONDITIONING	
PWS 10036	FITNESS WALKING	
PWS 10306	JOGGING	
PWS 10403	BEGINNING BALLROOM DANCE	
PWS 10413	LATIN SOCIAL DANCE	
PWS 11426	VARSITY SPORT TRAINING AND CONDITIONING	
PWS 11604	BEGINNING KARATE	
PWS 11633	JU JITSU	
PWS 11634	SELF-DEFENSE	
PWS 11663	BEGINNING YOGA	
PWS 11664	PILATES	
PWS 11665	ZUMBA	
PWS 11666	BEGINNING SPINNING	
PWS 11667	BOOT CAMP I	
PWS 11673	INTERMEDIATE YOGA	
PWS 11674	INTERMEDIATE PILATES	
PWS 11675	ZUMBA TONING	
PWS 12324	WEIGHT TRAINING	
PWS 12325	WOMEN'S WEIGHT TRAINING	
PWS 13003	DANCE EXERCISE	
PWS 13010	JUDO-JUJITSU	
PWS 13016	CYCLING	
PWS 13040	CARDIO KICKBOXING	
Additional Requirements (courses do not count in major GPA)		
CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
Kent Core Basic Sciences (must include one laboratory)		3
Kent Core Additional		6
Minimum Total Credit Hours:		**76**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Progression Requirements

Students in the Health and Physical Education and Physical Education Licensure concentrations must meet all professional requirements for admission to advanced study.

To manage enrollment and deliver high-quality programs, the faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA[1]) at Kent State University; non-academic criteria and other specific program criteria.

Please be aware that reapplication may be necessary if postponing advanced study coursework or if withdrawn for one year or more.

[1] Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Health and Physical Education Concentration

Minimum Major GPA	Minimum Overall GPA
2.750	2.750

Physical Activity and Sport Performance Concentration

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

Physical Education Licensure Concentration

Minimum Major GPA	Minimum Overall GPA
2.750	2.750

- Students in the Health and Physical Education concentration and the Physical Education Licensure concentration are required to provide evidence of certification in First Aid, CPR and a minimum equivalence to level 5 competency in Red Cross swimming.

Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

Roadmaps

Health and Physical Education Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	HED 11570	PERSONAL HEALTH	3
!	PESP 15010	INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT	3
!	PESP 15020	FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
!	PESP 15015	DEVELOPMENT AND ANALYSIS OF NET GAMES	3
!	PESP 25026	OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION	3
!	Physical Activity, Wellness and Sport (PWS) Elective		1
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	HED 21030	INTRODUCTION TO HEALTH EDUCATION	3
!	PESP 15011	DEVELOPMENT AND ANALYSIS OF INVASION GAMES	3
!	PESP 15016	DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	HED 32530	DRUG USE AND MISUSE	3
	PESP 25056	ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Physical Activity, Wellness and Sport (PWS) Electives		1
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Five		
	Requirement: minimum 2.750 overall GPA by end of term; minimum 2.750 major GPA		
!	ATTR 25057 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
	HED 21050	HEALTH EDUCATION THEORIES	3
	PESP 25033	LIFESPAN MOTOR DEVELOPMENT	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Six		
	Requirement: apply online for Advanced Study before the second Friday of the term; 2.750 minimum overall GPA; minimum 2.750 major GPA		
	HED 30000	TEACHING HEALTH TO YOUNG LEARNERS	3
	HED 32544	HUMAN SEXUALITY	3
	HED 44543	ADMINISTRATION OF SCHOOL HEALTH PROGRAMS	3
!	PESP 25025	TEACHING IN PHYSICAL EDUCATION	3
	PESP 35084	MOTOR SKILL ANALYSIS	3
		Credit Hours	**15**
	Semester Seven		
	Requirement: apply for student teaching; minimum 2.750 major GPA; minimum 2.750 overall GPA		
!	HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	5
	HED 42041	HEALTH COACHING	3
	PESP 35020	FITNESS EDUCATION	3
	SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC)	3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA; minimum 2.750 major GPA		
	HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
	HED 44544	SEXUALITY EDUCATION PROGRAMS	3
	HED 44550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	3
!	PESP 45058	SECONDARY SCHOOL PHYSICAL EDUCATION METHODS	3
!	PESP 45059	SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT	3
		Credit Hours	**15**
	Semester Nine		
	Requirement: minimum 2.750 overall GPA; minimum 2.750 major GPA		
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
	PESP 45037	ADAPTED PHYSICAL EDUCATION	3
!	PESP 45051	ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS	3
!	PESP 45053	ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT	3
		Credit Hours	**15**
	Semester Ten		
	Requirement: minimum 2.750 overall GPA; minimum 2.750 major GPA		
	EHHS 49592	STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION (ELR)	10
!	HED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE	3
!	PESP 49525	INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION	3
		Credit Hours	**16**
		Minimum Total Credit Hours:	**157**

Physical Activity and Sport Performance Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	PESP 15010	INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT	3
	PESP 15020	FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Development and Analysis Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	ATTR 25057 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
	PESP 25033	LIFESPAN MOTOR DEVELOPMENT	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Approved Minor and General Electives		3
		Credit Hours	**16**
	Semester Four		
!	PESP 25056	ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT	3
	SPAD 25000	SPORT IN SOCIETY (DIVD)	3
	Approved Minor and General Electives		9
		Credit Hours	**15**
	Semester Five		
	Development and Analysis Elective		3
	Physical Activity, Wellness and Sport (PWS) or Professional Movement Elective		1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Approved Minor and General Electives		5
		Credit Hours	**15**
	Semester Six		
	PESP 35084	MOTOR SKILL ANALYSIS	3
	SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC)	3
	Approved Minor and General Electives		9
		Credit Hours	**15**
	Semester Seven		
	Note: apply for graduation		
	PESP 35020	FITNESS EDUCATION	3
	PESP 45037	ADAPTED PHYSICAL EDUCATION	3
	PESP 45015	PSYCHOLOGY OF COACHING	3
	Approved Minor and General Electives		6
		Credit Hours	**15**
	Semester Eight		
!	PESP 45092 or PESP 45096	INTERNSHIP IN PHYSICAL EDUCATION (ELR) or INDIVIDUAL INVESTIGATION IN PHYSICAL EDUCATION	3
	Approved Minor and General Electives		10
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

Physical Education Licensure Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	PESP 15010	INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT	3
!	PESP 15020	FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	PESP 15015	DEVELOPMENT AND ANALYSIS OF NET GAMES	3
	PESP 25026	OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	Requirement: minimum 2.750 overall GPA by end of term; minimum 2.750 major GPA		
!	ATTR 25057 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
!	PESP 15011	DEVELOPMENT AND ANALYSIS OF INVASION GAMES	3
	PESP 15016	DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
	Requirement: apply online for Advanced Study before the second Friday of the term; 2.750 minimum overall GPA; minimum 2.750 major		
	PESP 25025	TEACHING IN PHYSICAL EDUCATION	3
	PESP 25033	LIFESPAN MOTOR DEVELOPMENT	3
	PESP 25056	ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT	3
	Physical Activity, Wellness and Sport (PWS) Electives		1
	Kent Core Requirement		3
		Credit Hours	**13**
	Semester Five		
	Requirement: minimum 2.750 overall GPA; minimum 2.750 major GPA		
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	HED 42575	HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS	3
	PESP 35020	FITNESS EDUCATION	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	Requirement: minimum 2.750 overall GPA; minimum 2.750 major GPA		
	PESP 35084	MOTOR SKILL ANALYSIS	3
!	PESP 45058	SECONDARY SCHOOL PHYSICAL EDUCATION METHODS	3
!	PESP 45059	SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT	3
	SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC)	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Seven		
	Requirement: apply for graduation; minimum 2.750 overall GPA; minimum 2.750 major GPA		
	PESP 45037	ADAPTED PHYSICAL EDUCATION	3
!	PESP 45051	ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS	3
!	PESP 45053	ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA; minimum 2.750 major GPA		
!	PESP 49525	INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION	3
	PESP 49592	STUDENT TEACHING IN PHYSICAL EDUCATION (ELR)	12
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	

Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of the Health and Physical Education and Physical Education Licensure concentrations will be able to:

1. Demonstrate an understanding of content and scientific and theoretical foundations for the delivery of an effective PK-12 PE and/or Health program.
2. Plan and implement developmentally appropriate and meaningful PE and/or health learning experiences aligned with local, state and/or national standards and grade-level outcomes.
3. Use effective resources, accommodations, and technology that support the diverse needs of all students in planning and teaching.
4. Use effective communication, feedback, and instructional and managerial skills to enhance student learning.
5. Select and implement appropriate assessments and reflection to monitor students' progress and guide decision making related to instruction and learning.
6. Demonstrate dispositions essential to becoming effective professionals.

Graduates of the Physical Activity and Sport Performance concentration will be able to:

1. Demonstrate understanding and value of human diversity.
2. Apply their broad spectrum of knowledge of human movement in their capstone experience by being able to:
   a. Describe and apply biophysical (anatomical, physiological and biomechanical) and social-psychological concepts to skillful movement, physical activity and fitness, depending upon their area of focus.
   b. Identify individual and group motives and opportunities and barriers to involvement in different types of human movement.
   c. Understand the historical significance of past events and how these events have shaped the present development of sport and physical education.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity
- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.
- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:

- MATH 14001 (or equivalent)
- MATH 14002

- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following courses (i.e., both courses must be completed with a minimum C grade for graduation):
  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration (minimum C grade) to be eligible for advanced study. Students should meet with their advisor.
- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science, Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.
- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas: pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.

- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science degree in Physical Education and Sport Performance prepares teachers who exemplify best practices in the PK-12 setting and professionals who promote high quality physical activity opportunities for individuals across the lifespan. The program places a strong emphasis on field experience, internships and professional development experiences.

The Physical Education and Sport Performance major comprises the following concentrations:

- The **Health and Physical Education** concentration is a five-year program that provides the curriculum necessary for students seeking Ohio teacher licensure in both health education and physical education. The program includes multiple field experiences in a variety of school districts, followed by a full semester of student teaching. Students teach in both subjects and are eligible to sit for the multi-age teacher licensing examinations. Students in combined bachelor's/master's degree programs may apply graduate courses toward the B.S.E. degree.
- The **Physical Activity and Sport Performance** concentration is grounded in the understanding that the study of physical activity and sport is important in themselves and as biological and social concepts. The concentration provides students with the opportunity to design their educational experience by developing an individualized program of study. Students in this concentration are required to declare a minor, either in a related field or outside the field.
- The **Physical Education Teacher Licensure** concentration prepares students to seek Ohio teacher licensure in physical education. The program includes multiple field experiences in a variety of school districts, followed by a full semester of student teaching. Graduates are eligible to sit for the multi-age teacher licensing examinations.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Physical Science - B.S.E.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

With the Physical Science B.S.E. program, you'll gain a solid foundation in the fundamental principles of physics, chemistry and earth science. This program offers hands-on learning experiences, research opportunities and expert faculty guidance to help you succeed. Read more...

Contact Information

- **Kristine E. Pytash, Ph.D.** | kpytash@kent.edu | 330-672-0641
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers*

Agricultural sciences teachers, postsecondary

- 2.1% slower than the average
- 11,400 number of jobs
- $90,340 potential earnings

Atmospheric, earth, marine, and space sciences teachers, postsecondary

- 1.9% slower than the average
- 13,100 number of jobs
- $94,520 potential earnings

Biological science teachers, postsecondary

- 9.3% much faster than the average
- 64,700 number of jobs
- $85,600 potential earnings

Chemistry teachers, postsecondary

- 4.3% about as fast as the average
- 26,400 number of jobs
- $80,400 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Environmental science teachers, postsecondary

- 3.7% about as fast as the average
- 7,600 number of jobs
- $84,740 potential earnings

Forestry and conservation science teachers, postsecondary

- 2.2% slower than the average
- 2,100 number of jobs
- $87,400 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Physics teachers, postsecondary

- 4.4% about as fast as the average
- 17,100 number of jobs
- $90,400 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

Council for the Accreditation of Educator Preparation

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. Please insert the standard university approved admission language for undergraduate degrees.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA; min C grade required in all courses)		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 30301	INORGANIC CHEMISTRY I	3
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
PHY 36001	INTRODUCTORY MODERN PHYSICS	3
PHY 32511	ELECTRONICS	3-4
or PHY 36002	APPLICATIONS OF MODERN PHYSICS	
Additional Requirements (courses do not count in major GPA)		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING (min C grade) [1]	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) [1]	3
ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS (min C grade) [1]	3
ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING (min C grade)	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) [1]	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR) [1]	9
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10001	FLASHES 101	1
Kent Core Composition (min C grade)		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Minimum Total Credit Hours:		**122**

[1] Teacher candidates are only permitted to repeat a field experience course once. Refer to the Repeating Field Experience Courses in Teacher Education Programs policy for details.

Progression Requirements

Students seeking admission to this program must meet all professional requirements for admission to advanced study. To be admitted to the program, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible

Faculty will select the most qualified applicants based on an interview, letters of recommendation, GPA[1] and performance in English coursework.

Applicants must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health, and Human Services' Vacca Office of Student Services, 304 White Hall, during their first year of study to inquire about the procedures and criteria associated with admission to advanced study.

[1] Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

Dual Majors/Dual Degrees

Students seeking to declare an additional teacher education major in the B.S.E. degree (double major) or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major.
3. All required methods courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
   a. ADED 42292 (or the equivalent required by the major outside the college)
   b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take ADED 42392, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.
6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Two		
	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	MATH 11022	TRIGONOMETRY (KMCR)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Three		
	Requirement: minimum overall 2.750 GPA by end of term and minimum C grade and 2.600 major GPA		
	CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
		Credit Hours	**17**
	Semester Four		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Five		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
!	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	CHEM 30105	ANALYTICAL CHEMISTRY I	3
	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS	3
	CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	CHEM 30301	INORGANIC CHEMISTRY I	3
	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
		Credit Hours	**15**
	Semester Seven		
	Requirements: minimum 2.750 overall GPA and minimum 2.600 major GPA		
!	ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
!	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	PHY 32511 or PHY 36002	ELECTRONICS or APPLICATIONS OF MODERN PHYSICS	3-4
	PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
		Credit Hours	**12**
	Semester Eight		
	Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
!	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**122**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7

Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Plan multiple lessons using a variety of inquiry approaches that demonstrate their knowledge and understanding of how to engage all students in learning science.
2. Plan a learning environment and learning experiences for all students that demonstrate chemical safety, safety procedures and the ethical treatment of living organisms within their licensure area.
3. Plan fair and equitable assessment strategies to analyze student learning and to evaluate if the science learning goals are met.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Background Checks for Teacher Licensure Candidates

For field experience, student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the student teaching/internship will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience/student teaching/culminating internship. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at www.ode.state.oh.us for more information about background check requirements for educators in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check.

Education Licensure Application

Students in the teacher education programs must apply for State of Ohio Licensure within 12 months of program completion (defined by completion of all licensure program requirements) . After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

If a student does not apply for their license within 6 years, they are subject to any additional state licensure requirements and are also subject to additional coursework based on changes in areas such as content, age of coursework and changes in program requirements. A minimum of 9 credit hours will be required to apply for licensure after 6 years of program completion.

Professional Dispositions for Teacher Candidates

Professional dispositions are the professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty, and communities. The teacher education faculty believe that the following dispositions support student learning and development. Therefore teacher candidates are expected to demonstrate:

- Communication and Collaboration
- Fairness and Equity
- Ethical Behavior
- Professional Responsibility

These dispositions are assessed at least three times in a candidate's program:

- Education in a Democratic Society course,
- a methods course with a field component, and
- student teaching.

In addition, a disposition assessment may be completed by a faculty member at any time a situation calls for it. A disposition is considered 'acceptable' if a candidate does not have an outstanding Professional Disposition Plan (PDPs) that requires improved performance in specified areas. A candidate may not progress through the teacher education program if they have any PDPs submitted and unresolved at the following three points:

- Applying for advanced study: If a student has an outstanding PDP at the time of application, a student will not be able to apply for advanced study until the PDP is rectified.
- Prior to the student teaching semester: All outstanding PDPs must be completed and cleared prior to the start of student teaching.

- End of student teaching semester: A student with an outstanding PDP during the student teaching semester will not successfully pass student teaching.

Professional Education Warning

Professional Education Warning for students in teacher licensure programs and the Community Health Education major must have a minimum 2.75 GPA to progress in their programs and ultimately graduate. Unless other factors are present, students who do not meet the prescribed conditions are required to transfer out of their declared major. An appeal of this decision is directed to the associate dean of undergraduate student services, College of Education, Health and Human Services, 304 White Hall.

Repeating Field Experience Courses in Teacher Education Programs

Teacher candidates are permitted to repeat a field experience course once (see major requirements for specific courses). If a teacher candidate is unsuccessful in completing OR fails to earn the required grade in a field experience course the first time, the teacher candidate will receive a warning and will be required to work with a faculty advisor in their academic unit to develop a plan for continuation. The required grade is a C or better in a course that awards a letter grade, or Satisfactory (S) in a course that awards an S/U grade. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. If the teacher candidate does not earn the required grade in the field experience course the second time, a hold will be placed on their account, preventing them from registering for classes until they change their major out of the education program.

Requirements for Admission to Advanced Study

Admission to advanced study is required of all teacher education initial licensure majors and minors prior to enrolling in courses designated as advanced study courses. Upon completion of coursework as determined by program area, students must apply during the term which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite.

Application Dates

Fall Semester:

- Application window: August 1 to September 1
- Term to begin advanced study courses: Spring semester

Spring Semester:

- Application window: January 1 to February 1
- Term to begin advanced study courses: Summer term and/or fall semester

Summer Term:

- Application window: May 1 to June 1
- Term to begin advanced study courses: Fall semester

All students apply for Advanced Study through the College of Education, Health and Human Services Student Portal which can be accessed through the Vacca Office of Student Services web page.

Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to initial teacher licensure, with the exception of students in the Career Tech Teacher Education certificate who obtain initial licensure through the Alternative Resident Educator Licensure Program (teachers recruited from business and industry).

Requirements for Admission to Advanced Study

To deliver high-quality programs, faculty will select the most qualified applicants for admission based upon evaluation of academic success (overall GPA) at Kent State University, non-academic criteria and other specific program criteria.

Students may be required to reapply if they postpone advanced study coursework or withdraw from their courses for one year or more.

College Writing

- Students are required to attain minimum C grade in each writing course (ENG 11011 and ENG 21011 or equivalent) (Integrated Language Arts majors must attain minimum B grade).

Mathematics

- The following courses must be completed with minimum C grade for the majors Early Childhood Education, Middle Childhood Education and Special Education:
  - MATH 14001 (or equivalent)
  - MATH 14002
- The following courses must be completed with a minimum C grade for Integrated Mathematics majors:
  - MATH 12002
  - MATH 12003
  - In addition, a minimum 2.600 overall GPA in math content coursework is required.

Pre-Advanced Study Coursework

- To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and minimum C grade in **one** of the following courses (i.e., both courses must be completed with a minimum C grade for graduation):
  - EPSY 29525 (note: Middle Childhood Education majors must earn a minimum C grade in this course to be eligible for Advanced Study)
  - SPED 23000
- Early Childhood Education majors must earn a minimum C grade in ECED 10120 to be eligible for advanced study.
- Middle Childhood Education majors must earn a minimum C grade in MCED 20000 to be eligible for advanced study.
- Middle Childhood Education majors must complete at least 50 percent of content area coursework from each concentration (minimum C grade) to be eligible for advanced study. Students should meet with their advisor.
- Adolescence/Young Adult Programs: majors must earn a minimum C grade in ADED 20000 to be eligible for Advanced Study.

Grade Point Average

All students must have a minimum 2.750 overall GPA, with additional conditions for the following majors:

- Adolescence/Young Adult Programs: A minimum 2.600 GPA in the chosen adolescence/young adult content area is required for admission to advanced study, student teaching and graduation. A minimum C grade is required in each course within the content area. The following majors are affected: Earth Science, Integrated Language Arts, Integrated Mathematics, Integrated Science, Integrated Social Studies, Life Science, Life Science/Chemistry and Physical Science.
- For minimum GPA criteria for Art Education and Music Education, please see Requirements for Admission to Advanced Study for Art Education and Music Education in the College Policies section for the College of the Arts in the University Catalog.
- Education Minor: Students in a program eligible to declare the Education minor must achieve a minimum 2.500 overall and a content GPA to declare the Education minor, be admitted to advanced study, participate in student teaching and be recommended for licensure.

All GPA requirements must be met at the time of application.

Disposition Assessment/Professional Disposition Plans (PDPs)

Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.

Teacher Candidate Acknowledgments and Legal Questions for Licensure

Candidates are required to electronically sign five statements acknowledging that they have read and understand the following areas: pre-service teacher permit / background check requirements, professional dispositions, licensure application information, legal questions asked on the licensure application, and teacher education handbook information. Statements can be found on the student portal.

Student Teaching

The application for student teaching is completed online through the College of Education, Health and Human Services' student portal. Students will be required to complete the application during specified windows posted on the Vacca Office of Student Services' (VOSS) website. Application windows will typically be accessible during the months of October and November in the fall semester and March and April in the spring semester. Failure to complete the application and submit the prerequisite training documents within the designated time frame may delay the student teaching placement. Depending on the program area, students will apply either 2 or 3 semesters prior to their anticipated student teaching semester. Students should meet with their academic advisor for details on which semester to apply.

Once the application is submitted, VOSS staff (or appropriate regional campus staff) will determine eligibility by reviewing coursework, GPA, disposition assessments, and other program area requirements. Specifically, staff will review the following:

- Coursework – aside from student teaching and inquiry seminar, all coursework in the program of study must be completed with the minimum grade required in each course (i.e., a 'C' or higher in a course where the program requirements prescribe a minimum grade of C).
- GPA – confirmation that the applicant has a 2.75 cumulative GPA or higher and meets the minimum major GPA required for their program as listed in the university catalog.
- Disposition Assessments – no outstanding Professional Disposition Plans (PDPs) are permitted. An applicant with an outstanding PDP must have it cleared before beginning student teaching.
- Program Area Requirements – applicant must have completed all program requirements for their major that are outlined and specified in the university catalog.

Students should meet with their faculty and/or academic advisor in VOSS for any clarifications. Written notification of eligibility will be emailed to each applicant.

Those eligible for student teaching are required to attend a mandatory meeting where additional information about student teaching is provided. Failure to attend this meeting may result in a delay of student teaching. Placement forms, distributed at this meeting, need to be completed by the deadline.

The Clinical Experience Office will make the final decision about the placement site for the Kent Campus. Placement decisions at the Regional Campuses are made by the designated placement officer at each campus. Candidates are not to contact schools or potential mentors directly to make their own arrangements. Placements are generally made within a 50 mile radius of Kent State University. Student teaching is a full-time commitment and candidates are expected to follow the schedule of the cooperating teacher.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science in Education degree in Physical Science prepares students for teacher licensure in physics and chemistry, grades 7 to 12. Students take a broad range of science-content courses in biology and geology and specialize in physics and chemistry content.

Students in the Physical Science major complete most of their content coursework during their first three years, and then begin their methods coursework during the spring of their third year. During the final year of the program, students complete remaining content courses, science teaching methods courses and a year-long placement in a local school district, which concludes with 13 weeks of student teaching in the spring. Students are encouraged to meet with their faculty advisor early in their program because many courses must be sequenced carefully.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Reading Endorsement Preparation - Non-Degree

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Reading Endorsement Preparation non-degree program prepares students to obtain the Ohio K-12 Reading endorsement. Completion of the coursework is a prerequisite to being recommended by Kent State University for this endorsement; and endorsements are granted by the Ohio Department of Education.

This program does not culminate in a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed here for licensure.

Contact Information

- **Lori Wilfong** | lgkrug@kent.edu | 330-675-3200
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

English language and literature teachers, postsecondary

- 2.1% slower than the average
- 81,300 number of jobs
- $69,000 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 GPA on a 4.000-point scale
- Official transcript(s)
- Questions in Anticipation of Licensure Form
- 9-12 credit hours in reading coursework, depending on licensure
- Evidence of valid Resident Educator or Professional State of Ohio teaching license

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Endorsement Requirements

Code	Title	Credit Hours
Endorsement Requirements [1]		
CI 67310	THEORY AND PRACTICE IN THE TEACHING OF READING	3
CI 67319	DIAGNOSIS AND REMEDIATION IN READING	3
CI 67330	READING IN CONTENT AREAS	3
CI 67396	INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS	1
CI 67692	CLINICAL PRACTICUM IN CORRECTIVE READING	3
Minimum Total Credit Hours:		**13**

[1] Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

Graduation Requirements

- Candidates seeking Ohio teaching endorsement are required to pass specific requirements in order to apply for endorsement from the Ohio Department of Education. Students should consult the Literacy Education program for specific program requirements and refer to

the Ohio Department of Education - Educator Preparation website for more information on assessments specific to endorsement.

- Students who do not apply for endorsement within 12 months of program completion may be subject to additional course requirement, based on standards in force at the time of application.

Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): data literacy and analysis; use of research and assessment data; leadership and collaboration; utilizing and supporting appropriate technology for the discipline; and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Program Learning Outcomes

Completers of this program will be able to:

1. Articulate the foundations of reading development and instruction.
2. Plan effective lessons for students using appropriate methods, texts, strategies and goals.
3. Assess and evaluate students' literacy achievement.

Residence Requirement Policy for Non-Degree Teacher Education Licensure/ Endorsement Preparation Programs

- Non-degree licensure (initial and additional) and endorsement programs that are a total of 15 credits or above: Students must complete 60% of the coursework at Kent State University, including the course that addresses the CAEP A.1.1 Standard as designated by the program area.
- Non-degree licensure (initial and additional) and endorsement programs that are less than 15 total credits: Students must complete 100% of the coursework at Kent State University.
- Students are permitted 6 years to complete licensure programs and 4 years to complete endorsement programs at Kent State University.
- Coursework transferred from another university cannot be more than 6 years old at the time the licensure/endorsement program is completed.
- Students who do not meet the residence requirements will not be recommended for licensure by Kent State University.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Reading Specialization - M.Ed.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Master of Education degree in Literacy Specialization develops practical and professional knowledge that is essential for educators concerned with the improvement of literacy at all instructional levels. Students study the nature of the reading and writing processes; the interrelationships between language, literature and literacy; literacy learning and teaching; the nature and needs of students who find reading and writing difficult; reading and writing as vehicles for learning and enjoyment; and the role of research in literacy instruction.

Contact Information

- **Lori Wilfong** | lgkrug@kent.edu | 330-675-3200
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Online
  - **Location:**
-
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CI 67310	THEORY AND PRACTICE IN THE TEACHING OF READING [1]	3
CI 67319	DIAGNOSIS AND REMEDIATION IN READING [1]	3
CI 67330	READING IN CONTENT AREAS	3
CI 67396	INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS	1
CI 67692	CLINICAL PRACTICUM IN CORRECTIVE READING [1]	3
CI 67351	PERSPECTIVES ON LITERACY RESEARCH	3
CI 67320	TEACHER AS LITERACY RESEARCHER	3
CI 67352	LITERACY COACHING	3
CI 67353	MULTICULTURAL VOICES IN TEACHING CHILDREN'S AND YOUNG ADULT LITERATURE	3
or CULT 69521	MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY	
or CULT 69522	ETHICS IN PROFESSIONAL PRACTICE	
CI 67312	TEACHING WRITING AS A PROCESS	
CI 60169	UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES (or)	3
or CI 60171	TEACHING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS	
May be needed to complete Reading Endorsement:		3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING Course may be waived for Phonics course taken in undergraduate program	
Minimum Total Credit Hours:		**31**

[1] Courses must be taken in sequence and are required for reading endorsement. MCED 50005 may also be required for reading endorsement if the student has not taken a phonics course.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate outstanding or satisfactory knowledge of the foundations of reading and writing processes and instruction.
2. Use a wide range of instructional practices, approaches, methods and curriculum materials to support reading and writing instruction.
3. Use of a variety of assessment tools and practices to plan and evaluate effective reading instruction.
4. Create and engage their students in literacy practices that develop awareness, understanding, respect and valuing of differences in society.
5. Create a literate environment that fosters reading and writing by integrating foundational knowledge, use of instructional practices, approaches and methods, curriculum materials and the appropriate use of assessments.
6. View professional development as a career long effort and responsibility.

Secondary Education - M.A.T.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Master of Arts in Teaching in Secondary Education program is designed for individuals who are passionate about teaching and inspiring the next generation of students. With a focus on hands-on experiences, you'll gain the skills needed to develop engaging lesson plans, manage classroom dynamics and facilitate student learning. Read more...

Contact Information

- **Scott Durham** | bdurham4@kent.edu | 330-672-0637
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

Council for the Accreditation of Educator Preparation (CAEP)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Essay (1,000 words) explaining desire to teach
- Questions in Anticipation of Licensure form
- Content evaluation (to be completed before applying)
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Applicants will be assessed holistically, considering academic credentials, academic or professional references, non-academic dimensions and other specific program criteria.

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Summer Term**
  - Priority deadline: January 15

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ADED 62092	ADVANCED PRACTICUM	3
ADED 62145	PRINCIPLES OF SECONDARY TEACHING	3
ADED 62191	SEMINAR IN SECONDARY EDUCATION [1]	4
ADED 62198	RESEARCH IN SECONDARY EDUCATION	3
ADED 67147	TEACHING ADOLESCENTS IN THE SECONDARY SCHOOL CULTURE	3
CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	3
EPSY 68901	PSYCHOLOGICAL FOUNDATIONS OF EDUCATION	3
SPED 53062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
Culminating Requirement		
ADED 63192	SECONDARY EDUCATION STUDENT TEACHING INTERNSHIP [2]	9-10
Concentrations		
Choose from the following:		6-15
Art		
Chemistry/Physics		
Dance		
Earth Science		
English/Language Arts		
French		
German		
Health		
Integrated Science		
Latin		
Life Science		
Life Science-Chemistry		
Mathematics		
Music		
Physical Education		
Social Studies		
Spanish		
Minimum Total Credit Hours:		**40-49**

[1] Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

[2] Candidates seeking multi-age licensures are required to take a total of 10 credit hours of ADED 63192. Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

Art Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Methods II Course (in concentration area)		3
Minimum Total Credit Hours:		**9**

Chemistry/Physics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

Dance Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

Earth Science Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

English/Language Arts Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Methods I Course (in concentration area)		3
Methods II Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

French Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

German Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

Health Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

Integrated Science Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

Latin Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

Life Science Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

Life Science-Chemistry Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

Mathematics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Methods I Course (in concentration area)		3
Methods II Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

Music Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

Physical Education Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
PESP 55051	ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS	3
PESP 55053	ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT	3
PESP 55058	SECONDARY SCHOOL PHYSICAL EDUCATION METHODS	3
PESP 55059	SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT	3
Minimum Total Credit Hours:		**15**

Social Studies Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

Spanish Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		**6**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a plan of study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education and Workforce. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the M.A.T. degree in Secondary Education.

Program Learning Outcomes

Graduates of this program will be able to:

1. Implement current learning theories in the classroom.
2. Demonstrate continued professional development.
3. Understand the scope and sequence of curriculum in their content area for grades seven to 12.
4. Use reflection on teaching as a tool for improving teaching and student learning.
5. Incorporate the appropriate use of technology in classroom lessons to increase student learning.
6. Demonstrate how schools work and how support staff, parents and the community can be utilized to foster and improve their future students' success.
7. Recognize the importance of planning that incorporate national and state standards for their content area.
8. Develop and refine skills in planning, assessment and classroom management that maximize learning for all students.

Full Description

The Master of Arts in Teaching degree in Secondary Education serves individuals who have never held a teaching certificate or license.

There are two options of study:

1. 11-month option, which requires full-time study beginning the summer of the year admitted and continuing throughout the academic year
2. two-year option, which allows for part-time enrollment

The Secondary Education major comprises the following concentrations:

- Art
- Chemistry/Physics
- Dance
- Earth Science
- English/Language Arts
- French
- German
- Health
- Integrated Science
- Latin
- Life Science
- Life Science-Chemistry
- Mathematics
- Music
- Physical Education
- Social Studies
- Spanish

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Sport, Exercise and Performance Psychology - B.S.

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The B.S. in Sport, Exercise and Performance Psychology equips athletes, coaches and sport professionals with the mental strategies to enhance focus, motivation and resilience. Unlike traditional sport programs, this major focuses on the psychological aspects of peak performance. You will learn how confidence, anxiety and mindset impact success in sports, exercise and the performing arts. Graduates are prepared for careers in sport psychology, coaching and performance training or can pursue certification and advanced study in the field. Read more...

Contact Information

- **Marta Guivernau, Ph.D.** | mguivern@kent.edu | 330-672-7121
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery**
  - Online
  - Mostly Online
- **Location**
  - Kent Campus

Examples of Possible Careers

- Sports Performance Psychologist
- Strength and Performance Conditioning Coach
- Sports Performance Coach
- Mental Health Counselor/Athletics Embedded
- Sports Nutritionist
- Sports Medicine Fellow
- Performance Enhancement Specialists (PESs)

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
HED 46052	STRESS: RECOGNITION AND MANAGEMENT	2
PESP 25033	LIFESPAN MOTOR DEVELOPMENT	3
PESP 45015	PSYCHOLOGY OF COACHING	3
PH 30002	INTRODUCTORY BIOSTATISTICS	3
or PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	
SEPP 20026	PSYCHOLOGICAL FOUNDATIONS OF SPORT AND EXERCISE	3
SEPP 30019	PSYCHOSOCIAL PERSPECTIVES FOR GROWTH AND DEVELOPMENT IN YOUTH SPORT	3
SEPP 32250	PSYCHOLOGICAL ASPECTS OF SPORT INJURY	3
SEPP 40020	HIGH PERFORMANCE ATHLETES IN SPORT	3
SEPP 40221	EXERCISE PSYCHOLOGY	3
or PSYC 41584	THE PSYCHOLOGY OF EXERCISE	
SEPP 45007	PRINCIPLES AND APPLICATION OF SPORT PSYCHOLOGY	3
SEPP 45092	PRACTICUM IN SPORT PERFORMANCE (ELR)	3
SEPP 45300	MOTIVATION IN SPORT, PERFORMANCE, AND MOVEMENT SETTINGS	3
SEPP 48225	SPORT PERFORMANCE PSYCHOLOGICAL INTERVENTIONS	3
SPAD 25000	SPORT IN SOCIETY (DIVD)	3
SPAD 43018	ETHICS IN SPORT	3
SPAD 45020	ORGANIZATION, ADMINISTRATION AND LEADERSHIP IN SPORT	3
SPAD 45024	SPORT IN GLOBAL PERSPECTIVE	3
SPAD 45050	SOCIAL PSYCHOLOGY OF SPORT	3
Additional Requirements (courses do not count in major GPA)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Physical Activity, Wellness and Sport (PWS) Electives		2
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines) (other than PSYC)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		28
Minimum Total Credit Hours:		**120**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Students considering admission into a sport psychology graduate program should attain a higher GPA, as admission to those programs are competitive.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	SEPP 20026	PSYCHOLOGICAL FOUNDATIONS OF SPORT AND EXERCISE	3
	Physical Activity, Wellness and Sport (PWS) Elective		1
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		4
		Credit Hours	**14**
	Semester Three		
	PH 30002 or PSYC 21621	INTRODUCTORY BIOSTATISTICS or QUANTITATIVE METHODS IN PSYCHOLOGY I	3
	Physical Activity, Wellness and Sport (PWS) Elective		1
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		5
		Credit Hours	**15**
	Semester Four		
	PESP 25033	LIFESPAN MOTOR DEVELOPMENT	3
	SEPP 30019	PSYCHOSOCIAL PERSPECTIVES FOR GROWTH AND DEVELOPMENT IN YOUTH SPORT	3
	SPAD 25000	SPORT IN SOCIETY (DIVD)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	PESP 45015	PSYCHOLOGY OF COACHING	3
	SEPP 32250	PSYCHOLOGICAL ASPECTS OF SPORT INJURY	3
	SPAD 43018	ETHICS IN SPORT	3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Six		
	HED 46052	STRESS: RECOGNITION AND MANAGEMENT	2
	SEPP 40020	HIGH PERFORMANCE ATHLETES IN SPORT	3
	SEPP 40221 or PSYC 41584	EXERCISE PSYCHOLOGY or THE PSYCHOLOGY OF EXERCISE	3
	SEPP 45007	PRINCIPLES AND APPLICATION OF SPORT PSYCHOLOGY	3
	General Elective		4
		Credit Hours	**15**
	Semester Seven		
	SPAD 45020	ORGANIZATION, ADMINISTRATION AND LEADERSHIP IN SPORT	3
	SPAD 45050	SOCIAL PSYCHOLOGY OF SPORT	3
!	SEPP 45092	PRACTICUM IN SPORT PERFORMANCE (ELR)	3
	SEPP 45300	MOTIVATION IN SPORT, PERFORMANCE, AND MOVEMENT SETTINGS	3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
!	SEPP 48225	SPORT PERFORMANCE PSYCHOLOGICAL INTERVENTIONS	3
	SPAD 45024	SPORT IN GLOBAL PERSPECTIVE	3
	General Electives		9
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain the role of the individual and the environments in sport and exercise behavior.
2. Demonstrate understanding of the foundation of motivation in sport sciences, learning and personal life.
3. Define and illustrate the concepts, tools and application of mental skills and performance enhancement.
4. Design and evaluate an applied research study from inception to conclusions.
5. Define the standards for competence, domestic and global diversity and ethical principles (i.e., AASP and APA) and its role in sport psychology professional practice.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Undergraduate Graduation Requirements

- Students declared in a teacher licensure major or minor must earn a minimum C grade in all major/minor and professional coursework.
- Students declared in the Education minor must earn minimum 2.500 content GPA.
- Students may apply a maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses toward their degree.
- Students may apply a maximum of 4 credit hours of variable-titled workshop (xxx93) toward an undergraduate degree. Identical workshop topics that are repeated for credit will not count towards graduation requirements. All workshops are graded S/U (satisfactory/unsatisfactory). Some program areas may be more restrictive. Students are advised to consult their program regarding application of workshop credit toward degree requirements.

To see graduation requirements for a specific program, please select a major from the undergraduate program listing.

Full Description

The Bachelor of Science degree in Sport, Exercise and Performance Psychology provide students, athletes and those preparing for careers as coaches and sport practitioners with the knowledge of psychological theory and skills to enhance human behavior in the sport and exercise settings and the performing arts. The major differs from existing sport-related bachelor's degree programs due to its focus on psychological processes related to sport performance, as opposed to existing programs that focus on pedagogical, physiological or the business aspects of sport performance.

The Sport, Exercise and Performance Psychology major explores social-psychological concepts such as motivation, self-confidence, anxiety or burnout, and how these concepts interact with the sport environment to influence athletes (e.g., losing focus under pressure or having self-doubts during a game) and performance. The program prepares students with essential knowledge of psychological aspects of sport performance and ethical practice to work in wide-ranging sport-related fields or to further their education in their chosen careers via graduate programs and mental performance certification by the Association of Applied Sport Psychology.

Sport, Exercise and Performance Psychology - Minor

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Sport, Exercise and Performance Psychology minor provides students, athletes and those preparing for careers in coaching, performing arts, sport practitioners and sport administrators with the knowledge of psychological theory and skills development to enhance human behavior in sport and exercise settings and artistic performance. The minor explores social-psychological concepts such as motivation, self-confidence, concentration, anxiety or burnout, and how these concepts can influence a sport environment (e.g., losing focus under pressure or self-doubt during a game), and the performing and creative artistic domain (e.g., lifestyle stresses, self-esteem or confidence.) Students are prepared to work in a wide-range of sport-related fields or to further their education in their chosen careers by continuing to a graduate program and certification.

Contact Information

- **Marta Guivernau, Ph.D.** | mguivern@kent.edu | 330-672-7121
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus

- Trumbull Campus
- Tuscarawas Campus
- Online (any campus above)

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Kent Campus

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
PESP 45015	PSYCHOLOGY OF COACHING	3
PSYC 41584	THE PSYCHOLOGY OF EXERCISE	3
or SEPP 40221	EXERCISE PSYCHOLOGY	
SEPP 20026	PSYCHOLOGICAL FOUNDATIONS OF SPORT AND EXERCISE	3
SEPP 45007	PRINCIPLES AND APPLICATION OF SPORT PSYCHOLOGY	3
SEPP 45300	MOTIVATION IN SPORT, PERFORMANCE, AND MOVEMENT SETTINGS	3
Minor Elective, choose from the following:		2-3
ATTR 43018	ETHICAL LEADERSHIP FOR HEALTH CARE (WIC)	
HED 46052	STRESS: RECOGNITION AND MANAGEMENT	
PESP 25033	LIFESPAN MOTOR DEVELOPMENT	
PESP 45020	CONTEMPORARY ATHLETIC COACHING	
SEPP 40020	HIGH PERFORMANCE ATHLETES IN SPORT	
SPAD 25000	SPORT IN SOCIETY (DIVD)	
SPAD 45024	SPORT IN GLOBAL PERSPECTIVE	
Course approved by faculty advisor		
Minimum Total Credit Hours:		**17**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Gain knowledge and skills on the influences of the psychological aspects of exercise, injury and physical activity on performance.
2. Achieve a greater understanding of performance and achievement within the context of sport at a variety of levels, with diverse populations and in many different sports.
3. Consider a holistic perspective of sport, which includes athlete-centered coaching, cultural competence, development of character and life lessons through youth sport.
4. Demonstrate cultural competence, effective leadership and ethical decision-making skills.

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Teaching and Learning with Technology - Minor

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Teaching and Learning with Technology minor will equip you with the skills and knowledge to integrate technology into your teaching strategies, enhancing student learning and engagement. Read more...

Contact Information

- **Jiahui Wang** | jwang79@kent.edu | 330-672-0664
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Kent Campus (hybrid online/on-ground)

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
ETEC 47400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
ETEC 47427	TECHNOLOGY AND LEARNING	3
Minor Electives, choose from the following:		6
EMAT 21000	INTRODUCTION TO WEB DESIGN	
EMAT 25310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
ETEC 47403	INSTRUCTIONAL DESIGN	
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	
IT 13000	APPLIED SECURITY ESSENTIALS	
IT 41010	MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY	
PH 20010	INTRODUCTION TO PUBLIC HEALTH INFORMATICS	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of the program will be able to:

1. Identify and evaluate main factors and processes related the role of technology in improving learning and teaching practices at any level, from preK-12 education to professional development needs
2. Deploy learning technologies and related strategies to fields like public health and communication
3. Design technology-mediated solutions for improving education and related best practices
4. Develop interventions for increasing learning outcomes and performances in education, communication, and public health

Admission GPA for Undergraduate Students

For admissions, the College of Education, Health and Human Services considers a student to have established a Kent State University GPA after the student has successfully completed a minimum of 12 Kent State University credit hours. Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for admission into programs, Advanced Study, and the Professional phase based on their high school GPA for new freshmen, or transfer GPA for transfer students. Once a student has successfully completed a minimum of 12 Kent State University credit hours, only the student's Kent State cumulative GPA will be considered for admission into a program, Advanced Study, and Professional Phase.

Students who have completed 12 or more credit hours of previous college-level coursework, either at Kent State University or at another accredited institution, need an overal GPA of 2.00 or higher to declare a College of Education, Health and Human Services majors, minors or certificates unless a higher minimum GPA is specified by the program. See specific programs in this catalog for more information on required minimum GPA to declare. Non-degree EHHS General can be declared without a minimum 2.00 overall GPA.

Transfer applicants who have completed fewer than 12 semester hours of college-level coursework will be evaluated on both collegiate and high school records.

Full Description

The Teaching and Learning with Technology minor will provide students with the tools to acquire the knowledge and concrete skills to deploy educational technology theories and strategies in multiple fields while working at educational institutions, communication-related companies, public health entities and other industries.

This certificate is for both students in an education or non-education major. Education students will strengthen their know-how in learning innovations while being exposed to interdisciplinary stimuli and references and expanding their professional and academic horizon. Non-education students will access the most recent best practices in educational technology, applying them in their own field of reference and beyond.

Teaching and Learning with Technology - Undergraduate Certificate

College of Education Health and Human Services
School of Teaching, Learning and Curriculum Studies
www.kent.edu/ehhs/tlcs

About This Program

The Teaching and Learning with Technology undergraduate certificate program will help you develop the skills and knowledge to integrate technology into your teaching to engage and inspire students in new and exciting ways. Explore the potential of technology to transform the classroom and shape the future of education. Read more...

Contact Information

- **Jiahui Wang** | jwang79@kent.edu | 330-672-0664
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Instructional coordinators

- 5.9% faster than the average
- 192,900 number of jobs
- $66,970 potential earnings

Librarians and media collections specialists

- 5.0% faster than the average
- 146,500 number of jobs
- $60,820 potential earnings

Training and development specialists

- 8.6% much faster than the average
- 327,900 number of jobs
- $62,700 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Code	Title	Credit Hours
Certificate Requirements		
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
ETEC 47400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
ETEC 47427	TECHNOLOGY AND LEARNING	3
ETEC 47496	INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY	1-3
Certificate Electives, choose from the following		6
EMAT 21000	INTRODUCTION TO WEB DESIGN	
ETEC 47403	INSTRUCTIONAL DESIGN	
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
IT 13000	APPLIED SECURITY ESSENTIALS	

IT 41010	MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN

Minimum Total Credit Hours: **16**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify and evaluate main factors and processes related the role of technology in improving learning and teaching practices at any level, from preK-12 education to professional development needs
2. Deploy learning technologies and related strategies to fields like public health and communication
3. Design technology-mediated solutions for improving education and related best practices
4. Develop interventions for increasing learning outcomes and performances in education, communication and public health

Full Description

The Teaching and Learning with Technology undergraduate certificate provides students with the tools to acquire the knowledge and concrete skills to deploy educational technology theories and strategies in multiple fields while working at educational institutions, communication-related companies, public health entities and other industries.

This certificate is for both students in an education or non-education field. Education students will strengthen their know-how in learning innovations while being exposed to interdisciplinary stimuli and references and expanding their professional and academic horizon. Non-education students will access the most recent best practices in educational technology, applying them in their own field of reference and beyond.

College of Nursing

College of Nursing
Henderson Hall
Kent Campus
330-672-7930
nursing@kent.edu
www.kent.edu/nursing

Undergraduate Programs

- Nursing - B.S.N.
- Nursing for Registered Nurses - B.S.N.

Graduate Programs

- Nursing - M.S.N.
- Nursing - D.N.P.
- Nursing - Ph.D.

Certificates

Graduate Certificates

- Adult/Adolescent Sexual Assault Nurse Examiner
- Adult Gerontology Acute Care Nurse Practitioner
- Adult Gerontology Clinical Nurse Specialist
- Adult Gerontology Primary Care Nurse Practitioner
- Family Nurse Practitioner
- Nurse Educator
- Nursing Administration and Health Systems Leadership
- Pediatric Primary Care Nurse Practitioner
- Psychiatric Mental Health Nurse Practitioner
- Women's Health Nurse Practitioner

College Policies

Assigning Out-of-Sequence Students to Clinical Nursing Courses

1. Students are responsible for contacting Student Services, Room 216, Henderson Hall to make arrangements for repeating a nursing course.
2. Readmission to the B.S.N. sequence for any reason is on a "space available" basis. Students already progressing in sequence have priority in placement over those requesting re-enrollment. Accelerated B.S.N. students have priority in summer scheduling.
3. Students are enrolled in courses using the following guidelines in order:
   a. Are in good standing but lost a semester with verified illness or military service.
   b. Have failed and successfully repeated a clinical course.
   c. Have withdrawn from one course.
   d. Have withdrawn from a course more than once.
   e. Cumulative grade point average at the time of registration.

Changing Campuses

1. Traditional and Accelerated B.S.N. students are admitted by campus and are required to complete the B.S.N. program at their admitted campus of origin.
2. Students wishing to change campuses during their program must comply with the following guidelines in order:
   a. Once campus rosters have been set based on the procedure for assigning students, students who are in-sequence and approved to switch campuses by the Associate Dean of Academics may be placed.
   b. Students who are out of sequence may switch campuses in order to repeat courses based on the order established for assigning out-of-sequence students. No approval by the Associate Dean of Academics is needed in this instance. Students will be directed to return to their campus of origin, once they have successfully repeated their course at another campus.
   c. Students should complete the Changing Campus Request Form to initiate a change.

Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is

approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.
3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Course Withdrawal Policy

Students in the B.S.N. degree who withdraw from two NURS courses or from the same NURS course twice (i.e., W administrative mark on the student's transcript) will have that course or courses count as one failure in their program.

The following courses are excluded from the policy:

- NURS 10060
- NURS 20950
- NURS 31010

Not Permitted to Continue Policy within the College of Nursing

1. Undergraduate students who fail two NURS courses or one NURS course twice will not be permitted to continue in the professional nursing sequence.
   a. Exempt from the policy are the following courses: NURS 10060, NURS 20950 and approved topics under NURS 31095 or NURS 41095.
2. Students who have been reinstated into the B.S.N. degree and then fail one NURS course after reinstatement will not be permitted to continue in the major.
3. Students must have a minimum 2.000 overall GPA each semester to continue in the B.S.N. degree. Failure to achieve this GPA each semester will result in the student not being permitted to continue in the B.S.N. degree.
4. The College of Nursing retains the right to not permit a student to continue in the B.S.N. degree if deemed to violate:
   a. Any policy within the College of Nursing student handbooks or of affiliating facilities.
   b. Professional behavior and role development standards as outlined in College of Nursing, university or affiliating agency policies or handbooks.
5. Students who have been reinstated into the professional nursing sequence must earn a minimum C grade in all NURS courses. Failure to do so will result in those students being not permitted to continue in the professional nursing sequence.

Reinstatement Into the College of Nursing

Applications for readmission to the College of Nursing following Not Permitted to Continue will be reviewed on an individual basis. Students wishing to appeal their Not Permitted to Continue decision should contact the Office of Student Services in Henderson Hall for the detailed procedure related to such an appeal.

Repeat of Nursing Courses

1. A student who does not attain a GPA of 2.000 (grade of C) in a nursing clinical course cannot proceed to the next academic level. A student who does not earn a 2.000 (grade of C) in a nursing course must repeat this course based on seat availability.
2. A student can repeat a single nursing course only one time. A student who earns below a 2.000 (grade of C) in a second (or is repeating a failure) nursing course will be not be permitted to continue in the program within the College of Nursing.
3. This policy excludes NURS 10060, NURS 20950 and NURS 31010.

4. Accelerated B.S.N. students who fail a course will no longer continue in the Accelerated concentration , but can continue in the Traditional B.S.N. program

Science GPA Calculation Policy

The first-year science GPA is calculated using the highest grade earned for each of the prerequisite science courses in the B.S.N. degree.

Time Limit for Graduate Nursing Courses

Certain courses are critical to be completed within a timely manner for patient safety as well as student success in the program. This policy ensures that clinical skills and critical knowledge learned in specific courses taken three or more years ago are refreshed before moving to more advanced levels of practice.

Students who have stopped out of the clinical sequence of courses for a period of time must repeat the following practicum and corequisite lecture courses if they are three of more years old:

- NURS 60110 and NURS 61192
- NURS 60120 and NURS 61292
- NURS 60125 and NURS 61892
- NURS 60126 and NURS 61392
- NURS 60126 and NURS 61892
- NURS 60129 and NURS 61092
- NURS 60151 and NURS 61592
- NURS 60160 and NURS 61692
- NURS 60170 and NURS 61792
- NURS 60210 and NURS 62192
- NURS 60220 and NURS 62292
- NURS 60230 and NURS 62392
- NURS 60251 and NURS 63592
- NURS 60270 and NURS 62792
- NURS 60310 and NURS 63192
- NURS 60320 and NURS 63692
- NURS 60325 and NURS 63292
- NURS 60330 and NURS 63392
- NURS 60353 and NURS 64592
- NURS 60370 and NURS 63792
- NURS 60372 and NURS 63992
- NURS 60470 and NURS 64792
- NURS 62592
- NURS 66100 and NURS 66192
- NURS 66200 and NURS 66292
- NURS 66300 and NURS 66392
- NURS 66400 and NURS 66492

Certifying agencies and state licensing requirements for advanced practice registered nurses have time limits for critical courses. Courses completed outside of this time frame may need to be repeated prior to seeking national certification. Students are advised to check with certifying agencies and state licensing agencies upon admission to determine if the age of their prior courses will meet requirements.

Uniform for Clinical Experience

1. The uniform consists of a white tunic top and blue pants embroidered with the Kent State University College of Nursing logo. Any student expecting a modification of the uniform should speak first with the Kent State University Associate Dean of Undergraduate Programs.
2. Students are required to purchase two sets of the official embroidered uniform, an embroidered white scrub jacket, and the required College of Nursing name tag, which must be worn at all times during each clinical experience (per Ohio Board of Nursing). Uniforms may only be purchased from the uniform company authorized to sell official Kent State University College of Nursing uniforms.
3. Female students who need a maternity uniform should contact the official Kent State University College of Nursing uniform company to purchase a maternity uniform embroidered with the Kent State University College of Nursing logo, similar to the typical tunic and pants.
4. Students requiring a uniform dress to meet religious guidelines should contact the official Kent State University College of Nursing uniform company to purchase a uniform embroidered with the Kent State University College of Nursing logo dress similar in style to the tunic top.
5. In selected areas such as obstetrics, community health, and psychiatric/mental health, scrubs or street clothes are worn. Specific apparel requirements for these areas are provided by the affiliating clinical agencies, the course syllabus and/or the faculty.
6. It is required that baccalaureate nursing students dress in a professional manner at all times in the clinical area. In order to maintain a professional appearance, a limited number of accessories may be worn with the uniform:
   a. A watch with a second hand, a single pair of plain gold or silver posts worn in the lower ear lobe of pierced ears and a wedding band are acceptable in most settings.
   b. A chain that does not show when worn may also be acceptable, depending on the clinical agency.
   c. Not permitted in the clinical area are visible piercings with jewelry in places other than the lower ear lobes (e.g. upper ear, nose, tongue, eyebrows, etc.). All open piercing must remain empty. Spacers are not permitted while attending clinical experiences.
7. While at the clinical agency, tattoos must be covered with a long sleeve top, white or neutral undershirt, socks or dressing/band aid.
8. If nail polish is worn, only a clear or light, neutral shade is permitted. Nails should be trimmed to avoid extending beyond the end of the fingers. Per OSHA rules, artificial nails may not be worn in any clinical facility.
9. Hair should be neat and worn above the collar in a style becoming to the person. If hair is longer than collar length, it must be pulled back to avoid contact with patients while performing procedures. Hair of unnatural color is unacceptable. Established beards are to be neatly trimmed. Males without beards are to be clean shaven.
10. Prior to the first clinical experience, students are required to provide documentation to the Assistant Dean of the Undergraduate program if they must adhere to specific religious dress and head covering restrictions
11. Shoes should be clean and in good repair. With the official Kent State University College of Nursing uniform, students may wear white nursing shoes; white, closed front clogs with backs; or white, leather athletic shoes, without large or colorful logos.

12. At all times during clinical experiences, students must adhere to the uniform code of Kent State University College of Nursing. Clinical agency policies may be more restrictive and require further or additional accommodations by students.

College of Nursing Faculty

- Aller, Loretta J. (2010), Assistant Professor, Ph.D., Kent State University, 2019
- Bacha, Mary B. (2007), Associate Lecturer, M.S.N., Kent State University, 1983
- Beckley, Lyndy E. (2017), Associate Lecturer, M.S.N., Kent State University, 2016
- Biggs, Jennifer R. (2011), Senior Lecturer, M.S.N., Kent State University, 2011
- Bixler, Sarah (2013), Associate Lecturer, M.S.N., Kent State University, 2014
- Blackwell, James (2018), Lecturer, M.S.N., Kent State University, 2018
- Bowen, Lucas S. (2013), Associate Lecturer, M.S.N., Kent State University, 2015
- Bracken-Ott, Heather L. (2017), Associate Lecturer, M.S., Chamberlain College of Nursing, Addison, 2017
- Brady, Cheryl L. (1994), Professor, M.S.N., University of Akron, 1994
- Brison, Laura J. (2007), Senior Lecturer, M.A.T., Marygrove College, 2003
- Burhanna, Taryn R. (2006), Associate Lecturer, M.S.N., Kent State University, 2018
- Cascarelli, Lisa J. (2012), Assistant Professor, D.N.P., Case Western Reserve University, 2020
- Cifani, Debra K. (2009), Professor, D.N.P., Kent State University, 2017
- Cleveland, Kimberly A. (2015), Associate Professor, J.D., Cleveland Marshall College of Law, 2003
- Colwell, Alice (2008), Senior Lecturer, M.S.N., Kent State University, 2011
- Davis, Lisa M. (2016), Associate Lecturer, M.S.N., Kent State University-Stark Campus, 2016
- DePaul, Kimberly E. (2011), Associate Lecturer, M.S.N., Kent State University, 2013
- Dodson, Tracy M. (2016), Associate Professor, Ph.D., Kent State University, 2022
- Dwinnells, Kathleen M. (1994), Professor, Ph.D., Kent State University, 2017
- Dyer, Melissa B. (2007), Senior Lecturer, M.S.N., Kent State University, 2003
- Edmondson, Meghan (2023), Assistant Professor
- Eisenhart, Logan (2022), Lecturer, Ohio University, 2022
- Fisher, Benita L. (2008), Associate Lecturer, M.S.N., Case Western Reserve University, 1992
- Fleming, Diana L. (2007), Professor, Ph.D., Kent State University, 2020
- Fox, Tamara A. (2006), Lecturer, M.S.N., Ursuline College, 2001
- Gidden, Tracy L. (2003), Senior Lecturer, M.S.N., Kent State University, 1996
- Haag, Kimberly Ann (2019), Lecturer, M.S., Kent State University, 2019
- Hansen, Dana M. (2012), Associate Professor, Ph.D., Case Western Reserve University, 2013
- Hawkins, Krista L. (2009), Associate Lecturer, M.S.N., Kent State University, Salem, 2017
- Hill, Diane S. (2007), Senior Lecturer, M.S.N., Kent State University, 1993
- Howell, Christina M. (2019), Lecturer, M.S.N., Walden University, 2018
- James, Ann M. (2013), Associate Lecturer, M.S.N., Kent State University, 2015
- Jarzembak, Jeremy M. (1994), Professor, M.A., Kent State University, 2002
- Johnson-Mallard, Versie (2021), Professor
- Kauth, Christine (1993), Professor, Ph.D., Capella University, 2016
- Knox, Louise H. (2012), Professor, D.N.P., Case Western Reserve University, 1998
- Kutchin, Mary F. (2006), Professor, Ph.D., Kent State University, 2022
- Larubina, Jessica L. (2019), Lecturer, M.S.N., Walden University, 2012
- Lickwar, Alisha (2017), Assistant Professor, M.S.N., Kent State University, 2017
- Lukach, Mary B. (1993), Senior Lecturer, M.S.N., Kent State University, 1992
- Martin, Lorene S. (2004), Senior Lecturer, M.S.N., Kent State University, 2005
- Mascolo, Karen L. (2011), Professor, D.N.P., The Ohio State University, 2011
- Metheney, Jennifer R. (2006), Senior Lecturer, M.S.N., Kent State University, 2005
- Miner, Stacy (2021), Assistant Professor
- Mittas, Lisa L. (2016), Lecturer, Walden University, 2012
- Motter, Tracey M. (1993), Associate Professor, D.N.P., Kent State University, 2016
- Mountain, Cherie (2011), Associate Lecturer, M.S.N., Walden University, Baltimore, 2008
- Murphy, Tara L. (2015), Lecturer, M.S.N., Aspen University, 2018
- Myers, Kerry H. (2013), Associate Lecturer, M.S.N., Kent State University, 2013
- Nelson, Andrea L. (2019), Lecturer, University of Akron, 2011
- Nibling, Marilyn (2008), Associate Professor, D.N.P., University of Akron, 2015
- Nicholson, Jacob R. (2015), Lecturer, M.S.N., Kent State University, 2019
- Onesko, Lisa M. (2008), Professor, D.N.P., Rush University, 2013
- Pacholski, Denise C. (2008), Associate Lecturer, M.S.N., University of Akron, 2000
- Petrinec, Amy B. (2016), Associate Professor, Ph.D., Case Western Reserve University, 2014
- Reed, Janet M. (2013), Assistant Professor, Ph.D., Kent State University, 2022
- Revlock, Marna M. (2016), Lecturer, M.S.N., Kent State University, 2017
- Robinson, Laurie B. (2015), Associate Lecturer, M.S.N., Kent State University, 2016
- Saunders, Tina L. (2006), Professor, Ph.D., Kent State University, 2023
- Severino, Gina M. (2006), Professor, M.S.N., Youngstown State University, 2006
- Stephenson, Pamela L. (2009), Associate Professor, Ph.D., Kent State University, 2011
- Thomas, Elaine (2002), Senior Lecturer, M.S.N., University of Akron, 2000

- Tudhope, James (2015), Assistant Professor, Ph.D., Kent State University, 2019
- Walker, Lynne J. (2012), Associate Lecturer, M.S.N., Kent State University, 2011
- Wang, Yafen (2013), Associate Professor, Ph.D., Case Western Reserve University, 2013
- Warner-Stidham, Andrea M. (1994), Assistant Professor, M.S.N., Kent State University, 2013
- Weil, Heather (2012), Associate Lecturer, M.S.N., University of Phoenix, 2012
- Wilk, Cindy A. (2003), Professor, Ph.D., Kent State University, 2023

Nursing (NURS)

NURS 10060 INTRODUCTION TO PROFESSIONAL NURSING PRACTICE 3 Credit Hours

Focus on nursing's development as a discipline and profession. The art and science of nursing including the Scope and Standards of Practice, nursing theory, evidence based practice, and therapeutic communication will be explored.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 20005 CLINICAL CALCULATIONS IN NURSING I 1 Credit Hour

This course focuses on essential mathematical and reasoning skills that are required for clinical nursing care. Content includes converting units of measure, calculating dosages and interpreting the language of medication administration. Students must be admitted to the professional nursing sequence.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NURS 20015 CLINICAL CALCULATIONS IN NURSING II 2 Credit Hours

Clinical Calculations II continues to focus on essential mathematical and reasoning skills that are required for clinical nursing care including safe medication administration. Introduces calculations required for parenteral medication administration and beginning competencies for clinical application.
Prerequisite: NURS 20005 and NURS 20020 with a minimum grade of C.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 20020 FOUNDATIONS OF ASSESSMENT AND COMMUNICATION IN NURSING 3 Credit Hours

Individuals are assessed as members of families and community members. Communication in nursing is explored. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

NURS 20025 PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING I 3 Credit Hours

Introduction to the basic principles of pathophysiology and pharmacology. Course offers a general understanding of pathophysiologic processes of body systems and the major classes of pharmacotherapeutic agents that are used to treat these pathophysiologic processes. The course focuses on mechanisms of action, effects of medications, pharmacodynamics, pharmacokinetics, as well as principles that guide the administration of medications, dosage and nursing responsibilities. Age and cultural differences related medication administration are addressed throughout the course. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: NURS 20020 or NURS 20040 (as a corequisite); and Nursing major; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 20030 FOUNDATIONS OF NURSING INTERVENTIONS 5 Credit Hours

Foundations of nursing interventions enables students to continue to develop nursing knowledge and skills to improve the health of individuals. It requires the use of evidence-based practice, professional communication, safety principles, clinical judgment and the nursing process. This course introduces person-centered care to adults in a clinical setting.
Prerequisite: NURS 20020 with minimum C grade.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 2 lecture, 2.4 lab, 5.2 other
Grade Mode: Standard Letter

NURS 20035 ACCELERATED CLINICAL CALCULATIONS 2 Credit Hours

This course focuses on essential mathematical and reasoning skills that are required for safe clinical practice. Content includes converting units of measure, calculating dosages, interpreting the language of medication administration, calculations required for parenteral medication administration, and competencies for clinical application.
Pre/corequisite: NURS 20040.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 20040 FUNDAMENTALS OF NURSING 8 Credit Hours

Course focuses on selected aspects of nursing care to improve the health of individuals within families and communities. Individuals are assessed as members of families and community members. Communication in nursing is explored. Principles of the interpersonal process, nursing process and professional nursing are utilized. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: CHEM 10050 or CHEM 10055 or CHEM 10060; and BSCI 21010 and BSCI 21020; and BSCI 20021 or BSCI 30171; and special approval.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 4 lecture, 4 lab, 6 other
Grade Mode: Standard Letter

NURS 20950 HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS 3 Credit Hours
Examines theoretical principles and concepts of human growth and development throughout the life cycle applicable to personal and professional activities essential to the accurate assessment of human needs and understanding human behaviors.
Prerequisite: PSYC 11762; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: CTAG Nursing/Associate Degree, ITAG Nursing/Associate Degree

NURS 21095 SPECIAL TOPICS IN NURSING 2-4 Credit Hours
(Repeatable for credit)Scheduled topics of interest to faculty and students.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter

NURS 21096 INDIVIDUAL INVESTIGATION IN NURSING 2-4 Credit Hours
(Repeatable for credit) Designed for the student interested in exploration and research of material not covered in required nursing courses.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-4 other
Grade Mode: Standard Letter

NURS 30010 PARENT AND NEWBORN NURSING 4 Credit Hours
This course prepares students to deliver high-quality and safe nursing care to the childbearing person, family and neonate. It integrates the nursing process, evidence-based practice, critical thinking, interprofessional partnerships, social determinants of health and person-centered culturally sensitive care. A holistic approach is used to implement the nursing process for obstetrical and neonatal populations. Course content ranges from pre-conception to the postpartum and neonatal periods. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: Minimum C grade in NURS 20020 and NURS 20030 or in NURS 20040; and NURS 20950.
Corequisite: NURS 30020.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 2 lecture, .8 lab, 4 other
Grade Mode: Standard Letter

NURS 30015 PHARMACOLOGY FOR INFANTS, CHILDREN AND MATERNAL CHILD HEALTH 3 Credit Hours
(Repeatable for credit) Provides additional information to better understand the complexity of pediatric medications and their safe delivery to pediatric patients of all ages. Also, identifies safe practices for medication administration to mothers and their newborns.
Pre/corequisite: NURS 30010 or NURS 30020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 30020 HEALTH CARE OF CHILDREN 4 Credit Hours
Course prepares students to provide comprehensive healthcare to a diverse population of children and their families through the incorporation of developmental theories and evidence-based concepts specific to children.
Prerequisite: Minimum C grade in NURS 20020 and NURS 20030 or in NURS 20040.
Corequisite: NURS 30010.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 2 lecture, .53 lab, 4 other
Grade Mode: Standard Letter

NURS 30025 PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING II 3 Credit Hours
This course is a continuation of the study of pathophysiology and pharmacology for nursing students. It provides a deeper understanding of pathophysiologic processes of body systems, the management of disease states, interpretation of lab values and the analysis of symptomology and nursing indicators to allow students to initiate appropriate nursing actions as related to pharmacology and pathophysiology. This course explores assessment of therapeutic effects, side effects and adverse reactions of medications; it presents teaching skills needed to enhance patient education and pharmacologic literacy. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: NURS 20025 with a minimum C grade; and Nursing major; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 30035 NURSING OF ADULTS ACROSS THE LIFESPAN 9 Credit Hours
Course emphasizes the care of adults, focused on health promotion, prevention of episodic illness and maintenance of health status. Gerontologic changes and rehabilitation needs are addressed. Utilizes nursing process as a foundation to provide nursing care. Course is composed of classroom and clinical experience in the acute, chronic and rehabilitation care settings. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able to register for this course.
Prerequisite: Minimum C grade in the following courses: (NURS 20005 and NURS 20015) or NURS 20035; and (NURS 20020 and NURS 20030) or NURS 20040; and NURS 20950.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 5 lecture, 1.6 lab, 8 other
Grade Mode: Standard Letter

NURS 30050 BASIC NURSING INFORMATICS 2 Credit Hours
Focuses on the use of nursing informatics for clinical nursing practice, inquiry and communication. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: NURS 20020 with a minimum C grade; and NURS 20030 or NURS 20040 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 30070 HEALTH CARE POLICY (WIC) 3 Credit Hours
This course looks at the organizational and societal context in which health care is delivered in the United States. The course is a comprehensive introduction to health policy that prepares students to participate in eliminating health inequity through the application of the policy process and advocacy skills beyond the bedside. It focuses on the role of the nurse in advocating for individuals using effective professional written and oral communication at the organizational, state and federal levels. The course explores the distinction between regulations, laws and policies through the exploration of contemporary and historical health policy considerations that impact the cost, quality and access to healthcare. The course emphasizes the use of various professional and public resources and evidence from the profession of nursing to inform policy.
Prerequisite: NURS 20030 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

NURS 30071 HEALTH CARE POLICY FOR THE B.S.N. NURSE 2 Credit Hours
This course looks at the organizational and societal context in which health care is delivered in the United States. The course is a comprehensive introduction to health policy that prepares students to participate in eliminating health inequity through the application of the policy process and advocacy skills beyond the bedside. It focuses on the role of the nurse in advocating for individuals using effective professional written and oral communication at the organizational, state and federal levels. The course explores the distinction between regulations, laws and policies through the exploration of contemporary and historical health policy considerations that impact the cost, quality and access to healthcare. The course emphasizes the use of various professional and public resources and evidence from the profession of nursing to inform policy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 31010 APPLICATIONS FOR STATISTICAL FINDINGS FOR EVIDENCE BASED PRACTICE 3 Credit Hours
An introduction to statistical techniques with an emphasis on application in the health care setting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 31095 SPECIAL TOPICS IN NURSING 2-4 Credit Hours
(Repeatable for credit)Scheduled topics of interest to faculty and students.
Prerequisite: NURS 20950.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter

NURS 31096 INDIVIDUAL INVESTIGATION 2-4 Credit Hours
(Repeatable for credit)Designed for the student interested in exploration and research of material not covered in required nursing courses.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-4 other
Grade Mode: Standard Letter

NURS 32060 TRANSCULTURAL NURSING ADVANCING CULTURAL HUMILITY 2 Credit Hours
This course provides students with the opportunity to explore and understand the role of the transcultural nurse and the significance of cultural humility. Cultural humility serves as the basis for good moral education toward optimal healthcare and culturally competent and effective nursing care. Cultural humility recognizes that growth toward intercultural competence requires a lifelong journey of learning about and experiencing other cultures.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Laboratory, Combined Lecture and Lab, Seminar
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

NURS 35020 TRANSCULTURAL NURSING AND HEALTH CARE 3 Credit Hours
Provides students with the opportunity to explore and understand the role of the transcultural nurse in the care of patients from multiple and diverse cultural groups.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 35040 COMPLEMENTARY AND INTEGRATIVE HEALTH 3 Credit Hours
(Repeatable for credit) Explores and critically analyzes complementary and integrative health therapies, products, and supplements primarily being used in the United States through the review of evidenced based research and case studies. Synthesizing the exploration of complementary and integrative health practices that are often used in conjunction with traditional Western medicine, students examine the evolving Integrative Health, which has also been called Integrative Medicine, or Complementary and Alternative Medicine.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 35050 ADVANCED MEDICAL SURGICAL SIMULATION 3 Credit Hours
Provides students opportunities for critical thinking and decision making through the use of human patient simulation. Theory, content and hands on application advance students' clinical judgement and competence in caring for patients of advancing complexity and those in crisis situations.
Prerequisite: NURS 20030 with a minimum C grade.
Corequisite: NURS 30010, NURS 30020 and NURS 30035.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 lecture, 1.5 lab
Grade Mode: Standard Letter

NURS 35060 CRITICAL THINKING AND TEST TAKING SKILLS 2 Credit Hours
(Repeatable once for credit) The focus of this course is to understand the art of analyzing and evaluating one's thinking. The focus is on how a person thinks and how they can improve their thinking. This course is designed for nursing students seeking to expand their critical thinking ability and improve studying and test taking skills. This course promotes analysis and evaluation of problem solving abilities and requires self-directed, self-disciplined and corrective thinking. The student will explore and develop individual plans with the course faculty person to improve their studying and test taking skills.
Prerequisite: Enrolled in the college of nursing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 35065 STUDENTS HELPING STUDENTS: A STUDENT MENTORING COURSE 2 Credit Hours
(Repeatable once for credit) This course is designed for the junior or senior student that has demonstrated a strong understanding of one or more course topics and who desires to function in the role of a mentor or tutor. Throughout the course the student will utilize skills learned in the course while engaging in a mentor tutor relationship with students of a lower class rank in need of mentoring and or tutoring.
Prerequisite: Nursing major; and junior and senior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 35070 NURSING ETHICS IN CLINICAL PRACTICE 3 Credit Hours
This course focuses on the principles and the theories related to the ethical challenges faced by today's health care professionals. It explores the ethical obligations of the professional nurse's role as a member of the interdisciplinary team, provider, leader and manager of care. This course further emphasizes methods of analyzing and resolving moral dilemmas using clinical decision making skills that can be applied to the clinical setting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 35075 INTRODUCTION TO FORENSIC NURSING 3 Credit Hours
This course will explore the basic concepts and foundations of forensic nursing in both criminal and civil contexts. The different roles and responsibilities of the forensic nurse in the investigation of violence and trauma, as well as the integration of scientific, ethical and legal principles into the acute care and community nursing practice will be examined. Providing specialized, holistic care of victims and families will be stressed. Students will review victimology, evaluate prevalent population-based health issues and explore forensic nursing interventions.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 35080 CONTEMPORARY ISSUES IN NURSING PRACTICE AND HEALTH CARE 3 Credit Hours
This course provides the student an opportunity to focus on diverse contemporary issues in professional nursing practice and the health care environment. Content promotes critical thinking pertaining to emerging issues in society and how the topics impact practicing nurses, the nursing profession, the delivery of care, and the health-wellness continuum. This course will encompass evidence-based theory, which correlates with the relevant issues and explores avenues for improved health care.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 40003 COMPARATIVE HEALTH CARE: NURSING IN NORTHERN IRELAND 2-3 Credit Hours
Includes a 2 week intensive study abroad that is conducted in Northern Ireland and includes seminars at the University of Ulster and in select clinical settings. Students examine the cultural, political and economic forces influencing health care and nursing needs; status of nursing education, licensure and practice; and health disparities in Northern Ireland and compare them to the United States. An additional 1 credit hour web-based option is offered the week immediately following the 2 weeks in Northern Ireland for students who choose the 3 credit hour option.
Prerequisite: Minimum 2.750 overall GPA; and special approval.
Schedule Type: Clinical Laboratory, Seminar
Contact Hours: 2-3 other
Grade Mode: Standard Letter

NURS 40005 PROFESSIONAL NURSING DEVELOPMENT 3 Credit Hours
This course focuses on professional development and transition from student to graduate nurse. Emphasis is on professional role development through exploration of contemporary nursing issues in healthcare economics; diversity, equity and inclusion of the workforce; nursing theory; the future of nursing and health care; and the importance of self-care and lifelong learning. Students are encouraged to apply critical thinking strategies and self-reflection during classroom discussions, assignments and presentations.
Prerequisite: NURS 30010 and NURS 30020 with minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 40010 NURSING OF THE CRITICALLY ILL 4 Credit Hours
This course integrates nursing concepts to prepare students to deliver person centered care through interprofessional partnerships to promote culturally sensitive and appropriate care in the critical care setting. A holistic approach is used to implement the nursing process for critically ill persons.
Prerequisite: Minimum C grade in NURS 30010 and NURS 30020 and NURS 30025 and NURS 30035 and NURS 30050.
Schedule Type: Clinical Laboratory, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, .53 lab, 4 other
Grade Mode: Standard Letter

NURS 40020 COMMUNITY HEALTH NURSING (DIVG) 4 Credit Hours
Course presents concepts of community health nursing with an emphasis on health protection, promotion and prevention of population-based health problems. This course integrates concepts to prepare students to deliver culturally congruent care. Students gain insight into the health problems facing diverse, vulnerable populations; they explore those populations' social determinants of health. Students use an epidemiologic approach to assess community health and identify aggregates within a community that are at risk for disease, disability and premature death. Concepts covered throughout this course are applied locally (town, county, state and country) and globally. Students must be admitted to the Professional Nursing Sequence to be able to register for this course. Students are responsible for their transportation to field experience.
Prerequisite: Minimum C grade in NURS 30010 and NURS 30020 and NURS 30025 and NURS 30035 and NURS 30050.
Pre/corequisite: NURS 40030.
Schedule Type: Clinical Laboratory, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2.3 lecture, .5 lab, 3.2 other
Grade Mode: Standard Letter
Attributes: Diversity Global

NURS 40025 PROFESSIONAL AND EVIDENCE-BASED PRACTICE 3 Credit Hours
This course introduces the student to the process of identifying quality research studies and applying the findings to nursing practice to improve patient outcomes. This course also focuses on professional development and the transition from student to graduate nurse, including interviewing techniques and resume preparation. Explores health care economics and policy, political activism, cultural competence, nursing theory, leadership of meetings and managing group dynamics, the future of nursing and health care, nursing practice opportunities, role development, professional nursing organizations, graduate education and specialty certification. Students have the opportunity to attend a professional nursing organization meeting. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: NURS 30010 and NURS 30050 with a minimum C grade; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 40026 PROFESSIONAL AND EVIDENCE-BASED PRACTICE FOR THE ACCELERATED B.S.N. (WIC) 3 Credit Hours
Course introduces students to the process of identifying quality research studies and applying the findings to nursing practice to improve patient outcomes. The course also focuses on professional development and the transition from student to graduate nurse, including interviewing techniques and resume preparation. Explores health care economics and policy, political activism, cultural competence, nursing theory, leadership of meetings and managing group dynamics, the future of nursing and health care, nursing practice opportunities, role development, professional nursing organizations, graduate education and specialty certification.
Pre/corequisite: NURS 30010 and NURS 30050 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

NURS 40030 PSYCHIATRIC MENTAL HEALTH NURSING 4 Credit Hours
Focuses on the development of therapeutic relationships with individuals, families and vulnerable populations across the lifespan who have potential and or identified mental health needs. Students learn and apply theory about mental health and illness and demonstrate psychiatric nursing skills and interventions in caring for persons living with mental illness. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care.
Prerequisite: Minimum C grade in NURS 30010 and NURS 30020 and NURS 30025 and NURS 30035 and NURS 30050.
Schedule Type: Clinical Laboratory, Laboratory, Lecture
Contact Hours: 2 lecture, .4 lab, 4 other
Grade Mode: Standard Letter

NURS 40035 SENIOR LEVEL SKILL COMPETENCY LABORATORY 1 Credit Hour
This course continues the development of essential skills and care to improve the health of individuals within families and groups. The patient care skills taught in this course prepare students for clinical practice and care for complex patients in a variety of settings.
Pre/corequisite: NURS 30010 and NURS 30020 and NURS 30035.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

NURS 40036 SENIOR COMPETENCY LABORATORY 2 Credit Hours
This course continues the development of essential skills, clinical judgement and care to improve the health of individuals within families and groups. The patient care skills taught in this course prepare students for clinical practice and care for complex patients in a variety of settings.
Prerequisite: NURS 30035.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

NURS 40045 INTEGRATION OF LEADERSHIP AND MANAGEMENT IN NURSING (ELR) 6 Credit Hours
Course provides students with the opportunity to analyze the concepts of leadership and management in health care. The course focuses on health systems, including organizational culture and structure, leading high performing teams, human and capital resource management, delegation, clinical judgement and outcome evaluation. Course provides students with a practicum immersion experience with a preceptor in a health care setting allowing the opportunity to synthesize their nursing knowledge in preparation for their professional nursing role.
Prerequisite: Minimum C grade in NURS 30010 and NURS 30020 and NURS 30025 and NURS 30035; and senior standing.
Schedule Type: Clinical Laboratory, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2.75 lecture, .2 lab, 9.5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NURS 40075 INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS 3 Credit Hours
(Cross-listed with RSPC 40075). Focuses on the use of information management and information systems, technology and the human technology interface utilized in healthcare. Students taking this course must be registered nurses. This course is designated for Nursing for Registered Nurses students with a current or verifiable nursing license only. Please see your academic advisor for special approval to register for this course.
Prerequisite: Nursing for Registered Nurses major; and special approval.
Pre/corequisite: A minimum C grade in NURS 41000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 40085 INQUIRY AND RESEARCH FOR PROFESSIONAL NURSING PRACTICE 3 Credit Hours
Introduction to clinical inquiry and research for the professional nurse. Theoretical frameworks appropriate to nursing are addressed in relation to research development. A nursing Evidence Based Practice project is developed.
Pre/corequisite: MATH 10041 or PSYC 21621; or SOC 32220 and 32221; GEOG 39002, BMRT 21004, MATH 30011, BA 24056 and PH 30002; and nursing major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 40089 INTERNATIONAL HEALTH CARE POLICIES (DIVG) (ELR) (WIC) 3 Credit Hours
This course looks at the organizational and societal context in which health care is delivered in specific countries worldwide. A historical perspective is developed early in the semester. Building on this, the course explores existing health care policies in a specific population or county. This course further examines existing health networks, forms of care delivery, consumer needs and economics and funding for an identified population.
Prerequisite: NURS 20030; and special approval.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement, Writing Intensive Course

NURS 40092 NURSING PRACTICE INTERNSHIP (ELR) 1-4 Credit Hours
Opportunity for professional nursing practice is expanded to a selected population with complex health care needs. Focus is on increasing theoretical knowledge base and using knowledge in complex care situations with patients and their families. Clinical practice will be guided by a clinical preceptor.
Prerequisite: NURS 30035 with a minimum C grade; and special approval.
Schedule Type: Clinical Laboratory
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NURS 40872 INTRODUCTION TO EVIDENCE-BASED PRACTICE 3 Credit Hours
Course introduces students to the process of identifying quality research studies and applying the findings to nursing practice to improve patient outcomes. The course integrates concepts to prepare students to deliver culturally congruent and appropriate care.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 40873 INTRODUCTION TO EVIDENCE BASED PRACTICE FOR REGISTERED NURSES 3 Credit Hours
This course introduces the student to the process of identifying quality research studies and applying the findings to nursing practice to improve patient outcomes.
Pre/corequisite: Minimum C grade in NURS 41000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 40874 EVIDENCE-BASED PRACTICE FOR NURSES (WIC) 3 Credit Hours
Course equips students with the skills to identify, critically evaluate and apply high-quality research evidence to nursing practice. Students explore various research methodologies and assess their impact on patient outcomes, honing their ability to make evidence-based decisions in diverse clinical settings. Emphasizing the importance of cultural humility and sensitivity, the course prepares students to reflect on personal biases while striving to implement inclusive and effective nursing interventions.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

NURS 41000 CONCEPTS AND ISSUES FOR PROFESSIONAL NURSING PRACTICE 3 Credit Hours
Focuses on nursing concepts and theory, nursing process and the history of nursing as it relates to the development of professional nursing and the role of the professional nurse. Students taking this course must be registered nurses with a current or verifiable nursing license only.
Prerequisite: Nursing for Registered Nurses major; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 41089 INTERNATIONAL EXPERIENCE HEALTH CARE POLICES (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) This course looks at the organizational and societal context in which health care is delivered in specific countries worldwide. A historical perspective is developed early in the semester. Building on this, the course explores existing health care policies in specific countries with comparison analysis to domestic policy.
Prerequisite: NURS 20030; and special approval.
Schedule Type: International Experience
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

NURS 41095 SPECIAL TOPICS 2-4 Credit Hours
(Repeatable for credit) Scheduled topics of interest to faculty and students. Topics to be announced when scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter

NURS 41096 INDIVIDUAL INVESTIGATION 2-4 Credit Hours
(Repeatable for credit) Designed for the student interested in exploration and research of material not covered in required nursing courses.
Prerequisite: None.
Schedule Type: Individual Investigation
Contact Hours: 4 other
Grade Mode: Standard Letter

NURS 42000 LEADERSHIP AND MANAGEMENT FOR PROFESSIONAL NURSING PRACTICE 3 Credit Hours
Allows the registered nurse (RN) to utilize personal and professional knowledge and experiences in the study of leadership and management. Facilitates discovery of how nursing and leadership theories define and enhance practice. Assists the RN in analyzing the relationship between nursing, the professional nurse's leadership management roles, and the articulation between nursing research and practice. Students taking the course must be registered nurses with a current or verifiable nursing license only.
Prerequisite: Nursing for Registered Nurses major; and special approval.
Pre/corequisite: Minimum C grade in NURS 41000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 43001 HEALTH PROMOTION IN PROFESSIONAL NURSING PRACTICE (ELR) 3 Credit Hours
This course utilizes the nursing process to explore health promotion and disease prevention across the lifespan and healthcare settings. Theories and models are used to understand health behaviors. The course includes the role of the nurse; national health objectives; health literacy; education; counseling; transcultural considerations; factors affecting health promotion; and specific health promotion strategies. Student must be a registered nurse with a current or verifiable nursing license only.
Prerequisite: Nursing for Registered Nurses major; and special approval.
Pre/corequisite: NURS 41000 with a minimum C grade.
Schedule Type: Clinical Laboratory, Lecture
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

NURS 44001 POPULATION-BASED NURSING FOR PROFESSIONAL NURSING PRACTICE (DIVG) 3 Credit Hours
Focuses on concepts of population-based nursing practice with emphasis on improving the health of diverse communities and populations, both locally and around the world. Students will gain insight into the health disparities facing diverse populations and cultures in the United States and throughout the world. Students will use an epidemiologic approach to assess community health and identify subgroups within the community or globally that are at risk for disease, disability, and premature death. Students taking this course must be registered nurses. This course is designated for Nursing for Registered Nurses students with a current or verifiable nursing license only. Please see your academic advisor for special approval to register for this course.
Prerequisite: Nursing for registered nurses major; and special approval.
Pre/corequisite: A minimum C grade in NURS 43001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

NURS 45000 HEALTH MAINTENANCE AND RESTORATION FOR PROFESSIONAL NURSING PRACTICE 3 Credit Hours
Focuses on issues related to health maintenance and restoration for individuals and families experiencing illness. Students taking this course must be registered nurses with a current or verifiable nursing license only.
Prerequisite: Nursing for Registered Nurses major; and special approval.
Pre/corequisite: NURS 43001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 45010 HEALTHCARE POLICY AND DELIVERY SYSTEMS 3 Credit Hours
Web-based course looks at the organizational and societal context in which health care is delivered in the U.S. An historical perspective is developed early in the semester. Building on this, the course explores existing health care policy and delivery systems, including legislation, the professional disciplines, organizations and health networks, forms of care delivery, consumer needs, and economics and funding. The ability of the current health care system to serve all segments of the U.S. population is examined in depth. Global health needs are examined as a minor theme. Ends with a focus on future forms of delivery that would improve the health care status of the American population as a whole. This course is not included in the BSN curriculum.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 45020 CRITICAL APPLICATION OF NURSING IN PHARMACOLOGY 3 Credit Hours
Enhances application and analysis of pharmacology in nursing. Explores assessment of therapeutic effect, side effects and adverse reactions of medications. Analyzes pathophysiological symptoms, lab values and nursing indicators in order to allow students to initiate appropriate nursing actions as related to pharmacology. Further, course presents teaching skills needed to enhance patient education and pharmacologic literacy.
Prerequisite: NURS 20020 and 20030; and nursing major; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 45050 LEGAL ISSUES FOR NURSES 3 Credit Hours
This online course explores legal concepts and regulations that guide nursing practice and examines concepts, theories, and values applied in decision making that are related to a variety of legal concepts in nursing practice and health concepts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 45060 NCLEX REVIEW PREPARATION 3 Credit Hours
This course reviews nursing concepts and content important for a registered nurse to make safe clinical judgments. Specific study strategies for passing the national licensure exam are reviewed. Students practice answering NCLEX-style questions. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: NURS 30035; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 45070 HEALTH CARE NEEDS FOR INDIVIDUALS WITH DISABILITIES 3 Credit Hours
(Slashed with NURS 55070) Healthcare Needs for Individuals with Disabilities focuses on the developmental, physical, and mental needs of the individual with disabilities. Strategies to identify and safely manage the unique needs of individuals with disabilities will be provided.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 45075 NCLEX SUCCESS 2 Credit Hours
This course reviews nursing concepts and content important for a registered nurse to make safe, clincal judgments. Specific study strategies for passing the national licensure exam are reviewed. Students practice answering NCLEX style questions. Students must be admitted to the Professional Nursing Sequence to be able register for this course.
Prerequisite: Senior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 45080 INTERDISCIPLINARY APPROACHES TO PALLIATIVE AND END OF LIFE CARE 3 Credit Hours
This course focuses on the care of people with a life-limiting illness, their families, and caregivers. Students will explore key concepts related to end of life care including the history and philosophical underpinnings of the hospice movement, spiritual, cultural, psychosocial, physical, legal, ethical and social considerations of dying in a contemporary society.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 46000 HEALTH CARE POLICY 3 Credit Hours
Examines the organizational and societal context in which health care is delivered. Existing health care policy and delivery systems are examined, including historical perspectives, legislation, professional disciplines, organizations, health networks, forms of care delivery, consumer needs, economics and funding. The ability of the current health care system to serve all segments of the U.S. population is examined in depth, as well as future forms of health care delivery. Global perspectives are also studied. Students must be registered nurses with a current or verifiable nursing license only.
Prerequisite: Nursing for Registered Nurses major; and special approval.
Pre/corequisite: NURS 43001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 47000 CAPSTONE CLINICAL FOR PROFESSIONAL NURSING PRACTICE (WIC) 3 Credit Hours
Allows RNs to apply previously learned nursing theory and clinical knowledge with their baccalaureate education in the identification and implementation of a scholarly nursing project. This project utilizes, but is not limited to, previously learned knowledge of leadership skills, principles of teaching/learning, health care policy, change process, group process, team building, collaboration, healthcare policy and delivery systems, quality improvement, evidence-based care, diversity, nursing roles, information technology and systems, population-based care and ethical/legal issues. Students taking this course must be registered nurses.
Prerequisite: NURS 40075 and 41000.
Pre/corequisite: NURS 40085 and 42000 and 44001 and 45000 and 46000 and nursing major.
Schedule Type: Clinical Laboratory, Lecture
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

NURS 47099 CAPSTONE FOR PROFESSIONAL NURSING PRACTICE (ELR) (WIC) 3 Credit Hours
Course allows registered nurses to apply previously learned nursing theory and clinical knowledge with their baccalaureate education in the identification and implementation of a scholarly nursing project. This project utilizes, but is not limited to, previously learned knowledge of leadership skills, principles of teaching learning, health care policy, change process, group process, team building, collaboration, healthcare policy and delivery systems, quality improvement, evidence-based care, diversity, nursing roles, information technology and systems, population-based care and ethical legal issues. Students taking this course must be registered nurses and have a current/verifiable nursing license.
Prerequisite: A minimum C grade in NURS 40075 and NURS 41000 and NURS 42000; and Nursing for Registered Nurses major; and special approval.
Pre/corequisite: A minimum C grade in NURS 40873 and NURS 43001 and NURS 44001 and NURS 45000 and NURS 46000.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

NURS 50003 COMPARATIVE HEALTH CARE: NURSING IN NORTHERN IRELAND 2-3 Credit Hours
Includes a 2 week intensive study abroad that is conducted in Northern Ireland and includes seminars at the University of Ulster and in select clinical settings. Students examine the cultural, political and economic forces influencing health care and nursing needs; status of nursing education, licensure and practice; and health disparities in Northern Ireland and compare them to the United states. An additional 1 credit hour web-based option is offered the week immediately following the 2 weeks in Northern Ireland for students who choose the 3 credit hour option.
Prerequisite: Minimum 3.000 overall GPA; and graduate standing; and special approval.
Schedule Type: Clinical Laboratory, Seminar
Contact Hours: 2-3 other
Grade Mode: Standard Letter

NURS 50089 INTERNATIONAL HEALTH CARE POLICIES 3 Credit Hours
(Slashed with NURS 40089 and NURS 70089)(Repeatable for credit) This course looks at the organizational and societal context in which health care is delivered in specific countries worldwide. A historical perspective is developed early in the semester. Building on this, the course explores existing health care policies in a specific population or county. This course further examines existing health networks, forms of care delivery, consumer needs and economics and funding for an identified population.
Prerequisite: Master of Science in Nursing degree or graduate nursing certificate; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 55070 HEALTH CARE NEEDS FOR INDIVIDUALS WITH DISABILITIES 3 Credit Hours
(Slashed with NURS 45070) Healthcare Needs for Individuals with Disabilities focuses on the developmental, physical, and mental needs of the individual with disabilities. Strategies to identify and safely manage the unique needs of individuals with disabilities will be provided.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60010 ADVANCED NURSING INFORMATICS 3 Credit Hours
(Slashed with NURS 70010) Course focuses on the role of informatics in advanced nursing practice through examination and application of theories, trends and policies for generation, storage, retrieval and analysis of health information. Students examine the use of information structures, processes and technology to support clinical decision-making to achieve patient and healthcare outcomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60012 ADVANCED MENTAL HEALTH ASSESSMENT AND PSYCHOPATHOLOGY 4 Credit Hours
In this course, students gain the knowledge and skills necessary to conduct a holistic psychiatric and mental health assessment and diagnostic evaluation. Through a combination of theoretical learning and practical experiences, students develop an understanding of psychopathology and develop competence in differential diagnosis.
Prerequisite: Nursing major or Psychiatric Mental Health Nurse Practitioner graduate certificate; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

NURS 60014 LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT 3 Credit Hours
Course provides an introduction to nursing and health care management with a focus on the nursing and health care manager competencies and skills. Concepts explored include leadership and management theories as they relate to the functions and responsibilities of nursing and health care administrator roles, analysis of leadership style and professional competencies for nurses and health care managers and administrators.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60015 ADVANCED HEALTH ASSESSMENT 3 Credit Hours
Course comprises foundational skills, including the comprehensive history, physical and psychological assessment of diverse patient populations across the lifespan. Students apply the diagnostic reasoning process to initiate a plan of care for patients in a variety of settings.
Prerequisite: Graduate standing.
Pre/corequisite: NURS 60045.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60016 ADVANCED ASSESSMENT, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE NURSE LEADER 3 Credit Hours
(Slashed with NURS 70016) Course explores concepts of advanced assessment, pathophysiology and pharmacology topics to meet the complex needs of diverse patient populations and prepare learners to use this knowledge in the role of a nurse leader.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60020 LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS 3 Credit Hours
(Slashed with NURS 70020) This course focuses on legal and regulatory structures and issues and explores the impact of these topics on health care environments. Concepts and processes of accreditation, magnet designation, licensure and government regulation are explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60024 HEALTH CARE ORGANIZATION, STRUCTURE AND BEHAVIOR 3 Credit Hours
(Slashed with NURS 70024) Course focuses on the structures and behaviors common in health care organizations. Historical perspectives, organizational theories and types and characteristics of health care organizations are explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60025 HEALTH POLICY AND ADVANCED NURSING PRACTICE 3 Credit Hours
Course focuses on the role of the advanced practice nurse in healthcare policy-making, advocacy and analysis. Students analyze historical and current policy initiatives that influence healthcare funding and delivery, considering the roles of government, organizations, the discipline of nursing, health care leaders and individuals in setting policy. Students apply the nursing lens in advocating for policy advocacy considering the social determinants of health, vulnerable populations and ethics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60045 PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE 3 Credit Hours
Provides graduate nursing students with a theoretic foundation of human physiology and the phenomena that produce alterations or pathology in human physiologic function; and an understanding of the basis of disease processes across the lifespan.
Prerequisite: Graduate standing in Nursing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60051 NEUROBIOLOGY AND PSYCHOPHARMACOLOGY OF MAJOR PSYCHIATRIC DISORDERS 4 Credit Hours
In this course, students gain the evidence-based neurobiological knowledge of major psychiatric disorders necessary to prescribe psychotropic medications based on patient needs and symptomatology.
Prerequisite: Nursing major or Psychiatric Mental Health Nurse Practitioner graduate certificate; and graduate standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

NURS 60101 THEORETICAL BASIS FOR NURSING PRACTICE 3 Credit Hours
(Slashed with NURS 70101) Course incorporates nursing theories, science and evidence-based practice to enhance clinical judgements that promote compassionate, person-centered care.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60110 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I 3 Credit Hours
Introduction to the clinical nurse specialist (CNS) role to develop a foundation for equitable, evidence-based, person-centered advanced nursing care within the patient sphere of impact. Students explore the scientific and theoretical basis for interventions for health promotion and illness care in adults and gerontological patients across the care continuum. The CNS role within nursing and systems spheres of impact is introduced. S.N. degree or the Adult Gerontology Clinical Nurse Specialist graduate certificate; and graduate standing.
Prerequisite: NURS 60015; and admitted to the Adult Gerontology Clinical Nurse Specialist concentration in the M.
Pre/corequisite: NURS 60441 and NURS 60506.
Corequisite: NURS 61192.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60120 ADULT GERONTOLOGY PRIMARY CARE I 3 Credit Hours
Introduction to the care of adult-gerontology primary care patients. Identification and examination of evidence-based primary health care problems, needs and interventions. Course focuses on biological and behavioral parameters at primary, secondary and tertiary levels of prevention.
Prerequisite: NURS 60015 and NURS 60441; and Nursing major or Nurse Educator graduate certificate; and graduate standing.
Pre/corequisite: NURS 60506.
Corequisite: NURS 61292.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60125 FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE 1 Credit Hour
This course continues to develop competencies of the Family and Adult-Gero Nurse Practitioner including requirements for practice, and prescribing. Quality of health care delivery is examined.
Prerequisite: NURS 60120 and NURS 61292; and graduate standing.
Corequisite: NURS 61892.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NURS 60126 FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE AND PROCEDURES 2 Credit Hours
Examination of the nurse practitioner role in the healthcare profession. Introduction to basic procedures and diagnostic interpretation used in developing clinical judgement for the care of adult gerontology and family patients.
Prerequisite: NURS 60120 and NURS 61292; or NURS 60129 and NURS 61092; and graduate standing.
Pre/corequisite: NURS 61392 or NURS 61892.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 60129 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I 3 Credit Hours
Introduction to the care of the adult or gerontology patient with chronic illness, acute illness and acute exacerbation of chronic illness. Identification of primary and acute health care problems, communication with diverse populations and examination of evidence-based practice to develop clinical judgment.
Prerequisite: NURS 60015; and graduate standing.
Pre/corequisite: NURS 60506.
Corequisite: NURS 61092.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60130 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER II 1 Credit Hour
This course continues the introduction to the acute APRN care of the adult - gero patient with chronic illness, acute illness, and acute exacerbation of chronic illness. Identification and examination of evidence-based acute health care problems, needs, and interventions.
Prerequisite: NURS 60129 and NURS 60441 and NURS 61092; and graduate standing.
Corequisite: NURS 61392.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NURS 60151 INDIVIDUAL PSYCHOTHERAPY 3 Credit Hours
In this course, students gain the skills necessary to use knowledge of relevant biological, psychosocial and developmental theories, as well as best available research evidence, to select psychotherapeutic approaches based on patient needs.
Prerequisite: NURS 60012 and NURS 60051; and Nursing major; and graduate standing.
Corequisite: NURS 61592.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60160 PRIMARY CARE PEDIATRICS 3 Credit Hours
Introduction to the care of pediatric patients in a primary care setting. Identification and examination of evidence-based primary health care problems, needs and interventions. Course focus is on health promotion, acute and chronic illness management and age and developmentally appropriate anticipatory guidance for infants and children.
Prerequisite: NURS 60015 and NURS 60441; and graduate standing.
Pre/corequisite: NURS 60506.
Corequisite: NURS 61692.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60170 PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSES 3 Credit Hours
Initial pediatric assessment course emphasizes primary care of the infants, children and teens with a holistic approach to well-child development, health promotion, illness prevention and management of developmental challenges with a family centered approach.
Prerequisite: Graduate standing.
Pre/corequisite: NURS 60015.
Corequisite: NURS 61792.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 credit hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Guidelines are established by the College of Nursing.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NURS 60210 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II 3 Credit Hours
Application and further development of the clinical nurse specialist (CNS) role introduced in NURS 60110, within adult and gerontological populations. The focus is on continued development of CNS competencies within the patient sphere of impact to promote equitable, evidence-based, person-centered advanced nursing care. Students develop CNS competencies in the nurse sphere of impact involving mentoring, coaching, role modeling and education with the interdisciplinary health care team. Evaluation of gaps and outcomes of care, including quality and safety, are examined.
Prerequisite: NURS 60110 and NURS 61192; and graduate standing.
Pre/corequisite: NURS 60403.
Corequisite: NURS 62192.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60220 PRIMARY CARE II: CHRONICALLY ILL ADULTS 3 Credit Hours
Introduction to the complexity of chronic care conditions of adult-gerontology primary care patients. Identification and examination of evidence-based primary health care problems, needs and interventions, with a focus on collaboration and consultation within a interprofessional team. Continue to address health promotion with primary, secondary and tertiary levels of prevention.
Prerequisite: NURS 60126 and NURS 61892; and graduate standing.
Corequisite: NURS 62292.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60230 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III 4 Credit Hours
Care of the critically ill adult or gerontology patient with chronic illness, acute illness and acute exacerbation of chronic illness. Identification and examination of critical care problems, appropriate communication with diverse populations and application of evidence-based practice to develop clinical judgment.
Prerequisite: NURS 60126 and NURS 61392; and graduate standing.
Corequisite: NURS 62392.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

NURS 60251 FAMILY AND GROUP PSYCHOTHERAPY 3 Credit Hours
Students study family and group psychotherapeutic treatment modalities and gain the knowledge and skills necessary to assess interactions among family and group systems and their relationship to mental health functioning. Through a combination of theoretical learning and practical experiences, students learn to apply therapeutic communication strategies based on theories and research evidence to reduce emotional distress, facilitate cognitive and behavioral change and foster growth and resilience.
Prerequisite: NURS 62592; and graduate standing.
Corequisite: NURS 63592.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60270 PEDIATRIC NURSE PRACTITIONER I 3 Credit Hours
Emphasizes the development of competent advanced practice nursing skills and comprehensive knowledge of acute physical and psychosocial illnesses in children, including diagnoses, management and evaluation in primary care.
Prerequisite: NURS 60015 and NURS 60170 and NURS 61792; and graduate standing.
Corequisite: NURS 62792.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: NURS 60199; and graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NURS 60310 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III 3 Credit Hours
Students develop clinical nurse specialist (CNS) competencies in the nurse and system spheres of impact, including leadership and interprofessional collaboration. Course addresses project development and evaluation to promote equitable, evidence-based, person-centered advanced nursing care.
Prerequisite: NURS 60210 and NURS 62192; and graduate standing.
Corequisite: NURS 63192.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60315 BUDGETARY AND FISCAL MANAGEMENT FOR NURSES 3 Credit Hours
(Slashed with NURS 70315) Course examines management of fiscal resources in nursing service settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60320 ADULT GERONTOLOGY PRIMARY CARE III 3 Credit Hours
Continuation of evaluation and management of complex chronic care conditions of adult gerontology primary care patients while transitioning to the professional role of the advanced practice registered nurse. Students learn to synthesize evidence-based practice through comprehensive care in the primary care setting, with multidisciplinary collaboration and consultation, to improve patient care and healthcare outcomes
Prerequisite: NURS 60220 and NURS 62292; and graduate standing.
Corequisite: NURS 63692.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60325 PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS 4 Credit Hours
This comprehensive course completes the evaluation and management of acute and chronic conditions in primary care patients, including common chronic pediatric conditions; promotion of health and wellness of women during the reproductive years; and additional focus on family assessment and counseling. Students synthesize evidence-based practice through comprehensive care while transitioning to the professional role of the advanced practice registered nurses in the family primary care setting, with interprofessional collaboration and consultation, to improve patient care and healthcare outcomes.
Prerequisite: NURS 60220 and NURS 62292; and graduate standing.
Corequisite: NURS 63292.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

NURS 60330 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV 2 Credit Hours
Introduction to specialty care of the adult gerontology patient with chronic illness, acute illness and acute exacerbation of chronic illness. Identification of specialty acute health care problems, communication with diverse populations and examination of evidence-based practice to develop clinical judgment.
Prerequisite: NURS 60230 and NURS 62392; and graduate standing.
Corequisite: NURS 63392.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 60353 INDIVIDUAL, ORGANIZATION AND COMMUNITY CONSULTATION 3 Credit Hours
In this course, students gain the knowledge and skills necessary to perform a community needs assessment and organizational analysis. Students learn how to be an effective interprofessional partner across the care continuum to integrate foundational nurse practitioner knowledge into culturally competent practices to increase health promotion and disease prevention strategies and effect the care of populations. Students learn the knowledge and skills necessary to effectively and proactively coordinate resources to provide safe, quality and equitable care to diverse populations.
Prerequisite: NURS 60251; and graduate standing.
Pre/corequisite: NURS 63592.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60370 PEDIATRIC NURSE PRACTITIONER II 1 Credit Hour
Focuses on continued development of advanced practice nursing assessment skills for well and-or acute care of infants, children and adolescents.
Prerequisite: NURS 60270 and NURS 62792; and graduate standing.
Corequisite: NURS 63792.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NURS 60372 ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD 3 Credit Hours
Emphasizes the development of competent advanced practice nursing skills and comprehensive knowledge of chronic illness-conditions in children, including diagnoses, management and evaluation in primary care. Concepts of chronic illness and interventions for families are explored.
Prerequisite: NURS 60370 and NURS 63792; and graduate standing.
Corequisite: NURS 63992.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60403 METHODS OF INQUIRY 3 Credit Hours
(Slashed with NURS 70403) Course covers surveys types of research designs and methods that produce evidence contributing to positive patient outcomes. For each design, students learn essential elements, appropriate use and the criteria for rigor within the context of patient outcomes.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60441 PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE 3 Credit Hours
A survey course addressing the fundamental principles of clinical judgement in medication prescribing and administration necessary for diverse populations by nurses in advanced practice. This course addresses pharmacodynamics, pharmacokinetics and pharmacotherapeutics of broad categories of medications, as well as patient safety, social determinants of health and legal requirements.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60470 PEDIATRIC NURSE PRACTITIONER III 2 Credit Hours
Focus on synthesizing pediatric nurse practitioner knowledge and skills to provide expert care to a selected population of pediatric clients.
Prerequisite: NURS 60372 and NURS 63992; and graduate standing.
Corequisite: NURS 64792.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 60496 INDEPENDENT STUDY 1-4 Credit Hours
(Repeatable for credit) Readings and/or research supervised by a member of graduate faculty. Provides students the opportunity to explore a content area in depth.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

NURS 60498 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation supervised by a graduate faculty member. Repeat registration permitted. Maximum of 9 credit hours may apply toward degree.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

NURS 60506 CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES 3 Credit Hours
Introduces the selection, use and interpretation of laboratory and diagnostic testing for patient-centered care, through synthesis of evidence-based practice in the evaluation and management of acute and chronic conditions. The concepts of diagnostic and laboratory stewardship are introduced, and clinical judgement is developed through integration of patient health data and diagnostic findings.
Prerequisite: Graduate standing.
Pre/corequisite: NURS 60015 and NURS 60045.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 60592 NURSING EDUCATION PRACTICUM 3 Credit Hours
(Repeatable for credit) This course prepares students with practical experiences in curriculum design, implementation, evaluation and instruction with an experienced nurse educator in the academic and/or nursing professional development setting.
Prerequisite: NURS 60601 and NURS 60602 and NURS 60605; and graduate standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 10 other
Grade Mode: Standard Letter

NURS 60601 CURRICULUM AND INSTRUCTION IN NURSING EDUCATION 3 Credit Hours
This is a foundational course for students preparing for the role of nurse educator. Theoretical examination and practical application of curriculum planning, design, development, implementation and evaluation in nursing education in the academic and nursing professional development settings are addressed.
Prerequisite: Graduate standing.
Pre/corequisite: NURS 60101.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

NURS 60602 ROLES AND EVALUATION FOR NURSING EDUCATION CURRICULA 3 Credit Hours
This course focuses on education role development and theory, history, current issues and trends of evaluation for nurse educators in academic and nursing professional development settings.
Prerequisite: NURS 60601; and graduate standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

NURS 60605 NURSING EDUCATION WITH TECHNOLOGY 2 Credit Hours
This course focuses on theory, concepts and evidence related to the use of technology in nursing education. Students gain an understanding of integrating a variety of technology tools to deliver education in academic and nursing professional development settings.
Prerequisite: Graduate standing.
Pre/corequisite: NURS 60601.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

NURS 60607 CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA 2 Credit Hours
This course focuses on exploration of clinical issues applicable to nursing practice. Students develop in-depth knowledge and expertise in their area of clinical specialty and analyze how this expertise impacts their role as nurse educators. Project development to promote equitable, evidence-based and person-centered nursing care is addressed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 61092 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I PRACTICUM 2 Credit Hours
(Repeatable for credit) Students apply in the clinical setting the concepts introduced in NURS 60129. Students must complete 150 practicum hours. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: Graduate standing; and special approval.
Corequisite: NURS 60129.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 61095 SPECIAL TOPICS IN NURSING 2-6 Credit Hours
(Repeatable for credit) Topics in nursing such as holistic health, selected pathological alterations and recent developments. May include clinical practicum. May be repeated three times with approval for a maximum of 12 credits applied toward the degree.
Prerequisite: Graduate standing in Nursing.
Schedule Type: Lecture
Contact Hours: 2-6 lecture
Grade Mode: Standard Letter

NURS 61192 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I PRACTICUM 2 Credit Hours
(Repeatable for credit) Clinical practicum of 150 hours to apply clinical nurse specialist (CNS) competencies introduced in NURS 60110.
The student acquires direct care CNS competencies within adult and gerontological populations. Competencies within nursing and systems spheres of impact are explored. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: Graduate standing; and special approval.
Corequisite: NURS 60110.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 61292 ADULT GERONTOLOGY PRIMARY CARE I PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum to integrate the concepts introduced in NURS 60120 with a focus on health promotion, acute illness and common primary care conditions. Students complete 150 hours of practicum. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 60015; and graduate standing; and special approval.
Corequisite: NURS 60120.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 61392 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER II PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum for application of the concepts introduced in didactic nurse practitioner course work. Students complete 150 hours of practicum.
Prerequisite: NURS 60129 and NURS 61092; and graduate standing.
Pre/corequisite: NURS 60126.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 61592 PRACTICUM I: INDIVIDUAL THERAPY 2 Credit Hours
In this practicum course, students gain the knowledge and skills necessary to demonstrate mental health assessments, individual psychotherapy and psychopharmacologic therapies with individuals experiencing chronic or acute mental illness. Group supervision is provided. A minimum of 150 practicum hours is required. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 60012 and NURS 60051; and graduate standing; and special approval.
Corequisite: NURS 60151.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 61692 PRIMARY CARE PEDIATRICS PRACTICUM 1-2 Credit Hours
(Repeatable for credit) Practicum to integrate the concepts introduced in NURS 60160 with a focus on health promotion, acute illness and common primary care conditions. Students complete 150 hours of practicum to earn 2 credit hours. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 60015; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 5-10 other
Grade Mode: Standard Letter

NURS 61792 PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSE PRACTICUM 2 Credit Hours
(Repeatable for credit) This course is the clinical application of concepts introduced in NURS 60170. Students complete 150 hours of practicum. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 60045 and NURS 60101; and graduate standing; and special approval.
Pre/corequisite: NURS 60015.
Corequisite: NURS 60170.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 61892 FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE PRACTICUM 1 Credit Hour
(Repeatable for credit) Practicum for the concepts introduced in NURS 60126 and continued from NURS 61292. Students complete 75 hours of practicum.
Prerequisite: NURS 60120 and NURS 61292; and graduate standing.
Corequisite: NURS 60126.
Schedule Type: Practical Experience
Contact Hours: 5 other
Grade Mode: Standard Letter

NURS 62095 SPECIAL TOPICS IN NURSING 1-4 Credit Hours
(Repeatable for credit) Topics in nursing such as holistic health, selected pathological alterations and recent developments.
Prerequisite: Graduate standing in Nursing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

NURS 62192 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II PRACTICUM 2-3 Credit Hours
(Repeatable for credit) Clinical practicum to apply clinical nurse specialist (CNS) competencies introduced in NURS 60210. Students acquire CNS competencies in the patient, nurse and systems spheres of impact with adult and gerontological populations. Students complete 225 practicum hours of practicum to earn 3 credit hours or 150 practicum hours to earn 2 credit hours.
Prerequisite: NURS 60110 and NURS 61192; and graduate standing.
Corequisite: NURS 60210.
Schedule Type: Practical Experience
Contact Hours: 10-15 other
Grade Mode: Standard Letter

NURS 62292 PRIMARY CARE II PRACTICUM: CHRONICALLY ILL ADULTS 2 Credit Hours
(Repeatable for credit) Practicum to integrate the concepts from NURS 60220 focusing on chronic illness and complex care in collaboration with an interprofessional team while continuing to address health promotion and wellness. Students complete 150 hours of practicum. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 60126 and NURS 61892; and graduate standing.
Corequisite: NURS 60220.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 62392 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum for application of the concepts introduced in NURS 60230. Students complete 150 hours of practicum.
Prerequisite: NURS 60126 and NURS 61392; and graduate standing.
Corequisite: NURS 60230.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 62592 PRACTICUM II: MEDICATION MANAGEMENT AND INDIVIDUAL THERAPY 2 Credit Hours
In this practicum course, students gain the knowledge and skills necessary to demonstrate pharmacological and biological interventions with applied clinical skills to restore the patient to health and prevent further disability. Through a combination of theoretical learning and practical experiences, students learn how to use prescriptive authority, procedures, referrals, treatments and therapies in accordance with state and federal laws and regulations. Group supervision is provided. A minimum of 150 practicum hours is required.
Prerequisite: NURS 61592 and NURS 60151; and graduate standing.
Pre/corequisite: NURS 60441.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 62792 PEDIATRIC NURSE PRACTITIONER I PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum for the concepts introduced in NURS 60270. Students complete 150 hours of practicum.
Prerequisite: NURS 60015 and NURS 60170; and graduate standing.
Corequisite: NURS 60270.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 63192 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III PRACTICUM 2-3 Credit Hours
(Repeatable for credit) Clinical practicum that expands on the CNS competencies acquired in NURS 61192 and NURS 62192 with a primary focus on the nurse and systems spheres of impact for adult and gerontological populations. Students complete 150 hours of clinical practicum to earn 2 credit hours or 225 hours to earn 3 credit hours.
Prerequisite: NURS 60210 and NURS 62192; and graduate standing.
Corequisite: NURS 60310.
Schedule Type: Practical Experience
Contact Hours: 10-15 other
Grade Mode: Standard Letter

NURS 63292 PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum for the concepts introduced throughout the primary care courses and in NURS 60325 for comprehensive care across the lifespan. Students complete 150 hours of practicum. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 60220 and NURS 62292; and graduate standing.
Corequisite: NURS 60325.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 63392 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum for application of the concepts introduced in NURS 60330. Students complete 150 hours of practicum.
Prerequisite: NURS 60230 and NURS 62392; and graduate standing.
Corequisite: NURS 60330.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 63592 PRACTICUM III: FAMILY AND GROUP THERAPY 2 Credit Hours
In this practicum course, students gain the knowledge and skills necessary to demonstrate a multigenerational family assessment, family and/or group psychotherapy and psychopharmacologic therapies with individuals experiencing chronic or acute mental illness. Group supervision is provided. A minimum of 150 practicum hours is required.
Prerequisite: NURS 62592; and graduate standing.
Corequisite: NURS 60251.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 63692 ADULT GERONTOLOGY COMPREHENSIVE PRIMARY CARE III PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum for the comprehensive concepts introduced throughout the adult gerontology primary care courses. Students complete 150 hours of practicum.
Prerequisite: NURS 60220 and NURS 62292; and graduate standing.
Corequisite: NURS 60320.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 63792 PEDIATRIC NURSE PRACTITIONER II PRACTICUM 1 Credit Hour
(Repeatable for credit) Practicum for the concepts introduced in NURS 60370. Students complete 75 hours of practicum.
Prerequisite: NURS 60270 and NURS 62792; and graduate standing.
Corequisite: NURS 60370.
Schedule Type: Practical Experience
Contact Hours: 5 other
Grade Mode: Standard Letter

NURS 63992 ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD PRACTICUM 2 Credit Hours
(Repeatable for credit) Practicum for the concepts introduced in NURS 60372. Students complete 150 hours of practicum.
Prerequisite: NURS 60270; and graduate standing.
Corequisite: NURS 60372.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 64002 PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS 3 Credit Hours
(Slashed with NURS 74002) Course focuses on processes for planning, developing and evaluating programs in health care. Students consider analysis of theories, models, issues and challenges related to program planning, development and evaluation relevant to the nurse administrator.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 64202 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I SEMINAR 2 Credit Hours
Course is the first of two capstone seminars with a practicum in a health care organization. Students integrate and apply leadership and management knowledge and are coached in professional roles by established health care leaders.
Prerequisite: NURS 60014 and NURS 60020 and NURS 60024 and NURS 60315; and graduate standing.
Corequisite: NURS 64292.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 64292 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM 2 Credit Hours
(Repeatable for credit) Application of principles of leadership and management introduced in NURS 64202 and in other program courses. Students acquire competencies related to leading others in a health care organization. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 60014 and NURS 60020 and NURS 60024 and NURS 60315; and graduate standing; and special approval.
Corequisite: NURS 64202.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 64302 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP SEMINAR 2 Credit Hours
(Slashed with NURS 74302) Capstone seminar with a practicum in a health care organization. Students further integrate and apply management knowledge and their professional roles coached by established health care leaders.
Prerequisite: NURS 60016 or NURS 64202; and NURS 64292; and graduate standing.
Corequisite: NURS 64392.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 64392 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II PRACTICUM 2 Credit Hours
Capstone clinical practicum with application of principles of leadership and management introduced in NURS 64392 and throughout the program. Students acquire competencies in leadership in health care organizations.
Prerequisite: NURS 64202 and NURS 64292; and graduate standing.
Corequisite: NURS 64302.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 64592 PRACTICUM IV: NURSE PRACTITIONER ROLE 2 Credit Hours
In this final practicum course, students gain the knowledge, skills and experiences necessary to begin demonstrating the full scope of practice for a psychiatric mental health nurse practitioner. The immersive experience focuses on all aspects of the nurse practitioner role and demonstrates integration of program competencies into practice. A minimum of 225 hours is required.
Prerequisite: NURS 63592; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 64792 PEDIATRIC NURSE PRACTITIONER III PRACTICUM 1 Credit Hour
(Repeatable for credit) Practicum for the concepts introduced in NURS 60470. Students complete 75 hours of practicum.
Prerequisite: NURS 60372 and NURS 63992; and graduate standing.
Corequisite: NURS 60470.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 66100 WOMEN'S HEALTH NURSE PRACTITIONER I 3 Credit Hours
Development of the foundation for gynecological care, from adolescence to post-menopause, for competent clinical practice in women's health. There is an emphasis on the menstrual cycle, fertility control and differentiation between normal and abnormal gynecological conditions. This course also emphasizes the coordination of care needed within the clinical setting through the diagnostic, planning, evaluation and management pertinent to nurse practitioner practice.
Prerequisite: NURS 60015 and NURS 60045; and graduate standing.
Pre/corequisite: NURS 60506.
Corequisite: NURS 66192.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 66192 WOMEN'S HEALTH NURSE PRACTITIONER I PRACTICUM 2 Credit Hours
Practicum for concepts of gynecological care introduced in NURS 66100. Course requires 150 clinical hours.
Prerequisite: Graduate standing.
Corequisite: NURS 66100.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 66200 WOMEN'S HEALTH NURSE PRACTITIONER II 2 Credit Hours
Further development of a foundation for competent clinical practice within a health care setting. Advances the student's practice of women's primary health care of patients from adolescence to post-menopause. Included are principles of growth and development, health promotion, disease prevention and management of common acute and chronic health problems. Pathophysiology, assessment and diagnostic techniques specific to acute and common problems are stressed. Strategies for enhancing, maintaining, and restoring health are emphasized. Coordination of care with an interdisciplinary team for collaboration and the use of community resources are also emphasized.
Prerequisite: NURS 60441 and NURS 60506 and NURS 66100 and NURS 66192; and graduate standing.
Corequisite: NURS 66292.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 66292 WOMEN'S HEALTH NURSE PRACTITIONER II PRACTICUM 2 Credit Hours
Clinical application of concepts introduced in NURS 66200.
Prerequisite: Graduate standing.
Corequisite: NURS 66200.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 66300 WOMEN'S HEALTH NURSE PRACTITIONER III 3 Credit Hours
The focus of this course is the application of evidence-based practice and research in the promotion of the health and wellness of patients during their reproductive years by women's health nurse practitioners. The emphasis is on preconception counseling, normal pregnancy focusing on prevention and health promotion, as well as the management of deviations from normal. Clinical assessment skills is emphasized, including diagnosis, treatment and evaluation. The nurse practitioner student is expected to concentrate efforts in the attainment and safe execution of skills pertinent to pregnant patients and their family.
Prerequisite: NURS 66200 and NURS 66292; and graduate standing.
Corequisite: NURS 66392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 66392 WOMEN'S HEALTH NURSE PRACTITIONER III PRACTICUM 2 Credit Hours
Practicum for concepts of care during reproductive years is implemented under supervision in a variety of clinical setting in NURS 66300. This course has 150 practicum hours.
Prerequisite: Graduate standing.
Corequisite: NURS 66300.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 66400 WOMEN'S HEALTH NURSE PRACTITIONER IV 2 Credit Hours
This course prepares the student for fully integrated practice as a women's health nurse practitioner. This course is a refinement of women's health nurse practitioner skills and expansion of knowledge related to women's health in selected areas of concentration. These areas will include gynecological and obstetrical complications, infertility, and reproductive men's health. The professional, social, political, legal, ethical, economic and financial factors that affect advanced nursing practice are analyzed. Knowledge is further integrated by 3 National Credentialing Center blueprint comprehensive exams.
Prerequisite: NURS 66300 and NURS 66392; and graduate standing.
Corequisite: NURS 66492.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 66492 WOMEN'S HEALTH NURSE PRACTITIONER IV PRACTICUM 2 Credit Hours
Practicum for concepts in specialized populations introduced in NURS 66400. This course has 150 practicum hours.
Prerequisite: Graduate standing.
Corequisite: NURS 66400.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 67092 CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA PRACTICUM 2 Credit Hours
This practicum course allows students to apply concepts introduced in NURS 60607 to develop in-depth knowledge and expertise in a chosen area of clinical specialty. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: (NURS 60015 and NURS 60045 and NURS 60441) or (NURS 60016); and graduate standing.
Pre/corequisite: NURS 60607.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 67100 ADULT/ADOLESCENT SEXUAL ASSAULT NURSE EXAMINER TRAINING 3 Credit Hours
Course provides basic knowledge, skills and judgement to provide competent, comprehensive, patient-centered and coordinated care to individuals being evaluated for sexual assault or suspected of having been sexually assaulted.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 67192 SEXUAL ASSAULT NURSE EXAMINER I PRACTICUM 1 Credit Hour
Students apply knowledge and skills gained from NURS 67100 in a clinical setting that provides treatment and care to victims of sexual assault. Students must complete 105 practicum hours.
Prerequisite: Graduate standing.
Pre/corequisite: NURS 67100.
Schedule Type: Practical Experience
Contact Hours: 7 other
Grade Mode: Standard Letter

NURS 67200 SEXUAL ASSAULT NURSE EXAMINER ADMINISTRATIVE CONCEPTS AND EVALUATION 3 Credit Hours
Concepts related to the administration and evaluation of programs that treat and care for victims of sexual assault are taught, including working with the criminal justice system, evidence collection and documentation, health care cost, leadership and mentoring and trauma informed care.
Prerequisite: NURS 67100; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 67292 SEXUAL ASSAULT NURSE EXAMINER II PRACTICUM 1 Credit Hour
Students continue to apply knowledge, hone skills and gain competencies related to the role of a sexual assault nurse examiner in a clinical setting that provides treatment and care to victims of sexual assault. Students must complete 105 practicum hours.
Prerequisite: NURS 67100 and NURS 67192; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 7 other
Grade Mode: Standard Letter

NURS 67300 POPULATION HEALTH AND SEXUAL ASSAULT 3 Credit Hours
Course covers topics and concepts that include a quality care model and self-care for the sexual assault nurse examiner; victim population; human trafficking; victim health; rape trauma syndrome; post-traumatic stress disorder (PTSD); healing; substance abuse; pharmacology for sexually transmitted disease; access and barriers to care; and working within an interprofessional team.
Prerequisite: NURS 67100; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 67392 SEXUAL ASSAULT NURSE EXAMINER III PRACTICUM 1 Credit Hour
Students continue to develop competencies in a clinical setting that provides treatment and care to victims of sexual assault. Students must complete 105 practicum hours.
Prerequisite: NURS 67100 and NURS 67292; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 7 other
Grade Mode: Standard Letter

NURS 70010 ADVANCED NURSING INFORMATICS 3 Credit Hours
(Slashed with NURS 60010) Course focuses on the role of informatics in advanced nursing practice through examination and application of theories, trends and policies for generation, storage, retrieval and analysis of health information. Students examine the use of information structures, processes and technology to support clinical decision-making to achieve patient and healthcare outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70016 ADVANCED ASSESSMENT, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE NURSE LEADER 3 Credit Hours
(Slashed with NURS 60016) Course explores concepts of advanced assessment, pathophysiology and pharmacology topics to meet the complex needs of diverse patient populations and prepare learners to use this knowledge in the role of a nurse leader.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70020 LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS 3 Credit Hours
(Slashed with NURS 60020) This course focuses on legal and regulatory structures and issues and explores the impact of these topics on health care environments. Concepts and processes of accreditation, magnet designation, licensure and government regulation are explored.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70024 HEALTH CARE ORGANIZATION, STRUCTURE AND BEHAVIOR 3 Credit Hours
(Slashed with NURS 60024) Course focuses on the structures and behaviors common in health care organizations. Historical perspectives, organizational theories and types and characteristics of health care organizations are explored.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70089 INTERNATIONAL HEALTH CARE POLICIES 3 Credit Hours
(Slashed with NURS 40089 and NURS 50089)(Repeatable for credit) This course looks at the organizational and societal context in which health care is delivered in specific countries worldwide. A historical perspective is developed early in the semester. Building on this, the course explores existing health care policies in a specific population or county. This course further examines existing health networks, forms of care delivery, consumer needs and economics and funding for an identified population.
Prerequisite: Nursing major; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70101 THEORETICAL BASIS FOR NURSING PRACTICE 3 Credit Hours
(Slashed with NURS 60101) Course incorporates nursing theories, science and evidence-based practice to enhance clinical judgements that promote compassionate, person-centered care.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70292 INTEGRATION OF CLINICAL EXPERTISE INTO THE HEALTHCARE MANAGEMENT ROLE PRACTICUM 2 Credit Hours
This practicum course provides students with the opportunity to apply advanced concepts in assessment, pathophysiology and pharmacology within the nurse administrator role in real-world healthcare settings. Through hands-on experiences, students work with interdisciplinary healthcare professionals to address population-specific health challenges. Successful completion of this course requires full compliance with the College of Nursing Clinical Compliance Policy. Completion of 150 practicum hours is required.
Prerequisite: NURS 70621 and NURS 70711; and doctoral standing.
Pre/corequisite: NURS 70016.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 70315 BUDGETARY AND FISCAL MANAGEMENT FOR NURSES 3 Credit Hours
(Slashed with NURS 60315) Course examines management of fiscal resources in nursing service settings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70403 METHODS OF INQUIRY 3 Credit Hours
(Slashed with NURS 60403) Course covers surveys types of research designs and methods that produce evidence contributing to positive patient outcomes. For each design, students learn essential elements, appropriate use and the criteria for rigor within the context of patient outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70592 DOCTORAL NURSING PRACTICE PRACTICUM 1-2 Credit Hours
(Repeatable for credit) This course will be repeated beginning the second semester of enrollment until the completion of the scholarly project. The student will design a scholarly project, complete the project proposal defense, successfully obtain IRB approval if needed, implement the scholarly project and successfully defend the completed scholarly project. A minimum of 7 credit hours of this course, which equals 525 practicum hours, are required for these scholarly project activities. The Project Chair will be responsible for the oversight of these activities. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course.
Prerequisite: NURS 70630 and NURS 70620; and doctoral standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 5-10 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NURS 70620 DOCTOR OF NURSING PRACTICE SEMINAR 3 Credit Hours
This course is an introduction and overview of the DNP degree as the foundation for translational science in healthcare organizations. DNP Essentials and the associated competencies will be explored (i.e., DNP scholarly inquiry, interdisciplinary collaboration, systems thinking, and organizational leadership). The structure and function of the DNP committee and the requirements for the final scholarly project will be discussed. A complete and thorough literature review to support the DNP Scholarly Project will be a requirement. A Committee Chair will be assigned. The role of the academic advisor and committee chairperson will be explained.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70621 D.N.P. ROLE DEVELOPMENT AND PROFESSIONAL LEADERSHIP 1 Credit Hour
This course introduces students to the role of the Doctor of Nursing Practice within various healthcare settings. It provides an overview of the D.N.P. role of leadership, policy advocacy, interprofessional collaboration and the integration of evidence-based practice into clinical decision-making. Students differentiate the role of the D.N.P.- and Ph.D.- prepared nurse, as well as describe the collaborative opportunities for D.N.P.- and Ph.D.- prepared nurses to impact health outcomes.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

NURS 70630 RESEARCH METHODS FOR EVIDENCE BASED PRACTICE 3 Credit Hours
The focus of this course is to provide instruction regarding concepts related to statistical methods and their application in evidence-based practice. Essentials of research methods in evidence-based practice will also be covered. Students will learn to critically analyze and synthesize research findings.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70635 APPLICATION OF EVIDENCE BASED PRACTICE 3 Credit Hours
Focus of course is on the concepts, models, and methods for implementation of evidence-based nursing practice at both individual clinician and system levels. Students will learn to design, implement and evaluate processes and programs at the practice and organizational level to improve healthcare outcomes. Leadership attributes necessary to lead change in practice will be discussed. Factors that facilitate and impede implementing and sustaining evidence-based practice are considered.
Prerequisite: NURS 70630; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70640 ADVANCED LEADERSHIP IN HEALTHCARE 3 Credit Hours
Advanced competencies of the doctoral-prepared advanced practice nurse for transformational leadership in healthcare to improve patient and population health outcomes are addressed. Five key leadership competencies including creating and leading change; self-knowledge; strategic vision; interpersonal communication; and organizational effectiveness are presented with examples and case studies. Transcending themes of ethics, research, interprofessional collaboration, creativity, and insuring accountability are addressed throughout the course. Students conduct a self-assessment, and develop and implement individualized action plans for advanced competency in interprofessional healthcare leadership.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70641 EXECUTIVE LEADERSHIP IN NURSING 3 Credit Hours
This course prepares the nurse to serve at the highest level of healthcare organizations. Students will be challenged to develop communication skills that lead to effective interprofessional collaboration across the health care system, design and oversee dynamic practice environments, develop skills to analyze and address complex organizational situations, influence organizational decisions, and lead change through innovation and evidence-based practice to enhance patient/client outcomes while ensuring organizational financial integrity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70650 ORGANIZATIONAL SYSTEMS 3 Credit Hours
Building on the skills in Advanced Leadership for Healthcare Providers, students will gain an understanding of organizational culture and management structures that contribute to the design and delivery of healthcare. Economic, political and cultural aspects of organizational systems will be discussed.
Prerequisite: NURS 70640; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70651 ADVANCED LEGAL, REGULATORY AND POLICY CONSIDERATIONS FOR NURSE 3 Credit Hours
This course focuses on legal, regulatory, and policy considerations that impact health care delivery. Theory and application are integrated and focus the student on preparing to assume an executive-level doctor of nursing practice role.
Prerequisite: NURS 60020; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70670 QUALITY IMPROVEMENT IN HEALTHCARE DELIVERY 3 Credit Hours
Focus on the design, implementation and evaluation of quality and patient safety initiatives to improve healthcare delivery at the individual patient and system levels. Data necessary to support quality initiatives will be considered as well as policy, legal and ethical implications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70680 POPULATION HEALTH 3 Credit Hours
Students will explore care delivery models and strategies for health promotion and disease prevention in individuals, aggregates and populations. Gaps in care and healthcare access will be explored, including social, cultural, economic, and policy and political barriers. The role of genomics in healthcare delivery of populations will be discussed. Students will develop skills to design and evaluate health promotion and disease prevention programs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70685 HEALTHCARE FINANCE AND ECONOMIC POLICY 3 Credit Hours
Students will gain an understanding of healthcare finance, economics and policy on healthcare delivery systems. The impact of current healthcare laws-policies (Affordable Care Act, HCAHPS, and other care delivery and reimbursement strategies) will be discussed. The DNP prepared nurses' role in patient advocacy and policy development will be discussed. Student will gain an understanding of cost-benefit analyses and creating budgets to support the design, implementation and sustainability of healthcare delivery initiatives.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70686 APPLIED ECONOMIC AND FINANCIAL PRINCIPLES FOR THE NURSE EXECUTIVE 3 Credit Hours
Students apply economic, financial principles and the impact of regulation to the development, evaluation and monitoring of health care delivery systems and practice. Theory and application are integrated and focus the student on preparing to assume an executive-level doctor of nursing practice role.
Prerequisite: NURS 70651; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70710 HISTORY AND PHILOSOPHY OF NURSING SCIENCE 2 Credit Hours
This course takes a historical approach to explore the development of natural philosophy to modern science, with an emphasis on nursing science under the influence of Western ideas. It emphasizes how ontological and epistemological values have shaped the scientific method during the pre-modern, modern and post-modern periods. Additionally, it delves into emerging philosophical concepts such as artificial intelligence, moral and ethical development and health equity.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 70711 SCIENTIFIC WRITING 3 Credit Hours
Courses covers the knowledge and skills needed for scientific writing. Students engage in several types of scientific writing. The course includes understanding of the scientific norms associated with scientific writing, publishing and dissemination. Types of scientific literature review are discussed. Students will conduct a literature review relevant to their research interest, synthesize the literature, identify gaps, and write a synthesis of the literature that will be included the final project. Ethical issues and authorship considerations are discussed.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70712 RESEARCH DESIGN FUNDAMENTALS 3 Credit Hours
The course focuses on learning fundamental methodological concepts and tools that enable an understanding of research problems and serve as a basis for conducting quantitative and qualitative research. There is emphasis on linking theoretical concepts and research models to research questions, hypotheses and designs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70713 ADVANCED STATISTICS I 3 Credit Hours
This course focuses on learning introductory descriptive, parametric and non-parametric statistical models. Students learn how to enter, clean and handle missing data, as well as perform analyses using SPSS. Expected outcomes are a conceptual understanding of statistical models covered in the course, interpretation of output of statistical analyses and communication of findings in oral and written work.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70714 LEADERSHIP FOR NURSING SCIENCE 3 Credit Hours
This course focuses on the development of the nurse scientist as a leader across health care and higher educational systems, as well as in influencing and formulating healthcare policy.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70715 THEORY CONSTRUCTION AND DEVELOPMENT IN NURSING 3 Credit Hours
This course examines strategies for theory development, including logical-empirical-deductive and inductive approaches. A thorough examination of the theoretical literature is required to explore the existing gaps in theoretical frameworks, including identifying gaps related to health equity concepts. Emphasis is on elements and strategies used in theory building.
Prerequisite: Doctoral standing.
Pre/corequisite: NURS 70710.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70716 INNOVATION AND INTERVENTION RESEARCH 3 Credit Hours
By the end of this course, students are able to apply human-centered design thinking principles in combination with scientifically grounded research methods to develop, prototype and test innovative solutions addressing complex healthcare problems, while demonstrating the ability to balance creative problem-solving with academic rigor.
Prerequisite: NURS 70712 and NURS 70713; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70718 ROLES AND EVALUATION 3 Credit Hours
To prepare individuals in their role as an academician in nursing and promote the transmission of science through mentorship and service. This course prepares individuals for the role as nursing faculty. This course also addresses social, legal and ethical issues in nursing education especially related to creating a sense of belonging and addressing structural inequities.
Prerequisite: Doctoral standing.
Pre/corequisite: NURS 70710 and NURS 70715.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70739 RESEARCH IN HEALTH DISPARITIES 3 Credit Hours
This course focuses on the definition, principles and concepts for health disparities research and minority health outcomes. The goal is to explore the different government agencies that lay the groundwork for the development of the science related to health disparities. Students understand some of the social determinants that cause, sustain or mitigate health disparities, and how the knowledge will translate into interventions in reducing these disparities.
Prerequisite: NURS 70712, NURS 70713 and NURS 70715; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70740 ADVANCED STATISTICS II 3 Credit Hours
This course provides in-depth knowledge of multivariate data analysis, including statistical tests used to determine the degree of relationship, analysis of group differences, prediction of group membership, data structure techniques and internal reliability. Course outcomes include a conceptual understanding of these models and the ability to conduct and interpret output of statistical analyses and communicate findings in oral and written work. Knowledge of SPSS is required.
Prerequisite: NURS 70713; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70741 ADVANCED STATISTICS III 3 Credit Hours
This course focuses on more advanced statistical models used in nursing, including but not limited to, confirmatory factor analysis, path analysis and structural equation modeling. Course outcomes are a conceptual understanding of these models and ability to interpret output of statistical analyses and communicate findings in oral and written work.
Prerequisite: NURS 70740; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70742 ADVANCED QUALITATIVE METHODS FOR HEALTH SCIENCES 4 Credit Hours
Selected qualitative research methods used to study nursing phenomena. Students analyze the following with regard to nursing phenomena: philosophical bases; design, sampling, recruitment, data collection and analysis and evaluation of rigor.
Prerequisite: NURS 70710 and NURS 70712; and doctoral standing.
Pre/corequisite: NURS 70715.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

NURS 70743 ADVANCED QUANTITATIVE METHODS FOR HEALTH SCIENCES 4 Credit Hours
This course extends knowledge of quantitative methodology that focuses on the integration and application of elements of components of quantitative research design in nursing through the application of multivariate design principles. Advanced topics in methods, sampling, data collection, measurement and data management are addressed. Students are able to apply quantitative principles and methods consistent with theoretical and empirical knowledge to address scientific rigor, health and healthcare equity with diverse populations.
Prerequisite: NURS 70710 and NURS 70712 and NURS 70715; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

NURS 70744 DISSERTATION FOUNDATIONS 3 Credit Hours
In this course, students develop skills to make a persuasive, ethical, theoretical, philosophical and methodologically sound argument addressing at least one critical gap in nursing science by drafting the first three chapters of their dissertation. The course emphasizes the clear and persuasive communication of scientific knowledge, demonstrating the student's readiness for the oral candidacy exam.
Prerequisite: NURS 70740 and NURS 70743; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

NURS 70750 D.N.P. DATA SCIENCE FOR HEALTHCARE QUALITY 3 Credit Hours
Course focuses on using data science to drive quality improvement in healthcare. Students learn how to harness nursing data to transform complex healthcare data into actionable insights, enabling real-time decisions that directly influence quality improvements. Students explore nursing data science techniques to set benchmarks for quality and safety. Through practical applications and real-world examples, students develop the expertise to implement nursing solutions that elevate both care quality, patient safety and operational efficiency within healthcare systems.
Prerequisite: NURS 70403 or NURS 70630; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70753 DATA SCIENCE AND NURSING 3 Credit Hours
This course provides students with a rigorous understanding of health informatics and data science at the doctoral level, focusing on big data sets in healthcare. Students learn core principles of health informatics and explore its practical applications, including identifying innovative research models for analyzing large-scale data to evaluate patient health outcomes. Emphasis is placed on selecting measurable constructs and applying statistical analysis to identify factors that significantly influence overall patient health outcomes.
Prerequisite: NURS 70712 and NURS 70740; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70791 VARIABLE CONTENT SEMINAR: EMERGING ISSUES IN NURSING SCIENCE AND RESEARCH 3 Credit Hours
(Repeatable for credit) This seminar course will examine in-depth current scientific trends and emerging topics in nursing research.
Prerequisite: NURS 70742 and NURS 70743; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 70795 SPECIAL TOPICS IN NURSING 2-6 Credit Hours
(Repeatable for credit) Study of important topics in nursing practice, research on the profession. Offering in response to existing interests and opportunities.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2-6 lecture
Grade Mode: Standard Letter

NURS 70796 INDIVIDUAL INVESTIGATION IN NURSING 1-3 Credit Hours
(Repeatable for credit)Individual enrollment for independent study in nursing carried out by student under supervision of a doctoral faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

NURS 70798 RESEARCH IN NURSING 1-5 Credit Hours
(Repeatable for credit) Research activities are carried out by a student under faculty supervision, including but not limited to, data collection, coding, entry and analysis, inter-professional teamwork and preparation and submission of research presentations and manuscripts.
Prerequisite: NURS 70742; and doctoral standing.
Pre/corequisite: NURS 70743.
Schedule Type: Research
Contact Hours: 6-15 other
Grade Mode: Satisfactory/Unsatisfactory

NURS 72692 D.N.P. PROJECT I: EVIDENCE-BASED PRACTICE PROJECT PLANNING AND PROPOSAL 3 Credit Hours
Students design an evidence-based practice (EBP) project for implementation in a healthcare and /or community setting. Students evaluate and apply EBP models to real-world clinical problems, emphasizing the integration of research findings into practice. Key topics include formulating the clinical PICO(T) question, conducting systematic reviews and utilizing advanced search strategies for literature retrieval. Students assess the quality of evidence and apply it to health care settings, enhancing decision-making skills and promoting quality improvement in diverse healthcare environments. Course concludes with successful passage of the D.N.P. project proposal. Course includes a required 150-hour practicum.
Prerequisite: Doctoral standing and special approval.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 10 other
Grade Mode: Standard Letter

NURS 72792 D.N.P. PROJECT II: IMPLEMENTATION AND EVALUATION OF EVIDENCE-BASED INTERVENTIONS 3 Credit Hours
Course focuses on the implementation and evaluation of evidence-based interventions in healthcare and/or community settings. Students collaborate with the healthcare or community setting to complete an Institutional Review Board (IRB) review and implement the evidence-based practice project. Students apply change management and nursing theories, strategies for overcoming barriers to implementation and methods for evaluating the effectiveness of interventions. Course includes a required 250-hour practicum.
Prerequisite: NURS 72692; and doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: .67 lecture, 16.67 other
Grade Mode: Standard Letter

NURS 72892 D.N.P. PROJECT III: DATA ANALYSIS AND INTERPRETATION FOR EVIDENCE-BASED PRACTICE 3 Credit Hours
This course is the culmination of the D.N.P. curriculum as demonstrated in the evidence-based practice (EBP) project. Students develop advanced skills in data analysis and interpretation essential for D.N.P.-prepared practice. Emphasis is placed on statistical techniques, data management and interpretation of results. Students disseminate their findings from the EBP project in a defense presentation and scholarly writing. Course includes a required 150-hour practicum.
Prerequisite: NURS 72792; and doctoral standing.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture, 10 other
Grade Mode: Standard Letter

NURS 74002 PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS 3 Credit Hours
(Slashed with NURS 64002) Course focuses on processes for planning, developing and evaluating programs in health care. Students consider analysis of theories, models, issues and challenges related to program planning, development and evaluation relevant to the nurse administrator.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

NURS 74292 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM 2 Credit Hours
(Repeatable for credit) Application of principles of leadership and management introduced in NURS 74202 and in other program courses. Students acquire competencies related to leading others in a health care organization. Students must be fully compliant with the College of Nursing Clinical Compliance Policy to register for this course. Students complete 150 practicum hours.
Prerequisite: NURS 70016 and NURS 70292; and doctoral standing.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter

NURS 74302 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP SEMINAR 2 Credit Hours
(Slashed with NURS 64302) Capstone seminar with a practicum in a health care organization. Students further integrate and apply management knowledge and their professional roles coached by established health care leaders.
Prerequisite: NURS 74292; and doctoral standing.
Pre/corequisite: NURS 74692.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NURS 74692 EXECUTIVE LEADERSHIP PRACTICUM 3 Credit Hours
(Repeatable for credit) Course prepares the nurse to serve at the highest level of healthcare organizations. Students are challenged to develop communication skills that lead to effective interprofessional collaboration across the health care system; design and oversee dynamic practice environments; develop skills to analyze and address complex organizational situations; influence organizational decisions; and lead change through innovation and evidence-based practice to enhance patient/client outcomes while ensuring organizational financial integrity.
Prerequisite: Doctoral standing.
Pre/corequisite: NURS 74302.
Schedule Type: Practical Experience
Contact Hours: 10 other
Grade Mode: Standard Letter-IP

NURS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Independent doctoral research for the dissertation under faculty supervision. Registration of at least two semesters is require, continuing until completion of 30 credit hours. Akron 8200:899.
Prerequisite: Admission to doctoral candidacy; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

NURS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration of research, after initial 30 hours of Dissertation I.
Prerequisite: 30 hours of NURS 80199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Adult Gerontology Acute Care Nurse Practitioner - Graduate Certificate

College of Nursing
www.kent.edu/nursing

About This Program

The Adult Gerontology Acute Care Nurse Practitioner graduate certificate provides nurses who already have a graduate nursing degree the additional specialized knowledge and clinical experience for the adult gerontology acute care nurse practitioner role. The certificate meets the educational requirements for national certification examination.

Contact Information

- **Teresa Adams** | tadams27@kent.edu | 330-672-8761
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000-point scale
- Official transcript(s) of all previous graduate coursework[1]
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Curriculum vitae
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals *(starting with spring 2026 admission term, goal statement is no longer required)*
- Admission essay *is required starting with spring 2026 admission term* responding to the following questions (two pages, double spaced, 500 words):
  - How do you plan to contribute to the nursing profession and healthcare community after earning your M.S.N. degree?
  - How has your experience, professional development and service within the profession contributed to your readiness for graduate education?
  - What experience do you have working as a nurse caring for the underserved, high-risk, or vulnerable populations?
- Syllabi of all courses to considered for transfer in the gap analysis
- Three professional letters of reference from healthcare professionals, either a supervisor and/or an advanced practice nurse who can speak to the applicant's professional capabilities
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet **specific exceptions to waive**) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 1
- **Spring Semester**
  - Priority deadline: October 1
- **Summer Term**
  - Priority deadline: March 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
NURS 60015	ADVANCED HEALTH ASSESSMENT [1]	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE [1]	3
NURS 60129	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I	3
NURS 60230	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III	4
NURS 60126	FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE AND PROCEDURES	2
NURS 60330	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV	2
NURS 60441	PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE [1]	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3

NURS 61092	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I PRACTICUM	2
NURS 61392	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER II PRACTICUM	2
NURS 62392	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III PRACTICUM	2
NURS 63392	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV PRACTICUM	2
Minimum Total Credit Hours:		**31**

[1] This course may be waived or transferred if it was previously completed with a grade of B or better. Please refer to the Transfer of Graduate Credit Policy for more information.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Meet standards for advanced practice certification or other advanced professional distinction.
2. Demonstrate competencies based on professional standards to assume advanced roles in nursing and for leadership and career advancement, including doctoral study.
3. Communicate, integrate and apply advanced nursing knowledge and skills to provide equitable, evidence-based and inclusive nursing care, and to promote quality outcomes in nursing and health care.

Program Policies
Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.
3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Time Limit for Graduate Nursing Courses

Certain courses are critical to be completed within a timely manner for patient safety as well as student success in the program. This policy ensures that clinical skills and critical knowledge learned in specific courses taken three or more years ago are refreshed before moving to more advanced levels of practice.

Students who have stopped out of the clinical sequence of courses for a period of time must repeat the following practicum and corequisite lecture courses if they are three of more years old:

- NURS 60110 and NURS 61192
- NURS 60120 and NURS 61292
- NURS 60125 and NURS 61892
- NURS 60126 and NURS 61392
- NURS 60126 and NURS 61892
- NURS 60129 and NURS 61092
- NURS 60151 and NURS 61592
- NURS 60160 and NURS 61692
- NURS 60170 and NURS 61792
- NURS 60210 and NURS 62192
- NURS 60220 and NURS 62292

- NURS 60230 and NURS 62392
- NURS 60251 and NURS 63592
- NURS 60270 and NURS 62792
- NURS 60310 and NURS 63192
- NURS 60320 and NURS 63692
- NURS 60325 and NURS 63292
- NURS 60330 and NURS 63392
- NURS 60353 and NURS 64592
- NURS 60370 and NURS 63792
- NURS 60372 and NURS 63992
- NURS 60470 and NURS 64792
- NURS 62592
- NURS 66100 and NURS 66192
- NURS 66200 and NURS 66292
- NURS 66300 and NURS 66392
- NURS 66400 and NURS 66492

Certifying agencies and state licensing requirements for advanced practice registered nurses have time limits for critical courses. Courses completed outside of this time frame may need to be repeated prior to seeking national certification. Students are advised to check with certifying agencies and state licensing agencies upon admission to determine if the age of their prior courses will meet requirements.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Adult Gerontology Clinical Nurse Specialist - Graduate Certificate

College of Nursing
www.kent.edu/nursing

About This Program

The Adult Gerontology Clinical Nurse Specialist graduate certificate provides nurses who already have a graduate nursing degree the additional specialized knowledge for the adult gerontology clinical nurse specialist role. The certificate meets the educational requirements for the national certification examination.

Contact Information

- **Teresa Adams** | tadams27@kent.edu | 330-672-8761
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000-point scale
- Official transcript(s) of all previous graduate coursework[1]
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Curriculum vitae
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals *(starting with spring 2026 admission term, goal statement is no longer required)*
- Admission essay *is required starting with spring 2026 admission term* responding to the following questions (two pages, double spaced, 500 words):
  - How do you plan to contribute to the nursing profession and healthcare community after earning your M.S.N. degree?
  - How has your experience, professional development and service within the profession contributed to your readiness for graduate education?
  - What experience do you have working as a nurse caring for the underserved, high-risk or vulnerable populations?
- Syllabi of all courses to considered for transfer in the gap analysis
- Three professional letters of reference from healthcare professionals, either a supervisor and/or an advanced practice nurse who can speak to the applicant's professional capabilities
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet **specific exceptions to waive**) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 1
- **Spring Semester**
  - Priority deadline: October 1

- **Summer Term**
  - Priority deadline: March 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
NURS 60015	ADVANCED HEALTH ASSESSMENT [1]	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE [1]	3
NURS 60441	PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE [1]	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 60110	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I	3
NURS 60210	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II	3
NURS 60310	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III	3
NURS 61192	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I PRACTICUM	2
NURS 62192	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II PRACTICUM	2-3
NURS 63192	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III PRACTICUM	2-3
Minimum Total Credit Hours:		**28**

[1] This course may be waived or transferred if it was previously completed with a grade of B or better. Please refer to the Transfer of Graduate Credit Policy for more information.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Meet standards for advanced practice certification or other advanced professional distinction.
2. Demonstrate competencies based on professional standards to assume advanced roles in nursing and for leadership and career advancement, including doctoral study.
3. Communicate, integrate and apply advanced nursing knowledge and skills to provide equitable, evidence-based and inclusive nursing care and to promote quality outcomes in nursing and health care.

Program Policies

Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.
3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Time Limit for Graduate Nursing Courses

Certain courses are critical to be completed within a timely manner for patient safety as well as student success in the program. This policy ensures that clinical skills and critical knowledge learned in specific courses taken three or more years ago are refreshed before moving to more advanced levels of practice.

Students who have stopped out of the clinical sequence of courses for a period of time must repeat the following practicum and corequisite lecture courses if they are three of more years old:

- NURS 60110 and NURS 61192
- NURS 60120 and NURS 61292
- NURS 60125 and NURS 61892
- NURS 60126 and NURS 61392
- NURS 60126 and NURS 61892
- NURS 60129 and NURS 61092
- NURS 60151 and NURS 61592
- NURS 60160 and NURS 61692
- NURS 60170 and NURS 61792
- NURS 60210 and NURS 62192
- NURS 60220 and NURS 62292
- NURS 60230 and NURS 62392
- NURS 60251 and NURS 63592
- NURS 60270 and NURS 62792
- NURS 60310 and NURS 63192
- NURS 60320 and NURS 63692
- NURS 60325 and NURS 63292
- NURS 60330 and NURS 63392
- NURS 60353 and NURS 64592
- NURS 60370 and NURS 63792
- NURS 60372 and NURS 63992
- NURS 60470 and NURS 64792
- NURS 62592
- NURS 66100 and NURS 66192
- NURS 66200 and NURS 66292
- NURS 66300 and NURS 66392
- NURS 66400 and NURS 66492

Certifying agencies and state licensing requirements for advanced practice registered nurses have time limits for critical courses. Courses completed outside of this time frame may need to be repeated prior to seeking national certification. Students are advised to check with certifying agencies and state licensing agencies upon admission to determine if the age of their prior courses will meet requirements.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Adult Gerontology Primary Care Nurse Practitioner - Graduate Certificate

College of Nursing
www.kent.edu/nursing

About This Program

The Adult Gerontology Primary Care Nurse Practitioner graduate certificate provides nurses who already have a graduate nursing degree the additional specialized knowledge for the adult gerontology primary care nurse practitioner role. The certificate meets the educational requirements for the national certification examination.

Contact Information

- **Teresa Adams** | tadams27@kent.edu | 330-672-8761
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000-point scale
- Official transcript(s) of all previous graduate coursework[1]
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Curriculum vitae
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals *(starting with spring 2026 admission term, goal statement is no longer required)*
- Admission essay *is required starting with spring 2026 admission term* responding to the following questions (two pages, double spaced, 500 words):
  - How do you plan to contribute to the nursing profession and healthcare community after earning your M.S.N. degree?
  - How has your experience, professional development and service within the profession contributed to your readiness for graduate education?
  - What experience do you have working as a nurse caring for the underserved, high-risk or vulnerable populations?
- Syllabi of all courses to considered for transfer in the gap analysis

- Three professional letters of reference from healthcare professionals, either a supervisor and/or an advanced practice nurse who can speak to the applicant's professional capabilities
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet **specific exceptions to waive**) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 1
- **Spring Semester**
  - Priority deadline: October 1
- **Summer Term**
  - Priority deadline: March 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
NURS 60015	ADVANCED HEALTH ASSESSMENT [1]	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE [1]	3
NURS 60120	ADULT GERONTOLOGY PRIMARY CARE I	3
NURS 60125	FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE	1
NURS 60220	PRIMARY CARE II: CHRONICALLY ILL ADULTS	3
NURS 60320	ADULT GERONTOLOGY PRIMARY CARE III	3
NURS 60441	PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE [1]	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 61292	ADULT GERONTOLOGY PRIMARY CARE I PRACTICUM	2
NURS 61892	FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE PRACTICUM	1
NURS 62292	PRIMARY CARE II PRACTICUM: CHRONICALLY ILL ADULTS	2
NURS 63692	ADULT GERONTOLOGY COMPREHENSIVE PRIMARY CARE III PRACTICUM	2
Minimum Total Credit Hours:		**29**

[1] This course may be waived or transferred if it was previously completed with a grade of B or better. Please refer to the Transfer of Graduate Credit Policy for more information.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Meet standards for advanced practice certification or other advanced professional distinction.
2. Demonstrate competencies based on professional standards to assume advanced roles in nursing, and for leadership and career advancement, including doctoral study.
3. Communicate, integrate and apply advanced nursing knowledge and skills to provide equitable, evidence-based and inclusive nursing care and to promote quality outcomes in nursing and health care.

Program Policies

Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.
3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into

the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Time Limit for Graduate Nursing Courses

Certain courses are critical to be completed within a timely manner for patient safety as well as student success in the program. This policy ensures that clinical skills and critical knowledge learned in specific courses taken three or more years ago are refreshed before moving to more advanced levels of practice.

Students who have stopped out of the clinical sequence of courses for a period of time must repeat the following practicum and corequisite lecture courses if they are three of more years old:

- NURS 60110 and NURS 61192
- NURS 60120 and NURS 61292
- NURS 60125 and NURS 61892
- NURS 60126 and NURS 61392
- NURS 60126 and NURS 61892
- NURS 60129 and NURS 61092
- NURS 60151 and NURS 61592
- NURS 60160 and NURS 61692
- NURS 60170 and NURS 61792
- NURS 60210 and NURS 62192
- NURS 60220 and NURS 62292
- NURS 60230 and NURS 62392
- NURS 60251 and NURS 63592
- NURS 60270 and NURS 62792
- NURS 60310 and NURS 63192
- NURS 60320 and NURS 63692
- NURS 60325 and NURS 63292
- NURS 60330 and NURS 63392
- NURS 60353 and NURS 64592
- NURS 60370 and NURS 63792
- NURS 60372 and NURS 63992
- NURS 60470 and NURS 64792
- NURS 62592
- NURS 66100 and NURS 66192
- NURS 66200 and NURS 66292
- NURS 66300 and NURS 66392
- NURS 66400 and NURS 66492

Certifying agencies and state licensing requirements for advanced practice registered nurses have time limits for critical courses. Courses completed outside of this time frame may need to be repeated prior to seeking national certification. Students are advised to check with certifying agencies and state licensing agencies upon admission to determine if the age of their prior courses will meet requirements.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Adult/Adolescent Sexual Assault Nurse Examiner - Graduate Certificate

College of Nursing
www.kent.edu/nursing

About This Program

The Adult/Adolescent Sexual Assault Nurse Examiner Graduate Certificate program provides advanced training in caring for patients who have experienced sexual violence. With a focus on evidence-based practice and trauma-informed care, this certificate will equip you with the skills and knowledge necessary to provide compassionate care and support to those in need. Read more...

Contact Information

- **Teresa Adams** | tadams27@kent.edu | 330-672-8761
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Mostly online
  - In person

- **Location:**
  - Kent Campus

Applications to the Adult/Adolescent Sexual Assault Nurse Examiner graduate certificate are not being accepted at this time.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Adult/Adolescent Sexual Assault Nurse Examiner graduate certificate are not being accepted at this time.

- Bachelor's or master's degree from an accredited nursing program
- Minimum 3.000 undergraduate or graduate GPA on a 4.000-point scale
- Official transcript(s)
- Active, unrestricted registered nurse license in the state of Ohio
- Two years of full-time registered nurse experience
- Résumé or curriculum vitae
- Goal statement (250 words) describing reasons for seeking the certificate
- Three letters of recommendation from health care professionals
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet **specific exceptions to waive**) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
NURS 67100	ADULT/ADOLESCENT SEXUAL ASSAULT NURSE EXAMINER TRAINING	3
NURS 67192	SEXUAL ASSAULT NURSE EXAMINER I PRACTICUM	1
NURS 67200	SEXUAL ASSAULT NURSE EXAMINER ADMINISTRATIVE CONCEPTS AND EVALUATION	3
NURS 67292	SEXUAL ASSAULT NURSE EXAMINER II PRACTICUM	1
NURS 67300	POPULATION HEALTH AND SEXUAL ASSAULT	3
NURS 67392	SEXUAL ASSAULT NURSE EXAMINER III PRACTICUM	1
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
NURS 67100	ADULT/ADOLESCENT SEXUAL ASSAULT NURSE EXAMINER TRAINING	3
NURS 67192	SEXUAL ASSAULT NURSE EXAMINER I PRACTICUM	1
	Credit Hours	**4**
Semester Two		
NURS 67200	SEXUAL ASSAULT NURSE EXAMINER ADMINISTRATIVE CONCEPTS AND EVALUATION	3
NURS 67292	SEXUAL ASSAULT NURSE EXAMINER II PRACTICUM	1
	Credit Hours	**4**
First Summer Term		
NURS 67300	POPULATION HEALTH AND SEXUAL ASSAULT	3
NURS 67392	SEXUAL ASSAULT NURSE EXAMINER III PRACTICUM	1
	Credit Hours	**4**
	Minimum Total Credit Hours:	**12**

Program Learning Outcomes

Graduates of this program will be able to:

1. Meet standards for advanced professional distinction.
2. Assume an advanced role in nursing and for leadership and career advancement.
3. Communicate, integrate and apply advanced nursing knowledge and skills to provide evidence-based, culturally sensitive nursing care and promote quality outcomes in nursing and healthcare.

Program Policies

Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.

3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Time Limit for Graduate Nursing Courses

Certain courses are critical to be completed within a timely manner for patient safety as well as student success in the program. This policy ensures that clinical skills and critical knowledge learned in specific courses taken three or more years ago are refreshed before moving to more advanced levels of practice.

Students who have stopped out of the clinical sequence of courses for a period of time must repeat the following practicum and corequisite lecture courses if they are three of more years old:

- NURS 60110 and NURS 61192
- NURS 60120 and NURS 61292
- NURS 60125 and NURS 61892
- NURS 60126 and NURS 61392
- NURS 60126 and NURS 61892
- NURS 60129 and NURS 61092
- NURS 60151 and NURS 61592
- NURS 60160 and NURS 61692
- NURS 60170 and NURS 61792
- NURS 60210 and NURS 62192
- NURS 60220 and NURS 62292
- NURS 60230 and NURS 62392
- NURS 60251 and NURS 63592
- NURS 60270 and NURS 62792
- NURS 60310 and NURS 63192
- NURS 60320 and NURS 63692
- NURS 60325 and NURS 63292
- NURS 60330 and NURS 63392
- NURS 60353 and NURS 64592
- NURS 60370 and NURS 63792
- NURS 60372 and NURS 63992
- NURS 60470 and NURS 64792
- NURS 62592
- NURS 66100 and NURS 66192
- NURS 66200 and NURS 66292
- NURS 66300 and NURS 66392
- NURS 66400 and NURS 66492

Certifying agencies and state licensing requirements for advanced practice registered nurses have time limits for critical courses. Courses completed outside of this time frame may need to be repeated prior to seeking national certification. Students are advised to check with certifying agencies and state licensing agencies upon admission to determine if the age of their prior courses will meet requirements.

Full Description

The Adult/Adolescent Sexual Assault Nurse Examiner graduate certificate provides registered nurses the specialized training necessary to be certified as a sexual assault nurse examiner (SANE) for adult and adolescent patients. A SANE provides comprehensive care to victims of sexual assault or abuse. In addition, they conduct a forensic examination and may provide expert testimony if a case goes to trial.

Nurses receive their SANE certification through the International Association of Forensic Nurses, Commission on Forensic Nursing Certification. To be certified, nurses with a minimum of two years of full-time experience must have completed a minimum of 40 hours of sexual assault education; worked under the supervision of an expert (e.g., SANE-certified nurse); performed enough sexual assault exams to demonstrate clinical competency; and successfully passed a certification test.

The certificate's didactic courses will be offered on-ground and online at the Kent Campus, and the practicum experiences will be conducted at the Sexual Assault Evidence Collection and Care Facility of Cleveland Clinic Akron General.

Family Nurse Practitioner - Graduate Certificate

College of Nursing
www.kent.edu/nursing

About This Program

The Family Nurse Practitioner graduate certificate provides nurses who already have a graduate nursing degree to acquire the additional specialized knowledge and clinical experience for the family nurse practitioner role. The certificate meets the educational requirements for the national certification examination.

Contact Information

- **Teresa Adams** | tadams27@kent.edu | 330-672-8761
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**
  - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000-point scale
- Official transcript(s) of all previous graduate coursework[1]
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Curriculum vitae
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals *(starting with spring 2026 admission term, goal statement is no longer required)*
- Admission essay *is required starting with spring 2026 admission term* responding to the following questions (two pages, double spaced, 500 words):
  - How do you plan to contribute to the nursing profession and healthcare community after earning your M.S.N. degree?
  - How has your experience, professional development and service within the profession contributed to your readiness for graduate education?
  - What experience do you have working as a nurse caring for the underserved, high-risk or vulnerable populations?
- Syllabi of all courses to considered for transfer in the gap analysis
- Three professional letters of reference from healthcare professionals, either a supervisor and/or an advanced practice nurse who can speak to the applicant's professional capabilities
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet **specific exceptions to waive**) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 1
- **Spring Semester**
  - Priority deadline: October 1
- **Summer Term**
  - Priority deadline: March 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
NURS 60015	ADVANCED HEALTH ASSESSMENT [1]	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE [1]	3
NURS 60120	ADULT GERONTOLOGY PRIMARY CARE I	3
NURS 60125	FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE	1
NURS 60160	PRIMARY CARE PEDIATRICS	3
NURS 60220	PRIMARY CARE II: CHRONICALLY ILL ADULTS	3
NURS 60325	PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS	4
NURS 60441	PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE [1]	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 61292	ADULT GERONTOLOGY PRIMARY CARE I PRACTICUM	2
NURS 61692	PRIMARY CARE PEDIATRICS PRACTICUM	1-2
NURS 61892	FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE PRACTICUM	1
NURS 62292	PRIMARY CARE II PRACTICUM: CHRONICALLY ILL ADULTS	2
NURS 63292	PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS PRACTICUM	2
Minimum Total Credit Hours:		**34**

[1] This course may be waived or transferred if it was previously completed with a grade of B or better. Please refer to the Transfer of Graduate Credit Policy for more information.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Meet standards for advanced practice certification or other advanced professional distinction.
2. Demonstrate competencies based on professional standards to assume advanced roles in nursing and for leadership and career advancement, including doctoral study.
3. Communicate, integrate and apply advanced nursing knowledge and skills to provide equitable, evidence-based and inclusive nursing care, and to promote quality outcomes in nursing and health care.

Program Policies
Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.
3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Time Limit for Graduate Nursing Courses

Certain courses are critical to be completed within a timely manner for patient safety as well as student success in the program. This policy ensures that clinical skills and critical knowledge learned in specific courses taken three or more years ago are refreshed before moving to more advanced levels of practice.

Students who have stopped out of the clinical sequence of courses for a period of time must repeat the following practicum and corequisite lecture courses if they are three of more years old:

- NURS 60110 and NURS 61192
- NURS 60120 and NURS 61292
- NURS 60125 and NURS 61892
- NURS 60126 and NURS 61392
- NURS 60126 and NURS 61892
- NURS 60129 and NURS 61092
- NURS 60151 and NURS 61592
- NURS 60160 and NURS 61692
- NURS 60170 and NURS 61792
- NURS 60210 and NURS 62192
- NURS 60220 and NURS 62292
- NURS 60230 and NURS 62392
- NURS 60251 and NURS 63592
- NURS 60270 and NURS 62792
- NURS 60310 and NURS 63192
- NURS 60320 and NURS 63692
- NURS 60325 and NURS 63292
- NURS 60330 and NURS 63392
- NURS 60353 and NURS 64592
- NURS 60370 and NURS 63792
- NURS 60372 and NURS 63992
- NURS 60470 and NURS 64792

- NURS 62592
- NURS 66100 and NURS 66192
- NURS 66200 and NURS 66292
- NURS 66300 and NURS 66392
- NURS 66400 and NURS 66492

Certifying agencies and state licensing requirements for advanced practice registered nurses have time limits for critical courses. Courses completed outside of this time frame may need to be repeated prior to seeking national certification. Students are advised to check with certifying agencies and state licensing agencies upon admission to determine if the age of their prior courses will meet requirements.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Nurse Educator - Graduate Certificate

College of Nursing
www.kent.edu/nursing

About This Program

The Nurse Educator graduate certificate provides nurses who already have a graduate nursing degree the additional specialized knowledge and experience for the nurse educator role. The certificate meets the educational requirements for national certification examination.

Contact Information

- **Teresa Adams** | tadams27@kent.edu | 330-672-8761
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000-point scale
- Official transcript(s) of all previous graduate coursework[1]
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Curriculum vitae
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals *(starting with spring 2026 admission term, goal statement is no longer required)*
- Admission essay *is required starting with spring 2026 admission term* responding to the following questions (two pages, double spaced, 500 words):
  - How do you plan to contribute to the nursing profession and healthcare community after earning your M.S.N. degree?
  - How has your experience, professional development and service within the profession contributed to your readiness for graduate education?
  - What experience do you have working as a nurse caring for the underserved, high-risk or vulnerable populations?
- Syllabi of all courses to considered for transfer in the gap analysis
- Three professional letters of reference from healthcare professionals, either a supervisor and/or an advanced practice nurse who can speak to the applicant's professional capabilities
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 1
- **Spring Semester**
  - Priority deadline: October 1
- **Summer Term**
  - Priority deadline: March 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
NURS 60016	ADVANCED ASSESSMENT, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE NURSE LEADER	3
NURS 60601	CURRICULUM AND INSTRUCTION IN NURSING EDUCATION	3

NURS 60602	ROLES AND EVALUATION FOR NURSING EDUCATION CURRICULA	3
NURS 60605	NURSING EDUCATION WITH TECHNOLOGY	2
NURS 60607	CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA	2
NURS 60592	NURSING EDUCATION PRACTICUM	3
NURS 67092	CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA PRACTICUM	2
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Meet standards for advanced professional distinction.
2. Demonstrate competencies based on professional standards to assume advanced roles in nursing and for leadership and career advancement, including doctoral study.
3. Communicate, integrate and apply advanced nursing knowledge and skills to provide equitable, evidence-based and inclusive nursing care, and to promote quality outcomes in nursing and health care.

Program Policies

Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.
3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Time Limit for Graduate Nursing Courses

Certain courses are critical to be completed within a timely manner for patient safety as well as student success in the program. This policy ensures that clinical skills and critical knowledge learned in specific courses taken three or more years ago are refreshed before moving to more advanced levels of practice.

Students who have stopped out of the clinical sequence of courses for a period of time must repeat the following practicum and corequisite lecture courses if they are three of more years old:

- NURS 60110 and NURS 61192
- NURS 60120 and NURS 61292
- NURS 60125 and NURS 61892
- NURS 60126 and NURS 61392
- NURS 60126 and NURS 61892
- NURS 60129 and NURS 61092
- NURS 60151 and NURS 61592
- NURS 60160 and NURS 61692
- NURS 60170 and NURS 61792
- NURS 60210 and NURS 62192
- NURS 60220 and NURS 62292
- NURS 60230 and NURS 62392
- NURS 60251 and NURS 63592
- NURS 60270 and NURS 62792

- NURS 60310 and NURS 63192
- NURS 60320 and NURS 63692
- NURS 60325 and NURS 63292
- NURS 60330 and NURS 63392
- NURS 60353 and NURS 64592
- NURS 60370 and NURS 63792
- NURS 60372 and NURS 63992
- NURS 60470 and NURS 64792
- NURS 62592
- NURS 66100 and NURS 66192
- NURS 66200 and NURS 66292
- NURS 66300 and NURS 66392
- NURS 66400 and NURS 66492

Certifying agencies and state licensing requirements for advanced practice registered nurses have time limits for critical courses. Courses completed outside of this time frame may need to be repeated prior to seeking national certification. Students are advised to check with certifying agencies and state licensing agencies upon admission to determine if the age of their prior courses will meet requirements.

Nursing - B.S.N.

College of Nursing
www.kent.edu/nursing

About This Program

Kent State's Bachelor of Science in Nursing program prepares you for a rewarding career in healthcare. With a curriculum that emphasizes hands-on experience and evidence-based practice, this program provides you with the skills and knowledge needed to provide high-quality patient care. As a student in this program, you will have access to clinical experiences in a variety of healthcare settings, as well as experienced faculty who are dedicated to helping you succeed. Read more...

Contact Information

- **Tracey Motter, D.N.P., RN** | BSN@kent.edu | 330-672-7911
- Speak with an Advisor
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Geauga Campus (Nursing major only)
  - Kent Campus (Nursing major and Accelerated Second Degree and LPN and Allied Health concentrations)
  - Salem Campus (Nursing major only)
  - Stark Campus (Nursing major only)
  - Trumbull Campus (Nursing major only)

Examples of Possible Careers and Salaries*

Registered nurses

- 7.2% faster than the average
- 3,096,700 number of jobs
- $75,330 potential earnings

Teaching assistants, postsecondary

- 3.4% about as fast as the average
- 169,600 number of jobs
- $36,250 potential earnings

Medical and health services managers

- 31.5% much faster than the average
- 422,300 number of jobs
- $104,280 potential earnings

Accreditation

The B.S.N. degree in Nursing at Kent State University is accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington, DC 20001, 202-887-6791.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

New Students

Traditional Admission

Admission to the Nursing major is selective; the process is competitive, and acceptance is never guaranteed. Prospective applicants must have:

- Completed high school-level mathematics, biology and chemistry.
- Achieved one of the following:
  - Minimum 2.700 overall high school GPA (on a 4.000-point scale); and a minimum 22 ACT composite or a minimum 1100 SAT score; or
  - Minimum 3.000 overall high school GPA (on a 4.000-point scale).

Early Admission

Early admission students are granted admission to the professional nursing sequence as new students provided they meet the early admission criteria and maintain the progression requirements. Students must signify they want to be considered for early admission and agree to declare Kent State as their college of choice. The early admission program has a limited number of seats, with an emphasis on students

who can enhance the College of Nursing's mission to improve healthy living in a diverse, changing society.

Transfer Students

Traditional Admission

Admission to the Nursing major requires a minimum 2.750 overall GPA and completion of 12 college credit hours from an institutional-accredited college or university.

Transfer students who have successfully completed a minimum 12 credit hours at Kent State University will be evaluated on their Kent State overall GPA only, *along with the prerequisite criteria for admission into the Professional Nursing Sequence.*

Direct Admission

Admission to the Professional Nursing Sequence requires meeting prerequisite criteria. Students who have failed out of another nursing program are not eligible for admission to Kent State's B.S.N. degree.

Transfer students from another accredited B.S.N. degree who have completed at least one laboratory or clinical course must have achieved the following for admission to Kent State's B.S.N. degree:

- Minimum 3.200 overall GPA in all college-level coursework
- Minimum 2.750 GPA for the required (or equivalent) science courses in Kent State's B.S.N. degree: BSCI 21010 and BSCI 21020 and BSCI 20021 (or BSCI 30171) and CHEM 10050 (or CHEM 10055 or CHEM 10060)
- Minimum C grade in the following prerequisite courses:
  - Anatomy and Physiology (BSCI 21010 and BSCI 21020)
  - Microbiology (BSCI 20021 or BSCI 30171)
  - Genetics (BSCI 30050 or BSCI 30156)
  - Chemistry (CHEM 10050, CHEM 10055 or CHEM 10060)
  - Mathematics (MATH 10040 or MATH 10041)
- Good academic standing at current college or university

Students who want to be considered for direct admission to Kent State's B.S.N. program must complete the Direct Admission Request.

Admission to the Accelerated Second Degree Concentration

Admission to the Accelerated Second Degree concentration requires a completed bachelor's degree with a minimum 2.750 overall GPA. Students who have failed out of a nursing program are not eligible to apply to the Accelerated Second Degree concentration. Accelerated students must have all college-level core and nursing prerequisite courses complete:

- Anatomy and Physiology (BSCI 21010 and BSCI 21020)
- Microbiology (BSCI 20021 or BSCI 30171)
- Chemistry (CHEM 10050, CHEM 10055 or CHEM 10060)
- Human Growth and Development (NURS 20950)
- Minimum 2.750 overall GPA and minimum 2.750 science GPA
- Minimum C grade in all science and mathematics courses

Admission to the LPN and Allied Health Concentration

Admission to the LPN and Allied Health concentration is selective; the process is competitive, and acceptance is never guaranteed. Prospective applicants must have:

- Completed high school-level mathematics, biology and chemistry.
- Achieved one of the following:
  - Minimum 2.700 overall high school GPA (on a 4.000-point scale); and a minimum 22 ACT composite or a minimum 1100 SAT score; or
  - Minimum 3.000 overall high school GPA (on a 4.000-point scale).

International Students

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 20021	BASIC MICROBIOLOGY (min C grade in either course)	3-4
or BSCI 30171	GENERAL MICROBIOLOGY	
BSCI 30050	HUMAN GENETICS (min C grade in either course)	3
or BSCI 30156	ELEMENTS OF GENETICS	
NURS 20025	PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING I (min C grade)	3
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS (min C grade)	3
NURS 30010	PARENT AND NEWBORN NURSING (min C grade)	4
NURS 30020	HEALTH CARE OF CHILDREN (min C grade)	4
NURS 30025	PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING II (min C grade)	3
NURS 30035	NURSING OF ADULTS ACROSS THE LIFESPAN (min C grade)	9
NURS 30050	BASIC NURSING INFORMATICS (min C grade)	2
NURS 30071	HEALTH CARE POLICY FOR THE B.S.N. NURSE (min C grade) [1]	2-3
or NURS 40089	INTERNATIONAL HEALTH CARE POLICIES (DIVG) (ELR) (WIC)	
NURS 40010	NURSING OF THE CRITICALLY ILL (min C grade)	4
NURS 40020	COMMUNITY HEALTH NURSING (DIVG) (min C grade)	4
NURS 40030	PSYCHIATRIC MENTAL HEALTH NURSING (min C grade)	4
NURS 40036	SENIOR COMPETENCY LABORATORY (min C grade)	2
NURS 40045	INTEGRATION OF LEADERSHIP AND MANAGEMENT IN NURSING (ELR) (min C grade)	6
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
Additional Requirements (courses do not count in major GPA)		
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) (min C grade) [2]	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II (min C grade) [2]	4
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS) (min C grade in one course)	3-4
or CHEM 10055	MOLECULES OF LIFE (KBS)	

or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
or SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Additional		3
Additional Requirements or Concentration		
Choose from the following:		25-27
Additional Requirements for Students Not Declaring a Concentration		
Accelerated Second Degree Concentration		
LPN and Allied Health Concentration		
Minimum Total Credit Hours:		**120-122**

1 NURS 40089 is only offered in another country for students who travel abroad. A minimum C grade must be earned to fulfill the writing-intensive requirement.

2 Students who have successfully completed ATTR 25057 (or EXSC 25057) and ATTR 25058 (or EXSC 25058) with a minimum C grade may use those courses in place of BSCI 21010 and BSCI 21020.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) (min C grade required in all courses)		
MATH 10040	INTRODUCTORY STATISTICS PLUS (KMCR)	4-5
or MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
NURS 10060	INTRODUCTION TO PROFESSIONAL NURSING PRACTICE	3
NURS 20005	CLINICAL CALCULATIONS IN NURSING I	1
NURS 20015	CLINICAL CALCULATIONS IN NURSING II	2
NURS 20020	FOUNDATIONS OF ASSESSMENT AND COMMUNICATION IN NURSING	3
NURS 20030	FOUNDATIONS OF NURSING INTERVENTIONS	5
NURS 40005	PROFESSIONAL NURSING DEVELOPMENT	3
NURS 40874	EVIDENCE-BASED PRACTICE FOR NURSES (WIC) [1]	3
NURS 45060	NCLEX REVIEW PREPARATION	3
Minimum Total Credit Hours:		**27**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

Accelerated Second Degree Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
NURS 20035	ACCELERATED CLINICAL CALCULATIONS	2
NURS 20040	FUNDAMENTALS OF NURSING	8
NURS 40026	PROFESSIONAL AND EVIDENCE-BASED PRACTICE FOR THE ACCELERATED B.S.N. (WIC) [1]	3
NURS 45060	NCLEX REVIEW PREPARATION	2-3
or NURS 45075	NCLEX SUCCESS	
Statistics Elective, choose from the following (min C grade):		3-5
BA 24056	BUSINESS ANALYTICS I	
EXSC 35068	STATISTICS FOR THE EXERCISE SCIENTIST	
MATH 10040	INTRODUCTORY STATISTICS PLUS (KMCR)	
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
MATH 12022	PROBABILITY AND STATISTICS FOR LIFE SCIENCES	
MATH 30011	BASIC PROBABILITY AND STATISTICS	
NURS 31010	APPLICATIONS FOR STATISTICAL FINDINGS FOR EVIDENCE BASED PRACTICE	
PH 30002	INTRODUCTORY BIOSTATISTICS	
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	
Additional Requirements (courses do not count in major GPA)		
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		7
Minimum Total Credit Hours:		**25**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

LPN and Allied Health Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
MATH 10040	INTRODUCTORY STATISTICS PLUS (KMCR)	4-5
or MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
NURS 10060	INTRODUCTION TO PROFESSIONAL NURSING PRACTICE	3
NURS 20035	ACCELERATED CLINICAL CALCULATIONS	2
NURS 20040	FUNDAMENTALS OF NURSING	8
NURS 40005	PROFESSIONAL NURSING DEVELOPMENT	3
NURS 40874	EVIDENCE-BASED PRACTICE FOR NURSES (WIC) [1]	3
NURS 45060	NCLEX REVIEW PREPARATION	3
Minimum Total Credit Hours:		**26**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

Progression Requirements

- All students in the B.S.N. degree must have a minimum 2.000 overall GPA each semester to continue in the program; failure to achieve this GPA each semester will result in not permitted to continue in the program.
- All students in the B.S.N. degree must have earned a minimum C grade in each science course required in the B.S.N. curriculum. All required biology and chemistry courses must be successfully completed with a minimum C grade to graduate with the B.S.N. degree.
- All students in the B.S.N. degree must have a minimum C grade in each of the sophomore nursing courses to progress to the junior nursing sequence.
- Students in the traditional (no concentration) program must have a minimum C grade in each of the junior nursing courses (NURS 30010,

NURS 30020 and NURS 30035) to progress to the senior nursing sequence.

- All students in the B.S.N. degree must have a minimum C grade in each of the senior nursing courses (NURS 40010, NURS 40020, NURS 40030 and NURS 40045) to progress and graduate.
- Students in the traditional (no concentration) program and LPN and Allied Health concentration must have a minimum C grade in each of the senior nursing courses (NURS 40005 and NURS 40874) to progress and graduate.
- Students in the Accelerated Second Degree concentration and LPN and Allied Health concentration may take junior- and senior-level courses concurrently as specified by their curriculum.
- Students in the traditional (no concentration) program may take a maximum of two clinical courses each semester.
- Students in the Accelerated Second Degree concentration and LPN and Allied Health concentration are permitted to take three clinical courses each term, as specified by their curriculum.
- Students in the Accelerated Second Degree concentration and LPN and Allied Health concentration who do not earn a minimum C grade in any nursing courses will no longer be permitted to take three clinical courses in a semester.

Professional Nursing Sequence

Students are eligible to apply to the Professional Nursing Sequence during the semester in which they anticipate completing or have completed 30 credit hours. Admission to the Professional Nursing Sequence is based on overall GPA and science GPA. Students who completed required prerequisite science courses while in the College Credit Plus (CCP) program may elect to repeat prerequisite science courses to be used in the calculation of the science GPA.

Students must meet all the following requirements to be eligible for admission to the Professional Nursing Sequence:

- Minimum 2.750 overall GPA
- Minimum 2.750 GPA in the required sciences:
  - BSCI 20021 or BSCI 30171
  - BSCI 21010
  - BSCI 21020
  - CHEM 10050 or CHEM 10055 or CHEM 10060
- Minimum C grade in each of the prerequisite courses:
  - BSCI 20021 or BSCI 30171
  - BSCI 21010
  - BSCI 21020
  - CHEM 10050 or CHEM 10055 or CHEM 10060
  - MATH 10040 or MATH 10041
- Candidates who meet the admission criteria for the Professional Nursing Sequence will be selected using a holistic admission process including the individual's personal experiences, attributes and metrics.

Professional Nursing Sequence for LPN and Allied Health Concentration

Students in the LPN and Allied Health concentration will need to complete all core and prerequisite coursework to be admitted to the Professional Nursing Sequence. Admission is competitive and is never guaranteed.

Admission checklist for the Professional Nursing Sequence for students in the LPN and Allied Health concentration:

- Students are eligible to make application during the semester in which they anticipate completing, or have completed the core courses, along with:
  - BSCI 20021 or BSCI 30171
  - BSCI 21010
  - BSCI 21020
  - BSCI 30050 or BSCI 30156
  - CHEM 10050, CHEM 10055 or CHEM 10060
  - MATH 10040 or MATH 10041 or NURS 31010 or PH 30002 or PSYC 21621
  - NURS 10060
  - NURS 20950
  - NUTR 23511
  - PSYC 11762
  - SOC 12050 or SOC 22778
  - UC 10001
- Minimum 2.750 overall GPA and minimum 2.750 science GPA
- Minimum C grade in all science and mathematics courses
- Unrestricted practice license (priority admission is given to students with two or more years of practice in their field)

The collage dean may review the student's educational files to determine if adequate progression has been made.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Minimum C grade is required in all specified NURS, BSCI, CHEM and Kent Core MATH courses.
- Students must earn a combined minimum 2.750 GPA in BSCI 21010 **and** BSCI 21020 **and** BSCI 20021 (or BSCI 30171) **and** CHEM 10050 (or CHEM 10055 or CHEM 10060).

Roadmaps

Nursing Major (No Concentration)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
	CHEM 10050 or CHEM 10055 or CHEM 10060	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS) or GENERAL CHEMISTRY I (KBS)	3-4
	MATH 10040 or MATH 10041	INTRODUCTORY STATISTICS PLUS (KMCR) or INTRODUCTORY STATISTICS (KMCR)	4-5
	NURS 10060	INTRODUCTION TO PROFESSIONAL NURSING PRACTICE	3

	UC 10001	FLASHES 101	1
		Credit Hours	**15**
	Semester Two		
	BSCI 20021 or BSCI 30171	BASIC MICROBIOLOGY or GENERAL MICROBIOLOGY	3-4
	BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	Requirement: Students must be admitted to the Professional Nursing Sequence to progress.		
	BSCI 30050 or BSCI 30156	HUMAN GENETICS or ELEMENTS OF GENETICS	3
	NURS 20005	CLINICAL CALCULATIONS IN NURSING I	1
!	NURS 20020	FOUNDATIONS OF ASSESSMENT AND COMMUNICATION IN NURSING	3
	NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	3
	SOC 12050 or SOC 22778	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS) or SOCIAL PROBLEMS (DIVG) (KSS)	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Four		
	NURS 20015	CLINICAL CALCULATIONS IN NURSING II	2
	NURS 20025	PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING I	3
!	NURS 20030	FOUNDATIONS OF NURSING INTERVENTIONS	5
	NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
		Credit Hours	**13**
	Semester Five		
	Requirement: minimum overall 2.000 GPA		
	NURS 30025	PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING II	3
!	NURS 30035	NURSING OF ADULTS ACROSS THE LIFESPAN	9
	NURS 30071 or NURS 40089	HEALTH CARE POLICY FOR THE B.S.N. NURSE or INTERNATIONAL HEALTH CARE POLICIES (DIVG) (ELR) (WIC)	2-3
		Credit Hours	**14**
	Semester Six		
!	NURS 30010	PARENT AND NEWBORN NURSING	4
!	NURS 30020	HEALTH CARE OF CHILDREN	4
!	NURS 30050	BASIC NURSING INFORMATICS	2
	NURS 40874	EVIDENCE-BASED PRACTICE FOR NURSES (WIC)	3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Seven		
	Requirement: minimum overall 2.000 GPA		
	NURS 40005	PROFESSIONAL NURSING DEVELOPMENT	3
!	NURS 40020	COMMUNITY HEALTH NURSING (DIVG)	4
!	NURS 40030	PSYCHIATRIC MENTAL HEALTH NURSING	4
	NURS 40036	SENIOR COMPETENCY LABORATORY	2
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Eight		
!	NURS 40010	NURSING OF THE CRITICALLY ILL	4
!	NURS 40045	INTEGRATION OF LEADERSHIP AND MANAGEMENT IN NURSING (ELR)	6
!	NURS 45060	NCLEX REVIEW PREPARATION	3
	Kent Core Requirement		3
		Credit Hours	**16**
		Minimum Total Credit Hours:	**122**

Accelerated Second Degree Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite		Credits
BSCI 20021 or BSCI 30171	BASIC MICROBIOLOGY or GENERAL MICROBIOLOGY	3-4
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 30050 or BSCI 30156	HUMAN GENETICS or ELEMENTS OF GENETICS	3
CHEM 10050 or CHEM 10055 or CHEM 10060	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS) or GENERAL CHEMISTRY I (KBS)	3-4
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050 or SOC 22778	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS) or SOCIAL PROBLEMS (DIVG) (KSS)	3
Statistics Elective		3-5
Kent Core Composition		6
Kent Core Humanities or Fine Arts		3
Kent Core Humanities		3
Kent Core Fine Arts		3
Kent Core Additional		3
General Electives		7
	Credit Hours	**57**
Semester One		
Requirement: combined minimum 2.750 GPA in BSCI 21010; and BSCI 21020; and BSCI 20021 or BSCI 30171; and CHEM 10050 or CHEM 10055 or CHEM 10060.		
NURS 20025	PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING I	3
NURS 20035	ACCELERATED CLINICAL CALCULATIONS	2
NURS 20040	FUNDAMENTALS OF NURSING	8
NURS 30050	BASIC NURSING INFORMATICS	2
UC 10001	FLASHES 101	1
	Credit Hours	**16**
Semester Two		
NURS 30025	PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING II	3

NURS 30035	NURSING OF ADULTS ACROSS THE LIFESPAN	9
NURS 30071 or NURS 40089	HEALTH CARE POLICY FOR THE B.S.N. NURSE or INTERNATIONAL HEALTH CARE POLICIES (DIVG) (ELR) (WIC)	2-3
NURS 40026	PROFESSIONAL AND EVIDENCE-BASED PRACTICE FOR THE ACCELERATED B.S.N. (WIC)	3
	Credit Hours	**17**
First Summer Term		
NURS 30010	PARENT AND NEWBORN NURSING	4
NURS 30020	HEALTH CARE OF CHILDREN	4
NURS 40020	COMMUNITY HEALTH NURSING (DIVG)	4
NURS 40036	SENIOR COMPETENCY LABORATORY	2
	Credit Hours	**14**
Semester Three		
NURS 40010	NURSING OF THE CRITICALLY ILL	4
NURS 40030	PSYCHIATRIC MENTAL HEALTH NURSING	4
NURS 40045	INTEGRATION OF LEADERSHIP AND MANAGEMENT IN NURSING (ELR)	6
NURS 45060 or NURS 45075	NCLEX REVIEW PREPARATION or NCLEX SUCCESS	2-3
	Credit Hours	**16**
	Minimum Total Credit Hours:	**120**

LPN and Allied Health Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
	CHEM 10050 or CHEM 10055 or CHEM 10060	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS) or GENERAL CHEMISTRY I (KBS)	3-4
	MATH 10040 or MATH 10041	INTRODUCTORY STATISTICS PLUS (KMCR) or INTRODUCTORY STATISTICS (KMCR)	4-5
	NURS 10060	INTRODUCTION TO PROFESSIONAL NURSING PRACTICE	3
	UC 10001	FLASHES 101	1
		Credit Hours	**15**
	Semester Two		
	BSCI 20021 or BSCI 30171	BASIC MICROBIOLOGY or GENERAL MICROBIOLOGY	3-4
	BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	BSCI 30050 or BSCI 30156	HUMAN GENETICS or ELEMENTS OF GENETICS	3
	NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	3
	SOC 12050 or SOC 22778	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS) or SOCIAL PROBLEMS (DIVG) (KSS)	3
	Kent Core Requirement		3
		Credit Hours	**12**
	Semester Four		
	NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**12**
	Semester Five		
	Requirement: combined minimum 2.750 GPA in BSCI 21010; and BSCI 21020; and BSCI 20021 or BSCI 30171; and CHEM 10050 or CHEM 10055 or CHEM 10060.		
	NURS 20025	PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING I	3
	NURS 20035	ACCELERATED CLINICAL CALCULATIONS	2
	NURS 20040	FUNDAMENTALS OF NURSING	8
	NURS 30050	BASIC NURSING INFORMATICS	2
	NURS 40005	PROFESSIONAL NURSING DEVELOPMENT	3
		Credit Hours	**18**
	Semester Six		
	NURS 30025	PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING II	3
	NURS 30035	NURSING OF ADULTS ACROSS THE LIFESPAN	9
	NURS 30071 or NURS 40089	HEALTH CARE POLICY FOR THE B.S.N. NURSE or INTERNATIONAL HEALTH CARE POLICIES (DIVG) (ELR) (WIC)	2-3
	NURS 40874	EVIDENCE-BASED PRACTICE FOR NURSES (WIC)	3
		Credit Hours	**17**
	Semester Seven		
	NURS 30010	PARENT AND NEWBORN NURSING	4
	NURS 30020	HEALTH CARE OF CHILDREN	4
	NURS 40020	COMMUNITY HEALTH NURSING (DIVG)	4
	NURS 40036	SENIOR COMPETENCY LABORATORY	2
		Credit Hours	**14**
	Semester Eight		
!	NURS 40010	NURSING OF THE CRITICALLY ILL	4
	NURS 40030	PSYCHIATRIC MENTAL HEALTH NURSING	4
!	NURS 40045	INTEGRATION OF LEADERSHIP AND MANAGEMENT IN NURSING (ELR)	6
!	NURS 45060	NCLEX REVIEW PREPARATION	3
		Credit Hours	**17**
		Minimum Total Credit Hours:	**121**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	

Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Meet educational eligibility requirements to take the registered nurse licensing examination (National Certification and Licensure Exam).
2. Acquire competencies based on professional standards to assume the role of the professional nurse and for career advancement, including graduate studies.
3. Provide equitable evidence-based care to diverse populations as a member of a diverse, interprofessional team.

Program Policies

Assigning Out-of-Sequence Students to Clinical Nursing Courses

1. Students are responsible for contacting Student Services, Room 216, Henderson Hall to make arrangements for repeating a nursing course.
2. Readmission to the B.S.N. sequence for any reason is on a "space available" basis. Students already progressing in sequence have priority in placement over those requesting re-enrollment. Accelerated B.S.N. students have priority in summer scheduling.
3. Students are enrolled in courses using the following guidelines in order:
   a. Are in good standing but lost a semester with verified illness or military service.
   b. Have failed and successfully repeated a clinical course.
   c. Have withdrawn from one course.
   d. Have withdrawn from a course more than once.
   e. Cumulative grade point average at the time of registration.

Changing Campuses

1. Traditional and Accelerated B.S.N. students are admitted by campus and are required to complete the B.S.N. program at their admitted campus of origin.
2. Students wishing to change campuses during their program must comply with the following guidelines in order:
   a. Once campus rosters have been set based on the procedure for assigning students, students who are in-sequence and approved to switch campuses by the Associate Dean of Academics may be placed.
   b. Students who are out of sequence may switch campuses in order to repeat courses based on the order established for assigning out-of-sequence students. No approval by the Associate Dean of Academics is needed in this instance. Students will be directed to return to their campus of origin, once they have successfully repeated their course at another campus.
   c. Students should complete the Changing Campus Request Form to initiate a change.

Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.
3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and

is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Course Withdrawal Policy

Students in the B.S.N. degree who withdraw from two NURS courses or from the same NURS course twice (i.e., W administrative mark on the student's transcript) will have that course or courses count as one failure in their program.

The following courses are excluded from the policy:

- NURS 10060
- NURS 20950
- NURS 31010

Not Permitted to Continue Policy within the College of Nursing

1. Undergraduate students who fail two NURS courses or one NURS course twice will not be permitted to continue in the professional nursing sequence.
   a. Exempt from the policy are the following courses: NURS 10060, NURS 20950 and approved topics under NURS 31095 or NURS 41095.
2. Students who have been reinstated into the B.S.N. degree and then fail one NURS course after reinstatement will not be permitted to continue in the major.
3. Students must have a minimum 2.000 overall GPA each semester to continue in the B.S.N. degree. Failure to achieve this GPA each semester will result in the student not being permitted to continue in the B.S.N. degree.
4. The College of Nursing retains the right to not permit a student to continue in the B.S.N. degree if deemed to violate:
   a. Any policy within the College of Nursing student handbooks or of affiliating facilities.
   b. Professional behavior and role development standards as outlined in College of Nursing, university or affiliating agency policies or handbooks.
5. Students who have been reinstated into the professional nursing sequence must earn a minimum C grade in all NURS courses. Failure to do so will result in those students being not permitted to continue in the professional nursing sequence.

Repeat of Nursing Courses

1. A student who does not attain a GPA of 2.000 (grade of C) in a nursing clinical course cannot proceed to the next academic level. A student who does not earn a 2.000 (grade of C) in a nursing course must repeat this course based on seat availability.
2. A student can repeat a single nursing course only one time. A student who earns below a 2.000 (grade of C) in a second (or is repeating a failure) nursing course will be not be permitted to continue in the program within the College of Nursing.
3. This policy excludes NURS 10060, NURS 20950 and NURS 31010.
4. Accelerated B.S.N. students who fail a course will no longer continue in the Accelerated concentration , but can continue in the Traditional B.S.N. program

Science GPA Calculation Policy

The first-year science GPA is calculated using the highest grade earned for each of the prerequisite science courses in the B.S.N. degree.

Uniform for Clinical Experience

1. The uniform consists of a white tunic top and blue pants embroidered with the Kent State University College of Nursing logo. Any student expecting a modification of the uniform should speak first with the Kent State University Associate Dean of Undergraduate Programs.
2. Students are required to purchase two sets of the official embroidered uniform, an embroidered white scrub jacket, and the required College of Nursing name tag, which must be worn at all times during each clinical experience (per Ohio Board of Nursing). Uniforms may only be purchased from the uniform company authorized to sell official Kent State University College of Nursing uniforms.
3. Female students who need a maternity uniform should contact the official Kent State University College of Nursing uniform company to purchase a maternity uniform embroidered with the Kent State University College of Nursing logo, similar to the typical tunic and pants.
4. Students requiring a uniform dress to meet religious guidelines should contact the official Kent State University College of Nursing uniform company to purchase a uniform embroidered with the Kent State University College of Nursing logo dress similar in style to the tunic top.
5. In selected areas such as obstetrics, community health, and psychiatric/mental health, scrubs or street clothes are worn. Specific apparel requirements for these areas are provided by the affiliating clinical agencies, the course syllabus and/or the faculty.
6. It is required that baccalaureate nursing students dress in a professional manner at all times in the clinical area. In order to maintain a professional appearance, a limited number of accessories may be worn with the uniform:

   a. A watch with a second hand, a single pair of plain gold or silver posts worn in the lower ear lobe of pierced ears and a wedding band are acceptable in most settings.
   b. A chain that does not show when worn may also be acceptable, depending on the clinical agency.
   c. Not permitted in the clinical area are visible piercings with jewelry in places other than the lower ear lobes (e.g. upper ear, nose, tongue, eyebrows, etc.). All open piercing must remain empty. Spacers are not permitted while attending clinical experiences.
7. While at the clinical agency, tattoos must be covered with a long sleeve top, white or neutral undershirt, socks or dressing/band aid.
8. If nail polish is worn, only a clear or light, neutral shade is permitted. Nails should be trimmed to avoid extending beyond the end of the fingers. Per OSHA rules, artificial nails may not be worn in any clinical facility.
9. Hair should be neat and worn above the collar in a style becoming to the person. If hair is longer than collar length, it must be pulled back to avoid contact with patients while performing procedures. Hair of unnatural color is unacceptable. Established beards are to be neatly trimmed. Males without beards are to be clean shaven.
10. Prior to the first clinical experience, students are required to provide documentation to the Assistant Dean of the Undergraduate program if they must adhere to specific religious dress and head covering restrictions
11. Shoes should be clean and in good repair. With the official Kent State University College of Nursing uniform, students may wear white nursing shoes; white, closed front clogs with backs; or white, leather athletic shoes, without large or colorful logos.
12. At all times during clinical experiences, students must adhere to the uniform code of Kent State University College of Nursing. Clinical agency policies may be more restrictive and require further or additional accommodations by students.

Full Description

The Bachelor of Science in Nursing degree in Nursing prepares practitioners for professional nursing, helps them understand their role in society and prepares them for graduate study. The program emphasizes professional knowledge, skills and compassionate nursing practices. Students begin with courses that demonstrate the core foundations of the nursing profession and its historical roots. The capstone preceptorship exposes students to research and professional-practice concepts that will ensure their abilities to be nurse leaders and healthcare advocates.

Throughout the curriculum, students study life-span and cultural diversity issues while applying evidence-based practice to their profession.

The Nursing major includes the following optional concentrations:

- The **Accelerated Second Degree** concentration is for students who hold a bachelor's degree and wish to pursue the B.S.N. degree in an accelerated manner.
- The **LPN and Allied Health** concentration is a bridge program designed to meet the unique demands of licensed practical nurses, paramedics, respiratory therapists, physical therapy assistants, occupational therapy assistants, field/combat medics and emergency medical technicians.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Nursing - D.N.P.

College of Nursing
www.kent.edu/nursing

About This Program

The Doctor of Nursing Practice program is designed for experienced nurses who are looking to advance their career. With a focus on evidence-based practice, leadership and patient care, this program prepares you for a wide range of roles in healthcare. Students in this program will have access to experienced faculty, cutting-edge technology and clinical experiences that will prepare them for the challenges of the modern healthcare industry. Read more...

Contact Information

- **Teresa Adams** | tadams27@kent.edu | 330-672-8761

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Medical and health services managers

- 31.5% much faster than the average
- 422,300 number of jobs
- $104,280 potential earnings

Nurse practitioners

- 52.4% much faster than the average
- 211,300 number of jobs
- $111,680 potential earnings

Nursing instructors and teachers, postsecondary

- 17.6% much faster than the average
- 72,900 number of jobs
- $75,470 potential earnings

Accreditation

The D.N.P. degree in Nursing at Kent State University is accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington, DC 20001, 202-887-6791.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Previous degree:
  - Executive Nurse concentration – master's degree in nursing or a related field
  - Nurse Administration and Executive Leadership concentration – bachelor's or master's pre-licensure degree in nursing
  - Practice Leadership concentration – bachelor's[1] or master's degree in nursing
- Minimum overall 3.000 GPA on a 4.000-point scale
- Official transcript(s)
- Completion of an undergraduate- or graduate-level statistics course with a minimum C grade
- Active, unrestricted registered nurse license in the state in which the student's practica will be completed
- Résumé or curriculum vitae that demonstrates professional experience in nursing
- Essay (300 words) describing professional goals and reasons for seeking the professional practice doctorate
- Three letters of reference from healthcare professionals or academic faculty who can speak to the applicant's professional and academic abilities
- Pre-admission interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Students selected for admission to the nursing program must meet the College of Nursing's Clinical Compliance Policy. Priority admission to the Nurse Executive concentration will be given to candidates who hold American Nurses Credentialing Center (ANCC) certification or American Organization for Nursing Leadership (AONL) Nurse Executive certification or who have experience in nursing management or administration.

1 Post-baccalaureate students admitted to the Practice Leadership concentration also will be admitted to the M.S.N. degree in one of the advanced practice registered nurses concentrations. This dual admit will allow students to complete M.S.N. coursework and enroll in some D.N.P. coursework after successfully completing their first two full-time semesters of graduate study. Students must first complete M.S.N. coursework, earn the M.S.N. degree and obtain APRN national certification before they can continue with D.N.P. coursework and earn the D.N.P. degree.

2 International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 1
- **Spring Semester**
  - Priority deadline: October 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (min B grade in all courses)		
NURS 70016	ADVANCED ASSESSMENT, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE NURSE LEADER [1]	3
NURS 70621	D.N.P. ROLE DEVELOPMENT AND PROFESSIONAL LEADERSHIP	1
NURS 70630	RESEARCH METHODS FOR EVIDENCE BASED PRACTICE	3
NURS 70635	APPLICATION OF EVIDENCE BASED PRACTICE	3
NURS 70640	ADVANCED LEADERSHIP IN HEALTHCARE	3
NURS 70670	QUALITY IMPROVEMENT IN HEALTHCARE DELIVERY	3
NURS 70680	POPULATION HEALTH	3
NURS 70711	SCIENTIFIC WRITING	3
NURS 70750	D.N.P. DATA SCIENCE FOR HEALTHCARE QUALITY	3
Culminating Requirement		
NURS 72692	D.N.P. PROJECT I: EVIDENCE-BASED PRACTICE PROJECT PLANNING AND PROPOSAL	3
NURS 72792	D.N.P. PROJECT II: IMPLEMENTATION AND EVALUATION OF EVIDENCE-BASED INTERVENTIONS	3
NURS 72892	D.N.P. PROJECT III: DATA ANALYSIS AND INTERPRETATION FOR EVIDENCE-BASED PRACTICE	3
Concentrations		
Choose from the following:		6-30
Executive Nurse		
Nursing Administration and Executive Leadership		
Practice Leadership		
Minimum Total Credit Hours:		**40-64**

1 NURS 70016 is required for students who have not completed graduate coursework in advanced assessment, advanced pharmacology and advanced physiology. **Students who have previously completed the course will be waived the requirement and may graduate with 37 credit hours (or 61 credit hours if in the Nursing Administration and Executive Leadership concentration).**

Executive Nurse Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (min B grade in all courses)		
NURS 70089	INTERNATIONAL HEALTH CARE POLICIES [1]	3
or NURS 70686	APPLIED ECONOMIC AND FINANCIAL PRINCIPLES FOR THE NURSE EXECUTIVE	
NURS 70651	ADVANCED LEGAL, REGULATORY AND POLICY CONSIDERATIONS FOR NURSE	3
Minimum Total Credit Hours:		**6**

[1] NURS 70089 is only offered in another country for students who travel abroad.

Nursing Administration and Executive Leadership Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (min B grade in all courses)		
NURS 70020	LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS	3
NURS 70024	HEALTH CARE ORGANIZATION, STRUCTURE AND BEHAVIOR	3
NURS 70089	INTERNATIONAL HEALTH CARE POLICIES [1]	3
or NURS 70686	APPLIED ECONOMIC AND FINANCIAL PRINCIPLES FOR THE NURSE EXECUTIVE	
NURS 70101	THEORETICAL BASIS FOR NURSING PRACTICE	3
NURS 70292	INTEGRATION OF CLINICAL EXPERTISE INTO THE HEALTHCARE MANAGEMENT ROLE PRACTICUM	2
NURS 70315	BUDGETARY AND FISCAL MANAGEMENT FOR NURSES	3
NURS 70651	ADVANCED LEGAL, REGULATORY AND POLICY CONSIDERATIONS FOR NURSE	3
NURS 74002	PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS	3
NURS 74292	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM	2
NURS 74302	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP SEMINAR	2
NURS 74692	EXECUTIVE LEADERSHIP PRACTICUM	3
Minimum Total Credit Hours:		**30**

[1] NURS 70089 is only offered in another country for students who travel abroad.

Practice Leadership Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (min B grade in all courses)		
NURS 70089	INTERNATIONAL HEALTH CARE POLICIES [1]	3
or NURS 70685	HEALTHCARE FINANCE AND ECONOMIC POLICY	
NURS 70650	ORGANIZATIONAL SYSTEMS	3
Minimum Total Credit Hours:		**6**

[1] NURS 70089 is only offered in another country for students who travel abroad.

Progression Requirements

Student who do not earn a minimum B grade in a course must repeat it and cannot take other courses that require that course as a prerequisite until the course is successfully repeated. Students who do not earn a minimum B grade in the second attempt may be dismissed from the D.N.P. degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Minimum B grade in all courses.
- Completion of minimum 500 practicum hours for post-master's students. Post-baccalaureate students are required to complete additional hours based upon their selected concentration.
- Submission and defense of a scholarly project to a committee that includes, at minimum, the student's academic advisor and two other doctoral-prepared members. The project must result in a manuscript suitable for publication.

Roadmaps

Executive Nurse Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

First Year		
Fall Semester		**Credits**
NURS 70016	ADVANCED ASSESSMENT, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE NURSE LEADER	3
NURS 70621	D.N.P. ROLE DEVELOPMENT AND PROFESSIONAL LEADERSHIP	1
NURS 70630	RESEARCH METHODS FOR EVIDENCE BASED PRACTICE	3
NURS 70711	SCIENTIFIC WRITING	3
	Credit Hours	**10**
Spring Semester		
NURS 70635	APPLICATION OF EVIDENCE BASED PRACTICE	3
NURS 70640	ADVANCED LEADERSHIP IN HEALTHCARE	3
	Credit Hours	**6**
Summer Term		
NURS 70651	ADVANCED LEGAL, REGULATORY AND POLICY CONSIDERATIONS FOR NURSE	3
	Credit Hours	**3**
Second Year		
Fall Semester		
NURS 70670	QUALITY IMPROVEMENT IN HEALTHCARE DELIVERY	3
NURS 70680	POPULATION HEALTH	3
	Credit Hours	**6**
Spring Semester		
NURS 70089 or NURS 70686	INTERNATIONAL HEALTH CARE POLICIES or APPLIED ECONOMIC AND FINANCIAL PRINCIPLES FOR THE NURSE EXECUTIVE	3

NURS 70750	D.N.P. DATA SCIENCE FOR HEALTHCARE QUALITY	3
	Credit Hours	**6**
Summer Term		
NURS 72692	D.N.P. PROJECT I: EVIDENCE-BASED PRACTICE PROJECT PLANNING AND PROPOSAL	3
	Credit Hours	**3**
Third Year		
Fall Semester		
NURS 72792	D.N.P. PROJECT II: IMPLEMENTATION AND EVALUATION OF EVIDENCE-BASED INTERVENTIONS	3
	Credit Hours	**3**
Spring Semester		
NURS 72892	D.N.P. PROJECT III: DATA ANALYSIS AND INTERPRETATION FOR EVIDENCE-BASED PRACTICE	3
	Credit Hours	**3**
	Minimum Total Credit Hours:	**40**

Nursing Administration and Executive Leadership Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

First Year		
Fall Semester		**Credits**
NURS 70101	THEORETICAL BASIS FOR NURSING PRACTICE	3
NURS 70315	BUDGETARY AND FISCAL MANAGEMENT FOR NURSES	3
NURS 70621	D.N.P. ROLE DEVELOPMENT AND PROFESSIONAL LEADERSHIP	1
NURS 70711	SCIENTIFIC WRITING	3
	Credit Hours	**10**
Spring Semester		
NURS 70020	LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS	3
NURS 70024	HEALTH CARE ORGANIZATION, STRUCTURE AND BEHAVIOR	3
NURS 70640	ADVANCED LEADERSHIP IN HEALTHCARE	3
	Credit Hours	**9**
Summer Term		
NURS 70651	ADVANCED LEGAL, REGULATORY AND POLICY CONSIDERATIONS FOR NURSE	3
	Credit Hours	**3**
Second Year		
Fall Semester		
NURS 70016	ADVANCED ASSESSMENT, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE NURSE LEADER	3
NURS 70292	INTEGRATION OF CLINICAL EXPERTISE INTO THE HEALTHCARE MANAGEMENT ROLE PRACTICUM	2
NURS 70630	RESEARCH METHODS FOR EVIDENCE BASED PRACTICE	3
	Credit Hours	**8**
Spring Semester		
NURS 70635	APPLICATION OF EVIDENCE BASED PRACTICE	3
NURS 70750	D.N.P. DATA SCIENCE FOR HEALTHCARE QUALITY	3
NURS 74002	PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS	3
	Credit Hours	**9**
Third Year		
Fall Semester		
NURS 70670	QUALITY IMPROVEMENT IN HEALTHCARE DELIVERY	3
NURS 70680	POPULATION HEALTH	3
NURS 74292	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM	2
	Credit Hours	**8**
Spring Semester		
NURS 70089 or NURS 70686	INTERNATIONAL HEALTH CARE POLICIES or APPLIED ECONOMIC AND FINANCIAL PRINCIPLES FOR THE NURSE EXECUTIVE	3
NURS 74302	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP SEMINAR	2
NURS 74692	EXECUTIVE LEADERSHIP PRACTICUM	3
	Credit Hours	**8**
Summer Term		
NURS 72692	D.N.P. PROJECT I: EVIDENCE-BASED PRACTICE PROJECT PLANNING AND PROPOSAL	3
	Credit Hours	**3**
Fourth Year		
Fall Semester		
NURS 72792	D.N.P. PROJECT II: IMPLEMENTATION AND EVALUATION OF EVIDENCE-BASED INTERVENTIONS	3
	Credit Hours	**3**
Spring Semester		
NURS 72892	D.N.P. PROJECT III: DATA ANALYSIS AND INTERPRETATION FOR EVIDENCE-BASED PRACTICE	3
	Credit Hours	**3**
	Minimum Total Credit Hours:	**64**

Practice Leadership Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

First Year		
Fall Semester		**Credits**
NURS 70016	ADVANCED ASSESSMENT, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE NURSE LEADER	3
NURS 70621	D.N.P. ROLE DEVELOPMENT AND PROFESSIONAL LEADERSHIP	1
NURS 70630	RESEARCH METHODS FOR EVIDENCE BASED PRACTICE	3
NURS 70711	SCIENTIFIC WRITING	3
	Credit Hours	**10**
Spring Semester		
NURS 70635	APPLICATION OF EVIDENCE BASED PRACTICE	3

NURS 70640	ADVANCED LEADERSHIP IN HEALTHCARE	3
	Credit Hours	**6**
Summer Term		
NURS 70650	ORGANIZATIONAL SYSTEMS	3
	Credit Hours	**3**
Second Year		
Fall Semester		
NURS 70670	QUALITY IMPROVEMENT IN HEALTHCARE DELIVERY	3
NURS 70680	POPULATION HEALTH	3
	Credit Hours	**6**
Spring Semester		
NURS 70089 or NURS 70685	INTERNATIONAL HEALTH CARE POLICIES or HEALTHCARE FINANCE AND ECONOMIC POLICY	3
NURS 70750	D.N.P. DATA SCIENCE FOR HEALTHCARE QUALITY	3
	Credit Hours	**6**
Summer Term		
NURS 72692	D.N.P. PROJECT I: EVIDENCE-BASED PRACTICE PROJECT PLANNING AND PROPOSAL	3
	Credit Hours	**3**
Third Year		
Fall Semester		
NURS 72792	D.N.P. PROJECT II: IMPLEMENTATION AND EVALUATION OF EVIDENCE-BASED INTERVENTIONS	3
	Credit Hours	**3**
Spring Semester		
NURS 72892	D.N.P. PROJECT III: DATA ANALYSIS AND INTERPRETATION FOR EVIDENCE-BASED PRACTICE	3
	Credit Hours	**3**
	Minimum Total Credit Hours:	**40**

Program Learning Outcomes

Graduates of this program will be able to:

1. Develop and implement systems-focused care and innovative strategies to promote positive, sustainable health and fiscal outcomes across the healthcare continuum.
2. Provide population-focused, advanced nursing care to diverse populations within a variety of settings based on evidence, ethics, theory and professional standards.
3. Provide leadership and interprofessional collaboration to plan, implement and evaluate programs of care delivery to improve outcomes for individuals, populations and aggregates.
4. Synthesize and translate evidence for implementation and dissemination for equitable, evidence-based and inclusive healthcare outcomes.

Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.
3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Full Description

The Doctor of Nursing Practice degree in Nursing is the terminal degree for nurses who want to advance their knowledge of nursing practice, gain leadership and technology skills and become clinical scholars. Students

develop leadership skills to affect health outcomes for individuals and populations by translating scientific evidence into clinical interventions, managing healthcare systems and collaborating with other health care providers.

The Nursing major comprises the following concentrations:

- The **Executive Nurse** concentration prepares nurse leaders for the role of nurse executive at the highest level of healthcare administration.
- The **Nurse Administration and Executive Leadership** concentration prepares B.S.N. nurses for entry-, mid- and executive-level leadership roles.
- The **Practice Leadership** concentration prepares advanced practice and clinical experts to lead interprofessional teams focused on evidence-based practice, quality improvement and translational research.

Nursing - M.S.N.

College of Nursing
www.kent.edu/nursing

About This Program

Take your nursing career to the next level. With a focus on evidence-based practice, leadership and interdisciplinary collaboration, you will be equipped to tackle the complex challenges of today's healthcare environment. Whether you are interested in a career as a nurse practitioner, clinical nurse specialist, educator or administrator, the M.S.N. degree will provide you with the knowledge and skills you need to succeed. Read more...

Contact Information

- **Teresa Adams** | tadams27@kent.edu | 330-672-8761
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online (concentrations Adult Gerontology Clinical Nurse Specialist, Nurse Educator, Nursing Administration and Health Systems Leadership, Psychiatric Mental Health Nurse Practitioner, Women's Health Nurse Practitioner)
  - Mostly online (concentrations Adult Gerontology Acute Care Nurse Practitioner, Adult Gerontology Primary Care Nurse Practitioner, Family Nurse Practitioner, Pediatric Primary Care Nurse Practitioner)
- **Location:**
  - Kent Campus

Applications to the Pediatric Primary Care Nurse Practitioner concentration are not being accepted at this time.

Examples of Possible Careers and Salaries*

Medical and health services managers

- 31.5% much faster than the average
- 422,300 number of jobs
- $104,280 potential earnings

Nurse practitioners

- 52.4% much faster than the average
- 211,300 number of jobs
- $111,680 potential earnings

Nursing instructors and teachers, postsecondary

- 17.6% much faster than the average
- 72,900 number of jobs
- $75,470 potential earnings

Additional Careers

- Clinical nurse specialists

Accreditation

The Master of Science in Nursing degree at Kent State University is accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington, DC 20001, 202-887-6791.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Pediatric Primary Care Nurse Practitioner concentration are not being accepted at this time.

- Bachelor's and/or graduate degree from an accredited registered nursing program[1]
- Minimum 3.000 undergraduate/graduate GPA on a 4.000-point scale *(starting with spring 2026 admission term, minimum 2.750 GPA is required)*
- Completion of an undergraduate statistics course with a minimum C grade *(starting with spring 2026 admission term, requirement is eliminated)*
- Active, unrestricted registered nurse license in the state in which clinical coursework will be completed
- Curriculum vitae (including activities such as national nursing certifications, professional organizations, clinical ladder, PI/QI projects, research, publications and military experience if applicable)
- Essay (two pages double spaced, 500 words) describing professional preparation and rationale for seeking the master's degree in the identified specialty along with professional goals and any experience as a nurse caring for the under-served, high risk or vulnerable

populations *(starting with spring 2026 admission term, the essay is eliminated)*

- Admission essay *is required starting with spring 2026 admission term* responding to the following questions (two pages, double spaced, 500 words):
  - How do you plan to contribute to the nursing profession and healthcare community after earning your M.S.N. degree?
  - How has your experience, professional development and service within the profession contributed to your readiness for graduate education?
  - What experience do you have working as a nurse caring for the underserved, high-risk or vulnerable populations?
- Three professional letters of reference from healthcare professionals, either a supervisor and/or an advanced practice nurse who can speak to the applicant's professional capabilities
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 83 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 55 PTE score
  - Minimum 110 DET score

Admission to the M.S.N. degree is competitive and never guaranteed. Priority will be given to candidates with:

- Strong academic record
- Strong references
- Demonstrated experience in the area of interest
- National certification in a specialty as a nurse
- Membership in a professional nursing organization or military
- Documented community service
- Participation in an agency's Clinical Ladder, PI/QI Projects, research, publication or similar programs/projects
- Experience as a nurse caring for underserved, high risk or vulnerable populations

An additional interview video may be required. Students selected for admission to the nursing program must meet the College of Nursing's Clinical Compliance Policy.

[1] Applicants with an RN license and a bachelor's degree in a non-nursing field, or with a bachelor's degree in nursing from an institution outside the U.S. will be considered based on faculty review of a portfolio submitted with the application.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 1
- **Spring Semester**
  - Priority deadline: October 1
- **Summer Term**
  - Priority deadline: March 1

Applications submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
NURS 50089	INTERNATIONAL HEALTH CARE POLICIES [1]	3
or NURS 60025	HEALTH POLICY AND ADVANCED NURSING PRACTICE	
NURS 60010	ADVANCED NURSING INFORMATICS [2]	3
NURS 60101	THEORETICAL BASIS FOR NURSING PRACTICE	3
NURS 60403	METHODS OF INQUIRY [3]	3
Concentrations		
Choose from the following:		18-35
Adult Gerontology Acute Care Nurse Practitioner		
Adult Gerontology Clinical Nurse Specialist		
Adult Gerontology Primary Care Nurse Practitioner		
Family Nurse Practitioner		
Nurse Educator		
Nursing Administration and Health Systems Leadership		
Pediatric Primary Care Nurse Practitioner		
Psychiatric Mental Health Nurse Practitioner		
Women's Health Nurse Practitioner		
Minimum Total Credit Hours:		**30-47**

[1] NURS 50089 is only offered in another country for students who travel abroad. Students who are planning to earn the D.N.P. degree may take NURS 70685 or NURS 70686 toward this requirement.

[2] Students who are planning to earn the D.N.P. degree may take NURS 70750 toward this requirement.

[3] Students who are planning to earn the D.N.P. degree may take NURS 70630 toward this requirement.

Adult Gerontology Acute Care Nurse Practitioner Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60126	FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE AND PROCEDURES	2
NURS 60129	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I	3
NURS 60230	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III	4
NURS 60330	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV	2
NURS 60441	PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 61092	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I PRACTICUM	2
NURS 61392	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER II PRACTICUM	2

NURS 62392	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III PRACTICUM	2
NURS 63392	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV PRACTICUM	2
Minimum Total Credit Hours:		**31**

Adult Gerontology Clinical Nurse Specialist Concentration Requirements

Code	Title	Credit Hours
Major Requirements		
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60110	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I	3
NURS 60210	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II	3
NURS 60310	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III	3
NURS 60441	PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 61192	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I PRACTICUM	2
NURS 62192	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II PRACTICUM	2-3
NURS 63192	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III PRACTICUM	2-3
Minimum Total Credit Hours:		**28**

Adult Gerontology Primary Care Nurse Practitioner Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60120	ADULT GERONTOLOGY PRIMARY CARE I	3
NURS 60125	FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE	1
NURS 60220	PRIMARY CARE II: CHRONICALLY ILL ADULTS	3
NURS 60320	ADULT GERONTOLOGY PRIMARY CARE III	3
NURS 60441	PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 61292	ADULT GERONTOLOGY PRIMARY CARE I PRACTICUM	2
NURS 61892	FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE PRACTICUM	1
NURS 62292	PRIMARY CARE II PRACTICUM: CHRONICALLY ILL ADULTS	2
NURS 63692	ADULT GERONTOLOGY COMPREHENSIVE PRIMARY CARE III PRACTICUM	2
Minimum Total Credit Hours:		**29**

Family Nurse Practitioner Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60120	ADULT GERONTOLOGY PRIMARY CARE I	3
NURS 60125	FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE	1
NURS 60160	PRIMARY CARE PEDIATRICS	3
NURS 60220	PRIMARY CARE II: CHRONICALLY ILL ADULTS	3
NURS 60325	PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS	4
NURS 60441	PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 61292	ADULT GERONTOLOGY PRIMARY CARE I PRACTICUM	2
NURS 61692	PRIMARY CARE PEDIATRICS PRACTICUM	2
NURS 61892	FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE PRACTICUM	1
NURS 62292	PRIMARY CARE II PRACTICUM: CHRONICALLY ILL ADULTS	2
NURS 63292	PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS PRACTICUM	2
Minimum Total Credit Hours:		**35**

Nurse Educator Concentration Requirements

Code	Title	Credit Hours
Major Requirements		
NURS 60015 & NURS 60045 & NURS 60441	ADVANCED HEALTH ASSESSMENT and PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE and PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3-9
or NURS 60016	ADVANCED ASSESSMENT, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE NURSE LEADER	
NURS 60592	NURSING EDUCATION PRACTICUM	3
NURS 60601	CURRICULUM AND INSTRUCTION IN NURSING EDUCATION	3
NURS 60602	ROLES AND EVALUATION FOR NURSING EDUCATION CURRICULA	3
NURS 60605	NURSING EDUCATION WITH TECHNOLOGY	2
NURS 60607	CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA	2
NURS 67092	CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA PRACTICUM	2
Minimum Total Credit Hours:		**18**

Nursing Administration and Health Systems Leadership Concentration Requirements

Code	Title	Credit Hours
Major Requirements		
NURS 60014	LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT	3

NURS 60016	ADVANCED ASSESSMENT, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE NURSE LEADER	3
NURS 60020	LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS	3
NURS 60024	HEALTH CARE ORGANIZATION, STRUCTURE AND BEHAVIOR	3
NURS 60315	BUDGETARY AND FISCAL MANAGEMENT FOR NURSES	3
NURS 64002	PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS	3
NURS 64292	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM	2
NURS 64302	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP SEMINAR	2
NURS 64392	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II PRACTICUM	2
Minimum Total Credit Hours:		**24**

Pediatric Primary Care Nurse Practitioner Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60170	PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSES	3
NURS 60270	PEDIATRIC NURSE PRACTITIONER I	3
NURS 60370	PEDIATRIC NURSE PRACTITIONER II	1
NURS 60372	ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD	3
NURS 60441	PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60470	PEDIATRIC NURSE PRACTITIONER III	2
NURS 61792	PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSE PRACTICUM	2
NURS 62792	PEDIATRIC NURSE PRACTITIONER I PRACTICUM	2
NURS 63792	PEDIATRIC NURSE PRACTITIONER II PRACTICUM	1
NURS 63992	ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD PRACTICUM	2
NURS 64792	PEDIATRIC NURSE PRACTITIONER III PRACTICUM	1
Minimum Total Credit Hours:		**29**

Psychiatric Mental Health Nurse Practitioner Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
NURS 60012	ADVANCED MENTAL HEALTH ASSESSMENT AND PSYCHOPATHOLOGY	4
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60051	NEUROBIOLOGY AND PSYCHOPHARMACOLOGY OF MAJOR PSYCHIATRIC DISORDERS	4
NURS 60151	INDIVIDUAL PSYCHOTHERAPY	3
NURS 60251	FAMILY AND GROUP PSYCHOTHERAPY	3
NURS 60353	INDIVIDUAL, ORGANIZATION AND COMMUNITY CONSULTATION	3
NURS 60441	PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 61592	PRACTICUM I: INDIVIDUAL THERAPY	2
NURS 62592	PRACTICUM II: MEDICATION MANAGEMENT AND INDIVIDUAL THERAPY	2
NURS 63592	PRACTICUM III: FAMILY AND GROUP THERAPY	2
NURS 64592	PRACTICUM IV: NURSE PRACTITIONER ROLE	2
Minimum Total Credit Hours:		**34**

Women's Health Nurse Practitioner Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60441	PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 66100	WOMEN'S HEALTH NURSE PRACTITIONER I	3
NURS 66192	WOMEN'S HEALTH NURSE PRACTITIONER I PRACTICUM	2
NURS 66200	WOMEN'S HEALTH NURSE PRACTITIONER II	2
NURS 66292	WOMEN'S HEALTH NURSE PRACTITIONER II PRACTICUM	2
NURS 66300	WOMEN'S HEALTH NURSE PRACTITIONER III	3
NURS 66392	WOMEN'S HEALTH NURSE PRACTITIONER III PRACTICUM	2
NURS 66400	WOMEN'S HEALTH NURSE PRACTITIONER IV	2
NURS 66492	WOMEN'S HEALTH NURSE PRACTITIONER IV PRACTICUM	2
Minimum Total Credit Hours:		**30**

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Minimum 300-600 clinical hours, depending on concentration
- Maximum six years of study. Under selected circumstances and upon the consent of the advisor, petitions for extensions of an additional one year to completion may be submitted to the concentration director.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Meet standards for advanced practice certification or other advanced professional distinction.
2. Demonstrate competencies based on professional standards to assume advanced roles in nursing, and for leadership and career advancement, including doctoral study.
3. Communicate, integrate and apply advanced nursing knowledge and skills to provide equitable, evidence-based, inclusive nursing care and promote quality outcomes in nursing and health care.

Program Policies

Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.
3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Time Limit for Graduate Nursing Courses

Certain courses are critical to be completed within a timely manner for patient safety as well as student success in the program. This policy ensures that clinical skills and critical knowledge learned in specific courses taken three or more years ago are refreshed before moving to more advanced levels of practice.

Students who have stopped out of the clinical sequence of courses for a period of time must repeat the following practicum and corequisite lecture courses if they are three of more years old:

- NURS 60110 and NURS 61192
- NURS 60120 and NURS 61292
- NURS 60125 and NURS 61892
- NURS 60126 and NURS 61392
- NURS 60126 and NURS 61892
- NURS 60129 and NURS 61092
- NURS 60151 and NURS 61592
- NURS 60160 and NURS 61692
- NURS 60170 and NURS 61792
- NURS 60210 and NURS 62192
- NURS 60220 and NURS 62292
- NURS 60230 and NURS 62392
- NURS 60251 and NURS 63592
- NURS 60270 and NURS 62792
- NURS 60310 and NURS 63192
- NURS 60320 and NURS 63692
- NURS 60325 and NURS 63292
- NURS 60330 and NURS 63392
- NURS 60353 and NURS 64592
- NURS 60370 and NURS 63792
- NURS 60372 and NURS 63992
- NURS 60470 and NURS 64792
- NURS 62592
- NURS 66100 and NURS 66192
- NURS 66200 and NURS 66292

- NURS 66300 and NURS 66392
- NURS 66400 and NURS 66492

Certifying agencies and state licensing requirements for advanced practice registered nurses have time limits for critical courses. Courses completed outside of this time frame may need to be repeated prior to seeking national certification. Students are advised to check with certifying agencies and state licensing agencies upon admission to determine if the age of their prior courses will meet requirements.

Dual Degree with Master of Business Administration

Student have the opportunity to complete a dual degree program with the M.B.A. degree in Business Administration and the M.S.N degree in Nursing. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The M.B.A./M.S.N. dual degree is for experienced nurses whose career goals include assuming middle or executive management positions in health services agencies or in health-related companies, or who are interested in starting their own businesses. It combines the strengths of advanced nursing preparation with the practical management knowledge needed to develop significant leadership capabilities.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
or NURS 60010	ADVANCED NURSING INFORMATICS	
ECON 52086	ECONOMICS OF HEALTH CARE	2-3
or ECON 62022	MANAGERIAL ECONOMICS	
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
FIN 66050	LAW AND ETHICS	2-3
or NURS 60020	LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS	
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
or NURS 60014	LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT	
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	1
MKTG 65051	MARKETING MANAGEMENT	2
NURS 60016	ADVANCED ASSESSMENT, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE NURSE LEADER	3
NURS 60024	HEALTH CARE ORGANIZATION, STRUCTURE AND BEHAVIOR	3
NURS 60025	HEALTH POLICY AND ADVANCED NURSING PRACTICE	3
NURS 60101	THEORETICAL BASIS FOR NURSING PRACTICE	3
NURS 60403	METHODS OF INQUIRY	3
NURS 64002	PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS	3
Ambassador Crawford College of Business and Entrepreneurship Graduate Electives (50000 level or higher), choose from the following:		6
Accounting (ACCT) Course		
Business (BUS) Course		
Business Analytics (BA) Course		
Computer Information Systems (CIS) Course		
Economics (ECON) Course		
Entrepreneurship (ENTR) Course		
Finance (FIN) Course		
Human Resource Management (HRM) Course		
Management (MGMT) Course		
Marketing (MKTG) Course		
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
NURS 64292	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM	2
NURS 64302	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP SEMINAR	2
NURS 64392	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II PRACTICUM	2
Minimum Total Credit Hours:		**58**

[1] MGMT 68051 is required for students who have not worked a minimum of two years, full-time, since obtaining their bachelor's degree. **Students waived the course may graduate with 57 credit hours.**

Full Description

The Master of Science in Nursing degree meets the educational eligibility requirements for national certification in the respective area of study. The degree program can be completed in four to five semesters (two full academic years) for full-time students. Part-time students typically take three to four years to complete the program. Completion of a thesis is optional.

The Nursing major comprises the following concentrations:

- The **Adult Gerontology Acute Care Nurse Practitioner** concentration allows students to attain advanced practice nursing competencies in providing evidence-based care to adults and older adults with complex acute and chronic illnesses. Clinical experiences occur in a variety of acute care settings, including general medical care, emergency care, critical care and specialty practice. Through clinical practicums, students provide direct patient care in collaboration with a team of health professionals to diagnose and treat patients across the continuum of health care services.
- The **Adult Gerontology Clinical Nurse Specialist** concentration fosters acquisition of the needed competencies to care for patients spanning the entire adult to older-adult spectrum. Class and clinical experiences focus on providing advanced nursing care across the health continuum, from wellness to acute care. Students develop competencies across the three spheres of impact: patient/direct care, nurses/nursing practice and organizations/systems.
- The **Adult Gerontology Primary Care Nurse Practitioner** concentration allows students to develop advanced practice nursing competencies in health promotion, risk detection, illness prevention and management of acute and chronic illnesses in adults and older

adults. Clinical experiences involve direct care in collaboration with other health professionals to maximize the effectiveness of community and health care system services. Clinical practicums include primary care offices, such as internal medicine and family practice clinics, managed care offices, emergency departments, free clinics and long-term care and occupational health settings.

- The **Family Nurse Practitioner** concentration allows students to acquire advanced practice nursing competencies to provide continuity of health care to persons across the life span, as well as to maximize the effectiveness of community and health care system services through collaboration with other health professionals. Clinical experiences are offered in a variety of ambulatory care settings and specialty clinics in primary care offices, including family practice, internal medicine, managed care offices, emergency departments, long-term care facilities and academic and occupational health settings.
- The **Nurse Educator** concentration allows students to develop in-depth knowledge and expertise in selected areas of nursing practice and the role of the nurse educator. Emphasis of the nurse educator role focuses on best practices in curriculum development, instruction and evaluation that prepare students for teaching within a variety of learning environments in academic and staff professional development settings. Students engage in individualized practicum experiences where they apply content learned throughout the graduate curriculum in both their area of nursing practice and the nurse educator role.
- The **Nursing Administration and Health Systems Leadership** concentration integrates management, leadership and nursing knowledge for students to develop skills and competencies in administration, systems leadership and advanced nursing.
- The **Pediatric Primary Care Nurse Practitioner** concentration focuses on health promotion, illness prevention, risk identification and acute and chronic care of infants, children and adolescents in the primary care setting. Practicum experiences take place in outpatient primary care and specialty settings; the experiences offer the opportunity for students to provide individualized and culturally competent advanced practice nursing care to children within the context of their families.
- The **Psychiatric Mental Health Nurse Practitioner** concentration builds on core advanced practice nursing knowledge. The program focuses on knowledge and skill development in mental health assessment and diagnostic reasoning, prescribing and medication management and advanced therapeutic modalities such as individual, group and family psychotherapy.
- The **Women's Health Nurse Practitioner** concentration prepares students to provide the highest level of primary nursing care for women involving health promotion and disease prevention. Students gain competency in advanced nursing management of common acute and chronic conditions. Students practice in direct care and in collaboration with other health care professionals. Practicum experiences foster development of clinical judgment and primary care skills through faculty mentorship and clinical preceptors in a variety of ambulatory care settings and specialty clinics.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

The Nurse Educator and Nursing Administration and Health Systems Leadership concentrations have an optional licensure that is not required in any state.

Nursing - Ph.D.

College of Nursing
www.kent.edu/nursing

About This Program

The Ph.D. degree in Nursing prepares nurse scientists to develop methods to advance health, health care and the nursing profession. Graduates are expected to lead and promote interprofessional innovative scholarly endeavors and to assume leadership roles in the profession.

Contact Information

- **Teresa Adams** | tadams27@kent.edu | 330-672-8761
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Nursing instructors and teachers, postsecondary

- 17.6% much faster than the average
- 72,900 number of jobs
- $75,470 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Active, unrestricted U.S. registered nurse license (international students need to show proof of legal ability to practice as a registered nurse in country of origin)
- Bachelor's or master's degree in nursing or related field, or a Doctor of Nursing Practice degree, from an accredited program[1]
- Minimum overall 3.000 graduate GPA on a 4.000-point scale

- Official transcript(s)
- Résumé or curriculum vitae
- Essay (two pages, single-spaced), see guidelines below
- Three letters of reference from health care professionals or academic faculty members who can speak to the applicant's professional and academic abilities (two of the three references from doctoral-prepared individuals are preferred)
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] A bachelor's degree in a closely related health field may be considered if the applicant has a master's degree in nursing or a D.N.P. degree from an accredited program. A master's degree in a closely related field may be considered if the applicant has a bachelor's degree in nursing from an accredited program.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Guidelines for the Essay

- Applicants should begin their essay with "why" they are pursuing the Ph.D. degree in Nursing and "how" this degree will help them achieve their research and professional goals.
  - Introduce the population or phenomenon of interest that will be investigated.
- In the body of the essay, applicants should explain why they are interested in this population and/or phenomenon and how their work will impact or advance science in that area.
  - Consider including scientific gaps and significance in that area of research.
  - Elucidate the effect the research will have on the health outcomes of the proposed population or those affected by the phenomenon of interest.
  - Indicate how the work may reflect diversity, equity and inclusion in the area of research.
- In the closing paragraph, applicants should provide one to two key aspects of their research and propose ways to disseminate their scientific discovery.

Application Deadlines

- **Fall Semester**
  - Application deadline: November 15 (international student) and March 1 (domestic student)

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (min B grade in all courses)		
NURS 70710	HISTORY AND PHILOSOPHY OF NURSING SCIENCE	2
NURS 70711	SCIENTIFIC WRITING	3
NURS 70712	RESEARCH DESIGN FUNDAMENTALS	3
NURS 70713	ADVANCED STATISTICS I	3
NURS 70714	LEADERSHIP FOR NURSING SCIENCE	3
NURS 70715	THEORY CONSTRUCTION AND DEVELOPMENT IN NURSING	3
NURS 70740	ADVANCED STATISTICS II	3
NURS 70742	ADVANCED QUALITATIVE METHODS FOR HEALTH SCIENCES	4
NURS 70743	ADVANCED QUANTITATIVE METHODS FOR HEALTH SCIENCES	4
NURS 70744	DISSERTATION FOUNDATIONS	3
NURS 70753	DATA SCIENCE AND NURSING	3
NURS 70798	RESEARCH IN NURSING [1]	3-5
Post-Baccalaureate Requirements (all are required for post-baccalaureate students)		0-9
NURS 70716	INNOVATION AND INTERVENTION RESEARCH	
NURS 70718	ROLES AND EVALUATION	
NURS 70739	RESEARCH IN HEALTH DISPARITIES	
Nursing Science Electives, choose from the following: [2]		6-12
BSCI 70195	SPECIAL TOPICS IN BIOLOGY	
BSCI 80145	MEDICAL GENOMICS	
BST 83013	EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH	
BST 83014	APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA	
CI 77001	FUNDAMENTALS OF CURRICULUM	
COMM 75040	QUALITATIVE RESEARCH METHODS IN COMMUNICATION	
CULT 89595	SPECIAL TOPICS IN CULTURAL FOUNDATIONS	
EPI 83018	OBSERVATIONAL DESIGNS FOR CLINICAL RESEARCH	
EPSY 75524	LEARNING THEORIES	
HED 81550	APPLIED THEORY IN HEALTH EDUCATION RESEARCH AND PRACTICE	
HED 84050	HEALTH BEHAVIOR	
PSYC 80391	SEMINAR IN CLINICAL PSYCHOLOGY	
RMS 75522	BASICS OF QUALITATIVE INTERVIEWING	
RMS 75533	INTRODUCTION TO NARRATIVE INQUIRY AND ANALYSIS	
RMS 78715	SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION	
RMS 78735	STRUCTURAL EQUATION MODELING	
RMS 78745	HIERARCHICAL LINEAR MODELING	
RMS 85520	MIXED METHODS RESEARCH	
RMS 85540	GROUNDED THEORY AND PHENOMENOLOGICAL RESEARCH	
RMS 85550	ETHNOGRAPHY AND CASE STUDY RESEARCH	
SBS 73018	THEORIES OF PREVENTION SCIENCE	
SBS 73019	EVALUATION RESEARCH METHODS IN PREVENTION SCIENCE	

SBS 80030	CODING FOR QUALITATIVE RESEARCH	
SBS 80040	TRANSCRIBING INDIVIDUAL AND GROUP INTERVIEWS FOR QUALITATIVE RESEARCH	
SBS 80100	EMERGING ISSUES IN PREVENTION SCIENCE	
SBS 83010	QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH	
SBS 83011	QUALITATIVE DATA ANALYSIS	
SOC 72219	QUALITATIVE METHODS IN SOCIOLOGY	
SOC 72221	ADVANCED QUALITATIVE METHODS IN SOCIOLOGY	
Culminating Requirement		
NURS 80199	DISSERTATION I [3]	30
Minimum Total Credit Hours for Post-Baccalaureate Students		**90**
Minimum Total Credit Hours for Post-Master's Students		**73**

[1] Post-baccalaureate students must complete 5 credit hours of NURS 70798 for the degree. Post-master's students must complete 3 credit hours of NURS 70798 for the degree.

[2] Post-baccalaureate students must complete 12 credit hours of electives, and post-master's students must complete 6 credit hours of electives for the degree. Elective courses support the student's research interest and are selected with the approval of the student's academic advisor. The courses will supplement the student's program of study in a substantive area of research or specific method of research, including advanced statistical approaches, or assist the student with career goals following graduation.

[3] Each doctoral candidate, upon admission to candidacy, must register for NURS 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter NURS 80299, each semester, until all requirements for the degree have been met.

Oral Candidacy Examination

At the conclusion of coursework, students sit for the candidacy examination. The examination provides the basis for evaluation of the student's readiness for completing the dissertation. Students must successfully pass candidacy and a proposal defense before beginning dissertation work.

Progression Requirements

- Students who do not earn a minimum B grade in a course must repeat it and cannot take other courses that require that course as a prerequisite until the course is successfully retaken. Students who do not earn a minimum B grade on the second attempt may be dismissed from the Ph.D. degree.
- The courses will be delivered mostly synchronously online. The face-to-face requirement for this hybrid program is met through attending Doctoral Days.
- Each year, Ph.D. students are required to come to campus for Doctoral Days. The purpose of Doctoral Days is to provide scholarly socialization and scientific role development. The American Association of Colleges of Nursing (AACN) pathways to excellence in doctoral education include three curricular domains. These domains are addressed throughout the curriculum and in the Doctoral Days.
  - **Domain 1: Scientific Development** is the ability to articulate nursing science's history, philosophy, knowledge construction and the influence on the discipline and research.
  - **Domain 2: Health Equity** is knowledge and skill development to lead research and improve practice through ethical, culturally humble and human-centered research.
  - **Domain 3: Stewards of the Discipline** are professional ethics for conducting original research, proficiency in scientific communication and identifying implications for policy, practice, future research and the discipline.

Doctoral Days occur at the beginning of the fall semester in Years 1 and 2 (first three days of the semester). In Year 3, Doctoral Days occur at the end of the spring semester to coincide with May graduation, on the day before and the day of commencement.

Activities at Doctoral Days in Years 1 and 2 include:

- Orientation to each class taken that year
- Human subjects research content
- Opportunities to engage with faculty and fellow students in the College of Nursing and presentations on trends in nursing science
- Library resources, milestone expectations and time with student's advisor
- Special topics speakers

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Minimum B grade required in all courses to earn the Ph.D. degree.
- Passage of the candidacy examination
- Submission and successful defense of a dissertation

Students with a D.N.P. degree may receive permission to have coursework waived if supported by the appropriate and recent coursework; however, maximum 12 credit hours may transfer to the Ph.D.. The waiver of each specific course will be determined by the relevant academic department. These students may graduate with fewer than 73 credit hours but no fewer than 60 total credit hours.

Roadmaps

Post-Baccalaureate Track

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

First Year		
Fall Semester		**Credits**
NURS 70710	HISTORY AND PHILOSOPHY OF NURSING SCIENCE	2
NURS 70711	SCIENTIFIC WRITING	3
NURS 70712	RESEARCH DESIGN FUNDAMENTALS	3
NURS 70713	ADVANCED STATISTICS I	3
	Credit Hours	**11**
Spring Semester		
NURS 70715	THEORY CONSTRUCTION AND DEVELOPMENT IN NURSING	3
NURS 70740	ADVANCED STATISTICS II	3
NURS 70742	ADVANCED QUALITATIVE METHODS FOR HEALTH SCIENCES	4

NURS 70798	RESEARCH IN NURSING	2
	Credit Hours	**12**
Summer Term		
NURS 70714	LEADERSHIP FOR NURSING SCIENCE	3
NURS 70716	INNOVATION AND INTERVENTION RESEARCH	3
Nursing Science Elective		3
	Credit Hours	**9**
Second Year		
Fall Semester		
NURS 70743	ADVANCED QUANTITATIVE METHODS FOR HEALTH SCIENCES	4
NURS 70753	DATA SCIENCE AND NURSING	3
NURS 70798	RESEARCH IN NURSING	3
	Credit Hours	**10**
Spring Semester		
NURS 70718	ROLES AND EVALUATION	3
NURS 70739	RESEARCH IN HEALTH DISPARITIES	3
Nursing Science Elective		3
	Credit Hours	**9**
Third Year		
Fall Semester		
Nursing Science Electives		6
	Credit Hours	**6**
Spring Semester		
NURS 70744	DISSERTATION FOUNDATIONS	3
	Credit Hours	**3**
Summer Term		
Oral Candidacy		
	Credit Hours	**0**
Fourth Year		
Fall Semester		
NURS 80199	DISSERTATION I	15
	Credit Hours	**15**
Spring Semester		
NURS 80199	DISSERTATION I	15
	Credit Hours	**15**
	Minimum Total Credit Hours:	**90**

Post-Master's Track

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

First Year		
Fall Semester		**Credits**
NURS 70710	HISTORY AND PHILOSOPHY OF NURSING SCIENCE	2
NURS 70711	SCIENTIFIC WRITING	3
NURS 70712	RESEARCH DESIGN FUNDAMENTALS	3
NURS 70713	ADVANCED STATISTICS I	3
	Credit Hours	**11**
Spring Semester		
NURS 70715	THEORY CONSTRUCTION AND DEVELOPMENT IN NURSING	3
NURS 70740	ADVANCED STATISTICS II	3
NURS 70742	ADVANCED QUALITATIVE METHODS FOR HEALTH SCIENCES	4
	Credit Hours	**10**
Summer Term		
NURS 70714	LEADERSHIP FOR NURSING SCIENCE	3
NURS 70798	RESEARCH IN NURSING	1
Nursing Science Elective		3
	Credit Hours	**7**
Second Year		
Fall Semester		
NURS 70743	ADVANCED QUANTITATIVE METHODS FOR HEALTH SCIENCES	4
NURS 70753	DATA SCIENCE AND NURSING	3
NURS 70798	RESEARCH IN NURSING	2
	Credit Hours	**9**
Spring Semester		
NURS 70744	DISSERTATION FOUNDATIONS	3
Nursing Science Elective		3
	Credit Hours	**6**
Summer Term		
Candidacy Examination		
	Credit Hours	**0**
Third Year		
Fall Semester		
NURS 80199	DISSERTATION I	15
	Credit Hours	**15**
Spring Semester		
NURS 80199	DISSERTATION I	15
	Credit Hours	**15**
	Minimum Total Credit Hours:	**73**

Program Learning Outcomes

Graduates of this program will be able to:

1. Generate new knowledge that contributes to the advancement of health, healthcare and nursing science.
2. Disseminate advances in scientific knowledge.
3. Use collaborative, interdisciplinary and innovative approaches to advance nursing science.
4. Assume leadership roles in healthcare and education as researchers, educators and advanced clinicians.
5. Serve as stewards of the diversity within the body of knowledge for the discipline of nursing.

Nursing Administration and Health Systems Leadership - Graduate Certificate

College of Nursing
www.kent.edu/nursing

About This Program

The Nursing Administration and Health Systems Leadership graduate certificate provides nurses who already have a graduate nursing degree

the additional specialized knowledge for the nursing administration and health systems leadership.

Contact Information

- **Teresa Adams** | tadams27@kent.edu | 330-672-8761
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000-point scale
- Official transcript(s) of all previous graduate coursework[1]
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Curriculum vitae
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals *(starting with spring 2026 admission term, goal statement is no longer required)*
- Admission essay is required starting with spring 2026 admission term responding to the following questions (two pages, double spaced, 500 words):
  - How do you plan to contribute to the nursing profession and healthcare community after earning your M.S.N. degree?
  - How has your experience, professional development and service within the profession contributed to your readiness for graduate education?
  - What experience do you have working as a nurse caring for the underserved, high-risk or vulnerable populations?
- Syllabi of all courses to considered for transfer in the gap analysis
- Three professional letters of reference from healthcare professionals, either a supervisor and/or an advanced practice nurse who can speak to the applicant's professional capabilities
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet **specific exceptions to waive**) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 1
- **Spring Semester**
  - Priority deadline: October 1
- **Summer Term**
  - Priority deadline: March 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
NURS 60014	LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT	3
NURS 60016	ADVANCED ASSESSMENT, PATHOPHYSIOLOGY AND PHARMACOLOGY FOR THE NURSE LEADER	3
NURS 60020	LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS	3
NURS 60024	HEALTH CARE ORGANIZATION, STRUCTURE AND BEHAVIOR	3
NURS 60315	BUDGETARY AND FISCAL MANAGEMENT FOR NURSES	3
NURS 64002	PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS	3
NURS 64292	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM	2
NURS 64302	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP SEMINAR	2
NURS 64392	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II PRACTICUM	2
Minimum Total Credit Hours:		**24**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Meet standards for advanced practice certification or other advanced professional distinction.
2. Demonstrate competencies based on professional standards to assume advanced roles in nursing and for leadership and career advancement, including doctoral study.
3. Communicate, integrate and apply advanced nursing knowledge and skills to provide equitable, evidence-based and inclusive nursing care, and to promote quality outcomes in nursing and health care.

Program Policies
Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.
3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Time Limit for Graduate Nursing Courses

Certain courses are critical to be completed within a timely manner for patient safety as well as student success in the program. This policy ensures that clinical skills and critical knowledge learned in specific courses taken three or more years ago are refreshed before moving to more advanced levels of practice.

Students who have stopped out of the clinical sequence of courses for a period of time must repeat the following practicum and corequisite lecture courses if they are three of more years old:

- NURS 60110 and NURS 61192
- NURS 60120 and NURS 61292
- NURS 60125 and NURS 61892
- NURS 60126 and NURS 61392
- NURS 60126 and NURS 61892
- NURS 60129 and NURS 61092
- NURS 60151 and NURS 61592
- NURS 60160 and NURS 61692
- NURS 60170 and NURS 61792
- NURS 60210 and NURS 62192
- NURS 60220 and NURS 62292
- NURS 60230 and NURS 62392
- NURS 60251 and NURS 63592
- NURS 60270 and NURS 62792
- NURS 60310 and NURS 63192
- NURS 60320 and NURS 63692
- NURS 60325 and NURS 63292
- NURS 60330 and NURS 63392
- NURS 60353 and NURS 64592
- NURS 60370 and NURS 63792
- NURS 60372 and NURS 63992
- NURS 60470 and NURS 64792
- NURS 62592
- NURS 66100 and NURS 66192
- NURS 66200 and NURS 66292
- NURS 66300 and NURS 66392
- NURS 66400 and NURS 66492

Certifying agencies and state licensing requirements for advanced practice registered nurses have time limits for critical courses. Courses completed outside of this time frame may need to be repeated prior to seeking national certification. Students are advised to check with certifying agencies and state licensing agencies upon admission to determine if the age of their prior courses will meet requirements.

Nursing for Registered Nurses - B.S.N.

College of Nursing
www.kent.edu/nursing

About This Program

Advance your nursing career with the Kent State's RN-to-B.S.N. program. Our program is designed to help you build on your nursing experience and earn your Bachelor of Science in Nursing degree, opening doors to a wider range of career opportunities. Read more...

Contact Information

- **Diana Fleming, Ph.D., M.S.N., RN** | rnbsn@kent.edu | 330-672-7950
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Registered nurses

- 7.2% faster than the average
- 3,096,700 number of jobs
- $75,330 potential earnings

Teaching assistants, postsecondary

- 3.4% about as fast as the average
- 169,600 number of jobs
- $36,250 potential earnings

Additional Careers

- Entry-level management

Accreditation

The B.S.N. degree Nursing for Registered Nurses at Kent State University is accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington, DC 20001, 202-887-6791.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Nursing for Registered Nurses major is selective. Criteria for admission includes the following:

- Evidence of admission in good standing from a state-approved associate degree or diploma nursing program
- Minimum 2.000 overall GPA on a 4.000-point scale

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Prerequisite Requirements (min C graded required in all courses)		
BSCI 20021	BASIC MICROBIOLOGY	3-4
or BSCI 30171	GENERAL MICROBIOLOGY	
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) [1]	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II [1]	4
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3-4
or CHEM 10055	MOLECULES OF LIFE (KBS)	
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
Major Requirements (courses count in major GPA; minimum C grade required in all courses)		
BSCI 30050	HUMAN GENETICS	3
or BSCI 30156	ELEMENTS OF GENETICS	
NURS 40075	INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS [2]	3
NURS 40873	INTRODUCTION TO EVIDENCE BASED PRACTICE FOR REGISTERED NURSES [3]	3
NURS 41000	CONCEPTS AND ISSUES FOR PROFESSIONAL NURSING PRACTICE	3
NURS 42000	LEADERSHIP AND MANAGEMENT FOR PROFESSIONAL NURSING PRACTICE [4]	3
NURS 43001	HEALTH PROMOTION IN PROFESSIONAL NURSING PRACTICE (ELR)	3
NURS 44001	POPULATION-BASED NURSING FOR PROFESSIONAL NURSING PRACTICE (DIVG)	3
NURS 45000	HEALTH MAINTENANCE AND RESTORATION FOR PROFESSIONAL NURSING PRACTICE	3
NURS 46000	HEALTH CARE POLICY [5]	3
NURS 47000	CAPSTONE CLINICAL FOR PROFESSIONAL NURSING PRACTICE (WIC) [6]	3
or NURS 47099	CAPSTONE FOR PROFESSIONAL NURSING PRACTICE (ELR) (WIC)	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
Nursing Upper-Division Elective, choose from the following: [7]		3
NURS 35020	TRANSCULTURAL NURSING AND HEALTH CARE	
NURS 35040	COMPLEMENTARY AND INTEGRATIVE HEALTH	
NURS 35070	NURSING ETHICS IN CLINICAL PRACTICE	
NURS 35075	INTRODUCTION TO FORENSIC NURSING	
NURS 35080	CONTEMPORARY ISSUES IN NURSING PRACTICE AND HEALTH CARE	
NURS 45050	LEGAL ISSUES FOR NURSES	

Statistics Elective, choose from the following:		3-4
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
NURS 31010	APPLICATIONS FOR STATISTICAL FINDINGS FOR EVIDENCE BASED PRACTICE	
PH 30002	INTRODUCTORY BIOSTATISTICS	
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	
Additional Requirements (courses do not count in major GPA)		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning (min C grade)		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Additional		3
Associate Degree Courses and General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		39
Minimum Total Credit Hours:		**120**

1 Students who have successfully completed ATTR 25057 (or EXSC 25057) and ATTR 25058 (or EXSC 25058) or BSCI 11010 and BSCI 11020 with a minimum C grade may use those courses in place of BSCI 21010 and BSCI 21020.

2 Students admitted to the B.S.N./M.S.N. combined degree program may substitute NURS 60010 for NURS 40075.

3 Students admitted to the B.S.N./M.S.N. combined degree program may substitute NURS 60403 for NURS 40873.

4 Students admitted to the B.S.N./M.S.N. combined degree program may substitute NURS 60014 for NURS 42000.

5 Students admitted to the B.S.N./M.S.N. combined degree program may substitute NURS 60025 for NURS 46000.

6 A minimum C grade must be earned to fulfill the writing-intensive requirement.

7 Students admitted to the B.S.N./M.S.N. combined degree program may substitute NURS 60016, NURS 60020 or NURS 60101 for the Nursing Upper-Division Elective.

Progression Requirements

To be eligible to register for nursing (NURS) courses, students must have successfully completed:

- Active, unrestricted registered nurse (RN) license in the state in which practica will be completed
- Completion of required science courses or their direct equivalents with an overall 2.0 GPA
  - Anatomy and Physiology: BSCI 21010 and BSCI 21020
- Chemistry: CHEM 10050 or CHEM 10055 or CHEM 10060
- Microbiology: BSCI 20021
- All Kent Core requirements
- Kent Core Mathematics and Critical Reasoning course with minimum C grade
- BSCI 30050 or BSCI 30156 (or equivalent) with minimum C grade
- The following courses (or their equivalents): NUTR 23511; PSYC 11762; SOC 12050; and MATH 10041 (or NURS 31010 or PH 30002 or PSYC 21621)

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite		Credits
BSCI 20021 or BSCI 30171	BASIC MICROBIOLOGY or GENERAL MICROBIOLOGY	3-4
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
CHEM 10050 or CHEM 10055 or CHEM 10060	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS) or GENERAL CHEMISTRY I (KBS)	3-4
Associate Degree Courses		33
	Credit Hours	**47**
Semester One		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**13**
Semester Two		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Three		
BSCI 30050 or BSCI 30156	HUMAN GENETICS or ELEMENTS OF GENETICS	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
Statistics Elective		3-4
Kent Core Requirement		3
	Credit Hours	**12**
Semester Four		
NURS 40075	INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS	3
NURS 41000	CONCEPTS AND ISSUES FOR PROFESSIONAL NURSING PRACTICE	3
NURS 42000	LEADERSHIP AND MANAGEMENT FOR PROFESSIONAL NURSING PRACTICE	3
NURS 43001	HEALTH PROMOTION IN PROFESSIONAL NURSING PRACTICE (ELR)	3
	Credit Hours	**12**

Semester Five		
NURS 44001	POPULATION-BASED NURSING FOR PROFESSIONAL NURSING PRACTICE (DIVG)	3
NURS 45000	HEALTH MAINTENANCE AND RESTORATION FOR PROFESSIONAL NURSING PRACTICE	3
NURS 46000	HEALTH CARE POLICY	3
Nursing Upper-Division Elective		3
General Elective		3
	Credit Hours	**15**
Semester Six		
NURS 40873	INTRODUCTION TO EVIDENCE BASED PRACTICE FOR REGISTERED NURSES	3
NURS 47000 or NURS 47099	CAPSTONE CLINICAL FOR PROFESSIONAL NURSING PRACTICE (WIC) or CAPSTONE FOR PROFESSIONAL NURSING PRACTICE (ELR) (WIC)	3
	Credit Hours	**6**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Acquire competencies based on professional standards to assume the role of the professional nurse and for career advancement, including graduate studies.
2. Apply the nursing process in providing evidence-based, culturally sensitive care to promote health and adaptation of individuals, families, groups and communities.

Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.
3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Full Description

The Bachelor of Science in Nursing degree in Nursing for Registered Nurses is for registered nurses (RN) with a diploma or associate degree who are seeking an accredited bachelor's degree in nursing. The completer program is offered fully online for part- and full-time students. Expert faculty and administrators work closely with students to equip them to meet the future challenges of professional nursing and influence the future of health care.

Students may apply early to the following master's degree programs and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy for more information.

- M.S.N. degree in Nursing
- M.S. degree in Health Informatics

Pediatric Primary Care Nurse Practitioner - Graduate Certificate

College of Nursing
www.kent.edu/nursing

About This Program

The Pediatric Primary Care Nurse Practitioner graduate certificate provides nurses who already have a graduate nursing degree the additional specialized knowledge for the pediatric primary care nurse practitioner role. The certificate meets the educational requirements for application to the national certification examination.

Contact Information

- **Teresa Adams** | tadams27@kent.edu | 330-672-8761
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the Pediatric Primary Care Nurse Practitioner graduate certificate are not being accepted at this time.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Pediatric Primary Care Nurse Practitioner graduate certificate are not being accepted at this time.

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000-point scale
- Official transcript(s) of all previous graduate coursework[1]
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Résumé or curriculum vitae
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals
- Syllabi of all courses to considered for transfer in the gap analysis
- Three letters of reference from health care professionals or faculty members
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] Transcript(s) must indicate completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment, with a minimum B grade earned in each course. Applicants who do not meet the grade requirement for advanced pathophysiology, advanced pharmacology and advanced health assessment may be considered for a conditional admission. For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
NURS 60170	PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSES	3
NURS 60270	PEDIATRIC NURSE PRACTITIONER I	3

NURS 60370	PEDIATRIC NURSE PRACTITIONER II	1
NURS 60372	ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD	3
NURS 60470	PEDIATRIC NURSE PRACTITIONER III	2
NURS 61792	PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSE PRACTICUM	2
NURS 62792	PEDIATRIC NURSE PRACTITIONER I PRACTICUM	2
NURS 63792	PEDIATRIC NURSE PRACTITIONER II PRACTICUM	1
NURS 63992	ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD PRACTICUM	2
NURS 64792	PEDIATRIC NURSE PRACTITIONER III PRACTICUM	1
Minimum Total Credit Hours:		**20**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Meet standards for advanced practice certification or other advanced professional distinction.
2. Demonstrate competencies based on professional standards to assume advanced roles in nursing and for leadership and career advancement, including doctoral study.
3. Communicate, integrate and apply advanced nursing knowledge and skills to provide equitable, evidence-based, inclusive nursing care and promote quality outcomes in nursing and health care.

Program Policies

Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.
3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Time Limit for Graduate Nursing Courses

Certain courses are critical to be completed within a timely manner for patient safety as well as student success in the program. This policy ensures that clinical skills and critical knowledge learned in specific courses taken three or more years ago are refreshed before moving to more advanced levels of practice.

Students who have stopped out of the clinical sequence of courses for a period of time must repeat the following practicum and corequisite lecture courses if they are three of more years old:

- NURS 60110 and NURS 61192
- NURS 60120 and NURS 61292
- NURS 60125 and NURS 61892
- NURS 60126 and NURS 61392
- NURS 60126 and NURS 61892
- NURS 60129 and NURS 61092
- NURS 60151 and NURS 61592
- NURS 60160 and NURS 61692
- NURS 60170 and NURS 61792

- NURS 60210 and NURS 62192
- NURS 60220 and NURS 62292
- NURS 60230 and NURS 62392
- NURS 60251 and NURS 63592
- NURS 60270 and NURS 62792
- NURS 60310 and NURS 63192
- NURS 60320 and NURS 63692
- NURS 60325 and NURS 63292
- NURS 60330 and NURS 63392
- NURS 60353 and NURS 64592
- NURS 60370 and NURS 63792
- NURS 60372 and NURS 63992
- NURS 60470 and NURS 64792
- NURS 62592
- NURS 66100 and NURS 66192
- NURS 66200 and NURS 66292
- NURS 66300 and NURS 66392
- NURS 66400 and NURS 66492

Certifying agencies and state licensing requirements for advanced practice registered nurses have time limits for critical courses. Courses completed outside of this time frame may need to be repeated prior to seeking national certification. Students are advised to check with certifying agencies and state licensing agencies upon admission to determine if the age of their prior courses will meet requirements.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Psychiatric Mental Health Nurse Practitioner - Graduate Certificate

College of Nursing
www.kent.edu/nursing

About This Program

The Psychiatric Mental Health Nurse Practitioner graduate certificate prepares nurses who have a graduate nursing degree the additional specialized knowledge for the psychiatric mental health nurse practitioner role. The certificate meets the educational requirements for the national certification examination.

Contact Information

- **Teresa Adams** | tadams27@kent.edu | 330-672-8761
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000-point scale
- Official transcript(s) of all previous graduate coursework[1]
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Curriculum vitae
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals *(starting with spring 2026 admission term, goal statement is no longer required)*
- Admission essay *is required starting with spring 2026 admission term* responding to the following questions (two pages, double spaced, 500 words):
  - How do you plan to contribute to the nursing profession and healthcare community after earning your M.S.N. degree?
  - How has your experience, professional development and service within the profession contributed to your readiness for graduate education?
  - What experience do you have working as a nurse caring for the underserved, high-risk or vulnerable populations?
- Syllabi of all courses to considered for transfer in the gap analysis
- Three professional letters of reference from healthcare professionals, either a supervisor and/or an advanced practice nurse who can speak to the applicant's professional capabilities
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet **specific exceptions to waive**) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 1
- **Spring Semester**
  - Priority deadline: October 1

- **Summer Term**
  - Priority deadline: March 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
NURS 60012	ADVANCED MENTAL HEALTH ASSESSMENT AND PSYCHOPATHOLOGY	4
NURS 60015	ADVANCED HEALTH ASSESSMENT [1]	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE [1]	3
NURS 60051	NEUROBIOLOGY AND PSYCHOPHARMACOLOGY OF MAJOR PSYCHIATRIC DISORDERS	4
NURS 60151	INDIVIDUAL PSYCHOTHERAPY	3
NURS 60251	FAMILY AND GROUP PSYCHOTHERAPY	3
NURS 60353	INDIVIDUAL, ORGANIZATION AND COMMUNITY CONSULTATION	3
NURS 60441	PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE [1]	3
NURS 61592	PRACTICUM I: INDIVIDUAL THERAPY	2
NURS 62592	PRACTICUM II: MEDICATION MANAGEMENT AND INDIVIDUAL THERAPY	2
NURS 63592	PRACTICUM III: FAMILY AND GROUP THERAPY	2
NURS 64592	PRACTICUM IV: NURSE PRACTITIONER ROLE	2
Minimum Total Credit Hours:		**34**

[1] This course may be waived or transferred if it was previously completed with a grade of B or better. Please refer to the Transfer of Graduate Credit Policy for more information.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Meet standards for advanced practice certification or other advanced professional distinction.
2. Demonstrate competencies based on professional standards to assume advanced roles in nursing and/or for leadership and career advancement, including doctoral study.
3. Communicate, integrate and apply advanced nursing knowledge and skills to provide equitable, evidence-based and inclusive nursing care and promote quality outcomes in nursing and health care.

Program Policies

Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.
3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Time Limit for Graduate Nursing Courses

Certain courses are critical to be completed within a timely manner for patient safety as well as student success in the program. This policy ensures that clinical skills and critical knowledge learned in specific courses taken three or more years ago are refreshed before moving to more advanced levels of practice.

Students who have stopped out of the clinical sequence of courses for a period of time must repeat the following practicum and corequisite lecture courses if they are three of more years old:

- NURS 60110 and NURS 61192
- NURS 60120 and NURS 61292
- NURS 60125 and NURS 61892
- NURS 60126 and NURS 61392
- NURS 60126 and NURS 61892
- NURS 60129 and NURS 61092
- NURS 60151 and NURS 61592
- NURS 60160 and NURS 61692
- NURS 60170 and NURS 61792
- NURS 60210 and NURS 62192
- NURS 60220 and NURS 62292
- NURS 60230 and NURS 62392
- NURS 60251 and NURS 63592
- NURS 60270 and NURS 62792
- NURS 60310 and NURS 63192
- NURS 60320 and NURS 63692
- NURS 60325 and NURS 63292
- NURS 60330 and NURS 63392
- NURS 60353 and NURS 64592
- NURS 60370 and NURS 63792
- NURS 60372 and NURS 63992
- NURS 60470 and NURS 64792
- NURS 62592
- NURS 66100 and NURS 66192
- NURS 66200 and NURS 66292
- NURS 66300 and NURS 66392
- NURS 66400 and NURS 66492

Certifying agencies and state licensing requirements for advanced practice registered nurses have time limits for critical courses. Courses completed outside of this time frame may need to be repeated prior to seeking national certification. Students are advised to check with certifying agencies and state licensing agencies upon admission to determine if the age of their prior courses will meet requirements.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Women's Health Nurse Practitioner - Graduate Certificate

College of Nursing
www.kent.edu/nursing

About This Program

The Women's Health Nurse Practitioner graduate certificate provides nurses who already have a graduate nursing degree with the additional specialized knowledge and clinical experience for the women's health nurse practitioner role. The certificate meets the educational requirements for national certification examination.

Contact Information

- **Teresa Adams** | tadams27@kent.edu | 330-672-8761
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000-point scale
- Official transcript(s) of all previous graduate coursework[1]
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Curriculum vitae
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals *(starting with spring 2026 admission term, goal statement is no longer required)*
- Admission essay *is required starting with spring 2026 admission term* responding to the following questions (two pages, double spaced, 500 words):
  - How do you plan to contribute to the nursing profession and healthcare community after earning your M.S.N. degree?
  - How has your experience, professional development and service within the profession contributed to your readiness for graduate education?
  - What experience do you have working as a nurse caring for the underserved, high-risk or vulnerable populations?
- Syllabi of all courses to considered for transfer in the gap analysis
- Three professional letters of reference from healthcare professionals, either a supervisor and/or an advanced practice nurse who can speak to the applicant's professional capabilities

- English language proficiency - all international students must provide proof of English language proficiency (unless they meet **specific exceptions to waive**) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 1
- **Spring Semester**
  - Priority deadline: October 1
- **Summer Term**
  - Priority deadline: March 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by these deadlines will receive the strongest consideration for admission.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
NURS 60015	ADVANCED HEALTH ASSESSMENT [1]	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE [1]	3
NURS 60441	PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE [1]	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 66100	WOMEN'S HEALTH NURSE PRACTITIONER I	3
NURS 66192	WOMEN'S HEALTH NURSE PRACTITIONER I PRACTICUM	2
NURS 66200	WOMEN'S HEALTH NURSE PRACTITIONER II	2
NURS 66292	WOMEN'S HEALTH NURSE PRACTITIONER II PRACTICUM	2
NURS 66300	WOMEN'S HEALTH NURSE PRACTITIONER III	3
NURS 66392	WOMEN'S HEALTH NURSE PRACTITIONER III PRACTICUM	2
NURS 66400	WOMEN'S HEALTH NURSE PRACTITIONER IV	2
NURS 66492	WOMEN'S HEALTH NURSE PRACTITIONER IV PRACTICUM	2
Minimum Total Credit Hours:		**30**

[1] This course may be waived or transferred if it was previously completed with a grade of B or better. Please refer to the Transfer of Graduate Credit Policy for more information.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

First Year			
	Fall Semester		**Credits**
!	NURS 60015	ADVANCED HEALTH ASSESSMENT	3
!	NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
!	NURS 60441	PHARMACOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
		Credit Hours	**9**
	Spring Semester		
!	NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
!	NURS 66100	WOMEN'S HEALTH NURSE PRACTITIONER I	3
!	NURS 66192	WOMEN'S HEALTH NURSE PRACTITIONER I PRACTICUM	2
		Credit Hours	**8**
	Summer Term		
!	NURS 66200	WOMEN'S HEALTH NURSE PRACTITIONER II	2
!	NURS 66292	WOMEN'S HEALTH NURSE PRACTITIONER II PRACTICUM	2
		Credit Hours	**4**
Second Year			
	Fall Semester		
!	NURS 66300	WOMEN'S HEALTH NURSE PRACTITIONER III	3
!	NURS 66392	WOMEN'S HEALTH NURSE PRACTITIONER III PRACTICUM	2
		Credit Hours	**5**
	Spring Semester		
!	NURS 66400	WOMEN'S HEALTH NURSE PRACTITIONER IV	2
!	NURS 66492	WOMEN'S HEALTH NURSE PRACTITIONER IV PRACTICUM	2
		Credit Hours	**4**
		Minimum Total Credit Hours:	**30**

Program Learning Outcomes

Graduates of this program will be able to:

1. Meet standards for advanced practice certification or other advanced professional distinction.
2. Demonstrate competencies based on professional standards to assume advanced roles in nursing and/or for leadership and career advancement, including doctoral study.

3. Communicate, integrate and apply advanced nursing knowledge and skills to provide equitable, evidence-based and inclusive nursing care and promote quality outcomes in nursing and health care.

Program Policies
Clinical Compliance Policy

This policy applies to all students enrolled in B.S.N., M.S.N., D.N.P. degree programs and postmaster's certificates. Students must provide documentation of the following items to a third-party vendor that is approved to track and maintain student health and other compliance documents. Students are responsible for all costs incurred in meeting the requirements for clinical compliance and for establishing and maintaining their third party account profile. Students in the B.S.N., M.S.N. and D.N.P. degree programs and College of Nursing post-master's certificates must be fully compliant with this policy prior to registering for their first practicum course.

Requirements

1. **Current American Heart Association Basic Life Support for Healthcare Provider certification in cardiopulmonary resuscitation (CPR) or American Red Cross CPR/AED.** Ph.D. students must have CPR certification within the first semester of enrollment.
2. **Background Check:** Students are required to submit federal and state criminal background checks and incur the related costs. International students must meet university policy for admission.
3. **Healthcare Insurance:** Students must provide proof of health insurance. Students can submit either (a) a copy of an insurance card with the student's name on the card or (b) a copy of the health insurance statement coverage that indicates that the student is covered.
4. **Immunizations/Immune Status Testing:** Evidence of the required immunizations/tests must be provided on the Immunization and Physical Compliance Form available from the Office of Student Services. The form must be completed, dated and signed by a licensed health care provider then uploaded to the third party vendor's portal.
5. **Physical examination**: A physical examination is required within one year prior to admission to a clinical site. For students admitted into the B.S.N., M.S.N. and D.N.P. degrees or post-master's certificates, the provider conducting the physical must indicate that the student can perform activities in the nursing student's clinical and practicum courses, or can do so with reasonable accommodations, and is free of all communicable diseases. Students should request accommodations from the Office Student Accessibility Services. Failure to obtain the physical examination or the provider assurance may prevent the university from placing the student in a clinical setting.

Students who have allergic reactions, medical waivers, refuse vaccinations or other physiological conditions that preclude them from receiving vaccinations are required to contact the Office of Student Services upon admission to their academic program. Such conditions may prevent students from completing clinical/practical coursework at some partner agencies which may result in a delay of graduation.

Registered Nurse (RN) Licensure

Students enrolled in the B.S.N. (Nursing for Registered Nurses major), M.S.N., and D.N.P. degrees or post-master's certificates must have an active, unrestricted RN license in either (1) the state of Ohio for students taking on-campus courses or who will be completing practica in Ohio or (2) the state of residence and practice for applicants residing and completing practicum outside Ohio. They must obtain proof of the appropriate licensure within the first semester of their program or before starting their practicum hours, whichever comes first.

Students in the Ph.D. degree must have an active unrestricted Ohio RN license—or for international students, proof of legal ability to practice as a RN in country of origin. They must show proof of license at the time of admission into the Ph.D. degree.

Time Limit for Graduate Nursing Courses

Certain courses are critical to be completed within a timely manner for patient safety as well as student success in the program. This policy ensures that clinical skills and critical knowledge learned in specific courses taken three or more years ago are refreshed before moving to more advanced levels of practice.

Students who have stopped out of the clinical sequence of courses for a period of time must repeat the following practicum and corequisite lecture courses if they are three of more years old:

- NURS 60110 and NURS 61192
- NURS 60120 and NURS 61292
- NURS 60125 and NURS 61892
- NURS 60126 and NURS 61392
- NURS 60126 and NURS 61892
- NURS 60129 and NURS 61092
- NURS 60151 and NURS 61592
- NURS 60160 and NURS 61692
- NURS 60170 and NURS 61792
- NURS 60210 and NURS 62192
- NURS 60220 and NURS 62292
- NURS 60230 and NURS 62392
- NURS 60251 and NURS 63592
- NURS 60270 and NURS 62792
- NURS 60310 and NURS 63192
- NURS 60320 and NURS 63692
- NURS 60325 and NURS 63292
- NURS 60330 and NURS 63392
- NURS 60353 and NURS 64592
- NURS 60370 and NURS 63792
- NURS 60372 and NURS 63992
- NURS 60470 and NURS 64792
- NURS 62592
- NURS 66100 and NURS 66192
- NURS 66200 and NURS 66292
- NURS 66300 and NURS 66392
- NURS 66400 and NURS 66492

Certifying agencies and state licensing requirements for advanced practice registered nurses have time limits for critical courses. Courses completed outside of this time frame may need to be repeated prior to seeking national certification. Students are advised to check with certifying agencies and state licensing agencies upon admission to determine if the age of their prior courses will meet requirements.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

College of Podiatric Medicine

College of Podiatric Medicine
6000 Rockside Woods Blvd.
Independence
216-231-3300 or 800-238-7903
podiatry@kent.edu
www.kent.edu/cpm

Mission of the College

The mission of Kent State University College of Podiatric Medicine is to educate students who will become a distinguished group of leaders in the field of podiatric medicine and surgery, be life-long learners, excel in residency, and provide compassionate care to all patients.

Graduate Programs

- Podiatric Medicine - D.P. M.

Policies

Academic Dismissals

The following will lead to academic dismissal:

1. Two or more failures (in any combination of courses or rotations) in one academic level during the same academic year. Academic level is defined as 801xx, 802xx, 803xx and 804xx/805xx courses and rotations. Also, additional or multiple failures (in any combination of courses or rotations) while on academic probation or with outstanding failures on the student's record, regardless of the academic year or academic level, will result in academic dismissal.
   a. Students in their first year will be academically dismissed for multiple 801xx failures (courses or rotation) within the same academic year.
   b. Students in their second year will be dismissed for multiple 802xx failures (courses or rotations) within the same academic year.
   c. Students in their third year will be academically dismissed for 803xx failures (courses or rotations) within the same academic year, or for multiple outstanding 803xx failures (courses or rotations) across multiple academic years.
   d. Students in their fourth year will be academically dismissed for multiple outstanding 804xx failures (courses or rotations) across multiple academic years.
2. A failure in a course or clinical rotation (including remedial) during a semester in which the student is on academic probation and/or with a failure still outstanding on their academic record.
3. An overall GPA below 2.400 at the end of the spring semester of the student's second year.
4. Three failures on APMLE Part I.
5. Failure on the Objective Structured Clinical Examination (OCSE) in combination with one or more failures in any other 803xx rotation or course.
6. Failure on the Objective Structured Clinical Examination (OCSE) combined with a failure on the Objective Structured Clinical Examination (OSCE) remediation.
7. Failure on the second attempt on the Objective Structured Clinical Examination (OCSE) for students who were dismissed for failing the first attempt along with any additional 803xx failure (course or rotation) and were reinstated to repeat all 803xx rotations and any outstanding failures on their record.
8. Failure on the third attempt on the Objective Structured Clinical Examination (OCSE) for students who were dismissed for failing the first attempt and the remedial attempt and were reinstated and required to repeat all 803xx rotations.
9. Failure in a remedial course or rotation.

Outstanding failures are defined as courses or rotations that have not been successfully remediated or repeated with a grade of C or better (or a grade of S for S/U courses or rotations).

Students without a previous dismissal on their record are eligible to apply for reinstatement.

The following students are not eligible for readmission or reinstatement:

1. Students with two dismissals, academic or non-academic, on their record.
2. Students who have taken and failed APMLE Part I three or more times without passing.

Students seeking reinstatement who will not be able to complete the program in six academic years must receive an exception from the Council on Podiatric Medical Education in order to be considered for readmission or reinstatement.

Academic Probation

Students readmitted or reinstated with failures on their transcript are placed on academic probation until all failures are successfully repeated or remediated with a minimum C or S grade. In addition, students with any outstanding failures on their record will be placed on academic probation. The academic probation status will be noted on the student's record, including the official transcript. Any failure while on probation will result in academic dismissal.

Reinstatement

Students seeking reinstatement to the college must contact the Office of Academic Operations and Institutional Research. Any student who has been dismissed two times from the college, academically or for non-academic reasons, is ineligible for reinstatement consideration at any time.

Students meeting one of the following are not eligible for reinstatement consideration until **one year** from the date of dismissal:

1. Students who have been officially dismissed from the college for academic reasons who have not been offered reinstatement by the Academic Readmission / Reinstatement Committee.
2. Students who have been dismissed for any reason other than academics.

Students who have been previously academically dismissed and are seeking reinstatement to the program will have their request considered by the Academic Readmission / Reinstatement Committee. The decision of the committee for these students is final.

Students applying for reinstatement who have been previously dismissed for reasons other than academics will have their request considered by the college dean. The decision of the dean for these students is final.

Students readmitted or reinstated with failures on their transcript are:

1. Placed on academic probation with a notation being made on their transcript.
2. On academic probation until any failures have been resolved with a minimum C or S grade.
3. Subject to academic dismissal if any course or rotation is failed while on academic probation.

Academic Readmission and Reinstatement Committee

The Academic Readmission / Reinstatement Committee meets with eligible students who are reapplying to the program.

Students required to appear before the committee include those who have been academically dismissed and students who had previously withdrawn from the program with failing grades (U, F, WF, SF, or NF) on their transcript.

In all matters, the committee reviews the student's application for readmission / reinstatement and ultimately renders a decision concerning the student's ability to successfully complete the podiatric medicine program.

Membership of the Academic Readmission Committee is as follows:

Voting members

- College of Podiatric Medicine faculty (with four faculty members present for each readmission hearing)
- Academic associate dean of academic affairs (or designee)

Non-voting members

- Director of academic operations and institutional research (or designee)
- Director of educational resources (or designee)

Hearing Procedure

- Request
  - A written request from the student is submitted to the Office of Academic Operations and Institutional Research and shall include a statement of facts summarizing the basis for the appearance. Such requests must be submitted by the deadline specified.
- Preparation for Hearing
  - A written notice of the date, time and place of the hearing will be given to the committee members and the student requesting the hearing.
  - At the scheduled meeting, all committee members will be presented with a copy of any written statements prepared by the student and access to the student's academic file.
- Hearing
  - The student must be present at the requested hearing and may make an oral and/or written presentation to the committee.
  - Attorney or legal counsel for any parties involved may be present in the room during a hearing, but may not participate directly in the hearing. The legal counsel may only advise his/her client. The office of academic services and institutional research must be notified at the time of the request for an appeal if the student intends on having legal counsel present at the hearing.
  - Letters in support of the student must be submitted in advance of the hearing.
  - The student (and legal counsel) is excused from the room prior to deliberation.
  - The committee shall deliberate and formulate a decision in the absence of the involved parties. Votes shall be by anonymous ballot. There are two decision options:
    - Offer the student readmission to the program or
    - Deny the student readmission to the program.
  - The committee's decision is final.
  - Students who are denied readmission or reinstatement are not eligible to appear before the committee again until:
    - One year from the date of the most recent reinstatement hearing for students who were academically dismissed.
    - A minimum of five months from the date of the most recent readmission hearing for students who withdrew with failing grades (WF, F, NF, SF, or U).

(Students who are denied readmission or reinstatement may request that the above time periods for a reinstatement/readmission hearing be waived due to extreme circumstances or to present new information not previously available to the committee. Students wishing to be considered for an early hearing must submit the request in writing along with all relevant supporting documentation to the Office of Academic Operations and Institutional Research. *These requests will be reviewed by the Academic Readmission and Reinstatement Committee who will then make a decision to approve or deny the granting of an early hearing. This process will include only a committee review of the submitted written documentation. The student will not make an appearance and will not be permitted to present information, verbally or in writing, outside of what is officially submitted for review. Should an early hearing be granted, the process will follow the Hearing Procedure as detailed above. A granting of an early appearance is not a guarantee of being readmitted or reinstated by the committee. Should the committee vote to deny that an early hearing be granted, the original eligibility timelines listed above remain in effect. The decision of the committee to grant or deny an early appearance is final.)*

Privacy of Records and Hearing

- The committee will act in compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA) regarding the information of a student's record.
- All proceedings of a hearing are confidential. No member of the committee shall disclose any of the subject matter or discuss these matters with anyone except members of the committee.

Academic Performance and Student Organizations

The College of Podiatric Medicine offers a number of student organizations, fraternities and sports clubs to serve the student population. Student organizations, fraternities and clubs are subject to college policies. The Office of Student Affairs has the right to review

and revoke the privilege to continue as a recognized chapter of any organization or fraternity. A full listing of organizations is available on the College of Podiatric Medicine website.

Each organization, fraternity or club has elected positions in which members of the College of Podiatric Medicine student body may hold office. In order for students to participate and hold office in any position — including, but not limited to, president, vice president, secretary, treasurer, director of clinical affairs, race coordinator, delegate — they must be in good academic standing. Specifically, students must have a minimum 2.500 overall GPA with no academic failures to run and/or hold an elected position within any organization, fraternity or club. In addition, students must pass boards on their first attempt.

Academic records will be checked fall and spring semesters and after boards results are posted. Students who fall below the academic minimums or fail to pass boards on their first attempt will be removed from their position within a particular club, organization or fraternity so that they may focus on academic and/or boards performance.

In addition, students who receive two or more professionalism deficiencies will be removed from any position within a particular club, organization or fraternity.

The college's Office of Student Affairs will send a formal notification to those students who fail to meet the minimum requirements to hold office.

American Podiatric Medical Licensing Examination (APMLE)

All podiatric residency programs require passage of APMLE Part I and Part II — written examination and the Clinical Skills Patient Encounter (CSPE) examination (if available) — prior to the beginning of the residency.

Eligible students are required to take the APMLE Part I and both portions of Part II — written examination and the Clinical Skills Patient Encounter (CSPE) examination (if available) — the first time the examinations are offered, and every subsequent time as necessary.

Students who do not take APMLE Part I the first time offered automatically will be placed into Pathway I. Students who fail APMLE Part I on the first attempt and do not take the examination the second time offered automatically will be placed into Pathway II. Students missing a required administration of APMLE Part I still will be given the opportunity to take the examinations three times before being subject to dismissal from the program. Students who do not take the examination the first time that it is offered, and every subsequent time as necessary, will be subject to a professionalism deficiency evaluation.

Students who do not take both portions of Part II — written examination and the Clinical Skills Patient Encounter (CSPE) examination — the first time the examinations are offered, and every subsequent time as necessary, will be subject to a professionalism deficiency evaluation.

Students who do not pass APMLE Part I will not be eligible to take Part II. Those students will be under the college's Board Part I Failure Policy (see below).

College of Podiatric Medicine Board Part 1 Failure Policy

Students who fail APMLE Part I on their first attempt will be placed into Pathway I and will continue with third-year classes. For August and September, students will be removed from clinic and enrolled in PCS 80001 to prepare for the required retake in October. Pathway I students will continue in their non-rotation courses.

Pathway I students will return to clinic beginning with their October clinical rotation. Students will only be excused from clinic the day of the October APMLE Part I reexamination. Students will be required to attend all other days for the October rotation, including the first day of the rotation.

1. **Pathway I – Passage:** Students who pass the October APMLE Part I retake examination will continue in classes through March and clinic through April. In May and June, these students will complete the CLI 803xx clinical rotations that were missed in August and September. Beginning with the July rotation, these students will begin CLI 804xx clinical rotations. These students will lose one optional clerkship elective month and will be required to complete a CLI 804xx rotation in April of their fourth-year summer semester. Please note, this schedule is contingent on a student not having to remediate a third-year course or rotation. Students who are required to remediate a third-year course or rotation will follow the schedule detailed in the remediation policy. Pathway I students making up a clinical rotation for reasons other than failure will be required to complete the rotation in July before beginning 804xx clinical rotations in August.
2. **Pathway II – Failure of Second Attempt:** Students who fail the October APMLE Part I retake exam will continue in all classes and clinic rotations as originally scheduled. Beginning in April, along with their scheduled clinic rotations and other academic requirements, students also will be enrolled in PCS 80002 to prepare for the required APMLE Part I July retake examination. In July, Pathway II students will sit for the APMLE-1 retake examination. Students who fail the July retake examination will be dismissed from the college and will be ineligible for reinstatement consideration at any time. Students who pass APMLE Part I on the third attempt will continue with their regularly scheduled courses and rotations.

All students, currently or previously enrolled, are subject to the policy on the maximum three attempts for APMLE Part I.

Non-enrolled students who have taken APMLE Part I three times without passing are not eligible for consideration of readmission or reinstatement regardless of whether or not the examination was passed on subsequent attempts.

Non-enrolled students are not eligible for sponsorship by the College of Podiatric Medicine to sit for the APMLE Part I examination regardless of previous number of attempts.

Attendance

Classroom and Laboratory Attendance

Attendance is expected of all students; and the course coordinator may require, at their discretion, compulsory attendance in a course. This includes any or all laboratory sessions, lectures or demonstrations. When the instructor does not state attendance as a compulsory requirement, students remain responsible for all material covered in that course, including all examinations, quizzes and projects. A student's eligibility to complete make-up work is at the discretion of the course instructor.

Mandatory in-person attendance is required at all scheduled examinations and assessments.

Clinic Attendance

Attendance is mandatory at all scheduled college-approved internal/external clinical rotations and clerkship programs. Absences must be excused by the rotation coordinator or clerkship director.

Clinical make-up days may not be completed during regularly scheduled course lectures, labs or assessments.

Students missing clinic without prior approval must contact the Academic Support staff by email at cpmas@kent.edu, with the rotation coordinator copied, no later than 8:00 a.m. on the day of absence.

- Students are required to complete one make-up day for each excused clinic day missed.
- Students are required to complete three make-up days for each unexcused clinic day missed.

Students requesting that an absence be excused are required to submit relevant documentation at the time of the request (advance requests) or prior to their return to clinic (absences due to emergencies (including family emergencies) or illness). A doctor's note is required for illness-related absences. If documentation is not provided, the absence will be considered unexcused.

Days missed to illness, or for any other reason, without supporting documentation will be considered unexcused. The decision to approve or deny a request for an excused absence is at the discretion of the rotation's coordinator or clerkship director.

Students requesting an excused absence ahead of time should contact the rotation coordinator or clerkship director at least two weeks before the clinical absence. Students are responsible for contacting the rotation coordinator for any unplanned absences and for making days up one day in advance.

Make-up days will be assigned to students with the following deadlines in mind:

- Make-up days for CLI 803xx-level rotations must be completed no later than the end of April of the third-year summer term or before the start of CLI 804xx rotations. The date and time of the make-up days will be assigned. Students are not permitted to progress to any 804xx-level rotations or courses with an incomplete mark, failing grade or outstanding make-up days for any 803xx-level rotations or courses.
- The dates and locations for CLI 804xx make-up days will be assigned.

Personal Days

Third-year students will be allowed the opportunity to have two personal days off per academic rotation year (not per rotation month) during their third-year KSUCPM clinical rotations. These personal days may be used for residency visitations or significant personal events with proof of attendance. Please note, personal days may only be taken during CLI 803xx rotations.

Two personal days may not be used in succession for third-year rotations.

A personal day is one calendar day. Splitting into half days is not permitted.

Personal days may not be used during:

- Third-year Simulated Patient I (80380)
- Third-year Surgical Skills and Simulated Patients II (80316)
- Third-year Foot and Ankle Surgery I and II (80312, 80313)
- Third-year Wound Care
- Primary Care VA
- Month of December
- First and/or last day of rotation
- Day before or day of an exam
- Day before and after holiday weekends
- Day before Board/Retake Board Exams
- Mandatory Clinical Orientation Day
- Examination days

Two-week advanced clinical absence request must be submitted to rotation coordinator and cpmas@kent.edu.

Students are NOT granted personal days for any situation that gives an unfair advantage or luxury to one student in comparison to other students in any of the third-year rotations.

Personal day(s) may be used for sick day(s) with a doctor's note. (Additional sick days will be treated under current attendance policy) (Students will be responsible for the materials missed with any absence)

The rotation coordinator may limit the number of student requests if multiple requests are submitted for the same day.

APMLE Part II and Centralized Residency Interview Program (CRIP)

The APMLE Part II examination and CRIP (and additional residency interviews) affect clinical attendance requirements in the following ways:

- All students are required to report to their January clinical location on the first day.
- Students are given time off only on the day of APMLE Part II and are required to report to clinic the day before and the day after the exam.
- For CRIP and residency interviews outside of CRIP, students are required to provide to their clinical site travel documentation and interview schedule in advance of the days missed. Only days in which a student has interviews scheduled or is traveling will be excused.

All of the above applies to clerkships, senior medicine rotations and program core rotations at the college's clinics or at external locations.

Clinical Attendance for Rotations at External Facilities

External rotations follow the schedule of the facility, not the college. This includes closures due for any reason, including closures for inclement weather, holidays and class breaks.

When rotating at an external facility as part of any rotation, if the external clinical site remains open even though the college is closed (holidays, inclement weather, etc.), students are required to report to clinic as scheduled.

External rotations are those that are held at outside facilities in which students rotate for a variety of third- and fourth-year clinical rotations. These rotations include, but are not limited to, third-year and fourth-year Department of Veteran Affairs rotations, clerkships, senior medicine, foot and ankle surgery and wound care. Students may also be scheduled at

external sites during any other rotation at the Cleveland Foot and Ankle Clinic.

Clinical schedules at external facilities may include evenings, weekends, holidays and other days when the university or Independence location is closed. If the university or Independence location is closed for any reason, you must report to the external experience as their schedule dictates.

Clinical Attendance for Pathway I Students: APMLE Pathway I students will only be excused from clinic the day of the October APMLE Part I reexamination. Students will be required to attend all other days for the October rotation, including the first day.

Clinical Attendance for Pathway II Students: APMLE Pathway II students only will be excused from clinic the day of the July APMLE Part I reexamination. Students will be required to attend all other days for the July rotation at the discretion of the rotation coordinator.

Academic Presence Verification

In compliance with federal regulations, all course and rotation coordinators are required to verify student academic presence for every student in the university-determined reporting system. The method of how academic presence (i.e., participation in the course) is verified is at the sole discretion of each coordinator and may differ from course to course or rotation to rotation. The meeting of academic presence requirements as determined by the coordinator is mandatory for all students.

Students who do not meet academic presence verification requirements:

- will receive a professionalism deficiency;
- will receive an NF (Never Attended–Fail) or SF (Stopped Attending–Fail) mark for each course in which the requirement was not met; and
- may lose their federal financial aid for that particular term.

Background Checks and Drug Testing

Mandatory Background Checks

Incoming students are required to complete a background check prior to matriculation (dates and deadline to be assigned).

Current students are required to complete FBI and Ohio Bureau of Criminal Investigation (BCI) background checks at the following schedule:

- February of the second-year spring semester (date to be assigned)
- February of the third-year spring semester (date to be assigned)

Background check reports will be made available electronically to the College of Podiatric Medicine.

Students and applicants have the right to review the information reported by the designated company for accuracy and completeness and to request that the designated company verify that the background information provided is correct. Prior to making a final determination that will adversely affect the applicant or student, the college will provide the applicant or student the opportunity to address any issues or discrepancies found in the report.

If an FBI or BCI background check comes back with a discrepancy or the statement, "may not meet employment conditions," the student is required to provide the Office of Academic Operations and Institutional Research with a detailed summary report. Discrepancies in background check reports are subject to review by the college dean and could result in a student's dismissal or rescission of admission offer from the College of Podiatric Medicine.

Please note, some clinical programs may require specific background checks and/or additional documentation.

Drug Testing

Incoming students are required to complete a drug test prior to matriculation (dates and deadline to be determined by the Office of Academic Operations and Institutional Research).

Current students are required to complete a drug test prior to the beginning of the third-year fall semester (dates and deadline to be assigned).

Drug test results are subject to review by the College of Podiatric Medicine. Positive drug screens will be cause for review by the dean on a case-by-case basis and could result in a student's dismissal or rescission of admission offer from the College of Podiatric Medicine.

Please note, additional drug tests may be required in the event of a positive result, a negative dilute or if required by a program for the completion of a clinical rotation.

Cheating and Academic Dishonesty

Students found responsible for cheating or academic dishonesty in any form on any examination, quiz, assignment or on anything related to the College of Podiatric Medicine curriculum will automatically be given a failing grade (0.000, F grade) for that specific academic item. This will also result in disciplinary actions to be taken, including possible dismissal from the program.

Clerkship and Senior Medicine Rotations

Information on clerkship and senior medicine rotations, including the selection process, can be obtained by contacting the college's Office of Academic Operations and Institutional Research.

Clerkships

Clerkships are mandatory rotations that students schedule through AACPM's Doctor of Podiatric Medicine Clerkship website in the months that are allotted. There are seven months scheduled that are strictly for clerkship rotations. Of these seven months, students are required to complete six months of clerkship rotations. If eligible, students may choose to take one of the seven months allotted for a clerkship as an elective month. If students decide to take this elective by not filling the month with a clerkship, they will have no clinical responsibility for the month, though they may visit programs or complete clinical make-up days if they wish. *Note: Clerkship rotations or an elective month off cannot be scheduled during any month in which a core rotation is scheduled.*

Senior Medicine

The date of the selection of senior medicine rotations will be determined by the Office of Academic Operations and Institutional Research. A list of available rotation spots will be sent to each group along with a deadline for student selections. If an agreement on senior medicine selections within a student group cannot be reached by the group members, the final determination will be made by random selection by a representative of the Office of Academic Operations and Institutional Research.

Senior medicine rotations may include out-of-state locations and facilities not within the immediate area of the college. The Office of Academic Operations and Institutional Research and the college

administration will determine which locations will be considered mandatory (i.e., all spots available at those locations will be required to be filled by students in each group). An approved list of senior medicine options will be distributed to each of the groups with a deadline for the finalization of selections.

The number of spots for each senior medicine rotation is limited within each group. The number of available spots at each location is determined by numerous factors, including facility preference and availability and the number of students in that particular group.

Students wishing to complete their senior medicine rotation at a location not on the college's approved list will be given the opportunity to submit a request with the names of the facility and doctors and a narrative rationale as to how this experience will meet the requirements of the rotation and benefit the student academically. After review, the Office of Academic Operations and Institutional Research and the college administration will either approve or deny the request. This decision is final. The deadline for submitting a request to complete the senior rotation medicine at a location not on the approved list will be determined by the Office of Academic Operations and Institutional Research. No request will be considered after this deadline.

Completion of Clerkship and Senior Medicine Rotations

Once a student selects a clerkship or a senior medicine rotation, the student is required to attend that specific rotation for the month chosen. Schedule changes, including dropping rotations or switching months, are not permitted. Students who do not attend a scheduled rotation will be required to make up the rotation in April of the student's fourth year (location and specifics of make-up rotations will be assigned). Students will also receive a professionalism deficiency evaluation. This applies to all senior medicine and clerkship rotations, including private practice office rotations.

In rare cases, schedule changes or rotation exceptions may be permitted provided that the student can demonstrate extreme and unforeseen circumstances that will prevent the completion of a particular rotation. Students who wish to be considered for this type of schedule change must submit the request in writing along with supporting documentation to the Office of Academic Operations and Institutional Research before reaching out to other locations and facilities. If the request is denied, the student will be required to attend the rotation as scheduled.

Feedback and Surveys

At the conclusion of each clerkship and senior medicine rotation, students will receive a link via e-mail to a rotation feedback survey. The completion of the rotation feedback survey for each rotation by the deadline given is mandatory. Students who miss the deadline will be subject to a professionalism deficiency evaluation.

Patient Logs

Students are required to submit in Typhon a patient log for every patient encounter experienced (observed, assisted or performed) during each clerkship and senior medicine rotation. Patient logs for each rotation must be completed and entered into Typhon by 8:00 a.m. on the Monday following the conclusion of the rotation. Failure to meet this deadline will result in a professionalism deficiency evaluation and possible failure on the rotation. For further information on what types of encounters are required to be logged during a particular clinical rotation, students should contact the coordinator for that specific rotation.

Cleveland Foot and Ankle Clinic (CFAC) Shadowing

Students should contact the Office of Academic Operations and Institutional Research for assistance regarding shadowing opportunities in the Cleveland Foot and Ankle Clinic (CFAC).

All students are required to shadow in one or both of the CFAC during their first and second year in the program. A schedule will be distributed to all students at the beginning of the academic year or will be listed in the syllabus of a course requiring the shadowing experience. These shadowing experiences are considered mandatory. If this requirement is not met and all scheduled sessions not attended, the student will be subject to academic and disciplinary actions.

In addition to the required CFAC shadowing, students in all years are encouraged to visit clinical programs when they can find the free time in their schedules to do so.

If visiting a program outside of an assigned (registered for college credit) clinical rotation that will consist of hands-on experiences rather than just observational, students must notify the Office of Academic Operations and Institutional Research prior to the hands-on experience taking place, or immediately following.

Clinical Affiliation Agreements

For external clinical rotations completed during the third and fourth year, the college has executed affiliation agreements with facilities where students rotate. Students are subject to the requirements listed in these agreements for any approved rotation. Student visitations are observation only and not for college credit, and therefore, not considered approved rotations.

A list of all facilities with which the college has a current affiliation agreement is available by contacting the Office of Academic Operations and Institutional Research. Affiliation agreement status is subject to change at any time.

Students may review, in person only, the affiliation agreement for any facility in which they will be completing an external clinical rotation. To do so, please contact the Office of Academic Operations and Institutional Research.

College and Clinical Incident Reporting

A college and clinical incident report needs to be completed when any of the following occurs:

- A student or faculty member is involved in an accident, is injured or becomes ill at a clinical site.
- A hospital incident report is completed that involves a student or faculty member.
- A student or faculty member is involved in an accident, is injured or becomes ill at any College of Podiatric Medicine academic laboratory.

The college and clinical incident report must be completed by the student and/or faculty member involved in an accident or injury occurring at a clinical site on the day the incident occurs. The student and/or faculty member involved will follow the policy and protocols at the site in which the incident occurred and pay any expenses incurred from the incident. Kent State University and the College of Podiatric Medicine are not responsible for payment or reimbursement.

The college and clinical incident report must be sent within 24 hours of the incident to the Public Safety Manager. All completed college and clinical incident reports will be sent to and stored in the Office of the Assistant Dean of Clinical Education and Research, the Office of Compliance and Risk Management and the online reporting system.

Clinical Rotations

For all clinical rotations, students are randomly assigned to a group. This assignment determines the specific clinical schedule for each student, including the monthly order in which students complete each rotation. Requesting a specific group or schedule or switching groups once assigned is not permitted.

The policy and procedures for clinical education are in place to assure quality care and education. Students must conform to these policies and procedures to ensure that educational outcomes are met and quality patient care is delivered.

No student may proceed to any fourth-year rotation without having first completing all prior courses and clinical rotations. A student may not continue onto fourth-year courses or rotations with a failure or grade or incomplete in any third-year course or clinical rotation.

Students are only permitted to be registered for one clinical rotation per month. Students are not permitted to complete a remedial course or rotation during the same month as a scheduled course or clinical rotation.

Clinical Remediation and Make-up Months

All fourth-year remedial rotations will take place at an assigned location starting in April in the fourth-year summer semester without exception. The dates of the rotation will be based on the AACPM national clerkship calendar.

Make-up rotations for non-academic reasons (e.g., leave of absence) will take place in April at an assigned location during the fourth-year summer semester. The dates of the rotation will be based on the AACPM national clerkship calendar.

The location of a remedial or make-up rotation will be assigned to the student by the Office of Academic Operations and Institutional Research

Clinic Rotation Groups and Schedule

Students will be randomly assigned into groups twice – once for third-year clinical rotations and once for fourth-year clinical rotations. Switching of groups and/or rotation months is not permitted.

Patient Logs

Students are required to submit in Typhon a patient log for every patient encounter experienced (observed, assisted or performed) for every clinical rotation (external and core rotations). Patient logs for each rotation must be completed and entered into Typhon by 8:00 a.m. on the Monday following the conclusion of the rotation. Failure to meet this deadline will result in a professionalism deficiency and possibly failure on the rotation.

For further information on what types of encounters are required to be logged during a particular clinical rotation, students should contact the rotation's coordinator or the Office of Academic Operations and Institutional Research

Course Exemptions

To be considered for a course exemption, students must file a request by contacting the Office of Enrollment Management and Student Affairs. The request will be considered by the college's senior associate dean and the appropriate division head. Requests for a course exemption are handled on a case-by-case basis, and the college's decision is final. Student requests for course exemptions will only be considered prior to matriculation.

Eligibility for Doctor of Podiatric Medicine Degree

All candidates for the Doctor of Podiatric Medicine degree must have achieved the following:

1. Maintained satisfactory academic performance with no grade below a C, no Unsatisfactory (U) grade and no Incomplete (IN) marks;
2. Demonstrated clinical competence through completion of the performance objectives;
3. Been verified as being in good disciplinary standing;
4. Satisfactorily completed all academic requirements, including clinical rotations and externship/clerkship program requirements, with a minimum C grade or Satisfactory (S) grade on all courses and rotations;
5. Satisfactorily passed the Objective Structured Clinical Examination (OSCE);
6. Fulfilled all responsibilities and financial obligations to the college and to the university; and
7. Taken and passed the American Podiatric Medical Licensing Examination (APMLE), Part I, taken both sections of Part II (written examination and the Clinical Skills Encounter – CSPE examination) and released the score reports to the college.

To be eligible for graduation in May, candidates must have met all of the above requirements by the end of the fourth-year summer semester. Attendance at the graduation ceremony is required.

All students must successfully complete the graduation requirements in no more than six academic years. Exceptions for students with extenuating circumstances must have the approval of the Council on Podiatric Medical Education.

Essential Requirements for Student Education

Kent State University College of Podiatric Medicine is committed to the admission and advancement of all qualified students. College policy prohibits discrimination against anyone solely based on race, sexual orientation, gender, Veteran status, color, national origin, religion, age, handicap or disability.

The faculty and administration have adopted the following technical standards and essential requirements that must be met by all students for progression and graduation. These technical standards expected of students seeking the degree of Doctor of Podiatric Medicine reflect the college's highest commitment to the safety of its students and patients, and recognize the essential functions of the profession of podiatric medicine.

The following standards and requirements describe the academic abilities and non-academic qualifications that are essential to the

program of instruction, are directly related to the licensing requirements, and are directly related to those physical abilities, mental abilities, skills, attitudes and behaviors that students must demonstrate or perform at each stage of their education to ultimately ensure patient safety.

Technical Standards and Essential Requirements for Student Education at Kent State University College of Podiatric Medicine

Visual Observation and Integration

Candidates and students must be able to observe demonstrations, video materials, slides through a microscope and computer screens. They must acquire information from written documents, radiographs, photographs, charts and diagrams. They must be able to observe a patient accurately close at hand and at a distance to assess asymmetry, range of motion and tissue/texture changes.

Communication

Candidates and students must be able to communicate effectively in oral and written formats, and in settings where time span is limited. This includes communication in classroom, clinical and laboratory settings. Candidates must be able to accurately elicit information in a timely and efficient manner. Candidates must be able to describe a patient's condition to the patient and to others in the diagnosis and treatment process.

Other Sensory Capacities

Students must independently be able to take an oral history, do stethoscopy and communicate while wearing a surgical mask. Students must also have sufficient somatosensory capacity to palpate pulses, use a tuning fork and assess skin temperature.

Motor Functions

Candidates and students must have sufficient motor function to undertake classes, laboratories and demonstrations, to provide general patient care as well as emergency treatment to patients. This includes cadaver dissection, microscopy, aseptic technique and safe handling of microbiological specimens. Also included is the motor capacity for chart and prescription writing, palpation, percussion, auscultation and other diagnostic maneuvers. All of these tasks must be done in a timely and efficient manner within prescribed time limitations relative to the context of a practicing physician. Examples of common daily treatments include, but are not limited to, palliative care of foot and ankle problems, injections, orthotic impressions, taking and processing of pedal radiographs, and performance of soft tissue and osseous tissue surgical procedures. Examples of emergency treatments include CPR, administration of intravenous medications, the opening of obstructed airways, and hemostasis techniques.

Intellectual, Conceptual, Quantitative and Integrative Abilities

Candidates must have sufficient cognitive abilities and effective learning techniques to assimilate the detailed and complex information presented in the medical student curriculum. Candidates must engage in critical thinking and problem solving. They must be able to learn through a variety of modalities including, but not limited to, classroom and lab instruction and exams; small group, team and collaborative activities; individual study; preparation and presentation of reports and use of computer technology. Candidates must be able to consistently, quickly and accurately measure, calculate, interpret, reason, memorize, analyze, synthesize and transmit information across modalities. Candidates must be able to demonstrate these skills and procedures under pressure and in a timely fashion across a range of conditions and time frames. They must be able to recognize and draw conclusions about three-dimensional spatial relationships and logical sequential relationships among events. These skills and abilities are fully defined by the faculty and explained in course syllabi.

Behavioral and Social Attributes

Candidates must demonstrate the maturity and emotional stability required for full use of their intellectual abilities. They must accept responsibility for learning, exercising good judgement and promptly completing all responsibilities attendant to the diagnosis and care of patients. They must understand the legal and ethical aspects of the practice of medicine and function within both the law and ethical standards of the medical profession. Candidates must be able to work effectively, respectfully and professionally as part of the healthcare team and to interact with patients, their families and health care personnel in a courteous, professional and respectful manner. They must be able to tolerate physically taxing workloads and long work hours, to function effectively under stress and to display flexibility and adaptability to changing environments.

Candidates must be able to work effectively, respectfully and professionally with faculty, staff and student colleagues. They must be capable of regular, reliable and punctual attendance at classes and in regard to their clinical responsibilities. Candidates must be able to contribute to collaborative, constructive learning environments; accept constructive feedback from others; and take personal responsibility for making appropriate positive changes.

Involvement in Invasive and Exposure-prone Procedures

Candidates and students must be qualified to be personally and actively involved in invasive and exposure-prone procedures without being a danger to patients, other health care professionals or fellow students, faculty and staff. They must demonstrate adherence to the universal precautions as defined by the Center for Disease Control. As part of the technical standards and essential requirements to matriculate at the college, the following statement shall apply: If the student is HIV seropositive, the student may be restricted by the State Medical Board of Ohio from performing procedures required for graduation. If the student is HBV and/or HCV positive and does not demonstrate noninfectivity, the student may be restricted by the State Medical Board of Ohio from performing procedures required for graduation. Any questions regarding these requirements should be directed to the senior associate dean.

Examination Policy

1. No books, papers, notes, calculators, cell phones, watches, tablets and similar electronic devices, pens, pencils, markers, food, drink, backpacks or any other personal items are permitted in the room during an examination. Hats and outerwear (coats) are not permitted. Clothing or accessories that interfere with the proctor's full view of the student's eyes are not permitted. Any clothing layers that are removed before or after the examination begins must be given to the proctors to be placed in the front of the room until the completion of the examination.
2. The use of cell phones or any other forms of electronic communication during any examination is strictly forbidden. No electronic communication devices are permitted in the room.
3. Students are expected to be waiting outside of the classroom 15 minutes prior to the start of the examination, but cannot enter the room until the academic support staff or proctors give permission.
4. Students arriving late to the examination, not to exceed 30 minutes, must receive permission from the course coordinator (or designee) to

start the examination late. No student, even those approved to begin late, will be given extra time to complete an examination.

5. Students will not be permitted to leave the classroom less than 30 minutes following the start of an examination.
6. Students arriving 30 minutes or more after the scheduled start of an examination will automatically receive a score of 0.00 points for the exam, unless they can demonstrate that they have a valid reason to receive an excused absence from the course coordinator.
7. Students arriving late for a laboratory exam must receive permission from the course coordinator (or designee) to take the examination. No student, even those approved to begin the laboratory examination late, will be given extra time to answer questions.
8. For students not on an approved leave of absence, only the course coordinator can grant an excused absence for an examination (didactic, lab, clinical). Supporting documentation must be submitted when requesting an excused absence.
9. Students who miss an examination receive 0.00 points. Students are responsible for contacting the course coordinator within 24 hours of the administration of the examination to request an excused absence. The course coordinator's decision is final.
10. Failure of a student to secure an excused absence or to make up all approved eligible assessments, assignments, and examinations by the assigned deadlines will result in 0.00 points.
11. Students are responsible for checking the accuracy of all posted scores within seven calendar days of posting or receipt. No challenge will be considered or adjustments made after that period.
12. Students found responsible for cheating or academic dishonesty in any form on any examination, quiz, assignment, or on anything related to the College of Podiatric Medicine curriculum will automatically be given a failing grade (0.000 points, F grade) for that specific academic item. This will also result in disciplinary actions to be taken, including possible dismissal from the program.

Make-Up Examinations

Approved make-ups must be completed within 10 school days of the student's return.

For make-up examinations, students will be contacted prior to their return by the Office of Academic Support with their makeup schedule. If the student is for any reason not contacted by the Office of Academic Support prior to or immediately upon their return, the student is required to contact in writing each of their instructors by the end of the second day (no later than 3:00 p.m.) of their return.

For assignments or assessments other than make-up examinations, students must contact in writing the appropriate course coordinators within two school days (no later than 3:00 p.m. on the second day) of their return to school to determine their eligibility for a makeup. If a make-up is granted for an assignment or assessment, the faculty member will determine the date of the make-up, not to exceed ten days from the student's return. In some cases, the Office of Academic Support, at the discretion of the faculty, may include non-examination assessments or assignment make-ups with the schedule sent prior to the student's return.

For all make-up examinations, assessments, quizzes, etc., if the student has any questions or concerns once they receive their make-up schedule, they must contact their course coordinator as soon as possible but not after the make-up takes place or after the scheduled date for the make-up.

Students should be prepared to complete make-up examinations, assessments, and assignments as early as the first day of their return. Multiple make-ups may also be scheduled on the same day.

If the instructor determines that there is insufficient time to complete the make-up assignments and examinations due to conflicts with other scheduled examinations, the make-up assignments and examinations must be taken within two school days of the conclusion of the regularly scheduled examination period.

Failure to adhere to the aforementioned timelines will result in the loss of students' eligibility to complete missed assignments and examinations, resulting in 0.00 points for all missed assignments and examinations.

Make-ups take precedence over all other academic responsibilities. Prearranged travel is not a sufficient reason for missing a scheduled make-up.

This policy covers all examinations and any other assessments in any form (e.g., quizzes, lab activities, case studies, projects). Timing, in regard to the 30-minute rule, will be adjusted accordingly for non-examination assessments.

HIPAA Training

All students are required to complete HIPAA training. The method of delivery for the training as well as the dates and deadlines for completing training will be assigned by the Office of academic Operations and Institutional Research. Failure to complete HIPAA training by the assigned deadline will result in a professionalism deficiency evaluation and a delay in the student's entry into clinical rotations.

Immunizations

In order to ensure that all students are protected against preventable communicable illness, the following requirements must be met prior to matriculation or within 60 days of classes starting. In addition, students must maintain compliance while enrolled in the College of Podiatric Medicine. Students who fail to maintain compliance may be removed from the classroom and/or clinical settings (including clerkships) until the student can provide proof of compliance.

Students are required to receive all required immunizations (see list below) and will not be allowed on clinical rotations, including clerkships, if all immunization requirements are not met. Students who are allergic to a vaccine ingredient, or who may have a medical condition that prevents the administration of a vaccine, must provide supporting documentation.

All incoming students must provide documentation of the immunizations listed below prior to orientation or within 60 days of matriculation

Required Immunizations for Podiatric Medicine Students

First Year

- Tetanus, Diphtheria, Pertussis (Tdap)
  - One Tdap vaccine within the past 10 years. Td will not be accepted.
  - Must be current all four years.
- Measles, Mumps, Rubella (MMR)
  - One dose if born before January 1, 1957; two doses if born on or after January 1, 1957. Minimum four weeks apart between Dose 1 and Dose 2.

- Positive Rubella titer required **OR**
- Positive Rubeola IgG Titer, and Positive Mumps IgG Titer

- Hepatitis B
  - Three doses required. Dose 1 to Dose 2: minimum four weeks apart; Dose 2 to Dose 3: minimum eight weeks apart (and at least 16 weeks after first dose) **AND**
  - Hep B sAB Titer - Positive
  - The Hepatitis B series can take up to six months to complete. Students are advised to begin this series upon admission to the program.
- Varicella
  - Two doses required. Minimum four weeks apart between Dose 1 to Dose 2 **OR**
  - Positive Varicella Zoster IgG Titer
- Influenza (Vaccination required annually)
- Tuberculosis screening (PPD)
  - Two TB skin tests (PPD) performed in the 12 months prior to starting classes, with the second PPD performed less than three months prior to the start. These must be done in the United States **OR**
  - A blood test, Interferon Gamma Release Assay (Quantiferon-TB Gold In-Tube or T-Spot), performed less than three months prior to starting class.
    - An IGRA is required for this with past BCG vaccine who have tested positive with a PPD, unless they have a positive IGRA in the past.
    - A chest x-ray is required for the positive TB testing (PPD or IGRA).
    - Provide copies of reports for chest x-rays, blood tests, TB treatment statement, and PPD results.

Continuing students are responsible for obtaining the following immunizations so they remain compliant with Podiaric Medicine requirements:

Second Year:
- Influenza
- Tuberculosis screening

Third Year:
- Influenza
- Tuberculosis screening

Fourth Year:
- Influenza
- Tuberculosis screening

Below is a list of strongly recommended immunizations for first-year Podiatric Medicine students:

- Meningococcal;
- Hepatitis A
- Human papillomavirus (HPV2, HPV4)
- Polio

Some clerkships/externships may require additional immunizations. Please check with the Office of Academic Operations and Institutional Research to determine if there are any additional immunization requirements.

Immunization requirements are subject to change.

Incomplete Mark

Refer to the policy in the University Catalog for information on the process and deadline for the Incomplete mark for a graduate course.

Lecture Capture

It is a violation of copyright law to copy, download or print any portion of any recorded lectures.

Leave of Absence Procedure

For the university policy on Leave of Absence for Graduate Studies, please refer to the Academic Policies section of this Catalog.

A leave of absence is an excused absence from the scheduled course, lab/workshop and/or clinical responsibilities. A leave of absence is considered to be a minimum of five consecutive days, up to a maximum of 30 consecutive or nonconsecutive days per academic year. In rare instances of severe illness and prolonged hospitalization, students may be approved for a one-time extension of leave for an additional 30 calendar days per academic year. Students who are granted a leave of absence due to medical reasons will be required to submit appropriate documentation before their return from a leave of absence is approved.

Below are the procedures for requesting an official leave of absence.

1. Student files the leave of absence form and supporting documentation with the Office of Academic Operations and Institutional Research.
2. Once the leave of absence is approved, the Office of Academic Operations and Institutional Research will notify all appropriate faculty and staff members of the student's leave and the intended return date.
3. Upon returning from the approved leave of absence, the student will submit a completed return from a leave of absence form along with any required supporting documentation to the Office of Academic Operations and Institutional Research. Once the return is approved, all appropriate faculty and staff members will be notified.

Any requests for a leave of absence longer than 60 consecutive days will be viewed as a “withdrawal” from the college.

It is important to note that even though a currently enrolled student is on a leave of absence, the granting of the leave does not constitute a waiver of the student’s responsibility for tuition, fees or academic and graduation requirements.

Upon returning from a leave of absence, students are required to make up any eligible missed assignments or examinations within 10 school days of their return.

For make-up examinations, students will be contacted prior to their return by the Office of Academic Support with their make-up schedule. If students are, for any reason, not contacted by the Office of Academic Support prior to their return from a leave of absence, they are required to contact in writing each of their course coordinators by the end of the second day (no later than 3:00 p.m.) of their return.

For eligible missed labs/workshops, assignments or assessments other than make-up examinations, students must contact in writing the appropriate course coordinators within two school days (no later than 3:00 p.m. on the second day) of their return to school to determine their

eligibility for a make-up. If a make-up is granted for a lab/workshop, assignment or assessment, the faculty member will determine the date of the makeup, not to exceed ten days from the student's return. In some cases, the Office of Academic Support, at the discretion of the faculty, may include non-examination assessments or assignment make-ups with the schedule sent prior to or immediately upon the student's return.

For all make-up examinations, assessments, quizzes, etc., if students have any questions or concerns once they receive their make-up schedule, they must contact their course coordinator as soon as possible, but not after the make-up is completed or after the scheduled date for the make-up.

Students should be prepared to complete make-up examinations, assessments, labs/workshops and assignments as early as the first day of their return. Multiple make-ups may also be scheduled on the same day.

Make-ups take precedence over all other academic responsibilities. Prearranged travel is not a sufficient reason for missing a scheduled make-up.

If the course coordinator determines that there is insufficient time to complete the make-up assignments and examinations due to conflicts with other scheduled examinations, the make-up assignments and examinations must be taken within two school days of the conclusion of the regularly scheduled examination period at a time and date determined by the instructor. It is fully up to the course coordinator's discretion as to whether or not the two-day extension is warranted.

Failure to adhere to the aforementioned timelines will result in the loss of students' eligibility to complete missed assignments and examinations, resulting in 0.00 points for all missed assignments and examinations.

Objective Structured Clinical Examination (OSCE)

Students in April of their third year summer term are required to take and pass an Objective Structured Clinical Examination (OSCE) that covers multiple areas and topics, including podiatric medicine, podiatric surgery and biomechanics. The OSCE also includes simulated patients, medicine and oral case studies.

Students must have an overall pass rate of 70 percent on all sections combined in order to pass the OSCE. Students who fail the OSCE on the first attempt with an outstanding failure (course or rotation) on their academic record are academically dismissed. Students who fail the OSCE in April without additional outstanding failures on their academic record (course or rotation) are dropped from their May clinical rotation to remediate the failure through scheduled meetings with content experts for the subject area(s) they failed. These students will take the OSCE examination a second time at the end of May. Students passing will progress to 804xx / 805xx rotations. Students who fail the OSCE on the second attempt are academically dismissed from the program.

Students in Pathway I take the OSCE two months later than other students once all 803xx courses and rotations are successfully completed with a minimum C or S grade. Students making up 803xx rotations for reasons other than or in addition to Pathway I take the OSCE once all 803xx courses and rotations are successfully completed with a minimum C or S grade. Please note, this does not apply to students remediating a failed 803xx course or rotation. (See below for more information on remediation.) All other policies stated above regarding OSCE remediation taking place the month immediately following a failure on the OSCE and dismissals due to multiple failures apply to these students.

Students required to remediate an 803xx course or rotation are not eligible to do so until they have taken and passed with a minimum C or S grade all other 803xx courses and rotations and have taken and passed the OSCE.

Students dismissed for failing the OSCE twice (first attempt and remedial attempt taken the month immediately following the original failure) or for failing the OSCE once with additional outstanding 803xx (course or rotation) failures on their record have the right to apply for reinstatement, provided the student has not been previously dismissed, academic or otherwise.

Students reinstated after failing the OSCE once along with any other 803xx failure(s) (course or rotation) are required to successfully repeat (S grade) all 803xx rotations before taking the OSCE a second time. This second attempt takes place once all 803xx rotations and any outstanding course failures are successfully repeated (minimum C or S grade). Students reinstated after failing the OSCE and any other 803xx rotation or course who then fail the OSCE on their second attempt (original attempt and attempt after being reinstated) are dismissed from the college without eligibility for reinstatement.

Students reinstated after failing the OSCE twice (first attempt and remedial attempt) are required to repeat and pass (S grade) all 803xx rotations before taking the OSCE a third and final time. Students reinstated after failing the OSCE and the OSCE remediation who then fail the OSCE on the third attempt are dismissed from the college without eligibility for reinstatement.

Professionalism Deficiency Evaluation

Introduction

Professional behavior is always expected of students on campus, in clinic, during college events and while on outside rotations. If a student's behavior is deemed unprofessional — either by a member of the college staff, a faculty member, guest lecturer, independent contractor, patient or external rotation supervisory personnel — the student will be subject to a professionalism deficiency evaluation and potential professionalism standard sanctions, up to and including dismissal from the program. Some behaviors or actions that occur in relation to a course, rotation or in a classroom/lab setting may be subject not only to academic consequences outlined in the syllabus, but also to professionalism standard sanctions.

Process

The individual initiating the professionalism deficiency must complete a Professionalism Deficiency Evaluation form and submit it to the Office of Academic Operations and Institutional Research. When possible, the student will be apprised of the professionalism deficiency concern. The student will receive a copy of the professionalism deficiency evaluation form from the Office of Academic Operations and Institutional Research within 24 hours (one business day) of submission of the form. Within 72 hours of receiving the form, the student may provide a written statement or arrange for an in-person statement to the committee. The Professionalism Deficiency form and any previous professional behavior conduct files the student may have will be sent to the Professionalism Standards Review Committee.

The Professionalism Standards Review Committee will convene within three business days of receiving all required information. The committee will:

1. Review the complaint and any supporting documentation including a written or in-person statement by the student.
2. Conduct an investigation, which may include personal interviews and analysis of video or audio recordings and electronic/computer data, etc.
3. Determine appropriate consequences, as indicated below under Committee Determinations.

The committee's determination will be sent to the Office of Academic Operations and Institutional Research. The office will then notify the student via the student's Kent State email and copy the college dean.

Committee Determinations

1. The magnitude of the professional deficiency warrants **dismissal** from the program (even for certain first-time professional deficiencies), with one of the following options:
   a. The student will not be considered for readmission to the College of Podiatric Medicine.
   b. The student will be permitted to reapply and will be considered for re-admission to the College of Podiatric Medicine for the following academic year (if eligible).
   c. The committee may require additional conditions to be met to establish eligibility.
2. The magnitude of the professional deficiency warrants one or more of the following **severe** sanctions:
   a. Failure of an assessment (e.g., examination, quiz, practical)
   b. Failure of a course or rotation.
   c. Preclusion from participation in certain clinical rotations.
   d. A letter of reprimand from the college dean related to the professional deficiency, which becomes part of the student's permanent file and will be included with all externship and residency applications.
3. The magnitude of the professional deficiency warrants one or more of the following **lower-level** sanctions:
   a. The student is issued a warning notice of the deficiency, which does not become part of the student's permanent record but remains in the student's professionalism file in the Office of Academic Operations and Institutional Research.
   b. The student must meet with one or more members of the college administration regarding the professional deficiency.
   c. The student must attend and participate in a professional behavior remediation course or complete a professional behavior remediation project.
   d. The student must make-up one or more days of a clinical rotation.
   e. The student is dismissed or receives a severe sanction(s) listed above due to chronic/multiple lower-level professional deficiencies.

Expectations for Professional Behavior

The following is a list of general expectations for all students regarding professional behavior.

1. The student adheres to institutional, clinical and hospital policies and regulations.
2. The student demonstrates reliability and responsibility.
   a. Examples that do not demonstrate this expectation include, but are not limited to, missing assigned deadlines or not attending mandatory classes, college meetings or events; arriving late to clinic lab or rotation; not having white coat for clinic; wearing a soiled or stained white coat; wearing wrong color scrubs; not having the instruments; and poor grooming and hygiene.
3. The student demonstrates maturity.
   a. Examples that do not demonstrate this expectation include, but are not limited to, using inappropriate loud or foul language; making gestures that could be construed as inappropriate; damaging or disrespecting others' property; theft; and not adhering to published policies.
4. The student demonstrates the ability to accept criticism and to take appropriate steps to correct shortcomings.
   a. Examples that do not demonstrate this expectation include, but are not limited to, arguing or harassing a faculty member about a grade or examination; and asking a faculty member to change a grade despite not having earned the grade through the student's merit.
5. The student communicates professionally and appropriately, either verbally, online or in writing.
   a. Examples that do not demonstrate this expectation include, but are not limited to, sending inappropriate emails that contain lewd or lascivious content; and using social media in a way that compromises the student's professional identity.
6. The student demonstrates honesty and integrity.
7. The student demonstrates respect for members of the college community.
   a. An example that does not demonstrate this expectation includes, but is not limited to, harassing another individual either verbally, physically or through electronic means.
8. The student demonstrates respect for patients and individuals involved in all clinical settings, either on campus or at external locations.
9. The student demonstrate appearance, etiquette and grooming appropriate for the setting that demonstrates professionalism.

Registration for the College Podiatric Medicine

All students must complete a registration each year. Students who fail to complete registration requirements by the assigned deadline are subject to a professionalism deficiency evaluation. Students will not be promoted to the following grade level / academic year until registration requirements are fulfilled. Once the academic year concludes, students who have not submitted the required registration paperwork for the subsequent academic year will be withdrawn from the program.

Remediation and Mandatory Academic Counseling

Students may remediate an F (fail) or U (unsatisfactory) grade by receiving a satisfactory grade after remediation of the course or clinical rotation. Both the initial grade (F or U) and the satisfactory grade (no higher than the C grade) received after remediation are noted on the transcript. However, the original F or U grade is not calculated into the GPA provided that the student receives a passing grade (C or S) for the remedial course or rotation. Students who fail a remedial course or rotation will have both the original and remedial grades calculated into their GPA.

Students who do not attend a scheduled CLI 803xx or 804xx rotation and have not been approved for a rotation exception schedule change will receive an NF (Never Attended–Fail) mark and will be required to remediate the failure. These students also will be placed on academic probation until the NF mark is remediated by receiving a passing grade (S or C). An NF mark in a clinical rotation follows the same GPA and transcript policy as detailed in the previous paragraph. Students with an NF mark along with any other outstanding failures on their record will be academically dismissed.

Any student with one course or rotation failure will be placed on academic probation until the requirement is successfully (C or S grade) remediated. Failure in a remedial course or rotation will result in academic dismissal, as will any failure in an additional course or rotation prior to the successful (C or S grade) completion of remediation.

Remediation of the failed course or rotation will take place during the four-week period detailed below. Please note, the four-week remediation period may continue into the next academic year.

- Students in their first year will begin remediation immediately following the summer term.
- Students in their second year will begin remediation immediately following the spring semester.
- With the exception of Pathway I and II students, remediation for students in their third year will take place in May of the third-year summer term. Non-Pathway I and II students making up an entire third-year clinical rotation for non-academic reasons will remediate a failure in June after the successful completion of all 803xx coursework and clinical rotations. If making up multiple third-year clinical rotations, students will remediate the month after all 803xx courses and rotations are successfully completed.
- Remediation for APMLE Pathway I and II students will take place in July once students have successfully completed all 803xx level clinical rotations and coursework. Pathway I students making up an additional 3xx level clinical rotation (for non-academic reasons) will remediate in August once they have successfully completed all 803xx clinical rotations and coursework. Please note, students in their third year (including Pathway I students) who need to make up or remediate a combined total of four or more clinical rotations or courses will be delayed in starting fourth-year clerkships and rotations to the extent that they will not graduate on time at the end of the fourth-year summer term and may have their entry into residency delayed.
- Remediation for the Objective Structured Clinical Examination (OSCE) will take place the month immediately following the student's first attempt and failure. For full details regarding the OSCE schedule and eligibility for remediation, please see the Objective Structured Clinical Examination (OSCE) policy.
- Remediation for students in their fourth year will take place in April of the fourth-year summer term.

In addition to standard tuition, students are subject to an additional fee for remediation.

Students are not permitted to begin remediation until all other courses and clinical rotations from that academic level have been successfully completed. Academic level is defined as 801xx, 802xx, 803xx and 804xx.

Students are advised that remediation takes precedence over all other educational responsibilities. Remediation is conducted in a manner determined by the course coordinator. This includes the specifics of the delivery of the remedial course or rotation and the format of all assessments and examinations. Prearranged travel is not a qualified excuse to be absent from any scheduled meeting or examination.

Students are required to meet the following GPA requirements during the first and second year (effective for students whose first semester of coursework in the Podiatric Medicine program is fall 2016 or later):

- First Year:
  - Minimum 2.500 GPA at the end of the first-year fall semester;
  - Minimum 2.500 overall GPA at the end of the first-year spring semester; and
  - Minimum 2.500 GPA at the end of the first-year summer term.
- Second Year:
  - Minimum 2.500 overall GPA at the end of the second-year fall semester; and
  - Minimum 2.400 overall GPA at the end of the second-year spring semester.

Students falling below the minimum GPA following the first-year fall semester, first-year spring semester, first-year summer term or second-year fall semester will be required to participate in mandatory academic counseling.

Students with below a 2.400 GPA at the conclusion of the second-year spring semester will be academically dismissed from the program.

Student Conduct

A finding of responsibility for violating college or university policy will lead to a review by the dean of the college and may result in summary dismissal from the program. The decision of the dean is final.

Student Malpractice Insurance Coverage

Podiatric Medicine students are covered by the college's malpractice insurance policy for all official clinical rotations (i.e., registered for college credit).

Students are encouraged to visit clinical programs when they can find the free time in their schedules to do so. If visiting a program outside of an official clinical rotation that will consist of hands-on experiences rather than just observational, students must notify the Office of Academic Operations and Institutional Research prior to the hands-on experience taking place, or immediately following.

Technical Standards and Essential Requirements for Student Education in the College of Podiatric Medicine

The College of Podiatric Medicine is committed to the admission and advancement of all qualified students. College policy prohibits discrimination against anyone solely based on race, sexual orientation, gender, veteran status, color, national origin, religion, age, handicap or disability.

The faculty and administration have adopted the following technical standards and essential requirements that must be met by all students for progression and graduation. These technical standards expected of students seeking the degree of doctor of Podiatric Medicine reflect the college's highest commitment to the safety of its students and patients,

and recognize the essential functions of the profession of podiatric medicine.

The following standards and requirements describe the academic abilities and non-academic qualifications that are essential to the program of instruction; are directly related to the licensing requirements; and are directly related to those physical abilities, mental abilities, skills, attitudes and behaviors that students must demonstrate or perform at each stage of their education to ultimately ensure patient safety.

- **Visual observation and integration:** Candidates and students must have sufficient vision to observe demonstrations, video materials, and slides through a microscope and computer screens. They must acquire information from written documents, radiographs, photographs, charts and diagrams. They must be able to observe a patient accurately close at hand and at a distance to assess asymmetry, range of motion and tissue/texture changes.
- **Communication:** Candidates and students must be able to communicate effectively in oral and written formats, and in settings where time span is limited. This includes communication in clinical and laboratory settings. Candidates must be able to accurately elicit information in a timely and efficient manner. Candidates must be able to describe a patient's condition to the patient and to others in the diagnosis and treatment process.
- **Other sensory capacities:** Students must independently be able to take an oral history, do stethoscopy and communicate while wearing a surgical mask. Students must also have sufficient somatosensory capacity to palpate pulses, use a tuning fork and assess skin temperature.
- **Motor functions:** Candidates and students must have sufficient motor function reasonably required to undertake classes, laboratories and demonstrations, to provide general patient care as well as emergency treatment to patients. This includes cadaver dissection, microscopy, aseptic technique and safe handling of microbiological specimens. Also included is the motor capacity for chart and prescription writing, palpation, percussion, auscultation and other diagnostic maneuvers. All of these tasks must be done in a timely and efficient manner within prescribed time limitations relative to the context of a practicing physician. Examples of common daily treatments include, but are not limited to, palliative care of foot and ankle problems, injections, orthotic impressions, taking and processing of pedal radiographs, and performance of soft tissue and osseous tissue surgical procedures. Examples of emergency treatments include CPR, administration of intravenous medications, the opening of obstructed airways and hemostasis techniques.
- **Intellectual, conceptual, quantitative and integrative abilities:** Candidates must have sufficient cognitive abilities and effective learning techniques to assimilate the detailed and complex information presented in the medical student curriculum. Candidates must engage in critical thinking and problem solving. They must be able to learn through a variety of modalities including, but not limited to, classroom and lab instruction and exams; small group, team and collaborative activities; individual study; preparation and presentation of reports; and use of computer technology. Candidates must be able to consistently, quickly and accurately measure, calculate, interpret, reason, memorize, analyze, synthesize and transmit information across modalities. Candidates must be able to demonstrate these skills and procedures under pressure and in a timely fashion across a range of conditions and time frames. They must be able to recognize and draw conclusions under pressure and in a timely fashion across a range of conditions and time frames. They must be able to recognize and draw conclusions about three-dimensional spatial relationships and logical sequential relationships among events. These skills and abilities are fully defined by the faculty and explained in course syllabi.
- **Behavioral and social attributes:** Candidates must demonstrate the maturity and emotional stability required for full use of their intellectual abilities. They must accept responsibility for learning, exercising good judgement and promptly completing all responsibilities attendant to the diagnosis and care of patients. They must understand the legal and ethical aspects of the practice of medicine and function within both the law and ethical standards of the medical profession. Candidates must be able to work effectively, respectfully and professionally as part of the healthcare team and to interact with patients, their families, and health care personnel in a courteous, professional and respectful matter. They must be able to tolerate physically taxing workloads and long work hours, to function effectively under stress and to display flexibility and adaptability to changing environments.
- **Involvement in invasive and exposure-prone procedures:** Candidates and students must be qualified to be personally and actively involved in invasive and exposure-prone procedures without being a danger to patients, other health care professionals or fellow students. They must demonstrate adherence to the universal precautions as defined by the Center for Disease Control. As part of the technical standards and essential requirements to matriculate at the college, the following statement shall apply: If the student is HIV seropositive, the student may be restricted by the State Medical Board of Ohio from performing procedures required for graduation. If the student is HBV and or HCV positive and does not demonstrate non-infectivity, the student may be restricted by the State Medical Board of Ohio from performing procedures required for graduation. Any questions regarding these requirements should be directed to the senior associate dean.

Test Review Procedure

Students may review an examination by appointment only with the course coordinator, and only for a period extending two weeks following the conclusion of the exam cycle. Students wishing to receive an extension to the two-week period must contact the course coordinator prior to the deadline in order for their request to be considered. The course coordinator will determine the manner in which all reviews take place.

Transfer and Advanced Standing Admissions

Advanced Standing is credit(s) granted by a college to a student for studies completed elsewhere (i.e., another podiatry college or accredited medical school). Students will only be considered for Transfer and Advanced Standing prior to matriculation.

Candidates interested in transfer/advanced standing admission must meet the criteria for initial admission as outlined in the academic requirements section and follow the procedures outlined below:

- Submit a statement to the Office of Enrollment Management / Admissions requesting transfer/advanced standing consideration.
- Provide an official transcript of academic performance in all undergraduate, graduate and professional programs of study, domestic and international. If there was international institutional enrollment, reports from a recognized foreign credentialing agency must be jointly submitted for full consideration.

- Provide a letter of status from the academic dean or dean of student affairs at the College of Podiatric Medicine or other accredited medical school currently being attended. Official transcripts must indicate minimum 3.500 GPA from previous podiatric college for transfer consideration.

Withdrawal from the College of Podiatric Medicine

To discuss withdrawing from the podiatric medicine program, please contact the Office of Academic Operations and Institutional Research.

Students withdrawing will receive the following grades:

- Courses that fall within the university drop/add period will be dropped from the student's transcript with no grades being assigned.
- Courses prior to seven weeks of course instruction and after the university drop/add period will be assigned the W mark.
- Courses after seven weeks of course instruction, but before the university deadline to withdraw from a specific course, will be assigned the WP (withdraw passing) or WF (withdraw failing) mark.
- Courses after the university deadline to withdraw from a specific course will be assigned the SF (stopped attending - fail) grade.

Refer to the Office of the University Registrar website for registration deadlines.

Students are not permitted to withdraw from individual courses. Any withdrawal will be a complete withdrawal from Doctor of Podiatric Medicine degree program.

NOTE: The official date of withdrawal is the date on which the student begins the withdrawal process.

A student who leaves the college without proper notice or without following the withdrawal policy automatically will be withdrawn from the college after two attempts to contact the student.

Readmission

Students seeking readmission to the college are instructed to contact the Office of Academic Operations and Institutional Research.

Students who previously withdrew in good academic standing with no failures (F, U, SF, or NF) or WF grades are not required to appear before the Academic Readmission / Reinstatement Committee in order to be readmitted to the program. These students should contact the Office of Academic Operations and Institutional Research to discuss readmission options.

Students who previously withdrew with failures (F, U, SF, NF) or WF grades are required to appear before the Academics / Reinstatement Committee to request readmission. These students should contact the Office of Academic Operations and Institutional Research to discuss the readmission process.

The following students are not eligible for readmission or reinstatement.

1. Students with two dismissals, academic or non-academic, on their record.
2. Students who have taken and failed APMLE Part I three or more times without passing.

Students seeking readmission or reinstatement who will not be able to complete the program within six academic years must receive an exception from the Council on Podiatric Medical Education in order to be considered for readmission or reinstatement.

College of Podiatric Medicine Faculty

- Belovich, Stephanie J. (2012), Associate Professor , Ph.D., Kent State University, 1999
- Blazer, Marie M. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 2004
- Butler, Nick R. (2012), Assistant Professor, D.P.M., Kent State University, 2015
- Connors, James C. (2016), Associate Professor, D.P.M., Ohio College of Podiatric Medicine , 1999
- Dalman, Mark R. (2016), Associate Professor, Ph.D., University of Akron, 2014
- Donovan, Jacqueline K. (2022), Assistant Professor, Ph.D., Kent State University, 2012
- Farnkopf, Ian C. (2016), Assistant Professor, Ph.D., Kent State University, 2022
- Jahan, Israt (2023), Assistant Professor, Ph.D., Gifu University, 2007
- Johnson, Rachel E. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 2008
- Kawalec, Jill S. (2012), Professor and Division Head, Ph.D., Case Western Reserve University, 1997
- Moore, Joshua L. (2023), Professor, D.P.M., Des Moines University, 2009
- Osbourne, Abe G. (2012), Associate Professor and Division Head, D.P.M., Ohio College of Podiatric Medicine, 1990
- Osher, Lawrence S. (2012), Professor, D.P.M., Ohio College of Podiatric Medicine, 1982
- Petrozzi, Rocco A. (2012), Associate Professor , D.P.M., Ohio College of Podiatric Medicine, 2003
- Salameh, Ahlam I. (2023), Assistant Professor, B.A., The Hashemite University, 2003
- Siesel, Kathy J. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 1989
- Spencer, Scott A. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 1987

Clinical Education (CLI)

CLI 80200 STANDARDIZED PATIENTS ROTATION 1 Credit Hour
Offers second year students the opportunity to interview standardized patients and receive feedback on their patient interviewing and history recording skills which prepares them to function competently in a doctor/patient encounter. Some students find that interviewing patients comes naturally, while for others it is more a learned skill. The standardized patients are actors who have been coached to simulate actual patients so accurately that the simulation could possibly fool even a skilled clinician.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clinical Laboratory
Contact Hours: 4 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80311 WOUND CARE 2 Credit Hours
The clinical rotation provides students with an opportunity to become exposed to the clinical practice of wound care. Students have a unique opportunity to be involved in wound care patient management, which is an essential part of podiatric medical practice. Students develop skills in wound care patient management as well as communication skills. Students also develop cognitive reasoning skills so as to accurately diagnose comorbid conditions and develop treatment plans appropriate for each patient. Students are exposed to a variety of wound pathology during this clinical wound care rotation. A combination of physician-guided patient care and nursing lead discussion groups allow students to be exposed to many topics related to the essentials of wound patient management. Students are able integrate knowledge already gained in the classroom with clinical medicine.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80312 FOOT AND ANKLE SURGERY I 2 Credit Hours
This rotation is designed as a well-rounded surgical experience involving all appropriate settings, including the surgical clinic, the hospital, the operating room and academic conferences.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80313 FOOT AND ANKLE SURGERY II 2 Credit Hours
This rotation is designed as a well-rounded surgical experience involving all appropriate settings, including the surgical clinic, the hospital, the operating room and academic conferences.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80316 SURGICAL SKILLS AND SIMULATED PATIENTS II 2 Credit Hours
This combined course of surgical skills and simulated patients is offered as part of the core clinical rotations in the third year. The surgical skills portion provides students with the knowledge and hands-on training pertaining to the physical skills that are necessary to perform surgery of the foot and ankle. An effort is made to correlate didactic information learned in the classroom with the rationale behind why many surgical procedures are performed. Adequate demonstration of surgical skills are provided along with practice time and constructive performance feedback. Upon successful completion of this course, students should possess a basic understanding of and the ability to perform physical skills which are necessary in foot and ankle surgery. Course covers general medicine, simulated patient interactions and clinical skills exam exposure.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80320 RADIOLOGY ROTATION 2 Credit Hours
Clinical rotations function by adapting and applying classroom information to real life, “hands-on” situations. A majority of foot complaints necessitate the taking and the reading of radiographs. As specialists of the foot and ankle, podiatrists are in a unique situation in being able to take and interpret radiographs in their own offices. Radiographic analysis is therefore an integral component of podiatric medical education. The Radiology/Medical Imaging rotation focuses on those skills commonly performed by the podiatrist. This includes positioning and developing radiographs along with recognizing the most common pedal pathologies.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80351 PODIATRIC MEDICINE/BIOMECHANICS (EUCLID) 2 Credit Hours
Gives students the opportunity to perform primary foot and ankle care under the supervision of the clinical faculty. Students learn basic podiatric palliative care techniques on patients, as well as how to record the findings in the medical record. Students are evaluated on their ability to present the case history, treat the patient and properly record their findings. Students receive clinical conferences on a variety of podiatric medical topics with practical exams in many areas. Two months are spent at the Cleveland Foot and Ankle Clinic. One month is spent at the Cleveland VA Hospital. This rotation also provides the student with the opportunity for observation and practice of examination skills required in performing a musculoskeletal and biomechanical evaluation. This involves the development of skill in obtaining a biomechanical/musculoskeletal history, arthrometric evaluation, visual gait analysis and musculoskeletal examination to include muscle strength testing, flexibility and range of motion. The student is also taught, and provided opportunities for practice, various methods of obtaining and evaluating proper biomechanical cast impressions of the feet for the purpose of fabricating orthotic devices, Emphasis in this rotation is on the practice and refinement of clinical evaluation and manual skills.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80352 PODIATRIC MEDICINE/BIOMECHANICS (INDEPENDENCE) 2 Credit Hours
Gives students the opportunity to perform primary foot and ankle care under the supervision of the clinical faculty. Students learn basic podiatric palliative care techniques on patients, as well as how to record their findings in the medical record. Students are evaluated on their ability to present the case history, treat the patient and properly record their findings. Students receive clinical conferences on a variety of podiatric medical topics, with practical exams in many areas. Two months are spent at the Cleveland Foot and Ankle Institute. One month is spent at the Cleveland VA Hospital. Also provides the student with the opportunity for observation and practice of examination skills required in performing a musculoskeletal and biomechanical evaluation. This involves the development of skill in obtaining a biomechanical/musculoskeletal history, arthrometric evaluation, visual gait analysis and musculoskeletal examination to include muscle strength testing, flexibility and range of motion. The student is taught and provided opportunities for practice, various methods of obtaining and evaluating proper biomechanical cast impressions of the feet for the purpose of fabricating orthotic devices. Emphasis is on the practice and refinement of clinical evaluation and manual skills.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80365 PRIMARY CARE/VETERANS ADMINISTRATION 2 Credit Hours
This is a one-month rotation at a veteran's health care facility, which emphasizes the skills necessary to function effectively in government health care facilities.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clinical Laboratory
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80370 HISTORY AND PHYSICAL ROTATION 4 Credit Hours
The history and physical rotation is a one month experience in one of the several area hospitals, which is designed to provide experience in history and physical examinations. Each rotation site will provide the same core experiences, (based on the goals and objectives), in patient assessment techniques (i.e., history and physical examination), the understanding of disease processes and management strategies. In addition to the core experiences, each rotation site may add additional exposures and training.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clinical Laboratory
Contact Hours: 16 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80380 SIMULATED PATIENTS I 2 Credit Hours
Clinical course offered as part of the core clinical rotations in the third year. Covers general medicine rotation, simulated patients interactions and clinical skills exam exposure.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 8.96 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80443 SENIOR CLINICAL ROTATION 4 Credit Hours
The senior clinical rotation is designed to maximize student-learning opportunities in a clinical setting. This rotation will take place at the Cleveland Foot and Ankle clinics (Midtown and Independence locations) as well as Cleveland-area Department of Veterans' Affairs locations. Students are assigned to one or more locations for the month.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80460 CLERKSHIP ROTATION I 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80465 CLERKSHIP ROTATION II 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80470 CLERKSHIP ROTATION III 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80475 CLERKSHIP ROTATION IV 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80480 CLERKSHIP ROTATION V 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80485 CLERKSHIP ROTATION VI 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80486 CLERKSHIP ROTATION VII 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences. This is an elective rotation that is available in the event that students wish to gain additional experience in a clinical setting prior to graduation.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80487 CLERKSHIP ROTATION VIII 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experienced members of the health care team in Cleveland and around the country. Office and hospital-based programs available in almost every state, offer a diversity of clinical experiences. This is an elective rotation that is available in the event that students wish to gain additional experience in a clinical setting prior to graduation.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80490 CLERKSHIP VII 4 Credit Hours
Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year, but are given the opportunity to add elective clerkship rotations. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process. This is an elective rotation that is available in the event that students wish to gain additional experience in a clinical setting prior to graduation.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Clinical Laboratory
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80521 SENIOR MEDICINE ROTATION I 4 Credit Hours
One-month external rotation at hospitals throughout the United States. Students are instructed in skills, values and knowledge necessary to perform a complete medical history and physical.
Prerequisite: Students must be enrolled in the Podiatric Medicine program in order to register for this course.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

CLI 80522 SENIOR MEDICINE ROTATION II 4 Credit Hours
One-month external rotation at an area hospital. Students are instructed in skills, values and knowledge necessary to perform a complete medical history and physical.
Prerequisite: Students must be enrolled in the Podiatric Medicine program in order to register for this course.
Schedule Type: Clerkship
Contact Hours: 12.79 other
Grade Mode: Satisfactory/Unsatisfactory

General Medicine (GMD)

GMD 80121 PHYSICAL ASSESSMENT AND DIAGNOSIS 3 Credit Hours
Physiology and physical assessment are coordinated to allow students to integrate the underlying physiologic processes with physical diagnostic findings. Physiology is the study of the basic concepts of normal organ and organ system function. Emphasis is placed on regulatory functions of each organ or system as well as the contribution of each to the whole body homeostasis. Physical diagnosis combines the patient's symptoms and signs to arrive at a diagnosis of disease. Focus is on total body examination using the traditional processes of inspection, palpation, percussion and auscultation.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Laboratory, Lecture
Contact Hours: .73 lecture, 2.27 lab
Grade Mode: Standard Letter

GMD 80205 INTEGRATIVE PHYSICAL DIAGNOSIS FOR INTERNAL MEDICINE 1 Credit Hour
This is an elective course designed to integrate physical assessment in preparation for training in the internal medicine specialties. This course prepares podiatric medical students to better evaluate patient concerns by symptom, utilize and improve their physical diagnostic skills, and optimize preparation for clinical training experiences in the internal medicine specialties. The course emphasizes concepts and integrates knowledge from traditional science disciplines in the context of clinical application.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

GMD 80216 MEDICINE I 4 Credit Hours
Course provides students a background in general medicine, including cardiovascular, pulmonary, renal, metabolic, hematologic, gastrointestinal, rheumatologic, immunologic and infectious diseases. The information gained by the student enables the podiatric student to be better prepared for parts I - III boards, a vital participant in their third- and fourth-year medicine rotations and prepare the student for success in their residency.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

GMD 80217 MEDICINE II 4 Credit Hours
Course provides students with a background in general medicine, including cardiovascular, pulmonary, renal, metabolic, hematologic, gastrointestinal, rheumatologic, immunologic and infectious diseases. The information gained by the student enables the podiatric student to be better prepared for parts I - III boards, a vital participant in their third- and fourth-year medicine rotations and prepare the student for success in their residency.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

GMD 80314 NEUROLOGY 2 Credit Hours
A comprehensive study of neurological diseases that are pertinent to treatment of the podiatric patient. Includes etiologies, diagnosis and treatment of the neurologic diseases.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

GMD 80315 DERMATOLOGY 2 Credit Hours
Series of lectures on dermatologic manifestations of systemic diseases. Includes the etiology, diagnosis, treatment and management of dermatologic disorders.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

GMD 80327 BEHAVIORAL MEDICINE 1 Credit Hour
Behavioral medicine is a series of lectures on major topics in the area including mood and anxiety disorders, alcoholism, substance abuse, psychoses and pain management. The presentations relate the relevance to the practice of podiatry.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

GMD 80328 WOMEN'S HEALTH 1 Credit Hour
Seminar covering important areas unique to women including pregnancy, contraception, infertility, cardiovascular health, osteoporosis and menopause.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

Podiatric Biomechanics/Orthopedics (ORT)

ORT 80131 BIOMECHANICS I 3 Credit Hours
Biomechanics is a comprehensive course, which stresses normal gait and foot function. Abnormalities in gait or foot mechanics are related to foot pathology.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Preclinical Sciences (PCS)

PCS 80001 COMPREHENSIVE BASIC SCIENCE I 1 Credit Hour
This course will be required for all Pathway I students. Pathway I students are defined as students who fail APMLE Part I on the first attempt and are preparing to take it for the second time. Students who do not take APMLE Part I on the first attempt will be also be required to take this course.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

PCS 80002 COMPREHENSIVE BASIC SCIENCE II 5 Credit Hours
This course will be required for all Pathway II students. Pathway II students are defined as students who fail APMLE Part I on the first and second attempts and are preparing to take it for the third and final time. Eligible students who do not sit for APMLE Part I the first time offered and who fail on their first attempt will be required to take this course as well.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 5 other
Grade Mode: Satisfactory/Unsatisfactory

PCS 80109 HUMAN ANATOMY 6 Credit Hours
The macroscopic anatomy of the upper limb, thorax, abdomen, head and neck, pelvis and perineum of the human body is described, utilizing audiovisual teaching aids and full cadaver dissection. The course is taught using a regional approach, with emphasis on structural and functional relationships. The laboratory instruction includes cadaver dissection supplemented with anatomical prosections, as well as cross-sectional anatomy and computerized educational material.
Prerequisite: Students must be enrolled in the Podiatric Medicine program in order to register for this course.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 lecture, 4 lab
Grade Mode: Standard Letter

PCS 80110 EMBRYOLOGY 2 Credit Hours
This course will cover the major events and processes involved in normal and abnormal embryologic development of the major body organs and systems.
Prerequisite: Students must be enrolled in the Podiatric Medicine program in order to register for this course.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PCS 80119 HUMAN ANATOMY AND EMBRYOLOGY 8 Credit Hours
The human upper limb, head and neck, thoracic, abdominal and pelvic anatomy is explored through lecture, audiovisual aids and cadaver dissection. The material is presented in a regional approach, with emphasis on structural and functional relationships, and is correlated with cadaver dissection. In addition, early events in human embryology are presented and discussed followed by coverage of regional and system-based events during embryological and fetal development. Anatomical and embryological topics are correlated throughout the course.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 lecture, 4 lab
Grade Mode: Standard Letter

PCS 80124 LOWER EXTREMITY ANATOMY 8 Credit Hours
Lower extremity anatomy presents the detailed macroscopic anatomy of the lower limb. The course is augmented with radiographs, MRI, surface anatomy and cross sectional studies. The course includes an introduction to basic concepts of podiatric medicine, surgery and biomechanics. Laboratory instruction includes a detailed dissection of the lower limb, supplemented with computerized educational materials and study of natural bone specimens.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Laboratory, Lecture
Contact Hours: 4 lecture, 4 lab
Grade Mode: Standard Letter

PCS 80128 MEDICAL MICROBIO/IMMUNOLOGY 6 Credit Hours
This course will introduce the student to the basic concepts, characteristics and techniques used in the study of the clinically significant microbic groups: viruses, bacteria, fungi, and protozoa. The structure, metabolism, genetics, control and laboratory techniques of each microbic group will be described. The roles and outcomes of these organisms in producing manifestations of human infection and disease will be investigated. This course will also introduce the student to the molecular, cellular and organismal mechanisms responsible for the human immune response system. Laboratory will provide hands on experience in staining, cultivation, identification, sensitivity testing, and immunologic techniques.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 lecture, 1 lab
Grade Mode: Standard Letter

PCS 80130 FOUNDATIONS OF LIFE SCIENCES I 6 Credit Hours
Course covers foundational biochemistry, molecular biology, genetics, cell and tissue structure, as well as the structure and function of various tissues and specialized connective tissues.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 6.4 lecture
Grade Mode: Standard Letter

PCS 80131 FOUNDATIONS OF LIFE SCIENCES II 6 Credit Hours
Course offers a thorough exploration of biochemistry, histology and physiology, focusing on the processes and systems that sustain human life. Students study the biochemical pathways of metabolism and their role in energy production, as well as the cellular and tissue structures of the endocrine and reproductive systems. Course emphasizes the integration of the autonomic nervous system with the endocrine and reproductive systems, highlighting feedback mechanisms that regulate homeostasis, hormonal balance and reproduction. By connecting biochemical, structural and functional concepts, this course aligns with the KSUCPM Medical Knowledge Competencies and prepares the students to apply foundational science concepts to medical practice.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 6.4 lecture
Grade Mode: Standard Letter

PCS 80132 FOUNDATIONS OF LIFE SCIENCES III 4 Credit Hours
Course provides an in-depth exploration of the physiology and histology of the nervous and digestive systems. Students gain a comprehensive understanding of the structure and function of these systems at both cellular and systemic levels, with an emphasis on their interdependence and regulation. The course integrates foundational knowledge of neural signaling, brain and spinal cord function and peripheral nervous system dynamics. Course also covers the processes of digestion, nutrient absorption and gastrointestinal regulation. Special focus is given to the microscopic anatomy of nervous tissue and digestive organs, highlighting how cellular architecture supports physiological roles.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 4.8 lecture
Grade Mode: Standard Letter

PCS 80133 FOUNDATIONS OF LIFE SCIENCES IV 5 Credit Hours
Course explores the normal histologic structure, function, and physiological mechanisms of the cardiovascular, renal and respiratory systems.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 5.6 lecture
Grade Mode: Standard Letter

PCS 80218 HUMAN SYSTEMS PATHOLOGY I 8 Credit Hours
The study of disease with emphasis on epidemiology, pathogenesis, natural history, morphologic appearance and relationship to clinical manifestation. Emphasis is placed on basic cellular pathologic processes (injury, inflammation and repair, neoplasia), and description of diseases organized by organ system. An introduction to the concepts of clinical decision making through the use of case studies and current clinical literature will be emphasized.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Lecture
Contact Hours: 8 lecture
Grade Mode: Standard Letter

PCS 80219 PHARMACOLOGY AND THERAPEUTICS I 4 Credit Hours
Historically, the clinician was responsible for information about the sources, physical and chemical properties, compounding and dispensing of drugs. Today the practitioner's responsibility requires the rational clinical use of therapeutic agents for the prevention, diagnosis, and treatment of disease based on an understanding of pharmacological principles. This course is designed to prepare practitioners to prescribe for maximum benefit and to recognize the clinical ramifications of concomitant drug therapy.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

PCS 80228 HUMAN SYSTEMS PATHOLOGY II 8 Credit Hours
The study of disease with emphasis on epidemiology, pathogenesis, natural history, morphologic appearance and relationship to clinical manifestation. Emphasis is placed on basic cellular pathologic processes (injury, inflammation and repair, neoplasia), and description of diseases organized by organ system. An introduction to the concepts of clinical decision making through the use of case studies and current clinical literature will be emphasized.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Lecture
Contact Hours: 8 lecture
Grade Mode: Standard Letter

PCS 80229 PHARMACOLOGY AND THERAPEUTICS II 4 Credit Hours
Historically, the clinician was responsible for information about the sources, physical and chemical properties, compounding and dispensing of drugs. Today the practitioner's responsibility requires the rational clinical use of therapeutic agents for the prevention, diagnosis, and treatment of disease based on an understanding of pharmacological principles. This course is designed to prepare practitioners to prescribe for maximum benefit and to recognize the clinical ramifications of concomitant drug therapy.
Prerequisite: Student must be enrolled in the podiatric medicine program.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

Podiatric Medicine (PMD)

PMD 80113 MEDICAL ETHICS 1 Credit Hour
The focus of the medical ethics curriculum is to provide a foundation in ethical analysis, augment knowledge of contemporary bioethics issues, and offer experience applying ethical reasoning to clinical cases. The goal of this course is to promote discussion of the ethical responsibilities of a doctor to their patients.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PMD 80114 PRINCIPLES OF MEDICAL RESEARCH 1 Credit Hour
It is important for a podiatric physician to have developed the ability to read and interpret the medical literature. This requires a fundamental understanding of biostatistics, epidemiology, and research design. This course provides a framework for the development of an evidence-based methodology to patient care.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PMD 80117 PODIATRY, PROFESSIONALISM AND SOCIETY I 1 Credit Hour
The subject matter is relevant but nontraditional in nature with respect to classic medical education. Some of the topics covered are sometimes considered "soft topics" covering a wide range of subjects that podiatric medical students encounter in their personal, academic and professional careers. Students will participate in discussions and projects on ethics, socio-behavior and issues, and practice related topics such as professionalism, communication, empathy, and time and financial management. Other topics related to the National Board Examinations, personal health, and team-based healthcare system will also be covered. Ultimately, students will develop a more unique level understanding and appreciation of the above referenced themes as they advance their learning. An emphasis on academic and personal wellness in the first year of podiatric medical school is the focus of this course.
Prerequisite: Students must be enrolled in the Podiatric Medicine program in order to register for this course.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

PMD 80132 LOWER EXTREMITY ASSESSMENT AND DIAGNOSIS 2 Credit Hours
A comprehensive approach to physical examination, which combines the patient's symptoms and the physical signs to arrive at a diagnosis of disease. It is accomplished by training students in the methods of history taking and physical examination. The course focuses on lower extremity examination. The traditional processes of inspection, palpation, percussion and auscultation are emphasized.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PMD 80133 INTRODUCTION MEDICAL IMAGING 1 Credit Hour
Podiatric physicians are fully licensed to order, perform and interpret radiologic studies of the foot and ankle. As operators of ionizing x-ray equipment, all practitioners must undergo basic training in x-ray physics, image control and quality assurance, safety and patient positioning. These four building blocks comprise the foundation of this course in fundamentals.
Prerequisite: Student must be enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PMD 80222 PODIATRIC MEDICAL SKILLS 1 Credit Hour
Podiatric Medical Skills is a practical course, which includes strapping and padding, instrument dexterity, local anesthetic injection, nail avulsion technique, blood glucose finger stick, handheld Doppler exam, fitting for diabetic shoes, arthrometric examination and casting for orthoses. Students are taught the indications and proper application of adhesive bandages and splints for the prevention of injury, control of foot function and treatment of injuries to the foot and lower extremity. Padding is the treatment of foot pathology by redistribution of weight, stress and friction. Students are taught how to relieve acute and chronic pathologies of the foot through the use of various padding materials, or prefabricated pads. Students also gain an understanding of the theory of pad placement. Students are taught the proper techniques for performing toenail avulsions, blood glucose finger sticks, and using the handheld Doppler. Students are taught the proper methods of fitting for diabetic shoes, performing a foot and ankle arthrometric examination and casting methods for foot orthoses.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Satisfactory/Unsatisfactory

PMD 80226 INTRODUCTION TO PODIATRIC MEDICINE AND SURGERY 4 Credit Hours
This is a core course designed to present the 2nd year student with the full spectrum of pathology, which they encounter during their clinical training, podiatric medical boards and eventually in podiatric practice. Topics include infectious disease, wound care, rheumatology, vascular medicine, surgery and the diabetic foot. Students are instructed in the evaluation of foot and ankle pathology including signs, symptoms and differential diagnosis. Laboratory and radiographic evaluation are discussed when appropriate. Students are instructed in the treatment alternatives available in each case.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 4.8 lecture
Grade Mode: Standard Letter

PMD 80317 PODIATRY, PROFESSIONALISM AND SOCIETY III 1 Credit Hour
The subject matter is functionally relevant but nontraditional in nature with respect to classic medical education. Topics cover a wide range of subjects that podiatric medical students encounter in their academic and professional careers. Students will participate in discussions and projects on ethics, socio-behavior, and practice related topics such as professionalism, communication, and time and financial management. Other topics related to personal health and the changing healthcare system will also be covered. Ultimately, students will develop a more unique level understanding and appreciation of the above referenced themes as they advance their learning. The content will be relevant to the third year podiatric medical school student.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

PMD 80318 PEDIATRICS 2 Credit Hours
Pediatrics is a comprehensive course, which introduces general pediatric pathologic processes, pediatric H&P, and emphasizes the incidence, etiology, pathomechanics, evaluation and treatment of common lower extremity pathology in children.
Prerequisite: This course has prerequisites of successful completion of all 1st and 2nd year curriculum in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PMD 80323 PODIATRIC PUBLIC HEALTH AND LAW 2 Credit Hours
Public health and law comprises efforts to improve the health of communities. Course provides an overview for public health administration and practice, including organization, law, legislative relations, financing, workforce issues, leadership and surveillance. Additionally, this course covers the underlying theories behind healthcare law and regulations as well as the specific provisions affecting the organization, delivery and payment of primary health services.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 2.4 lecture
Grade Mode: Standard Letter

PMD 80396 INDEPENDENT STUDY 5 Credit Hours
Independent study in Podiatric Medicine.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Individual Investigation
Contact Hours: 5 other
Grade Mode: Satisfactory/Unsatisfactory

PMD 80417 PODIATRY, PROFESSIONALISM AND SOCIETY IV 4 Credit Hours
The subject matter is functionally relevant but nontraditional in nature with respect to classic medical education. Topics cover a wide range of subjects that podiatric medical students encounter in their academic and professional careers. Students will practice self-directed learning while preparing for graduation. There will be discussions and projects in various areas such as ethics, social behavior, as well as practice related topics such as professionalism, communication, business, and courtroom law/malpractice. Other topics related to personal health and the changing healthcare system will also be covered. Ultimately, students will develop a more unique level understanding and appreciation of the above referenced themes as they finalize their DPM degree program. The content will be relevant to the fourth year podiatric medical school student.
Prerequisite: Students must be enrolled in the Podiatric Medicine program in order to register for this course.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Satisfactory/Unsatisfactory

PMD 80495 ST PODIATRIC GEN MED 1-4 Credit Hours
(Repeatable for maximum 8 credit hours) The special topics course is to sample new offerings on various topics.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

Podiatric Surgery (SUR)

SUR 80227 PODIATRIC MEDICINE AND SURGERY I 4 Credit Hours
A comprehensive working knowledge of common deformities of the foot is essential to the podiatric physician in providing comprehensive care of patients. This course provides the 2nd year podiatric medical student with the knowledge of surgical management of patients and their foot deformities. The course includes material on the etiology, clinical and radiographic evaluation, indications and contraindications, as well as postoperative considerations and care. This course discusses the surgical management of deformities of the foot, ankle and lower leg and include surgical complications. In addition, several lectures are dedicated to special topics, such as AO/ASIF Fixation, Bio-materials, Arthroscopic surgical procedures and reconstructive foot and ankle procedures. Skills labs are held in the surgical skills laboratory. Emphasis is placed on current and prevailing concepts and techniques employed by the podiatric physician.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4.8 lecture, .56 lab
Grade Mode: Standard Letter

SUR 80313 PODIATRIC SURGERY 2 Credit Hours
A comprehensive working knowledge of common deformities of the foot is essential to the podiatric physician in providing comprehensive care of patients. This course provides the 3rd year podiatric medical student with the knowledge of surgical management of patients and their foot deformities. The course includes material on the etiology, clinical and radiographic evaluation, indications and contraindications, as well as postoperative considerations and care. These courses discuss the surgical management of deformities of the foot, ankle and lower leg and include surgical complications. In addition, several lectures are dedicated to special topics, such as AO/ASIF Fixation, Bio-materials, Arthroscopic surgical procedures and reconstructive foot and ankle procedures. Weekly skills workshops will be held in the surgical skills laboratory. Emphasis is placed on current and prevailing concepts and techniques employed by the podiatric physician.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SUR 80323 PODIATRIC SURGERY 2 Credit Hours
A comprehensive working knowledge of common deformities of the foot is essential to the podiatric physician in providing comprehensive care of patients. This course provides the 3rd year podiatric medical student with the knowledge of surgical management of patients and their foot deformities. The course includes material on the etiology, clinical and radiographic evaluation, indications and contraindications, as well as postoperative considerations and care. These courses discuss the surgical management of deformities of the foot, ankle and lower leg and include surgical complications. In addition, several lectures are dedicated to special topics, such as AO/ASIF Fixation, Bio-materials, Arthroscopic surgical procedures and reconstructive foot and ankle procedures. Weekly skills workshops will be held in the surgical skills laboratory. Emphasis is placed on current and prevailing concepts and techniques employed by the podiatric physician.
Prerequisite: Enrolled in the college of podiatric medicine.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

SUR 80325 TRAUMATOLOGY 3 Credit Hours
Course provides third year podiatric medical students with a broad overview and appreciation of the major trauma areas of the foot, including the midfoot, rearfoot, ankle and lower leg. A strong effort is made to correlate the mechanical, surgical, physiologic and anatomic principles of surgery with emphasis on their implications and applications in major reconstructive surgery and the management of the trauma patient who presents with foot and or ankle trauma. Surgical procedures for the management of specific trauma situations are discussed, as well as indications, contraindications and post-operative management. An overall view of the trauma patient as viewed in a level I trauma center is included as this is a major responsibility for the podiatric physician treating the trauma patient.
Prerequisite: Student must be enrolled in the Podiatric Medicine program.
Schedule Type: Lecture
Contact Hours: 3.6 lecture
Grade Mode: Standard Letter

Podiatric Medicine - D.P.M.

College of Podiatric Medicine
www.kent.edu/cpm

About This Program

Our Doctor of Podiatric Medicine program equips you with the knowledge and skills needed to diagnose, treat and prevent foot and ankle disorders. With a comprehensive curriculum, state-of-the-art facilities and experienced faculty, you'll be prepared to make a difference in patients' lives. Read more...

Contact Information

- **Angela Dessables** | adessabl@kent.edu | 216-916-7487
- **Ashley Butler** | abutle27@kent.edu | 216-916-7486
- Connect with an Admissions Counselor: U.S. Student (podiatry@kent.edu) | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Independence, Ohio

Examples of Possible Careers

- Armed Forces
- Department of Veterans Affairs
- Faculty in Health Professions Schools and Colleges
- Foot and Ankle Physician
- Health Maintenance Organizations (HMOs)
- Hospitals and Extended Care Facilities
- Medical Device Company Lecturer, Thought Leader and Innovator
- Medical Science Liaison
- Municipal Health Departments
- Pharmaceutical Industry Lecturer and Thought Leader
- Podiatric Surgeon in an Orthopedic Surgery Practice
- Preferred Provider Organizations (PPOs)
- Private or Group Medical Practice
- Public Health Service

Accreditation

The D.P.M. degree in Podiatric Medicine is accredited by the Council on Podiatric Medical Education (CPME) of the American Podiatric Medical Association (APMA).

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Kent State's College of Podiatric Medicine participates in the American Association of Colleges of Podiatric Medicine Application Service (AACPMAS). Candidates to Kent State's D.P.M. degree apply and submit materials to AACPMAS.

- Minimum 90 semester credit hours (or minimum 135 quarter hours) of undergraduate coursework, including the following prerequisites:
  - 6 semester credit hours (or 9 quarter credit hours) of English
  - 8 semester credit hours (or 12 quarter credit hours) **each** of biology, physics, organic chemistry and general/inorganic chemistry[1]
- Official transcript(s)
- Medical College Admission Test (MCAT)[2] or Dental Admission Test (DAT) scores
- Two letters of recommendation:
  - one letter from a faculty member, advisor or composite letter from a pre-medical advisory committee
  - one a letter from a doctor of podiatric medicine or other medical professional
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[3]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

Nearly all of entering D.P.M. students will have earned a bachelor's or advanced degree prior to matriculation; however, students may be granted admission with the required undergraduate coursework (90 semester credit hours or 135 quarter credit hours) and prerequisites completed.

See the policy on Technical Standards and Essential Requirements for Student Education in the College of Podiatric Medicine.

[1] All science coursework must include labs, when applicable. In addition, the following classes are recommended: biochemistry, histology, anatomy and physiology, neurobiology and microbiology.

[2] Scores must be within three years of the application date. Candidates may apply to the D.P.M. degree before taking the MCAT; however, the college will not be able to take final admissions action until official MCAT scores are received by the application service (AACPMAS). Candidates should plan on taking the MCAT no later than May of the year they plan to matriculate.

[3] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadline

- **Fall Semester**
  - Final deadline: June 30
    Applications will not be accepted after this deadline.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
GMD 80121	PHYSICAL ASSESSMENT AND DIAGNOSIS	3
GMD 80216	MEDICINE I	4
GMD 80217	MEDICINE II	4
GMD 80314	NEUROLOGY	2
GMD 80315	DERMATOLOGY	2
GMD 80327	BEHAVIORAL MEDICINE	1

GMD 80328	WOMEN'S HEALTH	1
ORT 80131	BIOMECHANICS I	3
PCS 80109	HUMAN ANATOMY	6
PCS 80110	EMBRYOLOGY	2
PCS 80124	LOWER EXTREMITY ANATOMY	8
PCS 80128	MEDICAL MICROBIO/IMMUNOLOGY	6
PCS 80130	FOUNDATIONS OF LIFE SCIENCES I	6
PCS 80131	FOUNDATIONS OF LIFE SCIENCES II	6
PCS 80132	FOUNDATIONS OF LIFE SCIENCES III	4
PCS 80133	FOUNDATIONS OF LIFE SCIENCES IV	5
PCS 80218	HUMAN SYSTEMS PATHOLOGY I	8
PCS 80219	PHARMACOLOGY AND THERAPEUTICS I	4
PCS 80228	HUMAN SYSTEMS PATHOLOGY II	8
PCS 80229	PHARMACOLOGY AND THERAPEUTICS II	4
PMD 80113	MEDICAL ETHICS	1
PMD 80114	PRINCIPLES OF MEDICAL RESEARCH	1
PMD 80117	PODIATRY, PROFESSIONALISM AND SOCIETY I	1
PMD 80132	LOWER EXTREMITY ASSESSMENT AND DIAGNOSIS	2
PMD 80133	INTRODUCTION MEDICAL IMAGING	1
PMD 80222	PODIATRIC MEDICAL SKILLS	1
PMD 80226	INTRODUCTION TO PODIATRIC MEDICINE AND SURGERY	4
PMD 80317	PODIATRY, PROFESSIONALISM AND SOCIETY III	1
PMD 80318	PEDIATRICS	2
PMD 80323	PODIATRIC PUBLIC HEALTH AND LAW	2
PMD 80417	PODIATRY, PROFESSIONALISM AND SOCIETY IV	4
SUR 80227	PODIATRIC MEDICINE AND SURGERY I	4
SUR 80313	PODIATRIC SURGERY	2
SUR 80323	PODIATRIC SURGERY	2
SUR 80325	TRAUMATOLOGY	3
Clinical Requirements		
Second-Year Clinical Option		1
CLI 80200	STANDARDIZED PATIENTS ROTATION [1]	
Third-Year Clinical Options [2]		18
CLI 80311	WOUND CARE	
CLI 80312	FOOT AND ANKLE SURGERY I	
CLI 80313	FOOT AND ANKLE SURGERY II	
CLI 80316	SURGICAL SKILLS AND SIMULATED PATIENTS II	
CLI 80320	RADIOLOGY ROTATION	
CLI 80351	PODIATRIC MEDICINE/BIOMECHANICS (EUCLID)	
CLI 80352	PODIATRIC MEDICINE/BIOMECHANICS (INDEPENDENCE)	
CLI 80365	PRIMARY CARE/VETERANS ADMINISTRATION	
CLI 80380	SIMULATED PATIENTS I	
Third-Year Summer Clinical Options [3]		2-4
CLI 80311	WOUND CARE	
CLI 80312	FOOT AND ANKLE SURGERY I	
CLI 80313	FOOT AND ANKLE SURGERY II	
CLI 80316	SURGICAL SKILLS AND SIMULATED PATIENTS II	
CLI 80320	RADIOLOGY ROTATION	
CLI 80351	PODIATRIC MEDICINE/BIOMECHANICS (EUCLID)	
CLI 80352	PODIATRIC MEDICINE/BIOMECHANICS (INDEPENDENCE)	
CLI 80365	PRIMARY CARE/VETERANS ADMINISTRATION	
CLI 80380	SIMULATED PATIENTS I	
CLI 80443	SENIOR CLINICAL ROTATION	
CLI 80460	CLERKSHIP ROTATION I	
CLI 80521	SENIOR MEDICINE ROTATION I	
Fourth-Year Clinical Options [3,4]		24-36
CLI 80443	SENIOR CLINICAL ROTATION	
CLI 80460	CLERKSHIP ROTATION I	
CLI 80465	CLERKSHIP ROTATION II	
CLI 80470	CLERKSHIP ROTATION III	
CLI 80475	CLERKSHIP ROTATION IV	
CLI 80480	CLERKSHIP ROTATION V	
CLI 80485	CLERKSHIP ROTATION VI	
CLI 80521	SENIOR MEDICINE ROTATION I	
CLI 80522	SENIOR MEDICINE ROTATION II	
Fourth-Year Summer Clinical Options [3,4]		0-4
CLI 80443	SENIOR CLINICAL ROTATION	
CLI 80460	CLERKSHIP ROTATION I	
CLI 80465	CLERKSHIP ROTATION II	
CLI 80470	CLERKSHIP ROTATION III	
CLI 80475	CLERKSHIP ROTATION IV	
CLI 80480	CLERKSHIP ROTATION V	
CLI 80485	CLERKSHIP ROTATION VI	
CLI 80521	SENIOR MEDICINE ROTATION I	
CLI 80522	SENIOR MEDICINE ROTATION II	
Minimum Total Credit Hours:		**175**

1 Students take 1 credit hour of CLI 80200 in either fall or spring semester.

2 Students take 18 credit hours of third-year clinical in either fall or spring semester and follow a class rotation.

3 Students are separated into groups with a different rotation each month. Students are permitted to take one clerkship month off as an elective month. CLI 80486 and CLI 80487 are elective clerkship rotations available to students who wish to gain further clinical experience on top of the required six clerkship rotations. Please note, once a student registers for these electives, the required minimum total credit hours for the student will increase by 4 credit hours for each elective. PMD 80495 may be available for students to take as an elective on top of the program requirements.

4 For the fourth-year clinical, students take courses not taken during their third-year summer term.

Program Notes

- Students placed in Pathway I (due to one failure on the American Podiatric Medical Licensing Examination, APMLE Part I) are required to take PCS 80001, increasing the minimum total credit hours by 1 credit hour. Students not taking APMLE Part I on the first attempt are also required to take this course.
- Students placed in Pathway II (due to two failures on the American Podiatric Medical Licensing Examination, APMLE Part I) are required to take PCS 80002, increasing the minimum total credit hours by 5 credit hours. Students not taking APMLE Part I on the second attempt are also required to take this course.

- GMD 80205 is an elective open to all second-year students. Please note, once students register for this course, the required minimum number of credit hours increases by one credit hour.

Progression Requirements

Students whose first semester of coursework in the D.P.M. degree is fall 2016 or later are required to meet the following minimum overall GPA during the first and second year:

- 2.500 overall GPA at the end of first year, fall semester
- 2.500 overall GPA at the end of first year, spring semester
- 2.500 overall GPA at the end of first year, summer term
- 2.500 overall GPA at the end of second year, fall semester
- 2.400 overall GPA at the end of second year, spring semester

Students falling below the minimum overall GPA following their first year (fall, spring and summer) or their second year (fall semester) are required to participate in mandatory academic counseling. Students below the minimum 2.400 overall GPA at the end of their second year (spring semester) will be academically dismissed with the right to appeal for reinstatement, provided that the student has not previously been dismissed (academic or otherwise) from the College of Podiatric Medicine.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	2.400

A candidate for the degree of Doctor of Podiatric Medicine must have:

- Maintained satisfactory academic performance with no grade below a C or S (satisfactory)
- Demonstrated clinical competence through completion of the performance objectives
- Been verified as being in good disciplinary standing
- Satisfactorily completed all academic requirements, including all courses, clinical rotations and clerkship program requirements, and the required Observed Structured Clinical Examination (OSCE)
- Fulfilled all responsibilities and financial obligations to the college and university
- Demonstrated moral and mental competency to practice podiatric medicine
- Taken and passed the American Podiatric Medical Licensing Examination (APMLE) Part I, and have taken (APMLE) Part II and released the score reports to the college

Attendance at the graduation ceremony is required for the degree. To be eligible for graduation in May, candidates must have met all of the above requirements by the conclusion of their fourth-year summer term.

All students must successfully complete the graduation requirements within six academic years of their initial matriculation. Exceptions for students with extenuating circumstances must have the approval of the Council on Podiatric Medical Education (CPME).

There is no contract stated or implied, between the college and the students that a degree will be conferred at any stated time, or at all.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major.

First Year		
Fall Semester		**Credits**
PCS 80109	HUMAN ANATOMY	6
PCS 80110	EMBRYOLOGY	2
PCS 80130	FOUNDATIONS OF LIFE SCIENCES I	6
PCS 80131	FOUNDATIONS OF LIFE SCIENCES II	6
PMD 80113	MEDICAL ETHICS	1
PMD 80114	PRINCIPLES OF MEDICAL RESEARCH	1
PMD 80117	PODIATRY, PROFESSIONALISM AND SOCIETY I	1
	Credit Hours	**23**
Spring Semester		
PCS 80124	LOWER EXTREMITY ANATOMY	8
PCS 80128	MEDICAL MICROBIO/IMMUNOLOGY	6
PCS 80132	FOUNDATIONS OF LIFE SCIENCES III	4
PCS 80133	FOUNDATIONS OF LIFE SCIENCES IV	5
	Credit Hours	**23**
Summer Term		
ORT 80131	BIOMECHANICS I	3
PMD 80132	LOWER EXTREMITY ASSESSMENT AND DIAGNOSIS	2
PMD 80133	INTRODUCTION MEDICAL IMAGING	1
	Credit Hours	**6**
Second Year		
Fall Semester		
GMD 80121	PHYSICAL ASSESSMENT AND DIAGNOSIS	3
GMD 80216	MEDICINE I	4
PCS 80218	HUMAN SYSTEMS PATHOLOGY I	8
PCS 80219	PHARMACOLOGY AND THERAPEUTICS I	4
PMD 80222	PODIATRIC MEDICAL SKILLS	1
PMD 80226	INTRODUCTION TO PODIATRIC MEDICINE AND SURGERY	4
Second-Year Clinical Option		0-1
	Credit Hours	**24**
Spring Semester		
GMD 80217	MEDICINE II	4
PCS 80228	HUMAN SYSTEMS PATHOLOGY II	8
PCS 80229	PHARMACOLOGY AND THERAPEUTICS II	4
SUR 80227	PODIATRIC MEDICINE AND SURGERY I	4
Second-Year Clinical Option		0-1
	Credit Hours	**21**
Third Year		
Fall Semester		
GMD 80314	NEUROLOGY	2
GMD 80315	DERMATOLOGY	2
GMD 80327	BEHAVIORAL MEDICINE	1
GMD 80328	WOMEN'S HEALTH	1
PMD 80318	PEDIATRICS	2
SUR 80313	PODIATRIC SURGERY	2
Third-Year Clinical Options		9
	Credit Hours	**19**
Spring Semester		
PMD 80317	PODIATRY, PROFESSIONALISM AND SOCIETY III	1
PMD 80323	PODIATRIC PUBLIC HEALTH AND LAW	2
SUR 80323	PODIATRIC SURGERY	2
SUR 80325	TRAUMATOLOGY	3
Third-Year Clinical Options		9
	Credit Hours	**17**
Summer Term		
Third-Year Summer Clinical Options		2-4
	Credit Hours	**2**
Fourth Year		
Fall Semester		
Fourth-Year Clinical Options		12-20
	Credit Hours	**20**
Spring Semester		
Fourth-Year Clinical Options		12-16
	Credit Hours	**16**
Summer Term		
PMD 80417	PODIATRY, PROFESSIONALISM AND SOCIETY IV	4
Fourth-Year Summer Clinical Options		0-4
	Credit Hours	**4**
	Minimum Total Credit Hours:	**175**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the ability to recall and apply current and emerging knowledge of human structure, function, development, pathology, pathophysiology and psychosocial development to patient care.
2. Provide effective patient-centered care that is compassionate and appropriate for prevention and treatment of medical conditions, which promotes overall health with special emphasis on the lower extremity.
3. Demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families and health professionals.
4. Demonstrate professionalism in medicine.
5. Apply scientific methods and utilize clinical and translational research to further the understanding of contemporary podiatric medicine and its application to patient care.
6. Demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call on other resources to provide optimal and cost-effective health care.
7. Demonstrate an understanding of common societal problems (e.g., issues of addiction or abuse) and their impact on patients.

Full Description

The Doctor of Podiatric Medicine degree prepares students for the podiatric medicine field. The podiatric physician is a health professional who is involved with examination, prevention, diagnosis and treatment of foot disorders by physical, medical and surgical means. A podiatric medicine doctor is trained to detect the signs of systemic disease which may appear first in the lower extremity, such as diabetes or circulatory disorders. When such diagnoses are made, the podiatric physician consults with the patient's family doctor concerning the systemic disease.

A career in podiatric medicine can include the areas of primary care, surgery, orthopedics, sports medicine, geriatrics and pediatrics.

Podiatric Medicine students have the opportunity to combine the D.P.M. degree with either the Master of Business Administration or Master of Public Health degree and double count courses toward both degrees.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

College of Public Health

College of Public Health
131 Moulton Hall
Kent Campus
330-672-6500
publichealth@kent.edu
www.kent.edu/publichealth

Undergraduate Programs

Majors

- Public Health - B.S.P.H.

Minors

- Environmental Health Sciences for Natural Science Majors
- Environmental Health Sciences for Non-Natural Science Majors
- Health Services Administration
- Health Technologies and Informatics
- Public Health

Certificates

- Community Health Worker Supervision
- Public Health

Graduate Programs

Majors

- Biostatistics - M.P.H.
- Clinical Epidemiology - M.S.
- Epidemiology - M.P.H.
- Health Policy and Management - M.P.H.
- Public Health - Ph.D.
- Social and Behavioral Sciences - M.P.H.

Certificates

- Clinical Research
- Healthcare Compliance
- LGBTQ+ Public Health

Accreditation Feedback Policy

The College of Public Health at Kent State University has been accredited by the Council on Education for Public Health (CEPH) as a school of public health. Being an accredited institution adds great value to degrees conferred and ensures a comprehensive student experience. A continual self-evaluation program is required by CEPH for accreditation. At the core of this program, it is required that the college solicit and respond to feedback from our students. Accordingly, it is an expectation of the college that students earnestly participate in providing accurate and timely feedback to the college in the form of Student Surveys of Instruction (SSI) as well as annual exit and alumni satisfaction surveys. Participation in the feedback process will assist in the College's accreditation process and will allow the administration and faculty to quickly identify and address any problems as they arise, thus enhancing the quality of the academic experience in the college.

Students who fail to complete the required surveys may be prevented from future term registration.

College of Public Health Faculty

- Alemagno, Sonia A. (2009), Professor, Ph.D., Case Western Reserve University, 1990
- Beaird, Heather (2011), Associate Professor, Ph.D., Case Western Reserve University, 2005
- Benzigar, Sasikumar (2011), Associate Professor, Ed.D., University of Cincinnati, 2014
- Bhargava, Tina D. (2012), Professor, DrPH, University of Pittsburgh, 2012
- Bhatta, Madhav P. (2009), Professor, Ph.D., University of Alabama, Birmingham, 2007
- Brewer, Thomas W. (2002), Professor, Ph.D., University at Albany-SUNY, 2003
- Chatfield, Sheryl L. (2015), Associate Professor, Ph.D., University of Mississippi, 2014
- Cheruvu, Vinay K. (2010), Associate Professor, Ph.D., Case Western Reserve University, 2012
- Eng, Abbey L. (2006), Professor, Ph.D., Bowling Green State University, 2007
- Guan, Tianyuan (2021), Assistant Professor, Ph.D., University of Cincinnati, 2021
- Hallam, Jeffrey S. (2013), Professor, Ph.D., The Ohio State University, 1995
- Hoornbeek, John A. (2006), Professor, Ph.D., University of Pittsburgh, 2004
- Jefferis, Eric S. (2002), Professor, Ph.D., University of Cincinnati, 2004
- Kenne, Deric (2011), Professor, Ph.D., University of Akron, 2010
- King, Jennifer A. (2008), Assistant Professor, Ph.D., Kent State University, 2017
- Kollin, Robert B. (2017), Lecturer, M.S., Case Western Reserve University, 2016
- Lanese, Bethany G. (2015), Associate Professor, Ph.D., Wayne State University, 2004
- Phillips, Lynette (2010), Professor, Ph.D., University of North Carolina-Chapel Hill, 2007
- Smith, Tara C. (2013), Professor, Ph.D., University of Toldeo, 2012
- Step, Mary M. (2015), Associate Professor, Ph.D., Kent State University, 1998
- Tomi, Laurel A. (2015), Associate Lecturer, B.A., Kent State University, 1986
- VanGeest, Jonathan B. (2011), Professor, Ph.D., University of Illinois at Chicago, 1998

- Woolverton, Christopher J. (1995), Professor, Ph.D., West Virginia University, 1986
- Zullo, Melissa D. (2009), Professor, Ph.D., Case Western Reserve University, 2009

Biostatistics (BST)

BST 50196 INDIVIDUAL INVESTIGATION IN BIOSTATISTICS 1-3 Credit Hours
(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to biostatistics.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BST 60010 USING R IN PUBLIC HEALTH 1 Credit Hour
(Slashed with BST 70010) Students learn the role of the computing software R for data analyses. The course covers the basics of R including how to organize and clean data and how to display data visually. Students understand how to perform descriptive and inferential statistics using R.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BST 60011 USING SAS IN PUBLIC HEALTH 1 Credit Hour
(Slashed with BST 70011) Students learn the role of the computing software SAS for data analyses. The course covers the basics of SAS, including importing data, organizing and cleaning the data and using different procedures. Students understand how to perform descriptive and inferential statistics using SAS.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BST 60012 USING EXCEL IN PUBLIC HEALTH 1 Credit Hour
(Slashed with BST 70012) An introduction to using Excel in the field of public health. Students learn the skills to analyze and present data, including using formulas, pivot tables, graphs and the data analysis toolpak.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BST 60191 VARIABLE CONTENT SEMINAR IN BIOSTATISTICS 1-3 Credit Hours
(Repeatable for credit) Seminar on current and important topics in biostatistics. Subject matter varies depending on the topic.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

BST 60192 APPLIED PRACTICE EXPERIENCE IN BIOSTATISTICS 3,6 Credit Hours
(Repeatable for credit) Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BST 60195 SPECIAL TOPICS IN BIOSTATISTICS 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in biostatistics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BST 60292 APPLIED PRACTICE EXPERIENCE IN BIOSTATISTICS II 1 Credit Hour
(Repeatable for credit) Continuing enrollment for students participating in public health activities of a public health agency, hospital or other approved organization. Students complete the field experience with joint supervision from the university and an approved organization or agency.
Prerequisite: BST 60192; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BST 62019 BIOSTATISTICS IN PUBLIC HEALTH 3 Credit Hours
This course provides graduate students with an understanding of basic statistical methods as well as the skills to perform and interpret basic statistical procedures and interpret the results. Emphasis is on principles of statistical reasoning, presentation of graphical and numerical descriptive statistics, statistical inference (estimation and hypothesis testing) and careful interpretation of results. By the end of the course, students achieve competency in applying appropriate basic statistical methods to real-time data and presenting the results appropriate for public health professionals and educated lay audiences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 62020 DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE 3 Credit Hours
(Slashed with BST 82020) This course introduces graduate students to SAS® software, reading external data into SAS software, use of SAS data step, basic SAS functions, logical data steps for data management, and different SAS procedures for creating summary reports, graphical displays, and conducting basic statistical analysis using the SAS software. SAS Lab sessions are designed to mimic real time challenges working with different kinds of data and learn how to meet such challenges. By the end of the course, students will achieve competency in proper and efficient use of SAS software.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 63012 SURVIVAL ANALYSIS IN PUBLIC HEALTH 3 Credit Hours
(Slashed with BST 83012) Introduction in survival analysis for graduate students in public health. Covers survival functions, hazard rates, types of censoring and truncation. Methods of focus include life tables, Kaplan-Meier plots, log-rank tests, Cox regression models and parametric survival models. Inference for recurrent event and competing risks models are also covered.
Prerequisite: BST 62019 and BST 63014; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 63013 EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH 3 Credit Hours
(Slashed with BST 83013) Introduces students to experimental research methods in public health settings. First introduces a number of quasi-experimental and experimental study designs, then identifies a number of statistical methods that can be used to draw correct causal inferences from the study.
Prerequisite: BST 62019 and BST 63014; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 63014 APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA 3 Credit Hours
(Slashed with BST 83014) Focuses on developing student proficiency in building and evaluating various regression models for public health studies. Topics covered include exploratory and descriptive methods, simple and multiple linear regression models, predictor selection, binary and multinomial logistic regression models, survival analysis, repeated measures and generalized linear models.
Prerequisite: BST 62019; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 70010 USING R IN PUBLIC HEALTH 1 Credit Hour
(Slashed with BST 60010) Students learn the role of the computing software R for data analyses. The course covers the basics of R including how to organize and clean data and how to display data visually. Students understand how to perform descriptive and inferential statistics using R.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BST 70011 USING SAS IN PUBLIC HEALTH 1 Credit Hour
(Slashed with BST 60011) Students learn the role of the computing software SAS for data analyses. The course covers the basics of SAS, including importing data, organizing and cleaning the data and using different procedures. Students understand how to perform descriptive and inferential statistics using SAS.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BST 70012 USING EXCEL IN PUBLIC HEALTH 1 Credit Hour
(Slashed with BST 60012) An introduction to using Excel in the field of public health. Students learn the skills to analyze and present data, including using formulas, pivot tables, graphs and the data analysis toolpak.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

BST 82020 DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE 3 Credit Hours
(Slashed with BST 62020) This course introduces graduate students to SAS® software, reading external data into SAS software, use of SAS data step, basic SAS functions, logical data steps for data management, and different SAS procedures for creating summary reports, graphical displays, and conducting basic statistical analysis using the SAS software. SAS Lab sessions are designed to mimic real time challenges working with different kinds of data and learn how to meet such challenges. By the end of the course, students will achieve competency in proper and efficient use of SAS software.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 83012 SURVIVAL ANALYSIS IN PUBLIC HEALTH 3 Credit Hours
(Slashed with BST 63012) Covers survival functions, hazard rates, types of censoring and truncation. Methods of focus include life tables, Kaplan-Meier plots, log-rank tests, Cox regression models and parametric survival models. Inference for recurrent event and competing risks models are also covered.
Prerequisite: BST 62019; and BST 63014 or BST 83014; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 83013 EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH 3 Credit Hours
(Slashed with BST 63013) Introduces students to experimental research methods in public health settings. First introduces a number of quasi-experimental and experimental study designs, then identifies a number of statistical methods that can be used to draw correct causal inferences from the study. Students are expected to develop two research proposals, first using quasi-experimental then an experimental design, and develop a statistical analysis plan for each study.
Prerequisite: BST 62019; and BST 63014 or BST 83014; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 83014 APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA 3 Credit Hours
(Slashed with BST 63014) Focuses on developing student proficiency in building and evaluating various regression models for public health studies. Topics covered include exploratory and descriptive methods, simple and multiple linear regression models, predictor selection, binary and multinomial logistic regression models, survival analysis, repeated measures and generalized linear models.
Prerequisite: BST 62019; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Environmental Health Sciences (EHS)

EHS 50060 PUBLIC HEALTH LABORATORY METHODS 3 Credit Hours
(Slashed with PH 40060) Course introduces the student to the fundamental theory and hands on use to track specimen collection and laboratory analysis. Environmental specimens are examined for their public health importance using classical and modern techniques. Students learn classical laboratory methods and their modern use in the laboratory environment. Examples include culture and microscopic identification of microorganisms, identification of disease vectors, detection of newborn disease and detection of terrorism agents.
Prerequisite: BSCI 30140 or CHEM 10062 or CHEM 10971 or PH 30006; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 1 lab
Grade Mode: Standard Letter

EHS 50102 SOLID AND HAZARDOUS WASTE MANAGEMENT 3 Credit Hours
(Slashed with PH 40102) Solid and hazardous waste programs and practices are explored. Pollution prevention, safety, sanitation practices, sustainability concepts, management and regulations pertinent to solid and hazardous waste such as RCRA are discussed and studied. Consumption, garbage handling, landfill design and disposal, sustainability concepts, reuse, recycling, composting and other waste strategies are presented. Hazardous waste and material issues throughout the environment, such as HW disposal, TSD facilities, underground storage tanks, Superfund, brownfields and related issues are introduced.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 50103 FOOD PROTECTION 3 Credit Hours
(Slashed with PH 40103) Topics surrounding foodborne disease prevention and food sanitation relative to quality control, food service and processing systems are introduced. Foodborne disease agents, microbiology, epidemiology and outbreak investigation techniques are explored. The regulatory process and agencies at the wholesale, retail and food service levels are introduced. Ohio food regulations are covered, including the Ohio Uniform Food Code. Basic preparation to conduct food serve inspections and foodborne disease investigations as part of agency regulatory programs and the opportunity to earn the National Restaurant Association ServSafe Manager certification are provided.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 50105 WATER AND WASTEWATER MANAGEMENT 3 Credit Hours
(Slashed with PH 40105) Explores issues surrounding water pollution and human health and the environmental treatment systems developed to provide safe water and sewage disposal. Private and public water and sewage systems are studied. Federal and state regulations, including the Safe Drinking Water Act and Clean Water Act, are reviewed.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 50109 LABORATORY SAFETY AND HYGIENE 3 Credit Hours
(Cross-listed with PH 40109) Basic introduction to laboratory safety, chemical hygiene, and biosafety. Includes the research compliance programs of institutions (IBC, IACUC, IRB, RSC) and the OSHA Chemical Hygiene Standard requirements and program responsibilities. General lab safety concepts are reviewed, along with chemical handling and storage, fumehoods and ventilation, hazardous waste disposal, radiation safety, and lab design. Basic principles of biosafety are covered, BSL 1-4 levels, biosafety cabinets, select agents, bloodborne pathogens, NIH Guidelines, biosecurity and animal use.
Prerequisite: Graduate standing.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

EHS 50196 INDIVIDUAL INVESTIGATION IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours
(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to environmental health sciences.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

EHS 52100 CLIMATE CHANGE AND POPULATION HEALTH 3 Credit Hours
(Slashed with PH 42100) This course reviews evidence on the rigorous scientific consensus confirming global warming and the mechanisms underlying climate change, with a focus on adverse population health impacts. Increases in the frequency and intensity of extreme weather events including heatwaves, tropical cyclones and severe storms create hazardous conditions including flooding, drought, wildfires, increases in vector-borne diseases, food and nutrition shortages, human displacement and mental health issues. Populations at increased risk are identified along with a consideration of climate ethics, justice and public health approaches used to address the population health effects. Strategies for abatement through injury and disease prevention, climate risk communication and strategies for mitigation including green energy and energy conservation are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 53009 EMERGING ENVIRONMENTAL HEALTH ISSUES AND RESPONSE 3 Credit Hours
Provides an overview of emerging environmental health issues that will impact the public's health.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 53012 OCCUPATIONAL SAFETY AND HEALTH 3 Credit Hours
Survey of major concepts and issues relating health and safety in the workplace. Emphasis is on the application of public health principles and decision-making practices used by various worker populations for the prevention of injury and disease on the job. This course will cover protective equipment, hazardous conditions, environmental toxins, risk assessment, prevention science approaches and workplace health promotion.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 53014 BUILT ENVIRONMENT AND PUBLIC HEALTH 3 Credit Hours
(Slashed with PH 43013) The impact of the built environment on human health is an issue of global importance. The focus of this course is on preventing disease and injury while improving the health of populations by looking "upstream" at the built environment or those settings designed, created and maintained by human efforts. Population health effects of community design are explored through scientific literature, and include transportation, land use, parks and green space in the context of physical activity, food environments, air and water quality, injury prevention, social capital and health equity. Students examine and use population health tools to assess the built environment and develop strategies for creating sustainable healthy places through multidisciplinary collaboration, research and policy that promotes the health of the public.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 60191 VARIABLE CONTENT SEMINAR IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Seminar on current and important topics in environmental health sciences. Subject matter varies depending on the topic.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

EHS 60192 PRACTICUM EXPERIENCE IN ENVIRONMENTAL HEALTH SCIENCES 3,6 Credit Hours
Observational and participation in public health activities of a public health agency, hospital or other approved organization. Students complete the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: Graduate standing and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EHS 60195 SPECIAL TOPICS IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in environmental health sciences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EHS 60292 APPLIED PRACTICE EXPERIENCE IN ENVIRONMENTAL HEALTH SCIENCES II 1 Credit Hour
(Repeatable for credit) Continuing enrollment for students participating in public health activities of a public health agency, hospital or other approved organization. Students complete the field experience with joint supervision from the university and an approved organization or agency.
Prerequisite: EHS 60192; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory

EHS 62018 ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH 3 Credit Hours
(Slashed with EHS 72018) Provides a comprehensive overview of core topics in environmental health as related to public health.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 63010 APPLIED RISK ASSESSMENT 3 Credit Hours
Introduces the student to environmental and occupational hazards, assessing the risks associated with hazard exposure. Standard principles of risk assessment are emphasized including methods of hazard identification and regulation, quantitative exposure measurement, dose and toxicity relationships and risk management. Analysis of public policy regulatory guidance and health advisory watchdog recommendations are evaluated.
Prerequisite: EPI 62017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 63011 APPLICATION OF RISK ANALYSIS IN ENVIRONMENTAL HEALTH 3 Credit Hours
Students are introduced to methods in risk analysis that are applied by U.S. federal, state, and local agencies in their assessment of chemical toxicants. Linkages between risk assessment, risk management, and risk communication will be studied as components of this process, along with issues and controversies in the analysis of environmental health risks.
Prerequisite: EPI 62017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 72018 ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH 3 Credit Hours
(Slashed with EHS 62018) Provides a comprehensive overview of core topics in environmental health as related to public health.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Epidemiology (EPI)

EPI 50013 CLINICAL EPIDEMIOLOGY BASICS 3 Credit Hours
(Slashed with PH 40013) Course develops an understanding of clinical research, good clinical practices, research environments and methods used in clinical research. Students gain an understanding of the use of clinical investigation, from the product development stage to the application of investigations in contract research organization. Ethical implications and regulatory issues are examined.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 50014 CLINICAL TRIALS MANAGEMENT 3 Credit Hours
(Slashed with PH 40014) Course examines the good clinical practices guidelines. Students learn how to conduct and manage clinical trials; understand clinical trials data; develop instruments and protocols; recognize quality control and data issues; know approaches to recruitment, retention and participant assessment; identify adverse events and measurement of response variables; and acquire skill in study close-out procedures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 50015 SCIENTIFIC WRITING FOR CLINICAL RESEARCH 3 Credit Hours
(Cross-listed with PH 40015) Course provides students the tools to develop proficiency in scientific reading, to conduct presentations and to demonstrate skill in scientific writing, with the goal of preparing clinical researchers to be able to communicate findings to the science community and the general population. Course includes an examination of the science literature in clinical trials research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 50017 PHARMACOEPIDEMIOLOGY 3 Credit Hours
(Cross-listed with PH 40017) Introduction to the field of pharmacoepidemiology, which uses epidemiology methods to understand medication use and distribution at the population level. Course examines risk-benefit and epidemiology approaches to examining medication use and therapeutic trials. Drug and device manufacturing to market are explored.
Prerequisite: BST 62019 and EPI 62017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 50018 REGULATORY AFFAIRS IN CLINICAL RESEARCH 3 Credit Hours
(Slashed with PH 40018) Course provides the tools for students to develop an understanding of the researcher and organization responsibility in research and development of clinical trials products. Students understand regulations from the government and industry, privacy concerns, liability and ethical issues related to clinical trials research. Examples from the field are explored in detail.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 50196 INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to epidemiology.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

EPI 52010 UNDERSTANDING THE COVID-19 PANDEMIC 3 Credit Hours
(Slashed with PH 42010) In this course, students examine the various aspects of the ongoing coronavirus pandemic. They learn foundational information in epidemiology, virology and immunology, and examine the emergence and spread of SARS-CoV-2. They learn about responses to the epidemic, including policies aimed at slowing spread, and examine aspects of diagnostics and vaccine development relevant to controlling the spread of the virus.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 53089 PLAGUES THAT SHAPED THE WORLD 3 Credit Hours
(Slashed with EPI 73089) (Cross-listed with PH 43089) Course examines the Bubonic plague, HIV/AIDS, Ebola and pandemic influenza outbreaks to introduce students to the fundamentals of public health, establishing epidemiological principles that explain how plagues erupt and propagate, decimate populations and alter cultures. Inherent in the course's discussion are the social determinants that fuel plague outbreaks and slow recovery. Examples of emerging infectious diseases and threats of bioterrorism are discussed as new plagues for which creative solutions are still required. Students take city excursions and a field trip to assess cultural changes resulting from historical plagues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 60191 VARIABLE CONTENT SEMINAR IN EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Slashed with EPI 80191) Seminar on current and important topics in epidemiology. Subject matter varies depending on the topic.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EPI 60192 APPLIED PRACTICE EXPERIENCE IN EPIDEMIOLOGY 3,6 Credit Hours
(Repeatable for credit) Observational and participation in public health activities of a public health agency, hospital or other approved organization. Students complete a field experience with joint supervision from the university and approved organization or agency.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 60195 SPECIAL TOPICS IN EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for a maximum 6 credit hours) (Slashed with EPI 80195) Special topics to sample new offerings on topics in epidemiology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EPI 60292 APPLIED PRACTICE EXPERIENCE IN EPIDEMIOLOGY II 1 Credit Hour
(Repeatable for credit) Continuing enrollment for students participating in public health activities of a public health agency, hospital or other approved organization. Students complete the field experience with joint supervision from the university and an approved organization or agency.
Prerequisite: EPI 60192; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 62017 FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY 3 Credit Hours
(Slashed with EPI 72017) Introduces principles, methods and application of epidemiology. Covers the history of epidemiology, concepts of disease causation and prevention, measures of disease frequency and excessive risk, epidemiologic study designs, causal inference, outbreak investigation and screening. Provides experience with calculation of rate standardization; measures of disease frequency, association and impact; and sensitivity and specificity of screening tests. Highlights applications of epidemiology to understanding of disease etiology, transmission, pathogenesis and prevention; evaluation and public policy development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 62028 METHODS OF EVIDENCE BASED PUBLIC HEALTH 3 Credit Hours
(Slashed with EPI 72028) Explores tools and techniques used to quantitatively determine the effectiveness of public health interventions in the social sciences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63014 EPIDEMIOLOGY OF CHRONIC DISEASES 3 Credit Hours
(Slashed with EPI 83014) With a life course approach to chronic disease epidemiology, this course focuses on cardiovascular, respiratory and cerebrovascular diseases and cancer. Health and disease are addressed from a multicausal perspective, which includes individual behaviors; psychosocial issues; and sociodemographic, biological and physiological factors. Time points for prevention and intervention are identified.
Prerequisite: EPI 62017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63015 EPIDEMIOLOGY OF INFECTIOUS DISEASES 3 Credit Hours
(Slashed with EPI 83015) Surveys the history, principles, methods and practice of infectious disease epidemiology by (1) defining and understanding infectious disease epidemiology surveys, (2) collecting and measuring surveillance data, (3) interpreting epidemiology data and (4) predicting evidence-based outcomes. Primarily a course in epidemiology, students learn some infectious disease microbiology as well.
Prerequisite: EPI 62017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63016 PRINCIPLES OF EPIDEMIOLOGIC RESEARCH 3 Credit Hours
(Slashed with EPI 83016) Course builds upon EPI 62017 to explore deeper the concepts and methods in epidemiologic research. Reviews the measures of disease frequency; association and impact; epidemiologic reasoning and causal inference; and methods and techniques for designing, implementing, analyzing and interpreting various epidemiologic study designs. Discusses advantages and limitations of various study designs. Explores threats to validity, precision and generalizability of epidemiologic studies.
Prerequisite: BST 62019 and EPI 62017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63019 EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours
(Slashed with EPI 83019) Principles of experimental designs as they apply to clinical research and clinical trials are presented at an intermediate level. Students understand randomized control trial designs and alternative designs. Study methodology, including randomization and blinding techniques, is covered. Topics include evidence-based medicine; risk prediction and risk scores; instruments and measurement; data issues; and recruitment, retention and adherence.
Prerequisite: EPI 63016; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63020 ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS 3 Credit Hours
(Slashed with EPI 83020) This advanced course focuses on why particular methods, study designs or approaches are used in particular investigative scenarios in clinical research. Students develop an advanced understanding and application of epidemiology methods in clinical research.
Prerequisite: EPI 63019; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63021 ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH 3 Credit Hours
(Slashed with EPI 83021) Introduces students to historical and contemporary ethical issues that arise during public health and clinical or biomedical research studies. Broadly covers human subjects research, the responsible conduct of research and the good clinical practice guidelines.
Prerequisite: EPI 62017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63034 LONGITUDINAL DATA ANALYSIS 3 Credit Hours
(Slashed with EPI 73034) Statistical techniques for analyzing longitudinal, or repeated measures, data. Focuses primarily on application of the various statistical models covered, with direct application illustrated using standard statistical software. Topics covered include univariate and multivariate analysis of variance for repeated measures, mixed-effects models (HLM or multilevel models), covariance pattern models, generalized estimating equations (GEE), mixed-effects logistic regression models and missing data in longitudinal studies.
Prerequisite: BST 62019 and BST 63014; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63192 RESEARCH PRACTICUM IN CLINICAL EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for credit) Research practicum allows students to gain hands-on experience conducting research in a clinical setting, such as a hospital or other approved organization. Students complete the experience under the supervision of a field preceptor and faculty member.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 63199 THESIS I 2-6 Credit Hours
Student must register for a total of 6 credit hours in the program. Student may register for 2 to 6 hours in a single semester
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 63299 THESIS II 2 Credit Hours
Thesis students must continue registration in Thesis II each semester until all degree requirements are met.
Prerequisite: EPI 63199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 72017 FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY 3 Credit Hours
(Slashed with EPI 62017) Introduces principles, methods and application of epidemiology. Covers the history of epidemiology, concepts of disease causation and prevention, measures of disease frequency and excessive risk, epidemiologic study designs, causal inference, outbreak investigation and screening. Provides experience with calculation of rate standardization; measures of disease frequency, association and impact; and sensitivity and specificity of screening tests. Highlights applications of epidemiology to understanding of disease etiology, transmission, pathogenesis and prevention; evaluation and public policy development.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 72028 METHODS OF EVIDENCE BASED PUBLIC HEALTH 3 Credit Hours
(Slashed with EPI 62028) Explores tools and techniques used to quantitatively determine the effectiveness of public health interventions in the social sciences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73025 EMERGING ISSUES IN INFECTIOUS DISEASE EPIDEMIOLOGY 3 Credit Hours
Investigates global emerging and reemerging infectious diseases. Students evaluate root causes of infectious disease emergence and predict outcomes. Data from primary literature is used to predict alternate outcomes. Specific disease models are used to evaluate and compare prevention, treatment and eradication strategies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73026 DESIGN AND IMPLEMENTATION OF HEALTH SURVEYS 3 Credit Hours
Covers survey design, variable construction, survey administration and data collection methods, variable coding and manipulation and data analysis. Students understand sampling methods and sample size. Large health surveys are discussed. Students gain practical experience through design and implementation of a health survey, which can be used to facilitate dissertation research or a publication.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73027 BIOLOGICAL BASIS OF PUBLIC HEALTH 3 Credit Hours
Integrates the sciences of biology and molecular biology into the principles and practice of public health. Implicit in this course are learning objectives that establish the ecology of infectious disease, the impact of vaccines in disease prevention and the role of environmental toxins on human health and disease. Additionally, students propose policies, regulations and legislation designed to protect human health within the realm of personalized medicine.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73034 LONGITUDINAL DATA ANALYSIS 3 Credit Hours
(Slashed with EPI 63034) Statistical techniques for analyzing longitudinal, or repeated measures, data. Focuses primarily on application of the various statistical models covered, with direct application illustrated using standard statistical software. Topics covered include univariate and multivariate analysis of variance for repeated measures, mixed-effects models (HLM or multilevel models), covariance pattern models, generalized estimating equations (GEE), mixed-effects logistic regression models and missing data in longitudinal studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73089 PLAGUES THAT SHAPED THE WORLD 3 Credit Hours
(Slashed with EPI 53089)(Cross-listed with PH 43089) Course examines the Bubonic plague, HIV/AIDS, Ebola and pandemic influenza outbreaks to introduce students to the fundamentals of public health, establishing epidemiological principles that explain how plagues erupt and propagate, decimate populations and alter cultures. Inherent in the course's discussion are the social determinants that fuel plague outbreaks and slow recovery. Examples of emerging infectious diseases and threats of bioterrorism are discussed as new plagues for which creative solutions are still required. Students take city excursions and a field trip to assess cultural changes resulting from historical plagues.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

EPI 80191 VARIABLE CONTENT SEMINAR IN EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EPI 60191) Seminar on current and important topics in epidemiology. Subject matter varies depending on the topic.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EPI 80195 SPECIAL TOPICS IN EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with EPI 60195) Special topics to sample new offerings on topics in epidemiology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EPI 80196 INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY 1-3 Credit Hours
Individual graduate investigation or research in areas related to epidemiology.
Prerequisite: Doctoral Standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

EPI 80198 DIRECTED RESEARCH IN EPIDEMIOLOGY 1-15 Credit Hours
(Repeatable for credit) Directed research or individual investigation in an area of interest and with the guidance of a Kent State faculty member.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation, Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Registration for two semesters is required. First semester dissertation work begins and continues until completion of EPI 80299 and 30 hours of total dissertation work.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Second course of dissertation sequence completing requirement of with 30 total hours of dissertation work.
Prerequisite: EPI 80199; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 83014 EPIDEMIOLOGY OF CHRONIC DISEASES 3 Credit Hours
(Slashed with EPI 63014) With a life course approach to chronic disease epidemiology, this course focuses on cardiovascular, respiratory and cerebrovascular diseases and cancer. Health and disease are addressed from a multicausal perspective, which includes individual behaviors; psychosocial issues; and sociodemographic, biological and physiological factors. Time points for prevention and intervention are identified.
Prerequisite: EPI 72017; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83015 EPIDEMIOLOGY OF INFECTIOUS DISEASES 3 Credit Hours
(Slashed with EPI 63015) Surveys the history, principles, methods and practice of infectious disease epidemiology by (1) defining and understanding infectious disease epidemiology surveys, (2) collecting and measuring surveillance data, (3) interpreting epidemiology data and (4) predicting evidence-based outcomes. Primarily a course in epidemiology, students learn some infectious disease microbiology as well.
Prerequisite: EPI 72017; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83016 PRINCIPLES OF EPIDEMIOLOGIC RESEARCH 3 Credit Hours
(Slashed with EPI 63016) Course builds upon EPI 62017 to explore deeper the concepts and methods in epidemiologic research. Reviews the measures of disease frequency; association and impact; epidemiologic reasoning and causal inference; and methods and techniques for designing, implementing, analyzing and interpreting various epidemiologic study designs. Discusses advantages and limitations of various study designs. Explores threats to validity, precision and generalizability of epidemiologic studies.
Prerequisite: BST 62019 and EPI 72017; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83017 EPIDEMIOLOGICAL ANALYSIS 3 Credit Hours
Provides practical instruction in the analysis and interpretation of data from various epidemiologic study designs, including cross-sectional, case-control and cohort studies. Reviews statistical concepts and epidemiologic studies designs; outlines a strategy for data analysis; and reviews relevant methodologic issues and applies stratified analysis methods and multivariable regression models to the studies. Develops an understanding of the underlying principles and assumptions, practical application and correct interpretation of the epidemiologic results. Provides hands-on experience on the application of epidemiologic analysis methods and presentation of the results.
Prerequisite: BST 83014 and EPI 63016; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83018 OBSERVATIONAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours
Course provides students the skills to design, conduct and perform clinical epidemiology studies using an observational design. Students understand major concepts of clinical research, develop clinical research questions, and solve clinical research problems. Topics include study design, risk, causation, exposures, bias, measurement and validity and disease prognosis.
Prerequisite: BST 62019 and EPI 72017; and doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83019 EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours
(Slashed with EPI 63019) Principles of experimental designs as they apply to clinical research and clinical trials are presented at an intermediate level. Students understand randomized control trial designs and alternative designs. Study methodology, including randomization and blinding techniques, is covered. Topics include evidence-based medicine; risk prediction and risk scores; instruments and measurement; data issues; and recruitment, retention and adherence.
Prerequisite: BST 62019 and EPI 72017; and doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83020 ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS 3 Credit Hours
(Slashed with EPI 63020) This advanced course focuses on why particular methods, study designs or approaches are used in particular investigative scenarios in clinical research. Students develop an advanced understanding and application of epidemiology methods in clinical research.
Prerequisite: EPI 83018 and EPI 83019; and doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83021 ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH 3 Credit Hours
(Slashed with EPI 63021) Introduces students to historical and contemporary ethical issues that arise during public health and clinical or biomedical research studies. Broadly covers human subjects research, the responsible conduct of research and the good clinical practice guidelines.
Prerequisite: EPI 72017; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

Health Policy and Management (HPM)

HPM 50001 SEX: A WICKED PUBLIC HEALTH PROBLEM 3 Credit Hours
(Slashed with PH 40001) Wicked problems is a term developed during the 1970s by systems thinkers and planners, Horst Rittel and Melvin Webber (1973), to describe complex social problems that are resistant to solution. The term has recently been applied to public health issues that have proven to be difficult to address and are resistant to mitigation. Sexual and reproductive health behaviors, attitudes and cultural norms often produce problems at the individual and population levels that meet the criteria for designation as wicked problems. Effectively addressing these kinds of problems requires a correct understanding and application of public health principles and practices.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 50110 INTRODUCTION TO PUBLIC MENTAL HEALTH 3 Credit Hours
(Slashed with PH 40110) This course provides a broad overview of mental health from a public health perspective. The course is an introduction to population-based (or population-level) approaches to addressing mental health and supporting wellness. More specifically, the course discusses mental health from a public health perspective, including discussion of non-clinical interventions and programs designed to improve mental health and wellness of populations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 50196 INDIVIDUAL INVESTIGATION IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours
(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to health policy and management.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

HPM 60001 ESSENTIALS OF HEALTH INSURANCE I 3 Credit Hours
This course introduces graduate students to the essentials of health insurance. Students develop a thorough understanding of the medical insurance industry. Students obtain industry knowledge resulting in their ability to interpret industry actions, reactions and transactions. In addition, they demonstrate their ability to interact with the industry as a public health professional, member of the industry or community member.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 60002 ESSENTIALS OF HEALTH INSURANCE II 3 Credit Hours
This course focuses on health insurance from a business perspective with a focus on innovation and ways to improve current processes and plans. As health insurance is an industry that has many aspects, this course places an emphasis on workplace health promotion. Concepts looked at from the perspective of workplace health can apply to many other aspects of health insurance. Throughout this course, innovation, leadership and business concepts from other industries are applied to health insurance and public health.
Prerequisite: HPM 60001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 60089 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND 1-3 Credit Hours
(Slashed with HPM 80089)(Repeatable for credit) Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, postwar trauma, tuberculosis, refugee health, non-communicable disease prevention and environmental contamination.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

HPM 60191 VARIABLE CONTENT SEMINAR IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with HPM 80191) Seminar on current and important topics in health policy and management. Subject matter varies depending on the topic.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HPM 60195 SPECIAL TOPICS IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with HPM 80195) Special topics to sample new offerings on topics in health policy and management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HPM 60392 APPLIED PRACTICE EXPERIENCE IN HEALTH POLICY AND MANAGEMENT 3,6 Credit Hours
(Repeatable for credit) Observation and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HPM 60492 APPLIED PRACTICE EXPERIENCE IN HEALTH POLICY AND MANAGEMENT II 1 Credit Hour
(Repeatable for credit) Continuing enrollment for students participating in public health activities of a public health agency, hospital or other approved organization. Students complete the field experience with joint supervision from the university and an approved organization or agency.
Prerequisite: HPM 60392; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HPM 62016 PUBLIC HEALTH ADMINISTRATION 3 Credit Hours
(Slashed with HPM 72016) Public health administration comprises efforts to improve the health of communities. Provides an overview for public health administration and practice, including organization, law, legislative relations, financing, workforce issues, leadership and surveillance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 62017 HEALTHCARE LAW AND REGULATION 3 Credit Hours
Healthcare is one of the most heavily regulated industries in the United States. In order to contain spiraling costs, the federal and state governments are focusing on individual provider conduct in the context of fraud, waste and abuse scrutiny. This course covers the underlying theories behind healthcare law and regulation as well as specific provisions affecting the organization, delivery and payment of primary health services. Administrators and clinicians gain a basic understanding of the regulatory environment and provisions impacting their practice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63003 HEALTH CARE SYSTEMS 3 Credit Hours
Provides a systems approach to delivering health care and public health services in the US. Includes an overview of public health, outpatient, inpatient, managed care, long term care and health services for special populations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63004 PUBLIC HEALTH POLICY, LAW AND ETHICS 3 Credit Hours
Provides a comprehensive review of health policymaking, public health law and ethical principles as applied to public health decision making.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63005 FINANCIAL MANAGEMENT FOR PUBLIC HEALTH ORGANIZATIONS 3 Credit Hours
Provides an overview of financial management of public health organizations. Topics include planning for public health program budgeting, understanding costs and short- and long-term financing, accountability and control, reporting results and financial statement and financial conditions analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63006 COST BENEFIT ANALYSIS IN PUBLIC HEALTH PROGRAMS 3 Credit Hours
Provides an overview of cost-benefit analysis as applied to the evaluation of public health programs. Students apply principles of cost-benefit analysis and related cost utility analysis to case studies in the public health sector.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63007 PUBLIC HEALTH PROGRAMS: PLANNING, IMPLEMENTATION AND EVALUATION 3 Credit Hours
Overview of developing, implementing and evaluating public health programs. Examines how public health programs can target different levels within a population, different determinants of health and strategies and interventions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63008 HEALTHCARE PRIVACY AND SECURITY 3 Credit Hours
Introduces students to the fundamental concerns addressed by the Health Insurance Portability and Accountability Act of 1996 (HIPAA).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63009 HEALTHCARE COMPLIANCE I 3 Credit Hours
This course provides an overview of the creation and composition of typical compliance programs as laid out in the Federal Sentencing Guidelines and other federal guidance. Students also learn about functions and roles in an organization that supports the compliance function such as senior leadership, the board of directors and compliance committee.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63010 HEALTHCARE COMPLIANCE II 3 Credit Hours
This course focuses on the compliance functions within a healthcare operation that implements, operates and evaluates the existing compliance program.
Prerequisite: HPM 63009; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63011 PUBLIC HEALTH EVALUATION METHODS 3 Credit Hours
This course provides an in-depth review of major concepts, methods and issues involved in evaluating public health programs and policy interventions. Students learn skills needed to conduct and use evaluations, with an emphasis on conceptual, methodological, organizational, political and ethical aspects associated with public health evaluation. Topics include development of evaluation questions, types of program evaluation (process, formative, impact, outcome), evaluation design (experimental, quasiexperimental and nonexperimental designs), collection of evaluation data and dissemination of evaluation results. Students gain practical experience through a series of exercises. Examples of effective methods and approaches are elaborated for multiple public health contexts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63018 FOUNDATIONS FOR EFFECTIVE PUBLIC HEALTH LEADERSHIP 3 Credit Hours
Intended to provide students with an initial exploration of the leadership practices of public health leaders with an understanding of the basic skill set necessary for successful leadership on a continuing basis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63019 WHOLE SYSTEMS APPROACHES TO LEADING ORGANIZATIONAL CHANGE IN PUBLIC HEALTH 3 Credit Hours
Intended to provide students with an initial exploration and overview of whole systems approaches to organizational change in public health settings, a more detailed working knowledge of key whole systems methodologies and a detailed working knowledge and practical experience with one of the most frequently used and favored whole systems approaches.
Prerequisite: Graduate standing.
Pre/corequisite: HPM 63018.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 63020 COMMUNITY HEALTH NEEDS ASSESSMENT 3 Credit Hours
(Slashed with HPM 73020) This course covers concepts and methods relevant to community health needs assessment, such as systems thinking; the use of quantitative and qualitative methods; primary and secondary data; and the role of community assessment in current national policy, including the Affordable Care Act, and on community health improvement. Students draw from multiple disciplines to assess health status and its determinants (social, behavioral and environmental), needs for health services and the capacity and resources of the local community. Students also learn to facilitate and evaluate the use of data for decision making by partnerships, organizations and policy makers.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 70199 PROFESSIONAL DEVELOPMENT EXPERIENCE 1 Credit Hour
Students work with faculty advisor to identify and attend at least six professional development activities that strengthen the students' understanding of professional and substantive aspects of the academic and research professions.
Prerequisite: Doctoral standing.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HPM 72016 PUBLIC HEALTH ADMINISTRATION 3 Credit Hours
(Slashed with HPM 62016) Public health administration comprises efforts to improve the health of communities. Provides an overview for public health administration and practice, including organization, law, legislative relations, financing, workforce issues, leadership and surveillance.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 72030 GRANT WRITING IN PUBLIC HEALTH 3 Credit Hours
Doctoral students should take this course at the end of the program of study. Students in this doctoral-level course for public health learn the basics of grant writing for federal (NIH) and non-federal funding agencies with a particular emphasis on the components required of most grant proposals submitted for funding. This includes rationale for seeking funds, collaborations with community organizations and working with consultants and subcontractors. Students also learn about the basic sections of grant writing such as specific aims and hypotheses, developing your literature review, background and significance, research design and methodology, developing a budget and conducting research with human subjects. Students have the opportunity to write sample grant proposals and learn about the review and scoring process and post-award grant management.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 73020 COMMUNITY HEALTH NEEDS ASSESSMENT 3 Credit Hours
(Slashed with HPM 63020) This course covers concepts and methods relevant to community health needs assessment, such as systems thinking; the use of quantitative and qualitative methods; primary and secondary data; and the role of community assessment in current national policy, including the Affordable Care Act, and on community health improvement. Students draw from multiple disciplines to assess health status and its determinants (social, behavioral and environmental), needs for health services and the capacity and resources of the local community. Students also learn to facilitate and evaluate the use of data for decision making by partnerships, organizations and policy makers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 73021 HEALTH CARE FINANCE 3 Credit Hours
Covers the financial environment of health services in the US, including accounting principles, financial statement analysis, delivery models, management control processes of budgeting and capital project analysis, managerial accounting, program development and financial plan.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 73022 STRATEGIC MANAGEMENT OF PUBLIC HEALTH ORGANIZATIONS 3 Credit Hours
Covers basic and advanced principles of strategic management of public health organizations including service area analysis, internal environment analysis, developing and evaluating strategic alternatives and quality indicators.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 73031 PUBLIC HEALTH POLICY ANALYSIS 3 Credit Hours
Provides a framework for conducting public health policy analysis. Applies concepts to case studies of health policies at the local, state and federal levels.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 80089 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND 1-3 Credit Hours
(Repeatable for credit) (Slashed with HPM 60089) Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, postwar trauma, tuberculosis, refugee health, non-communicable disease prevention and environmental contamination.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

HPM 80191 VARIABLE CONTENT SEMINAR IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with HPM 60191) Seminar on current and important topics in health policy and management. Subject matter varies depending on the topic.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HPM 80195 SPECIAL TOPICS IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours
(Slashed with HPM 60195)(Repeatable for maximum of 6 credit hours) Special topics to sample new offerings on topics in health policy and management.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HPM 80196 INDIVIDUAL INVESTIGATION IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours
Individual graduate investigation or research in areas related to health policy and management.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

HPM 80198 DIRECTED RESEARCH IN HEALTH POLICY AND MANAGEMENT 1-15 Credit Hours
(Repeatable for credit) Directed research or individual investigation for doctoral students in the Health Policy and Management concentration.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

HPM 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of Dissertation II and 30 hours of total dissertation work.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HPM 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Registration for two semesters required, first semester dissertation work beings and continues until completion of 30 hours.
Prerequisite: HPM 80199; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HPM 81000 PUBLIC HEALTH LAW AND REGULATION 3 Credit Hours
Enables students to describe, apply and explain key aspects and principles of law, regulation and policy relating to public health issues and topics. Requires students to master the content material for the course and apply it to particular topics or issues relating to public health. Students also are required to design and/or conduct a research project and explain their hypotheses, methods, findings and/or conclusions.
Prerequisite: HPM 62016; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Public Health (PH)

PH 10000 EXPLORING CAREERS IN PUBLIC HEALTH 1 Credit Hour
Provides an overview of the diverse career opportunities available in the field. Explores various public health issues from the perspectives of public health professionals from the core disciplines in public health: social behavioral sciences, environmental health, health policy and management, epidemiology and biostatistics. Students learn about how public health professionals approach issues and the types of professional roles and activities they bring to addressing each issue.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 10001 INTRODUCTION TO PUBLIC HEALTH 3 Credit Hours
An overview of the evolution and practices of the dynamic field of public health in the United States and globally. Students are introduced to the structure and functions of public health organizations and practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 10002 INTRODUCTION TO GLOBAL HEALTH (DIVG) 3 Credit Hours
An overview of the biological, social and environmental contributors to health and diseases in populations around the world, including case studies of selected infectious diseases, nutritional deficiencies and health effects of environmental change.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

PH 10003 EXPLORING CAREERS IN GLOBAL HEALTH 1 Credit Hour
Course provides students with an introduction to global health and an overview of the diverse career opportunities available in the field. The global health sector is evolving as one of the primary career destinations and is moving beyond the traditional roles of science, pharmacy, medicine and nursing; additional areas also include communications, technology, data scientists, finance, management, legal, linguistics, international relations, and most important, cross functional skills are needed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 15 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

PH 10195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for credit) Subject varies depending on the emerging issue.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PH 15092 PUBLIC HEALTH FIELD EXPERIENCE I (ELR) 1-3 Credit Hours
(Repeatable for credit) Entry-level internship experience in a public health setting under the supervision of a site preceptor and university supervisor. Students gain experience in public health work.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PH 20000 PUBLIC HEALTH PROFESSIONAL PRACTICE I 1 Credit Hour
Professional development course designed to expose future public health leaders to the diverse field of public health and develop attainable career goals. Student will begin the development of personal goals and a portfolio of work that will build during the entire program. The understanding of public health as a profession will be fostered.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 20001 ESSENTIALS OF EPIDEMIOLOGY 3 Credit Hours
Students are introduced to strategies adopted by public health professionals to study distribution and identification of important biologic, social and environmental determinants of diseases and health-related states within specific populations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 20010 INTRODUCTION TO PUBLIC HEALTH INFORMATICS 3 Credit Hours
Provides an overview of informatics principles applied in public health settings. Issues addressed include definitions, approaches, competencies, applications and the national health information network. Topical areas are digital literacy, electronic communication, system development, information use, project management, procurement, accountability, research, data standards, databases, human resource management, and confidentiality and security.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 20015 ZOMBIE OUTBREAK 3 Credit Hours
Teaches the basic survival skills necessary to protect you, your family, and the public from a variety of natural and manmade “apocalypses”. Students apply the basics of emergency Public Health management to a zombie outbreak.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 20195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for credit) Subject varies depending on the emerging issue.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PH 20392 COMMUNITY HEALTH WORKER CERTIFICATION II-INTERNSHIP (ELR) 3 Credit Hours
Internship course providing necessary contact hours for the Ohio Community Health Worker Certification.
Corequisite: PH 23000.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

PH 22001 PLAGUES AND PANDEMICS: HOW INFECTION SHAPED CULTURE AND HISTORY 3 Credit Hours
Infectious diseases continue to affect us all in the present, and plagues have shaped the course of history. From the Justinian plague in the 6th Century to the decimation of Native populations in the US by smallpox to the 1918 influenza pandemic, human history has been influenced by microbes—and our culture, in turn, can affect the generation of new plagues. This course is appropriate both for humanities majors looking for an introduction to infectious diseases as well as science majors looking to better understand infectious diseases in their historical and cultural context, and the way these diseases have (and continue to) shape history. Ultimately, students should be able to understand the basics of infectious disease epidemiology and disease control within a wide cultural and historical context. The course will encompass various topics in microbiology and infectious disease, using primarily popular non-fiction books on these subjects as sources.
Prerequisite: None.
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 23000 COMMUNITY HEALTH WORKER CERTIFICATION I 3 Credit Hours
Students are guided through the competencies of a Community Health Worker (CHW). Students are introduced to soft skills and culture including, but not limited to, basic health care, community resources, advocacy, communication and service skills related to working with communities. Lifespan development is also covered including, but not limited to, basic health information and education regarding prevention and treatment throughout the lifespan.
Prerequisite: None.
Corequisite: PH 20392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 25092 PUBLIC HEALTH FIELD EXPERIENCE II (ELR) 1-3 Credit Hours
(Repeatable for credit) Mid-level internship experience in a public health setting under the supervision of a site preceptor and university supervisor. Students gain experience in public health work.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PH 30000 PUBLIC HEALTH PROFESSIONAL PRACTICE II 1 Credit Hour
Professional development course designed to further prepare future public health leaders to the diverse field of public health. The career portfolio will be further developed. Career goals will be re-evaluated and the strategies for goal attainment reassessed. The understanding of public health as a profession will be further developed. Graduate or professional education as an option will be discussed in greater detail.
Prerequisite: PH 20000; and junior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 30002 INTRODUCTORY BIOSTATISTICS 3 Credit Hours
An introduction to statistical methodology in the field of public health. Students learn the statistical skills to read scientific articles, understand the statistical methods used and interpret the results on their own.
Prerequisite: Any Kent Core Mathematics and Critical Reasoning course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30004 PUBLIC HEALTH RESEARCH 3 Credit Hours
Approaches and steps involved in defining public health problems and conducting research about these problems. Students are introduced to how to evaluate published public health research.
Prerequisite: ENG 21011 or HONR 10297; and PH 30002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30005 SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH 3 Credit Hours
An overview of the contributions of the social and behavioral sciences to human health behavior, including application of studies in the area of health promotion, health protection and disease prevention in public health.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30006 INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY 3 Credit Hours
Introduction to the environment at risk, environmental epidemiology, environmental toxicology, environmental policy and regulation, watershed management, safe drinking water, wastewater management, vector-born and zoonotic disease, air quality, solid and hazardous waste, food protection, radiation safety and injury prevention, occupational health and safety, total worker health and the built environment.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30007 PREVENTION AND CONTROL OF DISEASES 3 Credit Hours
Provides an overview of concepts involved in biological mechanisms of disease at cell, individual and community levels, and insight into strategies used in preventing and controlling diseases at the population and/or community level within this framework.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30009 ENVIRONMENTAL HEALTH AND SAFETY REGULATIONS AND POLICY 3 Credit Hours
Develops a framework for understanding the regulatory structure of environmental and occupational health and safety regulations and policy in the U.S. Federal, state, and local levels of government are reviewed as well as major agencies and regulations.
Prerequisite: PH 30006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30012 COMMUNICABLE DISEASES 3 Credit Hours
A survey of communicable diseases of global public health significance, including the epidemiology and forensics associated with disease transmission, vaccination strategies and practices, and human responses to infectious disease. Students are introduced to infectious disease pathogens and the practices and procedures for their surveillance, handling and control.
Prerequisite: PH 20001 and 30007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30014 STRATEGIES FOR PREVENTION IN PUBLIC HEALTH 3 Credit Hours
Provides a review of population strategies for health promotion and disease prevention from a social-ecological perspective, highlighting the importance of evidence-based, equitable, and ethical approaches.
Prerequisite: PH 30007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30015 UNITED STATES HEALTH CARE SYSTEM 3 Credit Hours
Provides an overview of the U.S. healthcare delivery system, including operations, stakeholders and the role of government with a particular emphasis on public health's role in health care. Students gain an understanding of inpatient and outpatient services, the various roles of healthcare professionals, private and public financing and the impact of managed care. The primary focus is the public health system.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30020 FUNDAMENTALS OF HEALTH PRIVACY 1 Credit Hour
This course will provide an overview of compliance in healthcare privacy and security within the context of the Health Insurance Portability and Accountability Act (HIPAA). Current topics such as electronic health records and the challenges posed by social media will be explored.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 30025 FUNDAMENTALS OF HEALTHCARE COMPLIANCE 1 Credit Hour
This course will provide an overview of fraud, waste, and abuse compliance in the healthcare industry. The practical and legal basis for compliance programs will be explored as well as their creation, implementation, and maintenance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 30033 PUBLIC HEALTH POLICY AND DECISION MAKING 3 Credit Hours
An introductory survey of the formulation to implementation of public health policies for various public health issues, and the use of practical administrative tools such as strategic planning, economic evaluation and decision analysis.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30102 AIR QUALITY AND POLLUTION CONTROL 3 Credit Hours
Basic survey of air pollution and its control. The respiratory system and the bodies response to air pollutants of different types is reviewed and related illnesses such as asthma are studied. The Clean Air Act, NESHAPS and related regulations are surveyed. Ambient air quality standards, the effect of climate and other air pollution concepts are reviewed. Measurement and control methods for both particulate and gaseous contaminants are surveyed.
Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

PH 30106 ENVIRONMENTAL TOXICOLOGY 3 Credit Hours
Basic toxicological principles applied to studies of environmental health are surveyed. Basic concepts of toxicological testing, dose response, animal and other models, dose curves, LD50's, risk assessment, threshold theories, classifications of harmful effects, environmental pathways, metabolism and elimination are reviewed. Biological effects and the effect of select toxins on body systems are reviewed. Major groups of toxins and their effects are reviewed. Toxin behavior in air, water, wastewater, soil and environmental media are studied.
Prerequisite: PH 30006.
Schedule Type: Laboratory, Lecture
Contact Hours: 2.8 lecture, .2 lab
Grade Mode: Standard Letter

PH 30110 HAZARDOUS MATERIALS MANAGEMENT 3 Credit Hours
Covers the use of hazardous materials. Emphasis is on the safe management of hazardous materials in the workplace and community, their procurement, storage, regulation, pollution problems, use, release, clean up, disposal, and their control, to prevent workplace and community health and safety problems.
Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 lab
Grade Mode: Standard Letter

PH 30195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for credit) Subject varies depending on the emerging issue.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PH 32005 EMERGING ISSUES IN COMMUNITY HEALTH 3 Credit Hours
Provides students with exposure to touchstone issues in public health programming that have social and behavioral science implications. Topics reflect emergent priority areas and are expected to vary from semester to semester. Examples of current, emerging issues that may be covered include the Healthy People 2020 initiative, leading health indicators, role of CDC, state and local health departments and NGOs in promoting health behaviors, program recruitment, retention, evaluation and generalization challenges, ethical issues including informed consent and voluntary change, funding challenges for prevention programs, grant writing exposure, role of politics in public health programming, evidenced-based practices and practice-based evidence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 34001 PUBLIC HEALTH INTERVENTIONS I 3 Credit Hours
Provides an overview of the planning and development of public health interventions including environmental, social, and behavioral public health issues from a social-ecological perspective, with attention to evidence-based, theoretical, and ethical approaches.
Prerequisite: PH 30005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 34002 PUBLIC HEALTH INTERVENTIONS II 3 Credit Hours
Provides an overview of public health intervention implementation, evaluation, and sustainability, with examples of public health interventions in practice and exploration into the future of public health interventions.
Prerequisite: PH 34001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 35001 COMMUNITY-BASED PUBLIC HEALTH PRACTICE (ELR) 3 Credit Hours
Course focuses on the fundamentals of applying community engagement, organization, and development principles to create successful community public health interventions. Addresses work in at-risk and diverse communities using methods optimal for public health practice, including public health ethics, faith-based initiatives in community health, community health assessment and measurement methods, coalition building, and frameworks for developing health policy. Will also review the basic principles of health-related non-profit organization management and support.
Prerequisite: None.
Schedule Type: Lecture, Practical Experience
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PH 35005 ADVOCACY AND ACTIVISM IN PUBLIC HEALTH 3 Credit Hours
Public health advocacy and activism are areas of increasing importance for those in public health at both national and international levels because they offer more direct approaches to achieve lasting social and political change. This course provides a foundation to the theory, evidence-base and strategies that can be harnessed to bring about change to improve the lives and health of populations, and explains how activism has an essential role in public health policy and practice.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 35010 RACISM: A PUBLIC HEALTH CRISIS 3 Credit Hours
Across the US, an increasing number of communities have declared racism as a public health crisis. This declaration is not based on an isolated incident, rather, it is the acknowledgement that racism is structural and has been embedded within the institutional policies and societal norms that are present in our everyday lives. This course will: Recognize racism in the US as a significant cause of poor health, disease, and persistent dis-ease among Black Americans; Explore the relationship between racism and health through a historic accounting of social, political, economic, and environmental conditions post-slavery through current events; and, identify how, research, and advocacy can address anti-Black racism and promote health equity.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

PH 40000 PUBLIC HEALTH PROFESSIONAL PRACTICE III 1 Credit Hour
Professional development course designed to launch graduates into the workforce or graduate school. The career portfolio, resume, and cover letters will be finalized. Interviewing and application skills will be developed. Working with a College of Public Health career counselor students will develop job search strategies and begin the application process. Students continuing their education in a graduate program will work on application materials.
Prerequisite: PH 30000; and senior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 40001 SEX: A WICKED PUBLIC HEALTH PROBLEM 3 Credit Hours
(Slashed with HPM 50001) Wicked problems is a term developed during the 1970s by systems thinkers and planners, Horst Rittel and Melvin Webber (1973), to describe complex social problems that are resistant to solution. The term has recently been applied to public health issues that have proven to be difficult to address and are resistant to mitigation. Sexual and reproductive health behaviors, attitudes and cultural norms often produce problems at the individual and population levels that meet the criteria for designation as wicked problems. Effectively addressing these kinds of problems requires a correct understanding and application of public health principles and practices.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40013 CLINICAL EPIDEMIOLOGY BASICS 3 Credit Hours
(Slashed with EPI 50013) Course develops an understanding of clinical research, good clinical practices, research environments and methods used in clinical research. Students gain an understanding of the use of clinical investigation, from the product development stage to the application of investigations in contract research organization. Ethical implications and regulatory issues are examined.
Prerequisite: PH 20001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40014 CLINICAL TRIALS MANAGEMENT 3 Credit Hours
(Slashed with EPI 50014) Course examines the good clinical practices guidelines. Students learn how to conduct and manage clinical trials; understand clinical trials data; develop instruments and protocols; recognize quality control and data issues; know approaches to recruitment, retention and participant assessment; identify adverse events and measurement of response variables; and acquire skill in study close-out procedures.
Prerequisite: PH 40013.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40015 SCIENTIFIC WRITING FOR CLINICAL RESEARCH 3 Credit Hours
(Cross-listed with EPI 50015) Course provides students the tools to develop proficiency in scientific reading, to conduct presentations and to demonstrate skill in scientific writing, with the goal of preparing clinical researchers to be able to communicate findings to the science community and the general population. Course includes an examination of the science literature in clinical trials research.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40017 PHARMACOEPIDEMIOLOGY 3 Credit Hours
(Cross-listed with EPI 50017) Introduction to the field of pharmacoepidemiology, which uses epidemiology methods to understand medication use and distribution at the population level. Course examines risk-benefit and epidemiology approaches to examining medication use and therapeutic trials. Drug and device manufacturing to market are explored.
Prerequisite: PH 40013 and PH 40014.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40018 REGULATORY AFFAIRS IN CLINICAL RESEARCH 3 Credit Hours
(Slashed with EPI 50018) Course provides the tools for students to develop an understanding of the researcher and organization responsibility in research and development of clinical trials products. Students understand regulations from the government and industry, privacy concerns, liability and ethical issues related to clinical trials research. Examples from the field are explored in detail.
Prerequisite: PH 40013 and PH 40014.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40060 PUBLIC HEALTH LABORATORY METHODS 3 Credit Hours
(Slashed with EHS 50060) Course introduces the student to the fundamental theory and hands on use to track specimen collection and laboratory analysis. Environmental specimens are examined for their public health importance using classical and modern techniques. Students learn classical laboratory methods and their modern use in the laboratory environment. Examples include culture and microscopic identification of microorganisms, identification of disease vectors, detection of newborn disease and detection of terrorism agents.
Prerequisite: BSCI 30140 or CHEM 10062 or CHEM 10971 or PH 30006.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 1 lab
Grade Mode: Standard Letter

PH 40089 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, post-war trauma, tuberculosis, refugee health, non-communicable disease prevention and environmental contamination.
Prerequisite: PH 10001 and PH 10002; and junior standing; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP
Attributes: Diversity Global, Experiential Learning Requirement

PH 40092 INTERNATIONAL HEALTH PRACTICUM (ELR) 3-6 Credit Hours
(Repeatable for credit) A supervised internship in global/international health.
Prerequisite: PH 10002; and junior or senior standing.
Schedule Type: Practical Experience
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PH 40100 VECTOR-BORNE AND ZOONOTIC DISEASES (ELR) 3 Credit Hours
Presents a broad overview of major considerations related to human health and the vector-borne diseases transmitted by rodents and arthropods (insects and arachnids). Control measures, including rodent control, local mosquito control programs, and integrated pest management (IPM) concepts with safe pesticide use are reviewed. Application of FIFRA regulations are presented. An overview of issues associated with zoonotic diseases transmitted by animals, such as rabies, and their control are also included. Vector and reservoir relationships are explored.
Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PH 40102 SOLID AND HAZARDOUS WASTE MANAGEMENT 3 Credit Hours
(Slashed with EHS 50102) Solid and hazardous waste programs and practices are explored. Pollution prevention, safety, sanitation practices, sustainability concepts, management and regulations pertinent to solid and hazardous waste such as RCRA are discussed and studied. Consumption, garbage handling, landfill design and disposal, sustainability concepts, reuse, recycling, composting and other waste strategies are presented. Hazardous waste and material issues throughout the environment, such as HW disposal, TSD facilities, underground storage tanks, Superfund, brownfields and related issues are introduced.
Prerequisite: PH 30006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40103 FOOD PROTECTION (ELR) 3 Credit Hours
(Slashed with EHS 50103) Topics surrounding foodborne disease prevention and food sanitation relative to quality control, food service and processing systems are introduced. Foodborne disease agents, microbiology, epidemiology and outbreak investigation techniques are explored. The regulatory process and agencies at the wholesale, retail and food service levels are introduced. Ohio food regulations are covered, including the Ohio Uniform Food Code. Basic preparation to conduct food serve inspections and foodborne disease investigations as part of agency regulatory programs and the opportunity to earn the National Restaurant Association ServSafe Manager certification are provided.
Prerequisite: PH 30006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PH 40105 WATER AND WASTEWATER MANAGEMENT (ELR) 3 Credit Hours
(Slashed with EHS 50105) Explores issues surrounding water pollution and human health and the environmental treatment systems developed to provide safe water and sewage disposal. Private and public water and sewage systems are studied. Federal and state regulations, including the Safe Drinking Water Act and Clean Water Act, are reviewed.
Prerequisite: PH 30006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PH 40109 LABORATORY SAFETY AND HYGIENE 3 Credit Hours
(Crosslisted with EHS 50109) Basic introduction to laboratory safety, chemical hygiene, and biosafety. Includes the research compliance programs of institutions (IBC, IACUC, IRB, RSC) and the OSHA Chemical Hygiene Standard requirements and program responsibilities. General lab safety concepts are reviewed, along with chemical handling and storage, fumehoods and ventilation, hazardous waste disposal, radiation safety, and lab design. Basic principles of biosafety are covered, BSL 1-4 levels, biosafety cabinets, select agents, bloodborne pathogens, NIH Guidelines, biosecurity and animal use.
Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

PH 40110 INTRODUCTION TO PUBLIC MENTAL HEALTH 3 Credit Hours
(Slashed with HPM 50110) This course provides a broad overview of mental health from a public health perspective. The course is an introduction to population-based (or population-level) approaches to addressing mental health and supporting wellness. More specifically, the course discusses mental health from a public health perspective, including discussion of non-clinical interventions and programs designed to improve mental health and wellness of populations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40191 SEMINAR IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for credit) Seminar on current and important topics in public health. Subject matter varies depending on topic.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PH 40195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for credit)Subject varies depending on the emerging issue.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PH 40196 INDIVIDUAL INVESTIGATION IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for maximum 6 credits) Individual undergraduate investigation or research on specific public health issues.
Prerequisite: Junior or senior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PH 41000 ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT 3 Credit Hours
Entails leadership and management principles in environmental and occupational health and safety (EOHS), and helps students develop skills needed to become an effective supervisor. Issues such as regulatory structure, program and community planning, policy development, budgeting, staffing and staff development, strategic planning, training, professionalism and assessment are reviewed. Board development, dealing with difficult people and situations, legal, social, political, and economic effects on EOHS programs are dealt with. Related issues such as ethics, human resources, workers comp, court appearances, media relations and communications are reviewed.
Prerequisite: PH 30006 and 30102 and 30105 and 30106; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 41092 FIELD EXPERIENCE IN MEETING THE BASIC HEALTH AND HUMAN NEEDS (ELR) 3 Credit Hours
(Repeatable for credit) Provides practical skills in simple, affordable appropriate technologies that can offer solutions for meeting basic health and human needs in the developing world at the household and community levels. Technologies are organized into five modules: 1) food, agriculture, and nutrition; 2) water and sanitation; 3) alternative household energy; 4) primary health care; and 5) community development needs and resource assessment. All five modules cover appropriate technologies that while meeting the basic needs have significant impact on health of the individuals and communities. Principles of participatory community development and sensitivity to cross-cultural, gender, and ecological issues are emphasized throughout the training.
Prerequisite: Special approval.
Schedule Type: Field Experience
Contact Hours: 8 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PH 42010 UNDERSTANDING THE COVID-19 PANDEMIC 3 Credit Hours
(Slashed with EPI 52010) In this course, students examine the various aspects of the ongoing coronavirus pandemic. They learn foundational information in epidemiology, virology and immunology, and examine the emergence and spread of SARS-CoV-2. They learn about responses to the epidemic, including policies aimed at slowing spread, and examine aspects of diagnostics and vaccine development relevant to controlling the spread of the virus.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 42092 ENVIRONMENTAL, OCCUPATIONAL, HEALTH AND SAFETY INTERNSHIP (ELR) 4-6 Credit Hours
The purpose of the environmental and occupational health and safety internship is to supplement the student in-class learning experiences with practical hand-on skills and work practice experiences that helps them develop the environmental competencies required for success in the field.
Prerequisite: Junior or senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 13.33-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PH 42100 CLIMATE CHANGE AND POPULATION HEALTH 3 Credit Hours
(Slashed with EHS 52100) This course reviews evidence on the rigorous scientific consensus confirming global warming and the mechanisms underlying climate change, with a focus on adverse population health impacts. Increases in the frequency and intensity of extreme weather events including heatwaves, tropical cyclones and severe storms create hazardous conditions including flooding, drought, wildfires, increases in vector-borne diseases, food and nutrition shortages, human displacement and mental health issues. Populations at increased risk are identified along with a consideration of climate ethics, justice and public health approaches used to address the population health effects. Strategies for abatement through injury and disease prevention, climate risk communication and strategies for mitigation including green energy and energy conservation are examined.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 43013 BUILT ENVIRONMENT AND PUBLIC HEALTH 3 Credit Hours
(Slashed with EHS 53014) The impact of the built environment on human health is an issue of global importance. The focus of this course is on preventing disease and injury while improving the health of populations by looking "upstream" at the built environment or those settings designed, created and maintained by human efforts. Population health effects of community design are explored through scientific literature, and include transportation, land use, parks and green space in the context of physical activity, food environments, air and water quality, injury prevention, social capital and health equity. Students examine and use population health tools to assess the built environment and develop strategies for creating sustainable healthy places through multidisciplinary collaboration, research and policy that promotes the health of the public.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 43014 PUBLIC HEALTH AND MASS INCARCERATION 3 Credit Hours
This course will examine incarceration using a public health lens. Students will examine the epidemiology of mass incarceration in the U.S., infectious and chronic diseases of those incarcerated, incarceration as a self-sustaining epidemic with generations of imprisonment, access to health care of those behind bars and on release, and the contagion of punishment including collateral damage to children, families and neighborhoods. The course will conclude with a public health model for ending mass incarceration.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 43089 PLAGUES THAT SHAPED THE WORLD (DIVG) (ELR) 3 Credit Hours
(Slashed with EPI 53089 and and EPI 73089) Course examines the Bubonic plague, HIV/AIDS, Ebola and pandemic influenza outbreaks to introduce students to the fundamentals of public health, establishing epidemiological principles that explain how plagues erupt and propagate, decimate populations and alter cultures. Inherent in the course's discussion are the social determinants that fuel plague outbreaks and slow recovery. Examples of emerging infectious diseases and threats of bioterrorism are discussed as new plagues for which creative solutions are still required. Students take city excursions and a field trip to assess cultural changes resulting from historical plagues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

PH 43092 INTERNSHIP IN CLINICAL TRIALS RESEARCH (ELR) 3-6 Credit Hours
The internship will place students in a clinical trials setting (e.g., contract research organization, hospital, or academic setting) where they can gain hands on experience conducting clinical trials and clinical research. The internship is 300 hours and can be taken in the last one to two semesters. The purpose of the internship is to provide the student with practical experiences that will make them marketable for a position in clinical research upon graduation.
Prerequisite: PH 40013 and PH 40014.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PH 44000 HEALTH DISPARITIES (DIVD) (WIC) 3 Credit Hours
Understanding the factors involved in health disparities at the national and global level, and the impact of health disparities on public health.
Prerequisite: ENG 21011 or HONR 10297; and 15 credit hours of public health courses; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Writing Intensive Course

PH 44003 ENVIRONMENTAL HEALTH ISSUES IN LOW- AND MIDDLE-INCOME COUNTRIES 3 Credit Hours
Covers the important environmental health issues of concerns in low- and middle-income countries and appropriate intervention strategies. Topics include clean drinking water and sanitation, indoor air pollution, outdoor air pollution, environmental management, sustainability and health.
Prerequisite: Public health or anthropology major; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44004 GLOBAL HEALTH IMMERSION: LATIN AMERICA 3 Credit Hours
The principal objective of this summer intersession course is to immerse students into the history, culture and public health systems of Latin American countries Colombia Ecuador. Students will have the opportunity to visit major cities, i.e., Cali, Colombia, and Quito, Ecuador, rural areas, and well-known tourist destinations (Cartagena, Colombia, Otavalo, Ecuador). Students will gain an understanding of current scientific research on tropical diseases of local public health relevance, such as malaria. The course will focus on the basic biology of disease, mechanisms of transmission (epidemiology), and efforts to develop vaccines against malaria. The course is designed primarily for sophomores, juniors and seniors who are public health, nursing, or biological science majors. Master's level students will also be accepted. Knowledge of basic Spanish language is useful but not necessary.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44005 LEGAL ASPECTS OF HEALTH SERVICES MANAGEMENT 3 Credit Hours
Provides an overview of legal and regulatory essentials in health services management. Provides a historical perspective on legal aspects of health care as well as an introduction to law, tort law, criminal aspects, contracts, civil procedure and trial practice as related to health care. Students examine how liability impacts corporate structures, health departments and health care professionals and examine issues related to patient consent, legal reporting requirements, labor relations and patient rights.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44010 PUBLIC HEALTH PLANNING AND FINANCE 3 Credit Hours
Introduces students to business planning of health services. Students obtain skills in public health financial decision-making, including general principles of public health accounting, budgeting and financial planning.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44015 PUBLIC HEALTH MANAGEMENT 3 Credit Hours
Provides an overview of management and leadership concepts, principles and practice as applied to public health management. Students learn basic skills in team-building, developing board relationships, strategic planning, fiscal management, marketing, conflict resolution and negotiation in healthcare management. Coursework integrates principles of ethics and professionalism, effective communication, managing complex and culturally diverse workplaces and the changing role of public health managers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44020 PUBLIC HEALTH ETHICS IN PRACTICE, POLICY AND RESEARCH 3 Credit Hours
Provides an introduction to public health ethics, including the key foundations, concepts and frameworks for evaluating ethical issues in the public health setting.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44025 PRINCIPLES OF PUBLIC HEALTH LEADERSHIP 3 Credit Hours
Designed to introduce students to skill-sets and leadership practices necessary for successful public health leadership, with an emphasis on leading positive and sustainable change in real world situations. It also familiarizes students with key aspects of partnership building and advocacy for the purposes of improving health. Particular stills include coalition/partnership development, health advocacy, team building, mentoring and leadership.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44092 INTERNSHIP IN PUBLIC HEALTH (ELR) 3-6 Credit Hours
(Repeatable for credit) Capstone internship experience in a public health setting under the supervision of a site preceptor and university supervisor. Students gain experience in public health work.
Prerequisite: Senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PH 45092 SERVICE LEARNING PRACTICUM IN COMMUNITY-BASED PUBLIC HEALTH (ELR) 3 Credit Hours
This course is designed to provide an opportunity for students to engage in a variety of public health settings under the supervision of faculty. The practicum experience is focused on developing skills needed to implement change to improve population health, providing a setting in which students may integrate and apply the skills and knowledge acquired through their coursework. Students will be exposed to some of the benefits and challenges encountered by public health professionals on a routine basis.
Prerequisite: Junior or senior standing.
Corequisite: PH 35001.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PH 49000 CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR) 3 Credit Hours
Case studies of various strategies used in addressing various public health issues are discussed within an evaluative framework.
Prerequisite: 21 credit hours of public health courses; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PH 60172 PRACTICUM SEMINAR IN PUBLIC HEALTH 1 Credit Hour
(Repeatable 6 times for credit) Seminar component of the Practicum Experience; course must be taken at the same time as the Practicum Experience; students prepare a final portfolio and seminar presentation integrating theory and practice.
Prerequisite: Graduate standing.
Corequisite: PH 60192.
Schedule Type: Lecture
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PH 60192 PRACTICUM EXPERIENCE 5 Credit Hours
(Repeatable for credit) Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: Graduate standing.
Corequisite: PH 60172.
Schedule Type: Practical Experience
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PH 61199 INTEGRATIVE LEARNING EXPERIENCE 1 Credit Hour
Students complete an integrative learning experience that demonstrates a synthesis of foundational and concentration competencies. Students, in consultation with faculty, select foundational and concentration-specific competencies appropriate to the student's educational and professional goals.
Prerequisite: 30 credit hours of Biostatistics (BST) or Environmental Health Sciences (EHS) or Epidemiology (EPI) or Health Policy and Management (HPM) or Social and Behavioral Sciences (SBS) courses; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PH 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Registration for two semesters required, first semester dissertation work beings and continues until completion of 30 hours.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

PH 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met.
Prerequisite: Doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Social and Behavioral Sciences (SBS)

SBS 50196 INDIVIDUAL INVESTIGATION IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
(Repeatable for credit) Individual graduate investigation or research in areas related to social and behavioral sciences.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

SBS 60002 QUANTITATIVE METHODS IN SOCIAL AND BEHAVIORAL SCIENCES 3 Credit Hours
Introduces basic quantitative methods used in social and behavioral scientific research. First we focus on the measurement of socio-behavioral phenomena and the relationship between measurement and statistics. Next, we examine the interrelated roles of scientific theory and the design of socio-behavioral research studies. Last, we focus on building appropriate multiple linear regression and or analysis of variance statistical models to provide valid analysis of data collected in socio-behavioral research.
Prerequisite: BST 62019; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 60020 PROGRAM EVALUATION II: APPLICATION IN THE REAL WORLD 3 Credit Hours
(Slashed with SBS 80020) This course provides students with a more in-depth examination of program evaluation for public health professionals and the opportunity to apply their evaluation knowledge and skills to an existing health intervention. The content delves deeply into formative and summative evaluation, including theoretical underpinnings, professional standards, research design and data collection and analysis. Students are required to apply this knowledge to a selected program and produce an evaluation proposal acceptable for submission to a funding agency.
Prerequisite: HPM 63011; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 60021 SOCIAL AND BEHAVIORAL SCIENCE THEORIES 3 Credit Hours
Examines fundamental social and behavioral science theoretical frameworks that explain health behaviors with an emphasis on application through universal prevention approaches to inform both research and program evaluation designs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 60030 CODING FOR QUALITATIVE RESEARCH 1 Credit Hour
(Slashed with SBS 80030) The purpose of this course is to provide students with a brief but thorough overview of the basic process of coding text-based, unstructured data for qualitative research projects. Focus is on coding for descriptive or basic qualitative research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 15 lecture
Grade Mode: Standard Letter

SBS 60040 TRANSCRIBING INDIVIDUAL AND GROUP INTERVIEWS FOR QUALITATIVE RESEARCH 1 Credit Hour
(Slashed with SBS 80040) The purpose of this course is to provide students an overview of, and applied practice in transcribing audio-recorded interview data as preparation for qualitative analysis techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 15 lecture
Grade Mode: Standard Letter

SBS 60191 VARIABLE CONTENT SEMINAR IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Seminar on current and important topics in social and behavioral sciences. Subject matter varies depending on the topic.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SBS 60195 SPECIAL TOPICS IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours)Special topics to sample new offerings on topics in social and behavioral sciences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SBS 60392 APPLIED PRACTICE EXPERIENCE IN SOCIAL AND BEHAVIORAL SCIENCES 3,6 Credit Hours
(Repeatable for credit) Observation and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 9-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SBS 60492 APPLIED PRACTICE EXPERIENCE IN SOCIAL AND BEHAVIORAL SCIENCES II 1 Credit Hour
(Repeatable for credit) Continuing enrollment for students participating in public health activities of a public health agency, hospital or other approved organization. Students complete the field experience with joint supervision from the university and an approved organization or agency.
Prerequisite: SBS 60392; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SBS 63008 GRANT WRITING IN SOCIAL AND BEHAVIORAL SCIENCES 3 Credit Hours
Students learn the basics of grant writing for federal and non-federal funding agencies with a particular emphasis on the components of most proposals for funding. This includes rationale for seeking funds, collaborations with community organizations and working with consultants and subcontractors. Students also learn about the basic sections of grant writing such as specific aims and hypotheses, developing a literature review, background and significance, research design and methodology, developing a budget and conducting research with human subjects. Students have an opportunity to write sample grant proposals and learn about the review and scoring process and post-award grant management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 63010 QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH 3 Credit Hours
(Slashed with SBS 83010) In this course, students will be guided through exploration of the uses and value of qualitative approaches to research with humans through a combination of resource review and guided applied practice. Students will be provided with information about various methodologies that comprise qualitative inquiry, and will engage in practice efforts to analyze provided data, and to assess the quality of research reports.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 63011 QUALITATIVE DATA ANALYSIS 3 Credit Hours
(Slashed with SBS 83011) Students will be introduced to the process and goals of qualitative data analysis relevant to research design and study purpose, and will be provided opportunities to conduct coding and other types of analysis of qualitative data using both computer assisted and manual processes. Students will focus on descriptive or generic approaches for both qualitative and mixed methods research. Students will additionally learn about and be provided opportunities for guided practice in quality control measures that include creation of an audit trail, "member checking," composition of analytic memos, and other forms of researcher initiated documentation.
Prerequisite: SBS 63010 or special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 63030 SEMINAR IN SOCIAL AND BEHAVIOR SCIENCES 3 Credit Hours
Explores case studies in the social and behavioral sciences on topics that address the leading health indicators including substance use (alcohol, tobacco and other drugs), obesity (physical activity and nutrition), HIV and STIs, mental health, injury, immunization, access to healthcare and social determinants of health.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SBS 64600 EMERGING ISSUES IN LGBTQ+ PUBLIC HEALTH PRACTICE 3 Credit Hours
This course is an overview of emerging issues and their related challenges in the field of LGBTQ+ public health practice. In particular, this course focuses on emerging LGBTQ+ public health issues, with special emphasis on several current public health topics. Lectures, reading assignments, videos, assignments and individual projects are used to introduce students to the diversity and complexity of emerging public health issues and challenges associated with addressing emerging public health issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 64630 SEXUAL ORIENTATION AND GENDER IDENTITY IN PUBLIC HEALTH PRACTICE 3 Credit Hours
This course introduces students to the diverse concepts of sexual orientation and gender identity through the lens of public health practice. The course prepares public health leaders and clinical practitioners to think critically about the unique health concerns and inherent systems of homophobia and heterosexism that negatively impact the health of the LGBTQ+ community and how to navigate LGBTQ+ public health practice to make positive community health change. Lectures, reading assignments, videos, assignments and individual projects are used to introduce students to the diversity and complexity of emerging public health issues and the challenges associated with addressing emerging public health issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 64634 SOCIAL DETERMINANTS OF HEALTH BEHAVIORS 3 Credit Hours
(Slashed with SBS 74634) Overviews the social determinants of health and dynamic interplay between individual behaviors and community structures (systems orientation), including public policy, social and built environments, commercial messages, access to services, cultural norms, psychosocial hazards and poverty as causal effects that either provide opportunity or constraints to health. Also examines systems approaches to preventing public health threats from issues including substance use (alcohol, tobacco and other drugs), physical inactivity, poor dietary practices, unsafe sexual behaviors, violence and injury and mental health.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 64700 COMMUNITY-BASED SUBSTANCE ABUSE PREVENTION FOR PUBLIC HEALTH PROFESSIONALS 3 Credit Hours
This course provides foundational knowledge for substance abuse prevention. In addition, this course enhances the knowledge and skills of public health professionals to enable them to implement evidence-based substance use prevention interventions and policies. The primary emphasis is on evidence-based interventions, policies and implementation quality and sustainability.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 64701 COMMUNITY-BASED PUBLIC HEALTH IMPLEMENTATION SYSTEMS 3 Credit Hours
This course focuses on public health prevention science and its application to the implementation of substance use interventions. The content focuses on community systems for addressing substance use problems that affect whole communities. These community systems incorporate evidence-based prevention interventions at various levels of influence within a socio-ecological perspective. Students will examine the development of community organizations that come together to address specific problems, and how they network and integrate with existing organizations that provide community services. The content draws from the International Standards on Drug Use Prevention that were published by the United Nations Office on Drugs and Crime (2013; 2015) and the European Drug Prevention Quality Standards published by the European Monitoring Centre on Drugs and Drug Addiction (2011). Primary emphasis is on evidence-based interventions and policies and on implementation quality and sustainability.
Prerequisite: SBS 64700; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 65010 RACISM: A PUBLIC HEALTH CRISIS 3 Credit Hours
Across the US, an increasing number of communities have declared racism as a public health crisis. This declaration is not based on an isolated incident, rather, it is the acknowledgement that racism is structural and has been embedded within the institutional policies and societal norms that are present in our everyday lives. This course will: Recognize racism in the US as a significant cause of poor health, disease, and persistent dis-ease among Black Americans; Explore the relationship between racism and health through a historic accounting of social, political, economic, and environmental conditions post-slavery through the current events of 2020; and, identify how, research, and advocacy can address anti-Black racism and promote health equity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 73018 THEORIES OF PREVENTION SCIENCE 3 Credit Hours
Provides a background and theoretical review of prevention science as a multi-disciplinary field focusing on systematic inquiry on health behaviors including substance use (alcohol, tobacco and other drugs), physical activity, dietary practices, mental health, violence and injury and sexual behaviors.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 73019 EVALUATION RESEARCH METHODS IN PREVENTION SCIENCE 3 Credit Hours
This course examines the methods used by prevention science researchers to determine the effectiveness of public health programs. Focus is on advanced formative, process, impact and outcome evaluation methods. Qualitative and quantitative analysis techniques used for assessing program process and effects are discussed in the context of research evaluation.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 73020 ADVANCED RESEARCH METHODS IN PREVENTION SCIENCE 3 Credit Hours
Focuses primarily on advanced quantitative methods in the application of prevention science.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 74634 SOCIAL DETERMINANTS OF HEALTH BEHAVIORS 3 Credit Hours
(Slashed with SBS 64634) Overviews the social determinants of health and dynamic interplay between individual behaviors and community structures (systems orientation), including public policy, social and built environments, commercial messages, access to services, cultural norms, psychosocial hazards and poverty as causal effects that either provide opportunity or constraints to health. Also examines systems approaches to preventing public health threats from issues including substance use (alcohol, tobacco and other drugs), physical inactivity, poor dietary practices, unsafe sexual behaviors, violence and injury and mental health.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 80020 PROGRAM EVALUATION II: APPLICATION IN THE REAL WORLD 3 Credit Hours
(Slashed with SBS 60020) This course provides students with a more in-depth examination of program evaluation for public health professionals and the opportunity to apply their evaluation knowledge and skills to an existing health intervention. The content delves deeply into formative and summative evaluation, including theoretical underpinnings, professional standards, research design and data collection and analysis. Students are required to apply this knowledge to a selected program and produce an evaluation proposal acceptable for submission to a funding agency.
Prerequisite: HPM 63011; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 80030 CODING FOR QUALITATIVE RESEARCH 1 Credit Hour
(Slashed with SBS 60030) The purpose of this course is to provide students with a brief but thorough overview of the basic process of coding text-based, unstructured data for qualitative research projects. Focus is on coding for descriptive or basic qualitative research; other methodologies are reviewed based on student needs.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 15 lecture
Grade Mode: Standard Letter

SBS 80040 TRANSCRIBING INDIVIDUAL AND GROUP INTERVIEWS FOR QUALITATIVE RESEARCH 1 Credit Hour
(Slashed with SBS 60040) The purpose of this course is to provide students an overview of, and applied practice in transcribing audio-recorded interview data as preparation for qualitative analysis techniques, using both content-focused and conversation-analytic approaches.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 15 lecture
Grade Mode: Standard Letter

SBS 80100 EMERGING ISSUES IN PREVENTION SCIENCE 3 Credit Hours
Survey of relevant challenges and issues facing prevention science researchers.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 80191 VARIABLE CONTENT SEMINAR IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Seminar on current and important topics in social and behavioral sciences. Subject matter varies depending on the topic.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SBS 80195 SPECIAL TOPICS IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in social and behavioral sciences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SBS 80196 INDIVIDUAL INVESTIGATION IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
Individual graduate investigation or research in areas related to social and behavioral sciences.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

SBS 80198 DIRECTED RESEARCH IN PREVENTION SCIENCE 1-6 Credit Hours
(Repeatable for credit) Directed research or individual investigation for doctoral students.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

SBS 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of Dissertation II and 30 hours of total dissertation work.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SBS 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Second course of dissertation sequence completing requirement of with 30 total hours of dissertation work.
Prerequisite: SBS 80199; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SBS 83010 QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH 3 Credit Hours
(Slashed with SBS 63010) In this course, students will be guided through exploration of the uses and value of qualitative approaches to research with humans through a combination of resource review and applied practice. Students will be provided with information about various methodologies that comprise qualitative inquiry, and will engage in practice efforts to gather, process, and analyze data, and to assess the quality of research reports.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 83011 QUALITATIVE DATA ANALYSIS 3 Credit Hours
(Slashed with SBS 63011) Students will be introduced to the process and goals of qualitative data analysis relevant to research design and study purpose, and will be provided opportunities to conduct coding and other types of analysis of qualitative data using both computer assisted and manual processes. Qualitative approaches potentially considered in this course include grounded theory, phenomenology, descriptive or generic approaches, content analysis, mixed methods, and others depending on needs and interests of students in the class. Students will additionally learn about and practice quality control measures that include creation of an audit trail, "member checking," composition of analytic memos, and other forms of researcher initiated documentation.
Prerequisite: SBS 83010; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Biostatistics - M.P.H.

College of Public Health
www.kent.edu/publichealth

About This Program

Explore Kent State University's STEM-designated Master of Public Health program in Biostatistics, designed to equip students with the statistical tools necessary for advancing public health research and policy. Dive into the intricacies of data analysis, epidemiology and research methodology, empowering you to make meaningful contributions to improving community health outcomes. Read more...

Contact Information

- **Lynette Phillips** | lphill20@kent.edu | 330-672-6324
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Mostly online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- $92,270 potential earnings

Accreditation

The M.P.H. degree in Biostatistics is accredited by the Council on Education for Public Health (CEPH).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Résumé
- Two letters of recommendation
- English Language Proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 15 (international student)
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Rolling admissions (domestic student)
- **Spring Semester**
  - Priority deadline: August 15 (international student)
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Rolling admissions (domestic student)
- **Summer Term**
  - Rolling admissions (domestic student)

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BST 62019	BIOSTATISTICS IN PUBLIC HEALTH	3
BST 63012	SURVIVAL ANALYSIS IN PUBLIC HEALTH	3
BST 63013	EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH	3
BST 63014	APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA	3
EHS 62018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	3
EPI 62017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY	3
EPI 63016	PRINCIPLES OF EPIDEMIOLOGIC RESEARCH	3
EPI 63034	LONGITUDINAL DATA ANALYSIS	3
HPM 62016	PUBLIC HEALTH ADMINISTRATION	3
HPM 63020	COMMUNITY HEALTH NEEDS ASSESSMENT	3
SBS 64634	SOCIAL DETERMINANTS OF HEALTH BEHAVIORS	3
Major Electives, choose from the following: [1]		9
BST 60010	USING R IN PUBLIC HEALTH	
BST 60011	USING SAS IN PUBLIC HEALTH	
BST 60012	USING EXCEL IN PUBLIC HEALTH	
BST 62020	DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE	
EPI 50017	PHARMACOEPIDEMIOLOGY	
EPI 50018	REGULATORY AFFAIRS IN CLINICAL RESEARCH	
EPI 63014	EPIDEMIOLOGY OF CHRONIC DISEASES	
EPI 63015	EPIDEMIOLOGY OF INFECTIOUS DISEASES	
EPI 63019	EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH	
EPI 63020	ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS	
Any Graduate course (50000 or 60000 level) with advisor approval		
Culminating Requirement		
BST 60192	APPLIED PRACTICE EXPERIENCE IN BIOSTATISTICS [2]	3
PH 61199	INTEGRATIVE LEARNING EXPERIENCE	1
Minimum Total Credit Hours:		**46**

[1] Students must consult with their advisor prior to registering for an online elective course.

[2] It is expected that students enrolled in BST 60192 who do not complete the course in one term will continuously register for BST 60292 each semester, until all requirements have been met. Credit hours for BST 60292 do not apply to the minimum 46 credit hours for the degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Applied practice experience placement at an approved public health agency under the guidance of a qualified preceptor (150 or 300 contact hours).
- Final portfolio/report and a presentation integrating theory and practice.
- Participation in at least one approved interprofessional education event (IPE); IPE requires students to participate at a specific time/date to be determined in consultation with the student's advisor.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

Evidence-based Approaches to Public Health

1. Apply epidemiological methods to the breadth of settings and situations in public health practice.
2. Select quantitative and qualitative data collection methods appropriate for a given public health context.
3. Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate.
4. Interpret results of data analysis for public health research, policy or practice.

Public Health and Health Care Systems

1. Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings.
2. Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels.

Planning and Management to Promote Health

1. Assess population needs, assets and capacities that affect communities' health.
2. Apply awareness of cultural values and practices to the design or implementation of public health policies or programs.
3. Design a population-based policy, program, project or intervention.
4. Explain basic principles and tools of budget and resource management. Select methods to evaluate public health programs.

Policy in Public Health

1. Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence.
2. Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes.
3. Advocate for political, social or economic policies and programs that will improve health in diverse populations.
4. Evaluate policies for their impact on public health and health equity.

Leadership

1. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.

2. Apply negotiation and mediation skills to address organizational or community challenges.

Communication

1. Select communication strategies for different audiences and sectors.
2. Communicate audience-appropriate public health content, both in writing and through oral presentation.
3. Describe the importance of cultural competence in communicating public health content.

Interprofessional Practice

1. Perform effectively on interprofessional teams.

Systems Thinking

1. Apply systems thinking tools to a public health issue.

Full Description

The Master of Public Health degree in Biostatistics prepares students in the quantitative science of health data collection, storage, retrieval, analysis and interpretation. Graduates are equipped to use statistical methods to design and analyze health-related surveys and experiments for improving health. The college's faculty research interests include applying biostatistical analysis to understand critical health problems.

Graduates in biostatistics are in demand at hospitals, pharmaceutical companies, state and local health departments, federal health agencies and biotechnology companies to analyze the effectiveness of new drugs and interventions, identify risk factors for disease and develop effective prevention strategies.

Clinical Epidemiology - M.S.

College of Public Health
www.kent.edu/publichealth

About This Program

The Master of Science degree in Clinical Epidemiology is a STEM-designated advanced degree that prepares students in the epidemiological and biostatistical methods related to clinical trials and clinical research. Students learn advanced methods of observational and experimental study designs and are able to understand disease prevention, development, prognosis and treatment. In addition, students master and are able to apply good clinical practices, clinical trial design and management, statistical analysis, study monitoring, pharmaceutical research and regulations related to clinical research.

Contact Information

- **College of Public Health Dean's Office** | CPHgradapps@kent.edu | 330-672-6500
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Medical scientists, except epidemiologists

- 6.1% faster than the average
- 138,300 number of jobs
- $91,510 potential earnings

Accreditation

The M.S. degree in Clinical Epidemiology is accredited by the Council on Education for Public Health (CEPH).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Résumé
- Three letters of recommendation *(starting with the spring 2026 admission term, two letters of recommendation are required)*
- English Language Proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

Applicants to the program who have limited clinical or science backgrounds may be advised to take additional coursework to prepare them for the field. Determinations will be made by the admissions committee when the student is admitted conditionally to the program.

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 15 (international student)
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Rolling admissions (domestic student)
- **Spring Semester**
  - Priority deadline: August 15 (international student)
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Rolling admissions (domestic student)

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BST 62019	BIOSTATISTICS IN PUBLIC HEALTH	3
BST 63013	EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH	3
BST 63014	APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA	3
EPI 62017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY	3
EPI 63016	PRINCIPLES OF EPIDEMIOLOGIC RESEARCH	3
EPI 63019	EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH	3
EPI 63020	ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS	3
EPI 63021	ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH	3
or HPM 62017	HEALTHCARE LAW AND REGULATION	
or PHIL 50005	HEALTH CARE ETHICS	
Major Electives, choose from the following:		6-9
BST 60010	USING R IN PUBLIC HEALTH	
BST 60011	USING SAS IN PUBLIC HEALTH	
BST 60012	USING EXCEL IN PUBLIC HEALTH	
BST 62020	DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE	
EPI 50015	SCIENTIFIC WRITING FOR CLINICAL RESEARCH	
EPI 50017	PHARMACOEPIDEMIOLOGY	
EPI 50018	REGULATORY AFFAIRS IN CLINICAL RESEARCH	
EPI 50196	INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY	
EPI 63014	EPIDEMIOLOGY OF CHRONIC DISEASES	
EPI 63015	EPIDEMIOLOGY OF INFECTIOUS DISEASES	
Culminating Requirement		
Choose from the following: [1]		3-6
EPI 63192	RESEARCH PRACTICUM IN CLINICAL EPIDEMIOLOGY	
EPI 63199	THESIS I	
Minimum Total Credit Hours:		**36**

[1] All students will be required to present their thesis or research-based practicum to the College of Public Health at a presentation day, either in person or using videoconferencing technology. Students choosing a 3-credit hour research practicum will take 9 credit hours of electives. Students choosing a 6-credit hour thesis will take 6 credit hours of electives.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Some students may be required to take science-based courses in addition to the requirements for the degree and, therefore, will graduate with more than the listed credit hours.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Conduct patient-oriented research to understand and modify health outcomes.
2. Design and carry out epidemiologic studies.
3. Analyze clinical data and understand the sources, strengths and limitations of patient data.
4. Design and perform clinical trials.
5. Interact with human subjects and describe prognosis, therapies and outcomes.

Clinical Research - Graduate Certificate

College of Public Health
www.kent.edu/publichealth

About This Program

The Clinical Research certificate is ideal for individuals with clinical experience or background who want to learn more about carrying out clinical research studies. With a 9.3% increase in job postings for clinical research positions in the last three years, and 14,607 nationwide job openings for clinical research coordinators, now is the time to gain the knowledge and skills needed to excel in this exciting field. Read more...

Contact Information

- **Karen Baker** | kbaker80@kent.edu | 330-672-2845
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
  - In person

- **Location**
  - Kent Campus

Examples of Possible Careers

- Clinical research associate
- Clinical research coordinator
- Clinical trial assistant

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
Certificate Electives, choose from the following:		12
BST 60010	USING R IN PUBLIC HEALTH	
BST 60011	USING SAS IN PUBLIC HEALTH	
BST 60012	USING EXCEL IN PUBLIC HEALTH	
BST 62019	BIOSTATISTICS IN PUBLIC HEALTH	
BST 63013	EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH	
EPI 50013	CLINICAL EPIDEMIOLOGY BASICS	
EPI 50014	CLINICAL TRIALS MANAGEMENT	
EPI 50017	PHARMACOEPIDEMIOLOGY	
EPI 50018	REGULATORY AFFAIRS IN CLINICAL RESEARCH	
EPI 62017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY	
EPI 63016	PRINCIPLES OF EPIDEMIOLOGIC RESEARCH	
EPI 63019	EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH	
EPI 63021	ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH	
EPI 63192	RESEARCH PRACTICUM IN CLINICAL EPIDEMIOLOGY	
HPM 63006	COST BENEFIT ANALYSIS IN PUBLIC HEALTH PROGRAMS	
HPM 63008	HEALTHCARE PRIVACY AND SECURITY	
SBS 63010	QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH	
SBS 63011	QUALITATIVE DATA ANALYSIS	
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Conduct patient-oriented research to understand and modify health outcomes.
2. Carry out clinical studies and clinical trials.
3. Describe clinical data and understand the sources, strengths and limitations of patient data.
4. Determine the methods and procedures to carrying out clinical studies.
5. Interact with human subjects and describe prognosis, therapies and outcomes.
6. Describe management of clinical studies.
7. Describe regulatory affairs related to clinical trials.
8. Discuss Health Insurance and Portability and Accountability Act (HIPAA).
9. Identify good clinical practices.

Full Description

The Clinical Research graduate certificate is a flexible program that is designed for students with different goals and needs for advancing their understanding of clinical research methods. Students in the program choose from courses in research methods, biostatistics or health policy and have the option to complete a research practicum. This certificate is appropriate for a wide range of individuals, including clinicians who need advanced training in research methods and those who are seeking credentials to move into clinical research positions.

Students may apply the courses in the certificate toward a graduate degree in the College of Public Health.

Environmental Health Sciences for Natural Science Majors - Minor

College of Public Health
www.kent.edu/publichealth

About This Program

Our Environmental Health Sciences for Natural Science Majors minor equips you with the knowledge and skills needed to understand and mitigate the impact of environmental factors on human health. With experienced faculty, cutting-edge research opportunities and a focus on hands-on learning, this program prepares you for a career in this critical field. Enroll now and make a difference in the health of our planet and its inhabitants. Read more...

Contact Information

- **Gretchen Thomas** | gthoma33@kent.edu | 330-672-6528
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Kent Campus

Admission Requirements

Admission to this minor is selective, open only to students who are declared in one of the following majors:

- Biochemistry
- Biology
- Biotechnology
- Chemistry
- Earth Science
- Environmental and Conservation Biology
- Environmental Studies
- Geography
- Geology
- Integrative Studies
- Medical Laboratory Science
- Neuroscience
- Plant Biology (previously Botany)
- Physics
- Zoology

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
PH 30002	INTRODUCTORY BIOSTATISTICS	3
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
PH 30007	PREVENTION AND CONTROL OF DISEASES	3
Minor Electives, choose from the following:		9
PH 30012	COMMUNICABLE DISEASES	
PH 40102	SOLID AND HAZARDOUS WASTE MANAGEMENT	
PH 40103	FOOD PROTECTION (ELR)	
PH 40105	WATER AND WASTEWATER MANAGEMENT (ELR)	
PH 42100	CLIMATE CHANGE AND POPULATION HEALTH	
PH 43013	BUILT ENVIRONMENT AND PUBLIC HEALTH	
Minimum Total Credit Hours:		**21**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Address the basic concepts, methods and tools of public health data collection, use and analysis and why evidence-based approaches are an essential part of public health practice.
2. Address the socioeconomic, behavioral, biological, environmental and other factors that impact human health and contribute to health disparities.

Full Description

The Environmental Health Sciences for Natural Science Majors minor is intended for students who have a strong interest or curricular focus in a natural science major. This includes students in a variety of majors including, but not limited to, biology, chemistry, geography, geology, physics, plant biology and zoology. The minor provides students with foundational concepts in environmental health as it relates to the broad field of public health.

Students who complete the required coursework and have 30 credit hours of coursework in specific public health areas, biology, chemistry, physics, geology, math or statistics can pursue a career path in State of Ohio agencies to become a registered environmental health specialist (REHS), as well as becoming well equipped to enter the workforce in a variety of career paths.

Environmental Health Sciences for Non-Natural Science Majors - Minor

College of Public Health
www.kent.edu/publichealth

About This Program

The Environmental Health Sciences for Non-Natural Science Majors minor is intended for students who have a strong interest or curricular focus in a natural science major. The minor provides students with foundational concepts in environmental health as it relates to the broad field of public health.

Students who complete the required coursework and have 30 credit hours of coursework in specific public health areas, biology, chemistry, physics, geology, math or statistics can pursue a Sanitarian in Training (SIT) career path in State of Ohio agencies to become a registered environmental health sanitarian (REHS), and are well equipped to enter the workforce in a variety of career paths.

Contact Information

- **Gretchen Thomas** | gthoma33@kent.edu | 330-672-6528
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - Mostly online
- **Location:**
  - Kent Campus

Admission Requirements

Admission to this minor is selective, open only to students who are **not** declared in one of the following majors:

- Biology
- Biotechnology
- Chemistry
- Earth Science
- Environmental and Conservation Biology
- Environmental Studies
- Geography
- Geology
- Integrative Studies
- Medical Laboratory Science
- Neuroscience
- Plant Biology (previously Botany)
- Physics
- Zoology

Students declared in one of the above majors should declare the Environmental Health Sciences for Natural Science Majors - Minor.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
PH 30002	INTRODUCTORY BIOSTATISTICS	3
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
PH 30007	PREVENTION AND CONTROL OF DISEASES	3
Biological Sciences Electives, choose from the following:		4
BSCI 10001	HUMAN BIOLOGY (KBS)	
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	
or BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
Chemistry Electives, choose from the following:		3-5
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	
CHEM 10055	MOLECULES OF LIFE (KBS)	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	
Minor Electives, choose from the following:		9
PH 30012	COMMUNICABLE DISEASES	
PH 40102	SOLID AND HAZARDOUS WASTE MANAGEMENT	
PH 40103	FOOD PROTECTION (ELR)	
PH 40105	WATER AND WASTEWATER MANAGEMENT (ELR)	
PH 42100	CLIMATE CHANGE AND POPULATION HEALTH	
PH 43013	BUILT ENVIRONMENT AND PUBLIC HEALTH	
Minimum Total Credit Hours:		**28**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Address the basic concepts, methods and tools of public health data collection, use and analysis and why evidence-based approaches are an essential part of public health practice.
2. Address the socioeconomic, behavioral, biological, environmental and other factors that impact human health and contribute to health disparities.

Epidemiology - M.P.H.

College of Public Health
www.kent.edu/publichealth

About This Program

Explore Kent State University's STEM-designated Master of Public Health program in Epidemiology, designed to provide students with comprehensive training in the principles and methods of epidemiological research. Gain expertise in analyzing health data, identifying disease trends and designing interventions to improve public health outcomes. Read more...

Contact Information

- **Lynette Phillips** | lphill20@kent.edu | 330-672-6324

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Accreditation

The M.P.H. degree in Epidemiology is accredited by the Council on Education for Public Health (CEPH).

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Résumé
- Two letters of recommendation
- English Language Proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 15 (international student)
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Rolling admissions (domestic student)
- **Spring Semester**
  - Priority deadline: August 15 (international student)
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.
  - Rolling admissions (domestic student)
- **Summer Term**
  - Rolling admissions (domestic student)

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BST 62019	BIOSTATISTICS IN PUBLIC HEALTH	3
BST 63014	APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA	3
EHS 62018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	3
EPI 62017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY	3
EPI 63014	EPIDEMIOLOGY OF CHRONIC DISEASES	3
EPI 63015	EPIDEMIOLOGY OF INFECTIOUS DISEASES	3
EPI 63016	PRINCIPLES OF EPIDEMIOLOGIC RESEARCH	3
HPM 62016	PUBLIC HEALTH ADMINISTRATION	3
HPM 63020	COMMUNITY HEALTH NEEDS ASSESSMENT	3
SBS 64634	SOCIAL DETERMINANTS OF HEALTH BEHAVIORS	3
Major Electives, choose from the following:		12
BST 60010	USING R IN PUBLIC HEALTH	
BST 60011	USING SAS IN PUBLIC HEALTH	
BST 60012	USING EXCEL IN PUBLIC HEALTH	
BST 62020	DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE	
BST 63012	SURVIVAL ANALYSIS IN PUBLIC HEALTH	
BST 63013	EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH	
EHS 52100	CLIMATE CHANGE AND POPULATION HEALTH	
EHS 53014	BUILT ENVIRONMENT AND PUBLIC HEALTH	
EPI 50017	PHARMACOEPIDEMIOLOGY	
EPI 50018	REGULATORY AFFAIRS IN CLINICAL RESEARCH	
EPI 52010	UNDERSTANDING THE COVID-19 PANDEMIC	
EPI 63019	EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH	
EPI 63020	ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS	
EPI 63021	ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH	
EPI 63034	LONGITUDINAL DATA ANALYSIS	
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59071	FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I	
GEOG 59072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
Any Graduate course (50000 or 60000 level) with advisor approval		
Culminating Requirement		
EPI 60192	APPLIED PRACTICE EXPERIENCE IN EPIDEMIOLOGY [1]	3
PH 61199	INTEGRATIVE LEARNING EXPERIENCE	1
Minimum Total Credit Hours:		**46**

[1] It is expected that students enrolled in EPI 60192 who do not complete the course in one term will continuously register for EPI 60292 each semester, until all requirements have been met. Credit hours for EPI 60292 do not apply to the minimum 46 credit hours for the degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Practicum placement at an approved public health agency under the guidance of a qualified preceptor (150 or 300 contact hours).
- Final portfolio/report and a presentation integrating theory and practice.
- Participation in at least one approved interprofessional education event (IPE); IPE requires students to participate at a specific time/date to be determined in consultation with the student's advisor.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

Evidence-based Approaches to Public Health

1. Apply epidemiological methods to the breadth of settings and situations in public health practice.
2. Select quantitative and qualitative data collection methods appropriate for a given public health context.
3. Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate.
4. Interpret results of data analysis for public health research, policy or practice.

Public Health and Health Care Systems

1. Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings.
2. Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels.

Planning and Management to Promote Health

1. Assess population needs, assets and capacities that affect communities' health.
2. Apply awareness of cultural values and practices to the design or implementation of public health policies or programs.
3. Design a population-based policy, program, project or intervention.
4. Explain basic principles and tools of budget and resource management. Select methods to evaluate public health programs.

Policy in Public Health

1. Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence.
2. Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes.
3. Advocate for political, social or economic policies and programs that will improve health in diverse populations.
4. Evaluate policies for their impact on public health and health equity.

Leadership

1. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.
2. Apply negotiation and mediation skills to address organizational or community challenges.

Communication

1. Select communication strategies for different audiences and sectors.
2. Communicate audience-appropriate public health content, both in writing and through oral presentation.
3. Describe the importance of cultural competence in communicating public health content.

Interprofessional Practice

1. Perform effectively on interprofessional teams.

Systems Thinking

1. Apply systems thinking tools to a public health issue.

Full Description

The Master of Public Health degree in Epidemiology prepares students to analyze the distribution and determinants of disease, disabilities and death in populations. Graduates are able to apply quantitative and qualitative methods to investigate disease outbreaks, determine causal relationships between environmental and biological factors and conduct studies to project health trends in populations. Students benefit from public health faculty research agendas in immigrant and refugee health, chronic disease, cancer and infectious disease epidemiology.

Career opportunities for graduates include research positions in universities, medical schools and pharmaceutical companies; disease prevention specialists in hospitals; and surveillance managers in state and local health departments.

Health Services Administration - Minor

College of Public Health
www.kent.edu/publichealth

About This Program

The Health Services Administration minor is intended for students that have a strong interest in concepts related to the management, ethics and practice of the administration of health services. Students complete a series of specific courses designed to enhance their knowledge in the area of health services, as well as courses geared for professional practice.

The minor will augment students' study in a variety of majors including, but not limited to, business, communications, nursing, psychology, sociology, public health and health and human services.

Contact Information

- **Gretchen Thomas** | gthoma33@kent.edu | 330-672-6528
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
PH 20000	PUBLIC HEALTH PROFESSIONAL PRACTICE I	1
PH 30000	PUBLIC HEALTH PROFESSIONAL PRACTICE II	1
PH 30015	UNITED STATES HEALTH CARE SYSTEM	3
PH 30033	PUBLIC HEALTH POLICY AND DECISION MAKING [1]	3
PH 40000	PUBLIC HEALTH PROFESSIONAL PRACTICE III	1
PH 44015	PUBLIC HEALTH MANAGEMENT	3
PH 44020	PUBLIC HEALTH ETHICS IN PRACTICE, POLICY AND RESEARCH	3
PH 44025	PRINCIPLES OF PUBLIC HEALTH LEADERSHIP	3
or MGMT 34165	DYNAMICS OF LEADERSHIP	
Minor Elective, choose from the following:		3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	
COMM 46507	COMMUNICATION FOR HEALTH AND WELL-BEING	
ECON 42086	ECONOMICS OF HEALTH CARE	
ENG 30063	PROFESSIONAL WRITING	
GERO 44031	SOCIAL POLICY AND COMMUNITY RESOURCES FOR OLDER ADULTS	
HDF 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	
HED 32575	CONSUMER HEALTH	
INS 29000	INTRODUCTION TO INSURANCE AND RISK	
MGMT 34157	INTRODUCTION TO THE U.S. HEALTHCARE SYSTEM	
PACS 44040	NEGOTIATION	
PH 32005	EMERGING ISSUES IN COMMUNITY HEALTH	
PH 40089	GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND (DIVG) (ELR)	
PH 44010	PUBLIC HEALTH PLANNING AND FINANCE	
PLST 35003	HEALTH LAW	
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
Minimum Total Credit Hours:		**21**

[1] Students declared in the Nursing major may substitute NURS 40045 for PH 30033.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the major components of the U.S. healthcare system, including key stakeholders, funding mechanisms and service delivery models.
2. Summarize basic leadership and management principles used in public health and health services organizations.
3. Explain the development of public health policies and how they influence health services administration.
4. Apply a basic ethical framework of public health and health care administration.

Health Technologies and Informatics - Minor

College of Public Health
www.kent.edu/publichealth

About This Program

Gain the skills and knowledge needed to work at the intersection of healthcare and technology. As a student in this program, you will learn about health information systems, data analysis and emerging technologies in healthcare. With a growing demand for professionals with these skills, you will be well-prepared for a wide range of careers in the healthcare industry. Read more...

Contact Information

- **Gretchen Thomas** | gthoma33@kent.edu | 330-672-6528
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ETEC 47427	TECHNOLOGY AND LEARNING	3
PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
PH 20010	INTRODUCTION TO PUBLIC HEALTH INFORMATICS	3
Minor Electives, choose from the following:		6
COMM 43000	COMMUNICATION TECHNOLOGY AND HUMAN INTERACTION	
EMAT 21000	INTRODUCTION TO WEB DESIGN	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
ETEC 47400	TRENDS IN EDUCATIONAL TECHNOLOGY	
ETEC 47403	INSTRUCTIONAL DESIGN	
GEOG 49072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
IT 31002	HEALTH INFORMATION TECHNOLOGY SUPPORT	
IT 41010	MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY	
IT 43000	HEALTHCARE INFORMATION SYSTEMS	
MDJ 21008	SOCIAL MEDIA STRATEGIES	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain basic tenants of public health.
2. Identify how health informatics improves health care effectiveness and efficiency.
3. Describe the how technology informs lifespan learning.
4. Explain evaluation methods, e-Health, decision support, and database systems as important information technologies for supporting healthcare decision-making.
5. Identify innovative technologies that have the potential to inform and transform public health.

Full Description

The Health and Technologies and Informatics minor provides students with knowledge and skills in public health and information technology. Students who are interested in public health face new challenges and opportunities with technology. Conversely, students in other fields related to technology are often presented with challenges and opportunities related to public health. Drawing on an interdisciplinary focus of public health, education, communication, geography, information, and educational technology, students increase their skill set for practice in an information-intensive health care environment.

Students in this minor will gain knowledge on how information technology is used to organize and analyze health records, health information databases and trends in technology to improve healthcare outcomes. For students with natural science, communication, business, computer, or information technology degrees, the minor courses will expose them to the uniqueness and complexity of work processes in public health and healthcare.

Healthcare Compliance - Graduate Certificate

College of Public Health
www.kent.edu/publichealth

About This Program

With the increasing need for healthcare compliance professionals in today's regulatory environment, the Certified in Healthcare Compliance designation can set you apart from your peers and advance your career. With the CCB-accredited Healthcare Compliance graduate certificate, you will gain the knowledge and skills necessary to pass the HCCA exam and become highly employable in the field. Read more...

Contact Information

- **Thomas Brewer, Ph.D., M.Jur., CHC** | twbrewer@kent.edu | 330-672-4703
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers

- Compliance analyst
- Compliance healthcare consultant
- Compliance healthcare manager
- Healthcare compliance officer
- Senior investigator of healthcare fraud

Accreditation

The Healthcare Compliance certificate is accredited by the Compliance Certification Board (CCB).

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university[1]
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] Kent State undergraduate students who are enrolled in the combined B.S.P.H./M.P.H. degree program may also apply for this certificate.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
HPM 62017	HEALTHCARE LAW AND REGULATION	3
HPM 63008	HEALTHCARE PRIVACY AND SECURITY	3
HPM 63009	HEALTHCARE COMPLIANCE I	3
HPM 63010	HEALTHCARE COMPLIANCE II	3
Certificate Elective, choose from the following:		3
ECON 52086	ECONOMICS OF HEALTH CARE	
HPM 60392	APPLIED PRACTICE EXPERIENCE IN HEALTH POLICY AND MANAGEMENT [1]	
HPM 63003	HEALTH CARE SYSTEMS	
LTCA 54032	LONG-TERM CARE ADMINISTRATION I	
Minimum Total Credit Hours:		**15**

[1] Students who select HPM 60392 must undertake the practicum in the area of healthcare compliance.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain the components of the Health Insurance Portability and Accountability Act (HIPAA) of 1996.
2. Perform an audit on a healthcare organization to determine uses of protected health information and highlight areas of vulnerability.
3. Determine required and permitted disclosures of protected health information.
4. Describe the legal and historical foundations of compliance programs.
5. Identify key areas of compliance oversight within a healthcare operation.
6. Develop and implement an effective compliance program.
7. Implement operational aspects of a compliance program.
8. Measure, document and report the effectiveness of a compliance program.
9. Train staff on fraud, waste and abuse topics.
10. Conduct investigations.
11. Audit and monitor healthcare functions.
12. Respond to fraud, waste and abuse.

Full Description

The Healthcare Compliance graduate certificate provides the training necessary to enter this growing field where compliance professionals design and implement comprehensive programs to identify potential risk areas, develop policies, train staff, evaluate effectiveness and conduct investigations.

Healthcare spending accounts for approximately 19 percent of the entire U.S. economy. Unfortunately, some of that money is misspent in the form of fraud, waste and abuse. Federal and state governments continue to increase their scrutiny of healthcare organizations through a maze of complex law and regulations touching every part of the organization. The field of healthcare compliance is emerging as a response to these challenges.

LGBTQ+ Public Health - Graduate Certificate

College of Public Health
www.kent.edu/publichealth

About This Program

The LGBTQ+ Public Health graduate certificate provides the foundational topics and complex issues that contribute to public health and individual health inequities affecting sexual and gender minorities through community- and systems-level strategies that promote health and healthy behaviors.

Contact Information

- **Eric Jefferis, Ph.D.** | ejefferi@kent.edu | 330-672-6502

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Applications to the LGBTQ+ Public Health graduate certificate are not being accepted for the spring 2026 admission term.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the LGBTQ+ Public Health graduate certificate are not being accepted for the spring 2026 admission term.

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- English Language Proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
HPM 63020	COMMUNITY HEALTH NEEDS ASSESSMENT	3
SBS 64600	EMERGING ISSUES IN LGBTQ+ PUBLIC HEALTH PRACTICE	3
SBS 64630	SEXUAL ORIENTATION AND GENDER IDENTITY IN PUBLIC HEALTH PRACTICE	3
SBS 64634	SOCIAL DETERMINANTS OF HEALTH BEHAVIORS	3
Minimum Total Credit Hours:		**12**

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Comprehend unique considerations, definitions, nomenclature and common language necessary to engage and competently interact with populations in the delivery of LGBTQ+ health interventions and program development.
2. Examine barriers to healthcare access, commonly observed multilevel health disparities and evidence-based approaches to advancing health among the LGBTQ+ community.
3. Identify gaps in contemporary strategies for improving state, county and city government health and welfare services for LGBTQ+ people.

Public Health - B.S.P.H.

College of Public Health
www.kent.edu/publichealth

About This Program

Join the next generation of the public health workforce with Kent State University's Public Health program. Earn a B.S.P.H., minor or certificate and gain the skills and knowledge to improve population health and make a difference in people's lives. Enroll now in person or fully online and make an impact in the world of public health. Read more...

Contact Information

- **Gretchen Thomas** | gthoma33@kent.edu | 330-672-6528
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online (Allied Health, Clinical Trials Research, Health Services Administration concentrations only)
  - Mostly online
  - In person (all concentrations)
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Community health workers

- 15.2% much faster than the average
- 64,900 number of jobs
- $42,000 potential earnings

Health education specialists

- 11.4% much faster than the average
- 62,200 number of jobs
- $56,500 potential earnings

Additional Careers

- Project coordinator (falls under business operations specialists, all other)
- Social and community service manager
- Clinical research associate (falls under clinical laboratory technologists and technicians)

Accreditation

The B.S.P.H. degree in Public Health is accredited by the Council on Education for Public Health (CEPH).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
PH 20000	PUBLIC HEALTH PROFESSIONAL PRACTICE I	1
PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
PH 30000	PUBLIC HEALTH PROFESSIONAL PRACTICE II	1
PH 30002	INTRODUCTORY BIOSTATISTICS	3
PH 30004	PUBLIC HEALTH RESEARCH [1]	3
PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	3
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
PH 30007	PREVENTION AND CONTROL OF DISEASES [1]	3
PH 30033	PUBLIC HEALTH POLICY AND DECISION MAKING [1]	3
PH 40000	PUBLIC HEALTH PROFESSIONAL PRACTICE III	1
PH 44000	HEALTH DISPARITIES (DIVD) (WIC) (min C grade) [2]	3
PH 49000	CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR)	3
Public Health (PH) Electives		6
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines) [3]		6
Concentrations		
Choose from the following:		56
Allied Health		
Clinical Trials Research		
Health Services Administration		
Pre-Medicine, Dental, Osteopathy		
Minimum Total Credit Hours:		**120**

1 Students in the Nursing major may substitute NURS 40020 for PH 30007, NURS 40045 for PH 30033 and NURS 40872 for PH 30004.
2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

Allied Health Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
State Licensure or Concentration Electives, choose from the following: [1]		12
State Licensure in an allied health field [1]		
or		
Concentration Electives:		
Public Health (PH) Electives, choose from the following (6 credit hours):		

PH 20010	INTRODUCTION TO PUBLIC HEALTH INFORMATICS	
PH 30015	UNITED STATES HEALTH CARE SYSTEM	
PH 34001	PUBLIC HEALTH INTERVENTIONS I	
PH 34002	PUBLIC HEALTH INTERVENTIONS II	
PH 40013	CLINICAL EPIDEMIOLOGY BASICS	
PH 40014	CLINICAL TRIALS MANAGEMENT	
PH 44005	LEGAL ASPECTS OF HEALTH SERVICES MANAGEMENT	
PH 44010	PUBLIC HEALTH PLANNING AND FINANCE	
PH 44015	PUBLIC HEALTH MANAGEMENT	
PH 44020	PUBLIC HEALTH ETHICS IN PRACTICE, POLICY AND RESEARCH	
PH 44025	PRINCIPLES OF PUBLIC HEALTH LEADERSHIP	
Science Electives, choose from the following (6 credit hours):		
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 20021	BASIC MICROBIOLOGY	
or BSCI 30171	GENERAL MICROBIOLOGY	
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
BSCI 21020	ANATOMY AND PHYSIOLOGY II	
BSCI 30050	HUMAN GENETICS	
or BSCI 30156	ELEMENTS OF GENETICS	
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	
or CHEM 10055	MOLECULES OF LIFE (KBS)	
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
HED 14020	MEDICAL TERMINOLOGY	
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	
Additional Requirements (courses do not count in major GPA)		
Mathematics Elective, choose from the following:		3-5
CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
MATH 10051	QUANTITATIVE REASONING (KMCR)	
MATH 10771	BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR)	
MATH 10772	MODELING ALGEBRA PLUS (KMCR)	
MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	
MATH 11008	EXPLORATIONS IN MODERN MATHEMATICS (KMCR)	
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR)	
MATH 12012	CALCULUS WITH PRECALCULUS II (KMCR)	
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		29
Minimum Total Credit Hours:		**56**

[1] At their time of admission, a student must submit a copy of their state licensure to an academic advisor in the College of Public Health. State licensure must be valid through the student's graduation term.

Clinical Trials Research Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
PH 40013	CLINICAL EPIDEMIOLOGY BASICS	3
PH 40014	CLINICAL TRIALS MANAGEMENT	3
PH 40015	SCIENTIFIC WRITING FOR CLINICAL RESEARCH	3
PH 40017	PHARMACOEPIDEMIOLOGY	3
PH 40018	REGULATORY AFFAIRS IN CLINICAL RESEARCH	3
Public Health (PH) Upper-Division Electives (30000 or 40000 level)		6
Additional Requirements (courses do not count in major GPA)		
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3-4
or CHEM 10055	MOLECULES OF LIFE (KBS)	
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	3-4
or MATH 11009	MODELING ALGEBRA (KMCR)	
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
Biological Sciences Elective, choose from the following:		4
BSCI 10001 & BSCI 10003	HUMAN BIOLOGY (KBS) and LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		19
Minimum Total Credit Hours:		**56**

Health Services Administration Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
PH 30015	UNITED STATES HEALTH CARE SYSTEM	3
PH 44005	LEGAL ASPECTS OF HEALTH SERVICES MANAGEMENT	3
PH 44010	PUBLIC HEALTH PLANNING AND FINANCE	3
PH 44015	PUBLIC HEALTH MANAGEMENT	3
PH 44020	PUBLIC HEALTH ETHICS IN PRACTICE, POLICY AND RESEARCH	3
PH 44025	PRINCIPLES OF PUBLIC HEALTH LEADERSHIP	3
Health Services Elective, choose from the following:		3
PH 20010	INTRODUCTION TO PUBLIC HEALTH INFORMATICS	
PH 20015	ZOMBIE OUTBREAK	
PH 30020	FUNDAMENTALS OF HEALTH PRIVACY	
PH 30025	FUNDAMENTALS OF HEALTHCARE COMPLIANCE	

PH 40195	SPECIAL TOPICS IN PUBLIC HEALTH	
PH 43014	PUBLIC HEALTH AND MASS INCARCERATION	
PH 44092	INTERNSHIP IN PUBLIC HEALTH (ELR)	
Additional Requirements (courses do not count in major GPA)		
Mathematics Elective, choose from the following:		3-5
MATH 10771	BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR)	
MATH 10772	MODELING ALGEBRA PLUS (KMCR)	
MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR)	
MATH 12012	CALCULUS WITH PRECALCULUS II (KMCR)	
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		20
Minimum Total Credit Hours:		**56**

Pre-Medicine, Dental, Osteopathy Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	3-4
or CHEM 30481	ORGANIC CHEMISTRY I	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
Concentration Electives, choose from the following:		35
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
BSCI 21020	ANATOMY AND PHYSIOLOGY II	
BSCI 30130	HUMAN PHYSIOLOGY	
BSCI 30140	CELL BIOLOGY	
BSCI 30156	ELEMENTS OF GENETICS	
BSCI 30171	GENERAL MICROBIOLOGY	
BSCI 40430	ANIMAL PHYSIOLOGY	
CHEM 20482	BASIC ORGANIC CHEMISTRY II [1]	
or CHEM 30482	ORGANIC CHEMISTRY II	
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	
CHEM 40248	ADVANCED BIOLOGICAL CHEMISTRY	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
HED 14020	MEDICAL TERMINOLOGY	
HONR 40197	SENIOR COLLOQUIUM	
MATH 12021	CALCULUS FOR LIFE SCIENCES	
MATH 12022	PROBABILITY AND STATISTICS FOR LIFE SCIENCES	
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	
PESP 25033	LIFESPAN MOTOR DEVELOPMENT	
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	
Additional Requirements (courses do not count in major GPA)		
Mathematics Elective, choose from the following:		3-5
MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
Minimum Total Credit Hours:		**56**

[1] CHEM 30482 is highly recommended as an additional course for students planning to take the Medical College Admission Test (MCAT).

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmaps

Allied Health Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
!	State Licensure or Concentration Electives		12
	Credit Hours		**12**
	Semester One		
	PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
	UC 10001	FLASHES 101	1
	Mathematics Elective		3-5
	Kent Core Requirement		3
	Kent Core Requirement		3

	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Three		
	PH 20000	PUBLIC HEALTH PROFESSIONAL PRACTICE I	1
!	PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
	PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**13**
	Semester Four		
!	PH 30007	PREVENTION AND CONTROL OF DISEASES	3
	PH 30033	PUBLIC HEALTH POLICY AND DECISION MAKING	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		2
		Credit Hours	**14**
	Semester Five		
!	PH 30002	INTRODUCTORY BIOSTATISTICS	3
	PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
	Public Health (PH) Elective		3
	General Elective		3
		Credit Hours	**12**
	Semester Six		
	PH 30000	PUBLIC HEALTH PROFESSIONAL PRACTICE II	1
!	PH 30004	PUBLIC HEALTH RESEARCH	3
	Public Health (PH) Elective		3
	General Electives		6
		Credit Hours	**13**
	Semester Seven		
	PH 40000	PUBLIC HEALTH PROFESSIONAL PRACTICE III	1
	PH 44000	HEALTH DISPARITIES (DIVD) (WIC)	3
	General Electives		9
		Credit Hours	**13**
	Semester Eight		
	PH 49000	CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR)	3
	Kent Core Requirement		3
	General Electives		6
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

Clinical Trials Research Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	MATH 10775 or MATH 11009 or MATH 11010	ALGEBRA FOR CALCULUS PLUS (KMCR) or MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
	PH 20000	PUBLIC HEALTH PROFESSIONAL PRACTICE I	1
	UC 10001	FLASHES 101	1
	Biological Sciences Elective		4
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**18**
	Semester Two		
	CHEM 10050 or CHEM 10055 or CHEM 10060	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS) or GENERAL CHEMISTRY I (KBS)	3-4
	PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
	PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	3
	Public Health (PH) Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
	PH 30002	INTRODUCTORY BIOSTATISTICS	3
!	PH 30007	PREVENTION AND CONTROL OF DISEASES	3
!	PH 30033	PUBLIC HEALTH POLICY AND DECISION MAKING	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
	PH 40013	CLINICAL EPIDEMIOLOGY BASICS	3
	PH 40014	CLINICAL TRIALS MANAGEMENT	3
	PH 40015	SCIENTIFIC WRITING FOR CLINICAL RESEARCH	3
	General Elective		3
		Credit Hours	**15**
	Semester Six		
	PH 30000	PUBLIC HEALTH PROFESSIONAL PRACTICE II	1
	PH 30004	PUBLIC HEALTH RESEARCH	3
	PH 40017	PHARMACOEPIDEMIOLOGY	3
	General Electives		6
		Credit Hours	**13**
	Semester Seven		
	PH 40000	PUBLIC HEALTH PROFESSIONAL PRACTICE III	1
	PH 44000	HEALTH DISPARITIES (DIVD) (WIC)	3

	Public Health (PH) Upper-Division Elective (30000 or 40000 level)		3
	General Electives		9
		Credit Hours	**16**
	Semester Eight		
	PH 40018	REGULATORY AFFAIRS IN CLINICAL RESEARCH	3
	PH 49000	CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR)	3
	Public Health (PH) Elective		3
	Public Health (PH) Upper-Division Elective (30000 or 40000 level)		3
	General Elective		1
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

Health Services Administration Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
	UC 10001	FLASHES 101	1
	Mathematics Elective		3-5
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	PH 20000	PUBLIC HEALTH PROFESSIONAL PRACTICE I	1
!	PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
	PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**16**
	Semester Four		
!	PH 30007	PREVENTION AND CONTROL OF DISEASES	3
!	PH 30033	PUBLIC HEALTH POLICY AND DECISION MAKING	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Five		
	PH 30000	PUBLIC HEALTH PROFESSIONAL PRACTICE II	1
!	PH 30002	INTRODUCTORY BIOSTATISTICS	3
	PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
	Public Health (PH) Elective		3
	General Elective		3
		Credit Hours	**13**
	Semester Six		
	PH 30004	PUBLIC HEALTH RESEARCH	3
	PH 30015	UNITED STATES HEALTH CARE SYSTEM	3
	PH 44000	HEALTH DISPARITIES (DIVD) (WIC)	3
	PH 44020	PUBLIC HEALTH ETHICS IN PRACTICE, POLICY AND RESEARCH	3
	General Elective		3
		Credit Hours	**15**
	Semester Seven		
	PH 40000	PUBLIC HEALTH PROFESSIONAL PRACTICE III	1
	PH 44010	PUBLIC HEALTH PLANNING AND FINANCE	3
	PH 44015	PUBLIC HEALTH MANAGEMENT	3
	PH 44025	PRINCIPLES OF PUBLIC HEALTH LEADERSHIP	3
	Health Services Elective		3
	General Elective		3
		Credit Hours	**16**
	Semester Eight		
	PH 44005	LEGAL ASPECTS OF HEALTH SERVICES MANAGEMENT	3
!	PH 49000	CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR)	3
	Public Health (PH) Elective		3
	General Electives		5
		Credit Hours	**14**
		Minimum Total Credit Hours:	**120**

Pre Medicine, Dental, Osteopathy Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
	UC 10001	FLASHES 101	1
	Mathematics Elective		3-5
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Two		
	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
!	CHEM 20481 or CHEM 30481	BASIC ORGANIC CHEMISTRY I or ORGANIC CHEMISTRY I	3-4
!	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
	PH 20000	PUBLIC HEALTH PROFESSIONAL PRACTICE I	1

!	PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
	PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	3
	Concentration Electives		5
		Credit Hours	**16**
	Semester Four		
!	PH 30007	PREVENTION AND CONTROL OF DISEASES	3
	PH 30033	PUBLIC HEALTH POLICY AND DECISION MAKING	3
	Concentration Electives		10
		Credit Hours	**16**
	Semester Five		
	PH 30002	INTRODUCTORY BIOSTATISTICS	3
	Concentration Electives		11
		Credit Hours	**14**
	Semester Six		
	PH 30000	PUBLIC HEALTH PROFESSIONAL PRACTICE II	1
	PH 30004	PUBLIC HEALTH RESEARCH	3
	Concentration Electives		9
		Credit Hours	**13**
	Semester Seven		
	PH 40000	PUBLIC HEALTH PROFESSIONAL PRACTICE III	1
	PH 44000	HEALTH DISPARITIES (DIVD) (WIC)	3
	Public Health (PH) Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Eight		
!	PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
!	PH 49000	CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR)	3
	Public Health (PH) Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Overview of Public Health: Address the history and philosophy of public health as well as its core values, concepts and functions across the globe and in society.
2. Role and Importance of Data in Public Health: Address the basic concepts, methods and tools of public health data collection, use and analysis, and why evidence-based approaches are an essential part of public health practice.
3. Identifying and Addressing Population Health Challenges: Address the concepts of population health and basic processes, approaches and interventions that identify and address the major health-related needs and concerns of populations.
4. Human Health: Address the underlying science of human health and disease, including opportunities for promoting and protecting health across the life course.
5. Determinants of Health: Address the socioeconomic, behavioral, biological, environmental and other factors that impact human health and contribute to health disparities.
6. Project Implementation: Address the fundamental concepts and features of project implementation, including planning, assessment and evaluation.
7. Overview of the Health System: Address the fundamental characteristics and organizational structures of the U.S. health system as well as the differences in systems in other countries.
8. Health Policy, Law, Ethics and Economics: Address the basic concepts of legal, ethical, economic and regulatory dimensions of health care and public health policy; and the roles, influences and responsibilities of the different agencies and branches of government.
9. Health Communications: Address the basic concepts of public health-specific communication (including technical and professional writing) and the use of mass media and electronic technology.

Full Description

The Bachelor of Science in Public Health degree in Public Health broadly prepares students to enter the workforce as a public health

professional or enter an advanced program of study. Students explore the five disciplines of public health: biostatistics, environmental health, epidemiology, health policy and management and the social and behavioral sciences through general coursework.

The Public Health major comprises the following concentrations:

- The **Allied Health** concentration seeks to augment the career portfolio of the allied health professional or aspiring student. Students who are interested in a generalist focus in public health or moving to a professional degree (accelerated nursing) or technical allied health degree (respiratory care, radiologic technology, occupational/physical therapy assisting, etc.) are encouraged to pursue this path. Students may currently hold or be actively pursuing a state licensure in an allied health field and may be eligible to receive a maximum 12 credit hours of upper-division credit for their prior experience and demonstrated competency in select areas. Students without a state licensure may still pursue this concentration but will complete 12 hours of coursework in allied health-specific areas. Students in this concentration are exposed to broad areas of public health, including epidemiology, biostatistics, environmental health, global health and health policy; thus, preparing students to meet the increased demands for a trained and educated public health workforce.
- The **Clinical Trials Research** concentration focuses on training students in the epidemiology methods used in clinical research. The curriculum provides students a thorough understanding of the management of research studies; the scientific literature related to drugs, medical devices and other new therapies; and the federal regulations related to conducting clinical trials. Students are prepared to design and answer research questions, collect and manage data and communicate research findings to both scientific and lay audiences. An internship experience provides necessary experience in a clinical research setting. Potential places of employment for graduates include hospitals, contract research organizations, medical schools and pharmaceutical companies where graduates assist with and manage clinical research studies.
- The **Health Services Administration** concentration establishes a foundation for graduate work in health policy and management. Students analyze national and local public health infrastructure, evaluate the effectiveness and efficiency of health care delivery and explore the legal and ethical issues of health care administration. Graduates enter the health care workforce as finance managers, compliance officers, patient navigators, insurance specialists and other health care managers. Students are encouraged to pair this concentration with a minor.
- The **Pre-Medicine, Dentistry, Osteopathy** concentration includes preparatory courses for the Medical College Admissions Test (MCAT), Dental Admissions Test (DAT) and admission entry into other professional schools, including pharmacy, podiatry, occupational/physical therapy and physicians assistant programs. The overall curriculum — focusing on biological, social and economic determinants of health; prevention and control of diseases; introduction to biostatistics; and public health research — makes this program highly desirable for admission to professional schools. The unique features of the program open new opportunities and offer competitive advantages for students seeking to enter into clinical medicine.

Students may apply early to the following master's degree programs and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program Policy in the University Catalog for more information:

- Biostatistics - M.P.H.
- Clinical Epidemiology - M.S.
- Epidemiology - M.P.H.
- Health Policy and Management - M.P.H.
- Social and Behavioral Sciences - M.P.H.

Students must consult with their undergraduate and faculty advisors each semester to create a plan substituting selected master's courses for selected undergraduate courses based on approved courses. Following graduation, students' applications to the M.P.H. or M.S. degree may be activated for admission.

Public Health - M.P.H.

College of Public Health
www.kent.edu/publichealth

About This Program

Looking for a career in public health that can make a real difference in communities and populations? With the Master of Public Health degree offered in person or fully online, you can specialize in health policy and management or social and behavioral sciences, each with its own unique skill set and career opportunities. Whether you are interested in analyzing health data, investigating disease outbreaks, developing effective health services delivery models or designing and evaluating public health interventions, the M.P.H. degree can help you achieve your goals and make a positive impact in the field of public health. Read more...

Contact Information

- **Eric Jefferis** (Social and Behavioral Sciences) | ejefferi@kent.edu | 330-672-6502
- **Thomas Brewer** (Health Policy and Management) | twbrewer@kent.edu | 330-672-4703
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
  - In person
- **Location:**
  - Kent Campus
  - Twinsburg Academic Center (Health Policy and Management concentration only - mostly online)
  - Independence, Ohio (Health Policy and Management concentration only - mostly online)

Applications for the Twinsburg and Independence locations are not being accepted at this time.

Examples of Possible Careers and Salaries*

Epidemiologists

- 4.6% about as fast as the average
- 8,000 number of jobs
- $74,560 potential earnings

Health specialties teachers, postsecondary

- 20.5% much faster than the average
- 254,000 number of jobs
- $99,090 potential earnings

Medical and health services managers

- 31.5% much faster than the average
- 422,300 number of jobs
- $104,280 potential earnings

Social and community service managers

- 17.0% much faster than the average
- 175,500 number of jobs
- $69,600 potential earnings

Clinical laboratory technologists and technicians

- 7.3% faster than the average
- 337,800 number of jobs
- $54,180 potential earnings

Accreditation

The M.P.H. degree in Public Health is accredited by the Council on Education for Public Health (CEPH).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications for the Twinsburg and Independence locations are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale[1]
- Official transcript(s)
- Goal statement
- Résumé
- Two letters of recommendation
- English Language Proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] Students with less than a 3.000 GPA will be considered for conditional admission.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: March 15 (international student)
    Applications submitted by this deadline will receive the strongest consideration for admission.
  - Rolling admissions (domestic student)
- **Spring Semester**
  - Priority deadline: August 15 (international student)
    Applications submitted by this deadline will receive the strongest consideration for admission.
  - Rolling admissions (domestic student)
- **Summer Term**
  - Rolling admissions (domestic student)

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BST 62019	BIOSTATISTICS IN PUBLIC HEALTH	3
EHS 62018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	3
EPI 62017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY	3
HPM 62016	PUBLIC HEALTH ADMINISTRATION	3
HPM 63007	PUBLIC HEALTH PROGRAMS: PLANNING, IMPLEMENTATION AND EVALUATION	3
HPM 63020	COMMUNITY HEALTH NEEDS ASSESSMENT	3
PH 61199	INTEGRATIVE LEARNING EXPERIENCE	1
SBS 64634	SOCIAL DETERMINANTS OF HEALTH BEHAVIORS	3
Major Elective A, choose from the following;		3
Any Biostatistics (BST) Graduate course (50000 or 60000 level)		
Any Environmental Health Sciences (EHS) Graduate course (50000 or 60000 level)		
Any Epidemiology (EPI) Graduate course (50000 or 60000 level)		
Any Health Policy and Management (HPM) Graduate course (50000 or 60000 level)		
Any Social and Behavioral Sciences (SBS) Graduate course (50000 or 60000 level)		
Major Electives B, choose from the following;		3-6
Any Biostatistics (BST) Graduate course (60000 level)		
Any Environmental Health Sciences (EHS) Graduate course (60000 level)		
Any Epidemiology (EPI) Graduate course (60000 level)		
Any Health Policy and Management (HPM) Graduate course (60000 level)		

Any Social and Behavioral Sciences (SBS) Graduate course (60000 level)	
Concentrations	
Choose from the following:	15-18
Health Policy and Management	
Social and Behavioral Sciences	
Minimum Total Credit Hours:	**46**

Health Policy and Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
HPM 63003	HEALTH CARE SYSTEMS	3
HPM 63004	PUBLIC HEALTH POLICY, LAW AND ETHICS	3
HPM 63005	FINANCIAL MANAGEMENT FOR PUBLIC HEALTH ORGANIZATIONS	3
HPM 63006	COST BENEFIT ANALYSIS IN PUBLIC HEALTH PROGRAMS	3
Culminating Requirement		
HPM 60392	APPLIED PRACTICE EXPERIENCE IN HEALTH POLICY AND MANAGEMENT [1]	3,6
Minimum Total Credit Hours:		**15-18**

[1] It is expected that students enrolled in HPM 60392 who do not complete the course in one term will continuously register for HPM 60492 each semester, until all requirements have been met. Credit hours for HPM 60492 do not apply to the minimum 46 credit hours for the degree.

Social and Behavioral Sciences Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
CES 67664	THEORIES AND PRACTICES IN ADDICTIONS COUNSELING [1]	3
or SBS 63030	SEMINAR IN SOCIAL AND BEHAVIOR SCIENCES	
SBS 60002	QUANTITATIVE METHODS IN SOCIAL AND BEHAVIORAL SCIENCES	3
SBS 60021	SOCIAL AND BEHAVIORAL SCIENCE THEORIES	3
SBS 63008	GRANT WRITING IN SOCIAL AND BEHAVIORAL SCIENCES	3
Culminating Requirement		
CES 67692	PRACTICUM IN ADDICTIONS COUNSELING [2]	3-6
or SBS 60392	APPLIED PRACTICE EXPERIENCE IN SOCIAL AND BEHAVIORAL SCIENCES	
Minimum Total Credit Hours:		**15-18**

[1] Only students admitted to the Addictions Counseling graduate certificate may apply CES 67664 toward the degree.

[2] Only students admitted to the Addictions Counseling graduate certificate may apply CES 67692 toward the degree. Those students must consult with their advisor to ensure that they meet competencies for SBS 60392. It is expected that students enrolled in SBS 60392 who do not complete the course in one term will continuously register for SBS 60292 each semester, until all requirements have been met. Credit hours for SBS 60292 do not apply to the minimum 46 credit hours for the degree.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Practicum placement at an approved public health agency under the guidance of a qualified preceptor (150 or 300 contact hours)
- Final portfolio/report and a seminar presentation integrating theory and practice
- Participation in at least one approved interprofessional education event; event requires students to participate at a specific time/date to be determined in consultation with the student's advisor
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

Evidence-based Approaches to Public Health

1. Apply epidemiological methods to the breadth of settings and situations in public health practice.
2. Select quantitative and qualitative data collection methods appropriate for a given public health context.
3. Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate.
4. Interpret results of data analysis for public health research, policy or practice.

Public Health and Health Care Systems

1. Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings.
2. Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels.

Planning and Management to Promote Health

1. Assess population needs, assets and capacities that affect communities' health.
2. Apply awareness of cultural values and practices to the design or implementation of public health policies or programs.
3. Design a population-based policy, program, project or intervention.
4. Explain basic principles and tools of budget and resource management.
5. Select methods to evaluate public health programs.

Policy in Public Health

1. Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence.

2. Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes.
3. Advocate for political, social or economic policies and programs that will improve health in diverse populations.
4. Evaluate policies for their impact on public health and health equity.

Leadership

1. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.
2. Apply negotiation and mediation skills to address organizational or community challenges.

Communication

1. Select communication strategies for different audiences and sectors.
2. Communicate audience-appropriate public health content, both in writing and through oral presentation.
3. Describe the importance of cultural competence in communicating public health content.

Interprofessional Practice

1. Perform effectively on interprofessional teams.

Systems Thinking

1. Apply systems thinking tools to a public health issue.

Dual Degree with Master of Business Administration

Students have the opportunity to complete a dual degree program with the Master in Public Health and the Master of Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The M.B.A./M.P.H. dual degree program prepares students for responsible leadership positions and offers an integrated business and public health curriculum designed to help students develop real-world knowledge and skills needed to pursue success and management opportunities in the public health industry.

Dual Degree Requirements

Code	Title	Credit Hours
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
BST 62019	BIOSTATISTICS IN PUBLIC HEALTH	3
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
EHS 62018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	3
EPI 62017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY	3
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HPM 60392	APPLIED PRACTICE EXPERIENCE IN HEALTH POLICY AND MANAGEMENT	3
HPM 62016	PUBLIC HEALTH ADMINISTRATION	3
HPM 63003	HEALTH CARE SYSTEMS	3
HPM 63006	COST BENEFIT ANALYSIS IN PUBLIC HEALTH PROGRAMS	3
HPM 63007	PUBLIC HEALTH PROGRAMS: PLANNING, IMPLEMENTATION AND EVALUATION	3
HPM 63020	COMMUNITY HEALTH NEEDS ASSESSMENT	3
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I [1]	0-1
MKTG 65051	MARKETING MANAGEMENT	2
SBS 64634	SOCIAL DETERMINANTS OF HEALTH BEHAVIORS	3
Culminating Requirement		
MGMT 64399	BUSINESS STRATEGY	3
PH 61199	INTEGRATIVE LEARNING EXPERIENCE	1
Minimum Total Credit Hours:		**58-59**

[1] MGMT 68051 may be waived for students with at least two years of full-time work experience.

Graduation Requirements

- Practicum placement at an approved public health agency under the guidance of a qualified preceptor (150 or 300 contact hours)
- Final portfolio/report and a seminar presentation integrating theory and practice
- Participation in at least one approved interprofessional education event; event requires students to participate at a specific time/date to be determined in consultation with the student's advisor

Full Description

The Master of Public Health degree in Public Health is designed to help students develop real-world knowledge and skills needed to pursue success in the public health industry.

The Public Health major comprises the following concentrations:

- The **Health Policy and Management** concentration prepares students to address public health risks and develop effective health services delivery models. This concentration incorporates health services research, health policy analysis and health care planning and management. Given the active research of the college's faculty in identifying service gaps and in developing evidence-based practices and policy analysis, students emerge with strong skills in health services management, alternative models of service financing and strategies for improving services. Career opportunities for graduates include administrative and management positions in hospitals, clinics, state and local health departments, nursing homes and mental health facilities; policy analyst positions in health planning organizations and governmental agencies; and planning and management positions in health maintenance organizations and health insurance companies.

- The **Social and Behavioral Sciences** concentration provides students with an interdisciplinary approach to improve health in populations across the life course. Students learn to apply theoretical principles to design, implement and evaluate effective programs that include behavioral and environmental approaches. Graduates are able to design and evaluate public health interventions intended to improve health for families, workplaces, communities and other settings. The active research of the college's faculty— particularly in the areas of childhood obesity, violence and injury prevention, substance abuse prevention and chronic disease prevention— provides students the opportunity to work on large-scale externally funded prevention research. Students are prepared for careers in health promotion; program design and evaluation; and prevention program development for state and local health departments, workplace health promotion programs, hospitals, international health agencies, mental health centers and non-profit organizations. Students have the opportunity to declare the Addictions Counseling graduate certificate to become licensed chemical dependency counselors in the state of Ohio.

Students in the M.P.H. degree have the opportunity to complete a dual degree with the Doctor of Podiatric Medicine degree. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

Public Health - Minor

College of Public Health
www.kent.edu/publichealth

About This Program

The Public Health minor integrates key aspects of preventing disease, prolonging life and promoting health through the organized efforts and informed choices of society, organizations, communities and individuals. Students who choose to augment their major by adding the public health minor increase their awareness of emerging issues in public health, the social and behavioral aspects of preventing disease, environmental health concepts, the changing U.S. health care system and the monitoring of diseases in the community through applied public health research.

Contact Information

- **Gretchen Thomas** | gthoma33@kent.edu | 330-672-6528
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
PH 44000	HEALTH DISPARITIES (DIVD) (WIC)	3
Public Health (PH) Lower-Division Elective (10000 or 20000 level)		3
Public Health (PH) Upper-Division Electives (30000 or 40000 level) [1]		6
Minimum Total Credit Hours:		**18**

[1] Students in the Nursing major may substitute NURS 40020 for PH 30007, NURS 40045 for PH 30033 and NURS 40872 for PH 30004.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the history and philosophy of public health, as well as its core values, concepts and functions across the globe and in society.
2. Understand the basic concepts, methods and tools of public health data collection, use and analysis; in addition to why evidence-based approaches are an essential part of public health practice.
3. Understand the socio-economic, behavioral, biological, environmental and other factors that impact human health and contribute to health disparities.

Public Health - Ph.D.

College of Public Health
www.kent.edu/publichealth

About This Program

The Ph.D. degree in Public Health bridges population health and research methods to prepare graduates for careers in academics, industry and public service agencies. Students concentrate in either epidemiology or prevention science and complete two to three years of coursework with an additional two or more years of research. Students complete a comprehensive exam and oral prospectus defense and prepare a final written dissertation with presentation and defense. Read more...

Contact Information

- **College of Public Health Dean's Office** | CPHgradapps@kent.edu | 330-672-6500
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the Health Policy and Management concentration are not being accepted at this time.

Examples of Possible Careers and Salaries*

Epidemiologists

- 4.6% about as fast as the average
- 8,000 number of jobs
- $74,560 potential earnings

Health specialties teachers, postsecondary

- 20.5% much faster than the average
- 254,000 number of jobs
- $99,090 potential earnings

Medical and health services managers

- 31.5% much faster than the average
- 422,300 number of jobs
- $104,280 potential earnings

Accreditation

The Ph.D. degree in Public Health is accredited by the Council on Education For Public Health (CEPH).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Health Policy and Management concentration are not being accepted at this time.

- Master's degree in a related discipline from an accredited college or university
- Minimum 3.000 graduate GPA on a 4.000-point scale
- Official transcript(s)
- GRE score or other standardized graduate admission exam with a quantitative component[1]
- Résumé
- Goal statement
- Three letters of recommendation
- Interview with faculty
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

Students who do not meet prerequisites for the Ph.D. degree may be required to complete additional coursework.

1 GRE scores may be waived as determined by graduate coordinator.
2 International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Priority deadline: December 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BST 83014	APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA	3
EHS 72018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH [1]	3
EPI 72017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY [1]	3
EPI 72028	METHODS OF EVIDENCE BASED PUBLIC HEALTH	3
EPI 73027	BIOLOGICAL BASIS OF PUBLIC HEALTH	3
HPM 72016	PUBLIC HEALTH ADMINISTRATION [1]	3
SBS 73020	ADVANCED RESEARCH METHODS IN PREVENTION SCIENCE	3
SBS 74634	SOCIAL DETERMINANTS OF HEALTH BEHAVIORS [1]	3
Concentrations		
Choose from the following:		48-49
Epidemiology		
Health Policy and Management		
Prevention Science		
Minimum Total Credit Hours:		**72-73**

[1] Course may be waived if completed at the master's level. Students who have course requirements waived may graduate with fewer than 72 credit hours, but no fewer than 60 total credit hours.

Epidemiology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
BST 83012	SURVIVAL ANALYSIS IN PUBLIC HEALTH	3
EPI 73034	LONGITUDINAL DATA ANALYSIS	3
EPI 83016	PRINCIPLES OF EPIDEMIOLOGIC RESEARCH	3
Content-Related Electives [1]		9
Culminating Requirement		
EPI 80199	DISSERTATION I [2]	30
Minimum Total Credit Hours:		**48**

[1] Content-related elective courses should be selected by the student with a faculty advisor, depending upon the student's research interest. The courses may be in the College of Public Health or in other disciplines outside the college.

[2] Each doctoral candidate, upon admission to candidacy, must register for Dissertation I for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter Dissertation II, each semester, until all requirements for the degree have been met.

Health Policy and Management Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
HPM 70199	PROFESSIONAL DEVELOPMENT EXPERIENCE	1
HPM 73031	PUBLIC HEALTH POLICY ANALYSIS	3
HPM 81000	PUBLIC HEALTH LAW AND REGULATION	3
Content Related Electives [1]		12
Culminating Requirement		
HPM 80199	DISSERTATION I [2]	30
Minimum Total Credit Hours:		**49**

[1] Content-related elective courses should be selected by the student with a faculty advisor, depending upon the student's research interest. The courses may be in the College of Public Health or in other disciplines outside the college.

[2] Each doctoral candidate, upon admission to candidacy, must register for Dissertation I for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter Dissertation II, each semester, until all requirements for the degree have been met.

Prevention Science Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
SBS 73018	THEORIES OF PREVENTION SCIENCE	3
SBS 73019	EVALUATION RESEARCH METHODS IN PREVENTION SCIENCE	3
Content-Related Electives [1]		12
Culminating Requirement		
SBS 80199	DISSERTATION I [2]	30
Minimum Total Credit Hours:		**48**

[1] Content-related elective courses should be selected by the student with a faculty advisor, depending upon the student's research interest. A minimum 3 credit hours of content-related courses must be in research methods or statistics. The courses may be in the College of Public Health or in other disciplines outside the college.

[2] Each doctoral candidate, upon admission to candidacy, must register for Dissertation I for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter Dissertation II, each semester, until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Pass concentration-specific candidacy exam

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain public health history, philosophy and values.
2. Identify the core functions of public health and the 10 Essential Public Health Services.
3. Explain the role of quantitative and qualitative methods and sciences in describing and assessing a population's health.
4. List major causes and trends of morbidity and mortality in the United States or other community relevant to the school or program.
5. Discuss the science of primary, secondary and tertiary prevention in population health, including health promotion, screening, etc.
6. Explain the critical importance of evidence in advancing public health knowledge.
7. Explain effects of environmental factors on a population's health.
8. Explain biological and genetic factors that affect a population's health.
9. Explain behavioral and psychological factors that affect a population's health.
10. Explain the social, political and economic determinants of health and how they contribute to population health and health inequities.
11. Explain how globalization affects global burdens of disease.
12. Explain an ecological perspective on the connections among human health, animal health and ecosystem health (e.g., One Health).

Full Description

The Ph.D. degree in Public Health bridges public safety and health career pathways to address a nationwide shortage of public health workers.

The Public Health major comprises the following concentrations:

- The **Epidemiology** concentration prepares students to examine the distribution and determinants of diseases in populations. Graduates are able to apply quantitative and qualitative methods to examine critical and/or emerging health issues, gain advanced ability to conduct large studies and analyze data sets in order to project health trends in populations of interest. Students in this concentration

benefit from active faculty research agendas in biopreparedness, public health surveillance systems, chronic disease, cancer and infectious disease epidemiology.

- The **Health Policy and Management** concentration prepares students to design and implement studies and use advanced research methods to examine critical and emerging health issues. The heart of the concentration is a focus on interdisciplinary skills to meet the rapidly changing health needs of communities. Students benefit from active faculty research agendas in health systems research, occupational health and safety, reproductive health, HIV/AIDS, access to health care, health literacy, substance abuse prevention and community-based programming.
- The **Prevention Science** concentration is an interdisciplinary program aimed at promoting healthy behaviors in populations across the life course. Graduates are prepared to design and evaluate public health interventions and have expertise in a variety of theoretical and substantive perspectives for conducting research within systems of the family, health and education, workplace and community. Active faculty research provide students the opportunity to work on community-based prevention research.

Public Health - Undergraduate Certificate

College of Public Health
www.kent.edu/publichealth

About This Program

The Public Health undergraduate certificate integrates key aspects of preventing disease, prolonging life and promoting health through the organized efforts and informed choices of society, organizations, communities and individuals. The certificate program is aimed at students who are interested in gaining exposure to the field of public health, do not intend to pursue a bachelor's degree or already hold a bachelor's or associate degree and wish to broaden their knowledge of public health. Certificate graduates have an understanding of emerging issues in public health, the social and behavioral aspects to preventing disease, environmental health concepts, the changing U.S. health care system and the monitoring of diseases in the community through applied public health research.

Contact Information

- **Gretchen Thomas** | gthoma33@kent.edu | 330-672-6528
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Medical and health services managers

- 31.5% much faster than the average
- 422,300 number of jobs
- $104,280 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning a minimum 71 TOEFL iBT score, minimum 6.0 IELTS score, minimum 47 PTE score or minimum 100 DET score, or by completing the ELS level 112 Intensive English Program. For more information, visit the admissions website for international students.

Transfer Students: Students who have attended any other educational institution after graduating from high school must apply as undergraduate transfer students. For more information, visit the admissions website for transfer students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the program's Coursework tab.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
Certificate Electives, choose from the following:		12
PH 20001	ESSENTIALS OF EPIDEMIOLOGY	
PH 20392	COMMUNITY HEALTH WORKER CERTIFICATION II-INTERNSHIP (ELR)	
PH 23000	COMMUNITY HEALTH WORKER CERTIFICATION I	
PH 30002	INTRODUCTORY BIOSTATISTICS	
PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	
PH 30015	UNITED STATES HEALTH CARE SYSTEM	
PH 30033	PUBLIC HEALTH POLICY AND DECISION-MAKING [1]	
Minimum Total Credit Hours:		**18**

[1] Students in the Bachelor of Science in Nursing degree may substitute NURS 40045 for PH 30033.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	2.000

- Students must declare themselves as a certificate candidate prior to completing half of the courses.
- Students must complete a minimum of 15 credits at Kent State University.

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain public health history, philosophy and values.
2. List major causes and trends of morbidity and mortality in the U.S. or other community relevant to the school or program.
3. Explain the social, political and economic determinants of health and how they contribute to population health and health inequities.
4. Explain how globalization affects global burdens of disease.

College of the Arts

College of the Arts
111 Cartwright Hall
Kent Campus
330-672-2760
collegeofthearts@kent.edu
www.kent.edu/artscollege

Departments and Schools

- School of Art
- School of Fashion Design and Merchandising
- School of Music
- School of Theatre and Dance

Undergraduate Programs

- Art Education - B.F.A.
- Art History - B.A.
- Dance - B.F.A.
- Dance Studies - B.A.
- Fashion Design - B.A.
- Fashion Design - B.F.A.
- Fashion Merchandising - B.S.
- Music - B.A.
- Music - B.M.
- Music Education - B.M.
- Music Technology - B.S.
- Musical Theatre - B.F.A.
- Studio Art - B.A.
- Studio Art - B.F.A.
- Theatre Design, Technology and Production - B.F.A.
- Theatre Studies - B.A.

Minors

- Accessories
- Art History
- Arts Entrepreneurship
- Ceramics
- Dance
- Drawing
- Fashion Media
- Glass
- Jazz Studies
- Jewelry, Metals and Enameling
- Music
- Music in Audio Recording
- Music Technology
- Painting
- Print Media and Photography
- Sculpture and Expanded Media
- Textiles
- Theatre Design, Technology and Production
- Theatre Performance
- Theatre Studies
- World Music

Graduate Programs

- Acting - M.F.A.
- Art Education - M.A.
- Art History - M.A.
- Ethnomusicology - M.A.

- Fashion Industry Studies - M.F.I.S.
- Music Education - M.M.
- Music Education - Ph.D.
- Music Theory - M.A.
- Music Theory - Composition - Ph.D.
- Performance - M.M.
- Studio Art - M.A.
- Studio Art - M.F.A.
- Theatre Design and Technology - M.F.A.

College Policies

Dual Degree/Double Major

School of Art

Students are permitted to double major in more than one division of the School of Art or complete more than one concentration in the same division.

1. Students enrolling in more than one major within the school must complete all course requirements in each major. If the two majors represent different degree programs, a minimum of 140 credit hours must be completed.
2. Students enrolling in a double concentration within the B.F.A. program must complete at least 12 upper-division credit hours within each concentration. In addition, all reviews must be passed and a senior project must be completed in each concentration.

A student taking a second major in art history must complete the language requirement. The program requirements for a double major must be approved in advance in writing by either the director or the division coordinator and become a part of the student's permanent file.

The Hugh A. Glauser School of Music

The Bachelor of Music, Bachelor of Arts degree in Music and the Bachelor of Science degree in Music Technology programs can be combined with approval by the faculty and director of the School of Music. In addition, double majors and more than one concentration within a major can be approved by the faculty and director of the School of Music.

Exhibitions

Students enrolled in a B.F.A. or B.A. program in studio art, and in the B.F.A. in art education, must receive a rating of "satisfactory" on selected works exhibited during their portfolio review.

No-Credit Courses

Some courses do not generate credit within particular programs. ARTH 12001 does not generate credit for majors within the School of Art, but can be used to fulfill Kent Core requirements. Check course descriptions carefully for more information.

Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

Requirements for Admission to Advanced Study for Art Education and Music Education

Admission to advanced study is required of all art education and music education majors and minors prior to enrolling in upper-division education courses. Upon completion of coursework, as determined by program area, students should have satisfied the prerequisites for admission to advanced study. Students must submit an application for advanced study by the second Friday of the term during which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite. Students at the Kent Campus apply for Advanced Study through the College of Education, Health and Human Services Student Portal, which can be accessed through the Vacca Office of Student Services web page. Students completing a licensure program at a regional campus should check with that campus for instructions on how to apply for "Advanced Study." Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to teacher licensure. Please be aware that reapplication may be necessary if postponing advanced study coursework or if withdrawn for one year or more.

Requirements for Admission to Advanced Study for Art Education and Music Education

- College Writing: Students are required to attain a minimum C grade in each writing courses (ENG 11011 and ENG 21011 or equivalent).
- Pre-Advanced Study Coursework: To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and a minimum C grade in one of the following courses (please note that a minimum C grade must be earned in all of the four courses for teacher licensure programs):
  - EPSY 29525
  - SPED 23000
- Grade Point Average:
  - Art Education majors must have earned a minimum 2.500 cumulative GPA in order to be admitted to Advanced Study.
  - Music Education majors must have earned a minimum 2.500 cumulative GPA and a minimum 2.750 major GPA at the time of application in order to be admitted to Advanced Study.

- Disposition Assessment/Professional Disposition Plans (PDPs): Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.
- Advising Appointment: Art Education and Music Education students should make an advising appointment with a professional advisor in the Vacca Office of Student Services (or Regional Campus advising office if completing the program at that campus) for information about applying for Advanced Study and educator licensure. Advising appointments at the Kent Campus are made through the Vacca Office of Student Services' website at www.kent.edu/ehhs/services/voss.
- Teacher Candidate Acknowledgments and Legal Questions for Licensure: Candidates are required to electronically sign four statements acknowledging that they have read and understand the following areas: background check requirements; professional dispositions; licensure application information; legal questions asked on the licensure application. Statements can be found on the student portal.

School of Music Graduate Study

Program Requirements

Each student will be accepted as a major in a specific curricular area. It may be necessary for the student to complete Kent State University requirements for the appropriate undergraduate degree. Students' academic requirements are based on the catalog in effect during their first semester at Kent State University. Students may elect to complete their degrees under the most recent catalog, but must comply with all the new requirements relevant to their program under the new catalog.

Master's Thesis, Essay, Recital and Final Oral Examination

All Master of Music degree candidates in Performance must perform two recitals or one recital and write an essay depending on their specific degree requirements. Final oral examinations are required for all masters programs. The final oral examination may be attempted two times.

Research Tool Requirement

Candidates for the Master of Arts degree in Ethnomusicology must demonstrate a reading and understanding knowledge of one foreign language. Credit hours earned in meeting this requirement are not applied toward the credit hour requirement for the program.

For Ph.D. degree candidates in Music Theory - Composition, this requirement may be either a reading translating knowledge of one foreign language or demonstrated competence in an area of research specified by the doctoral advisory committee and approved by the Graduate Studies Committee. Credit hours earned in meeting this requirement are not applied toward the credit hour requirement for the program. For Ph.D. degree candidates in Music Education, this requirement is MUS 73283 and related research methods courses in the College of Education, Health and Human Services. These courses are applied toward the credit hour requirement for the program.

Ph.D. Candidacy Exams, Dissertation and Dissertation Defense

Doctoral candidates will take a comprehensive examination upon completion of their coursework and research tool requirement. This candidacy exam normally takes place within four years of beginning coursework. All doctoral candidates write and defend a dissertation via a final oral examination. The dissertation phase normally is completed within five years of passing the candidacy exams.

Time Limits

Master of Arts and Master of Music degree candidates must complete their degree within six calendar years after their first graduate registration at Kent State University. Any credit transferred for meeting degree requirements must also have been earned within the six-year period.

Ph.D. degree candidates must complete their degree within nine calendar years after their first doctoral registration at Kent State University. Any credit transferred for meeting degree requirements must also have been earned within the nine-year period.

Workshop Credit

A maximum 4 credit hours of workshop credit may be applied toward certain graduate degrees. The credit hours must pertain to the degree emphasis. Only workshop credits earned with a B grade or higher may be transferred into a program.

School of Music Undergraduate Professional Standards

1. **Ensemble Requirements**
   Ensemble participation is an integral part of every music major's program. All full-time music majors must enroll for credit and participate in an ensemble appropriate to their major performance area until the number of semesters required in the program are completed. Music minors in the College of the Arts must enroll in a major ensemble for a minimum of two semesters. Transfer music minors must enroll in a major ensemble for a minimum of one semester.
2. **Recital Attendance**
   Required recital attendance is intended to enhance the musical perspective of all music majors and give them exposure to a sampling of various genres and performing media. Transfer students must attend a minimum of 10 recitals per semester. Other undergraduate music majors are required to attend a minimum four-year total of 84 concerts or recitals. Attendance at an average of 10-12 School of Music concerts per semester is recommended. Students will be notified of their status in regard to this policy once per semester. Appropriate information for all students will be sent to the college office prior to graduation. Further information is available in the School of Music office.
3. **Applied Music Requirement for the Bachelor of Music**
   a. **36000-level requirements:** All freshmen enter at the 36000-level of applied study. A minimum of four semesters of enrollment are required in the number of applied credit hours as prescribed by the degree program. A jury is performed at the end of each semester. At entrance, all students are informed of the performance standards necessary to advance to the 46000-level as determined by the faculty of each applied area. Transfer students with a minimum of four semesters of applied study (or equivalent) may enter at the 46000-level as determined by the entrance audition.
   b. **46000-level evaluation:** Students in the Bachelor of Music degree program will be evaluated during juries to determine if they meet the 46000-level entrance standard. The results of the 46000-level entry evaluation are:

i. **Pass to the 46000-level**.
ii. **Probation for one semester:** The students will register at the 46000-level and retake the upper-level entrance jury at the end of the probationary semester. If the 46000-level entrance standard is not achieved, the students return to the 36000-level, repeating as needed.
iii. **Failure to pass the entry-level evaluation:** The students remain at the 36000-level of applied study until the 46000-level entrance standard is met.

c. **Required accumulation of 46000-level applied credits**
i. **Performance concentration:** four semesters (16 credit hours)
ii. **Education majors:** three semesters (6 credit hours)
iii. **Composition concentration:** must pass the 46000-level entry evaluation prior to graduation.

d. **46000-level outcome assessment/recital**
i. **Performance requirement***:* All Bachelor of Music performance degree candidates (piano, voice, instrumental) must perform both a one-half junior and a full senior recital; all other Bachelor of Music majors (composition, music education) must perform a half recital. Students who do not pass the recital must repeat 46000-level lessons until the recital is acceptable. Composition students may fulfill the one-half recital requirement in several ways.

e. **Applied music requirements for the Bachelor of Arts in Music**
Students in the Bachelor of Arts in Music program must meet the 46000-level as a graduation requirement and are not required to enroll at the 46000-level. Bachelor of Arts degree candidates are required to perform a half or full senior recital if approved by the faculty while enrolled in applied music or complete MUS 48598.

f. **Applied music requirements for the B.S. in Music Technology**
i. Music technology majors are required to complete a total of six semesters (12 credit hours) of Applied Studio Musicianship. A jury is performed at the end of each semester of study.
ii. Students must meet the Sophomore Proficiency requirement after two semesters and the Senior Proficiency requirement prior to graduation.

4. **Advanced Study Admission Requirements**
All Bachelor of Music degree majors must fulfill certain requirements to enter appropriate advanced standing for program specific upper-division coursework in the School of Music. These requirements are as follows:
a. **Performance concentrations:** All students must meet the requirements for admission to 46000-level applied study as stated above.
b. **Composition concentration:** The composition faculty will evaluate each student's work during the semester in which MUS 21112 is taken to determine if the student should continue to pursue the concentration. A 3.000 GPA is required in music theory classes. A skills test and composition portfolio are required. Specific information may be obtained from the coordinator of theory and composition.
c. **Music Education concentration:** Music education majors must apply for admission into advanced study in the College of Education, Health, and Human Services prior to junior year. Music education majors must also pass the music education professional evaluation in the music education division limited to two attempts of the entire evaluation. Specific information may be obtained from the coordinator of music education.
5. **Grade Standard**
Music majors and minors must earn a grade of C or better in all music courses in order to count them toward graduation and meet prerequisites for subsequent courses. Music courses required to meet the Writing-Intensive Course requirement must be passed with a C or better.
6. **Outcomes Assessment**
Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

To graduate from Kent State University with the B.S. In music technology, students must have successfully completed a music technology Internship through an evaluation by the Music Technology Committee.

Transfer Students to the School of Art

Transfer students with more than two studio art courses should submit a portfolio of work for proper placement. The director of the School of Art may impose additional requirements considered reasonable and necessary. Transfer credits are evaluated consistent with the state Transfer Articulation Guidelines (TAG), although each student will be evaluated individually in terms of their ability to perform within the program. Transfer students should make every effort to complete admission requirements before the deadlines and see an advisor in the School of Art for an evaluation of the portfolio and schedule planning before registration.

College of the Arts Faculty

School of Art Faculty

- Buntin, Phillip D. (2006), Associate Professor, M.F.A., University of Connecticut, 2002
- Commito, Gianna E. (2005), Professor, M.F.A., University of Iowa, 2003
- Curtis, Dadisi A. (2024), Assistant Professor, M.F.A., University of Iowa, 2022
- Ebanks, Davin (2005), Associate Professor, M.F.A., Kent State University, 2010
- Farnsworth, Isabel (1997), Associate Professor, M.F.A., Stanford University, 1995
- Foster, Arron L. (2022), Assistant Professor, M.F.A., University of Georgia, 2017
- Gasper-Hulvat, Marie (2013), Associate Professor, Ph.D., Bryn Mawr College, 2012
- Higgins-Linder, Melissa (2013), Lecturer, M.A., Kent State University, 2017
- Hoeptner-Poling, Linda A. (1986), Associate Professor, Ph.D., Kent State University, 2005
- Johnson, Peter C. (2015), Associate Professor, M.F.A., Penn State University, 2003
- Kan, Koon-Hwee (2003), Associate Professor, Ed.D., University of Illinois-Urbana, 2004
- Kessler, Eli (2019), Assistant Professor, M.F.A., Virginia Commonwealth University, 2008
- Kruse, Anna S. (2023), Assistant Professor , MFA, State University of New York at New York, 2021

- Kuebeck, Andrew (2017), Associate Professor, M.F.A, Indiana University, Bloomington, 2011
- McMahon, Taryn (2013), Associate Professor, M.A., University of Iowa, 2010
- Medicus, Gustav F. (1989), Associate Professor, Ph.D., Indiana University, Bloomington, 1992
- Morabito, John Paul (2022), Assistant Professor, M.F.A., School of Art Institute of Chicago, 2013
- Polo, Darice M. (2004), Associate Professor, M.F.A., University at Albany-SUNY, 1999
- Powell, Shawn K. (2018), Associate Professor, M.F.A., City University of NY-Hunter College, 2009
- Reischuck, Albert W. (1990), Senior Lecturer, M.A., Kent State University, 1991
- Reisig, Shana K. (2018), Associate Professor, Ph.D., University Of New Mexico, 2015
- Roll, Melanie R. (2001), Associate Professor, M.F.A, Kent State University, 2022
- Schatz, Mark K. (2010), Associate Professor, M.F.A., University of Texas-Austin, 2005
- Sokso, Jillian L. (2022), Professor, M.F.A., University of Delaware, 2005
- Underwood, Joseph L. (2017), Associate Professor, Ph.D., SUNY Stony Brook, 2017
- Warner, John-Michael H. (2015), Associate Professor, Ph.D., University of Arizona, 2015

School of Fashion Design and Merchandising Faculty

- Arnett, Joanne M. (2011), Associate Professor, M.F.A., Kent State University, 2013
- Benitez, Margarita (2010), Professor, M.F.A., School of the Art Institute of Chicago, 2008
- Bhaduri, Gargi (2014), Associate Professor, Ph.D., University of Missouri, Columbia, 2014
- Campbell, James R. (2009), Professor, M.F.A., University of California-Davis, 1996
- Copeland, Lauren E. (2017), Associate Professor, Ph.D., Kansas State University, 2015
- Fenn, Joanne (2001), Professor, M.L.I.S., Kent State University, 2007
- Fladung, Daniel J. (2020), Assistant Professor, M.A., Academy of Art University, 2022
- Grieder, Trista L. (2010), Senior Lecturer, M.S., Purdue University Global, 2009
- Hahn, Kim H. (2011), Professor, Ph.D., University of Nebraska-Lincoln, 2005
- Hahn, David H. (2014), Lecturer, M.S., The University of Wisconsin-Stout, 2011
- Hauck, William E. (2000), Assistant Professor, M.A., Northeastern Illinois University, 1981
- Hughes, Jacqueline (2018), Lecturer, B.A., Kent State University, 1994
- Hume, Sara E. (2009), Professor, M.A., Fashion Institute of Technology, 2003
- Hwang, Ja Young (2015), Associate Professor, Ph.D., Iowa State University, 2013
- Kornel, Jasmine A. (2012), Assistant Professor, M.F.A., Kent State University, 2018
- Krifa, Mourad (2017), Associate Professor, Ph.D., University of Haute Alsace, 2001
- LaPolla, Kendra L. (2013), Associate Professor, M.F.A., The Ohio State University, 2010
- Leslie, Catherine A. (2002), Professor, Ph.D., The Ohio State University, 2002
- LoMonaco-Benzing, Rachel E. (2018), Associate Professor, M.S., University of Rhode Island, 2009
- Lou, Xingqiu (2023), Assistant Professor, Ph.D., North Carolina State University, 2020
- Mehta, Archana (2001), Associate Lecturer, B.A., Kent State University, 2002
- Novak, Kathryn E. (2016), Assistant Professor, M.F.A., Kent State University, 2021
- Ohrn, Linda M. (2004), Professor, M.F.A., University of North Texas, 2003
- Palomo-Lovinski, Noel N. (2001), Professor, M.F.A., Kent State University, 2009
- Perrine, William C. (2006), Senior Lecturer, M.A., Western Michigan University, 2004
- Pettys-Baker, Robert (2024), Assistant Professor, Ph.D., University of Minnesota, 2024
- Quevedo, Vincent (2008), Associate Professor, M.F.A., University of Nebraska-Lincoln, 2004
- Riewe, Krissi R. (2019), Assistant Professor, M.F.A., University Of North Texas, 2019
- Stone, Hillary M. (2012), Professor, M.S., School of the Art Institute of Chicago, 1999
- Troy McAndrews, Laura (2024), Associate Professor, Ph.D., University of Missouri, 2015
- Valendza, Lisa A. (2009), Associate Lecturer, M.A., Kent State University, 2015
- Vick, Jihyun (2013), Professor, Ph.D., Iowa State University, 2004
- Walter, Ann Mariko (2008), Associate Lecturer, Ed.D., Kent State University, 2024
- Xepoleas, Lynda M. (2023), Assistant Professor, Ph.D., Cornell University, 2023
- Yoder, Sue J. (2013), Associate Professor, M.F.A., Syracuse University, 2008

School of Music Faculty

- Anderson, Ian (2015), Associate Professor, M.F.A., Middle Tennessee State University, 2009
- Bagwell, Dawn M. (2011), Assistant Professor, M.M., Kent State University, 2012
- Berg, Marla (2009), Associate Professor, M.M., Cleveland Institute of Music, 1983
- Birch, Sebastian A. (2002), Associate Professor, D.M.A., Cleveland Institute of Music, 1997
- Culver, Timothy M. (1999), Professor, M.M., Kent State University, 2002
- Dorfman, Jay (2006), Professor, Ph.D., Northwestern University, 2006
- Fucci, Melissa D. (2002), Professor, M.M., Kent State University, 2009
- Holm, Matthew D. (2017), Associate Professor, Ph.D., Arizona State University, 2006
- Johnstone, Jennifer L. (2002), Associate Professor, Ph.D., Kent State University, 2012
- Ko, Suyeon (2024), Assistant Professor, D.M., Indiana University, 2019

- Labovitz, Sarah J. (2023), Professor, D.M.A., University of Kansas, 2012
- Lee, Donna (1999), Professor, Ph.D., The Johns Hopkins University, 1999
- Lorenzo, Benjamin (2022), Associate Professor, D.M.A., University of Texas at Austin, 2012
- Marshall, Herbert D. (2019), Associate Professor, Ph.D., Temple University, 2002
- Matthews, Wendy K. (2018), Professor, Ph.D., George Mason University, 2007
- McPherson, Eve (2011), Professor, Ph.D., University of California, Santa Barbara, 2009
- McWilliams, Kent M. (2019), Professor
- Mitchell, David E. (2001), Associate Professor, M.M., University of Akron, 1989
- Nanongkham, Priwan (1998), Assistant Professor, Ph.D., Kent State University, 2011
- Noh, Hyunjoo G. (1998), Associate Professor, Ph.D., Kent State University , 2013
- Nowakowski, Mark (2016), Associate Professor, D.M.A., University of Maryland-College Park, 2013
- Olson, Darin K. (2020), Assistant Professor, D.M.A., The Ohio State University, 2011
- Petrella, Diane H. (2021), Professor
- Petrella, Nicholas E. (2021), Assistant Professor, D.M.A., The University of Iowa, 1998
- Resta, Craig M. (2008), Professor, Ph.D., University of Maryland, University College, 2008
- Roberts, Adam (2018), Associate Professor, Ph.D., Harvard University, 2010
- Seachrist, Denise A. (1988), Professor, Ph.D., Kent State University, 1993
- Selvaggio, Robert (2010), Associate Professor, M.M., Manhattan School of Music, 1995
- Sepulveda, Ricardo A. (2003), Associate Professor, M.M., Kent State University, 2008
- Shahriari, Andrew C. (1993), Professor, Ph.D., Kent State University, 2001
- Sundet, Danna S. (2002), Professor, M.M., Kent State University, 2002
- Swope, Matthew B. (2024), Assistant Professor, D.M.A., University of Cincinnati, 2024
- Terceros, Isaac (2024), Assistant Professor, D.M., Indiana University, 2024
- Tiffe, Janine L. (2011), Associate Professor, Ph.D., Florida State University, 2015
- Vardi, Amitai (2012), Associate Professor, M.M., Cleveland Institute of Music, 2002
- Vaughn, Erin M. (2006), Associate Lecturer, M.M., Kent State University, 2015
- Warsaw, Benjamin (2015), Assistant Professor, B.S., Kent State University, 2017
- White, Jay G. (2011), Professor, D.M.A., University of Maryland-College Park, 2005

School of Theatre and Dance Faculty

- Black, Jennifer (2019), Assistant Professor, B.F.A., University of Akron, 1996
- Brown, Courtney (2014), Associate Professor, M.F.A., University of Southern Mississippi, 2008
- Emory-Maier, Ambre G. (2022), Assistant Professor, M.F.A., Ohio State University , 2019
- Fritsche, Amy (2013), Associate Professor, M.F.A., San Diego State University, 2010
- Hardin, Albert A. (2022), Professor, M.F.A., University of Virginia, 1999
- Humes, Thomas W. (2019), Assistant Professor, B.A., Bowling Green State University, 2007
- Hurley, Paul (2018), Associate Professor, M.F.A., University of Delaware, 2007
- Huya, Natalie J. (2003), Senior Lecturer, M.A., Villanova University, 2001
- Kane, Caitlin (2022), Assistant Professor, Ph.D., Cornell University, 2022
- Keenan, Grace A. (2004), Associate Professor, M.F.A., Penn State University, 2012
- Kent, Therese J. (1991), Professor, M.F.A., Michigan State University, 1987
- Kildow, Eric S. (2015), Associate Professor, M.F.A., Savannah College of Art and Design, 2009
- Korecki, Jennifer S. (2012), Associate Professor, M.M., Kent State University, 1996
- Meredith, Catherine E. (2019), Assistant Professor, M.F.A., Hollins University, 2011
- Neuman Lambert, Gennie L. (2023), Assistant Professor, M.F.A., Rutgers University, 2023
- Pauna, Steven R. (2013), Professor, M.F.A., Kent State University, 2000
- Polanco, Fabio J. (2009), Professor, M.F.A., Case Western Reserve University, 1997
- Polunas, Jeffrey W. (2022), Assistant Professor, M.F.A., University of California-Irvine, 2012
- Rockland, Jeffrey M. (2015), Associate Professor, M.F.A., University of California-Irvine, 1992
- Seo, Jakyung (2009), Professor, M.F.A., University of Illinois-Urbana, Champaign, 2004
- Souza, Michelle H. (2019), Assistant Professor, M.F.A., University of San Diego, 2007
- Swoboda, Jonathan F. (2008), Associate Professor, M.M., University of Nebraska, Omaha, 1997
- Wenger, Baz (2009), Assistant Professor, M.F.A., Ohio University, 2022

College of the Arts

College of the Arts (CA)

CA 10195 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours

(Repeatable for credit)This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CA 20004 BEST PRACTICES IN THE ARTS 2 Credit Hours
This arts course highlights best practices and activities needed to thrive in any arts medium. Concepts are reinforced through real-world studio-based projects, and by listening to speakers from diverse artistic mediums and perspectives share strategies that helped them succeed.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 1 other
Grade Mode: Standard Letter

CA 20005 INNOVATIVE APPLICATIONS IN THE ARTS 2 Credit Hours
This arts course encourages students to apply divergent thinking through the lens of a world view to develop a strategy to innovate and flourish in the arts ecosystem.
Prerequisite: None.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 1 other
Grade Mode: Standard Letter

CA 20010 SUCCESS IN THE ARTS 1 Credit Hour
This course prepares students for their professional life in the arts through building academic success skills. This course will help students develop proficiency in time management, goal setting, studying, working with faculty and academic advisors and personal organization.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

CA 20295 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours
(Repeatable for credit)This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CA 30395 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours
(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CA 31300 MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP 2 Credit Hours
This course includes a study of music entrepreneurship and the attributes of successful musicians including creating a project, financing a project, and marketing a project for understanding of career options in various music fields. This course mixes theory with practice and challenges the student to apply concepts and principles to real world situations.
Prerequisite: Music, Music Education or Music Technology major; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

CA 40493 VARIABLE TITLE WORKSHIP IN THE COLLEGE OF THE ARTS 1-5 Credit Hours
(Repeatable for credit) Workshop setting dealing with topics within the College of the Arts.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-5 other
Grade Mode: Satisfactory/Unsatisfactory

CA 40495 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours
(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Standard Letter

CA 41495 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours
(Repeatable for credit)This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course, and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The school concerned clears the proposed course with the College Curriculum Committee.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-5 lecture
Grade Mode: Satisfactory/Unsatisfactory

School of Art

Art (ART)

ART 10022 2D COMPOSITION 3 Credit Hours
This course is a basic introduction to flat pictorial composition. Students will explore the basic principles of design and the application of elements (line, shape, value, texture, and color) to the two-dimensional surface. Students will learn to work with traditional materials as well as new technology. In addition to developing technical proficiency with a variety of materials and tools, emphasis will be placed on visual literacy and critical thinking skills throughout this course. All work (preliminary and final) must be retained for the duration of the semester and beyond as required.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ART 10023 3D COMPOSITION 3 Credit Hours
Course serves as the introductory three-dimensional experience, focusing on fundamental principles, elements and strategies of visual organization. Focus is on creative problem solving using a variety of approaches and materials, and favors non-equipment intensive assignments. Students develop critical thinking and practical skills relating to three-dimensional form and space. This foundation-level course prepares students for subsequent study within all the visual arts.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ART 10024 DIGITAL MEDIA 3 Credit Hours
This course introduces concepts, tools, software and a series of guided exercises to support the creative integration of digital media into making and understanding visual art. In addition to developing technical proficiency with digital media, emphasis is placed on visual literacy and critical thinking skills throughout this course.
Prerequisite: Art Education major or Art History major or Studio Art major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ART 30001 COMMON REVIEW 1 Credit Hour
The course provides an introduction to professional visual arts practices, as well as a candid assessment of a student's emerging strengths. This formative review of digital portfolios, physical artwork and student writing by a panel of School of Art faculty members is intended to assist students in deciding on concentration(s) and a degree program prior to enrollment in upper-division courses.
Prerequisite: ART 10022 and ART 10023 and ART 10024 and ARTH 22007 and ARTS 14000; and two of the following courses: ARTS 14001, ARTS 24002, ARTS 24010, ARTS 24040, ARTS 24051, ARTS 24061, ARTS 25310, ARTS 25400, ARTS 25600 and ARTS 25700; and special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ART 30692 EXPERIENTIAL LEARNING IN THE VISUAL ARTS (ELR) 1-3 Credit Hours
(Repeatable for credit) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on significance of the experience. Learning contract required.
Prerequisite: School of Art major; and junior standing; and special approval of faculty sponsor.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ART 40008 PROFESSIONAL PRACTICES IN VISUAL ARTS (WIC) 3 Credit Hours
Introduction to the concerns and practices of the professional artist/craftsperson.
Prerequisite: Studio Art major; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ART 40099 B.A. STUDIO ART CAPSTONE (ELR) (WIC) 3 Credit Hours
This writing-intensive course is an integrative experience that brings together all components of the B.A. in Studio Art. Students work on a final presentation and supportive cumulative dossier with complementary writing assignments.
Prerequisite: College of the Arts major; and junior standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ART 41093 VARIABLE TITLE WORKSHOP IN ART 1-6 Credit Hours
(Slashed with ART 51093)(Repeatable for maximum of 18 credit hours) Topics vary per course offering.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ART 51093 VARIABLE TITLE WORKSHOP IN ART 1-6 Credit Hours
(Slashed with ART 41093)(Repeatable for credit) Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ART 67199 M.A.THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ART 67299 M.A.THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ART 67199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ART 69199 M.F.A. THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ART 69299 M.F.A. THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ART 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Art Education (ARTE)

ARTE 31001 ART EDUCATION: FOUNDATIONS AND CONCEPTS - ELEMENTARY 3 Credit Hours
An introduction to visual arts education for the young child (PreK-6) using current theory and practice. Curriculum foci include the study of developmental stages of children's art expression and response, creative expression, response dimensions related to art, diversity and educational practices. Course activities include lecture, research, discussion, group activities, studio and field experiences.
Prerequisite: Art Education major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTE 31005 SPECIAL TOPICS: ART EDUCATION- 2-4 Credit Hours
(Repeatable for credit) Content varies per course offering.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter-IP

ARTE 31092 ART EDUCATION :TEACHING PRACTICUM (ELR) 3 Credit Hours
A teaching experience for applying art education concepts. Analysis of instructional problems emphasized. Fifty-four field and/or clinical hours are associated with this course.
Prerequisite: ARTE 31001; and minimum 2.500 overall GPA.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARTE 31096 INDIVIDUAL STUDY ART EDUCATION 2-10 Credit Hours
(Repeatable for credit) Additional study in areas of a student's choice in consultation with adviser.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-10 other
Grade Mode: Standard Letter-IP

ARTE 41002 ART EDUCATION: FOUNDATIONS AND CONCEPTS - SECONDARY (ELR) 3 Credit Hours
This course emphasizes the connections between the development of each student's visual arts education philosophy and its practical applications to teaching, communication with learners at the secondary level, disabled students and non-student audiences, assessment, demonstrations, classroom management, arts advocacy, etc. Off-campus field and/or clinical hours are associated with this course.
Prerequisite: ARTE 31092; and minimum 2.500 overall GPA.
Schedule Type: Practical Experience, Studio
Contact Hours: 7 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARTE 41004 PRE-KINDERGARTEN-12 DESIGN EDUCATION 3 Credit Hours
(Slashed with ARTE 51004) The purpose of this course is to demonstrate the importance of and provide strategies for teaching design in PreK-12 visual arts programs. Students learn the design process and design thinking, adapted specifically for the context of education. The four broad areas of environmental design, communication design, product design and interactive design are covered. The primary focus is on lesson development using the design process, addressing the design areas, working through challenges that integrate with other subject areas and applying design innovation materials and technologies.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTE 41009 ART EDUCATION MAJOR REVIEW 1 Credit Hour
Examination of student's knowledge, proficiency and ability to apply concepts in art and art education.
Prerequisite: Minimum 2.500 overall GPA.
Pre/corequisite: ARTE 41002 and ARTE 41192.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ARTE 41089 INTERNATIONAL EXPERIENCE: ART EDUCATION (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTE 51089) A Kent State faculty-led study abroad experience in art education that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Art Education major; and special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

ARTE 41090 STUDY AWAY: ART EDUCATION (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTE 51090) Travel-based study away in art education at a site or sites away from Kent State University.
Prerequisite: Art education major.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ARTE 41095 SPECIAL TOPICS IN ART EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARTE 51095)Upper-division course whose content changes in accordance with the interest and competence of faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARTE 41096 INDIVIDUAL STUDY-ART EDUCATION 1-6 Credit Hours
(Repeatable for credit) Additional study in areas of students' choice in consultation with adviser.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP

ARTE 41192 ART EDUCATION: FIELD EXPERIENCE (ELR) (WIC) 3 Credit Hours
(Slashed with ARTE 51192) The knowledge and skills emphasized in this course focus on two major areas: (1) planning and teaching visual arts lessons in secondary educational settings with a focus on content and understanding of the theoretical and methodological processes involved, and (2) analyzing, interpreting and critiquing visual arts and design education situations to understand and improve instructional performance. Off-campus field and/or clinical hours are associated with this course.
Prerequisite: Minimum 2.500 overall GPA; and special approval.
Pre/corequisite: ARTE 41002.
Schedule Type: Practical Experience, Studio
Contact Hours: 8.5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ARTE 41525 ART EDUCATION: INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ARTE 51525) Concepts and practices related to teaching visual arts education. Inquiry into visual arts teaching as a professional practice. Emphasis is on teacher as a critical disciplined investigator and culturally relevant practitioner.
Prerequisite: ARTE 41009; and minimum 2.500 overall GPA; and special approval.
Corequisite: ARTE 41592.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTE 41592 ART EDUCATION: STUDENT TEACHING AND SEMINAR (ELR) 9 Credit Hours
Provides a 16-week student teaching experience and seminar. Students must present an official valid certification of Child Safety Training, approved Basic Life Support and ALICE training verification to the clinical experience campus office student portal.
Prerequisite: ARTE 41009; and minimum 2.500 overall GPA; and special approval.
Corequisite: ARTE 41525.
Schedule Type: Practical Experience, Seminar
Contact Hours: 1 lecture, 24 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ARTE 51004 PRE-KINDERGARTEN-12 DESIGN EDUCATION 3 Credit Hours
(Slashed with ARTE 41004) The purpose of this course is to demonstrate the importance of and provide strategies for teaching design in PreK-12 visual arts programs. Students learn the design process and design thinking, adapted specifically for the context of education. The four broad areas of environmental design, communication design, product design and interactive design are covered. The primary focus is on lesson development using the design process, addressing the design areas, working through challenges that integrate with other subject areas and applying design innovation materials and technologies.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTE 51089 INTERNATIONAL EXPERIENCE: ART EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARTE 41089) A Kent State faculty-led study abroad experience in art education that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Art Education major; and graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTE 51090 STUDY AWAY: ART EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTE 41090) Travel-based study away in art education at a site or sites away from Kent State University.
Prerequisite: Major in Art Education; and graduate standing; and special approval.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTE 51095 SPECIAL TOPICS IN ART EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARTE 41095) Upper-division course whose content changes in accordance with the interest and competence of faculty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARTE 51192 ART EDUCATION: FIELD EXPERIENCE 3 Credit Hours
(Slashed with ARTE 41192) The knowledge and skills emphasized in this course focus on two major areas: (1) planning and teaching visual arts lessons in secondary educational settings with a focus on content and understanding of the theoretical and methodological processes involved, and (2) analyzing, interpreting and critiquing visual arts and design education situations to understand and improve instructional performance. Off-campus field and/or clinical hours are associated with this course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience, Studio
Contact Hours: 8.5 other
Grade Mode: Standard Letter

ARTE 51525 ART EDUCATION: INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ARTE 41525) Concepts and practices related to teaching visual arts education. Inquiry into visual arts teaching as a professional practice. Emphasis is on teacher as a critical disciplined investigator and culturally relevant practitioner.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTE 61095 SPECIAL TOPICS: ART EDUCATION 3 Credit Hours
(Repeatable for credit) Topics vary per course offering to reflect the interests and specializations of faculty.
Prerequisite: ARTE 61101; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTE 61096 INDIVIDUAL STUDY IN ART EDUCATION 1-6 Credit Hours
(Repeatable for credit) Specialized study leading to the thesis in art education.
Prerequisite: ARTE 61101 and ARTE 61191 and ARTE 61291; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP

ARTE 61101 RESEARCH SEMINAR IN ART EDUCATION 3 Credit Hours
In this specialized research seminar exploring educational research methods and methodologies, emphasis is placed on the fundamentals of educational research, including how to design and conduct research in visual arts education. An array of methods that are applied in the field are introduced, preparing students to propose their own capstone work.
Prerequisite: Art Education major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTE 61191 SEMINAR IN ART EDUCATION I 3 Credit Hours
(Repeatable for credit) This course is the first seminar that emphasizes the study of prevailing themes in art education. ARTE 61291 completes the study. The curriculum focuses on the ideas of leading scholars and practicing teachers who have shaped practice in the field of art education within the context of the social, political and educational values and beliefs of the time.
Prerequisite: Art Education major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTE 61209 CANDIDACY REVIEW EXAMINATION:ART EDUCATION 1 Credit Hour
A comprehensive review that undertakes a formal assessment of students' knowledge and understanding of concepts in art, education and art education.
Prerequisite: ARTE 61101; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

ARTE 61291 SEMINAR IN ART EDUCATION II 3 Credit Hours
(Repeatable for credit) A continuation of the topics addressed in ARTE 61191. The study of past, prevailing and contemporary issues, and themes in visual arts education.
Prerequisite: ARTE 61191; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTE 61399 ART EDUCATION: GRADUATE PROJECT CAPSTONE 3 Credit Hours
This course is designed for students who have chosen the non-thesis track of the Master of Arts degree in Art Education and will serve as the culminating experience for students completing a project rather than a thesis. The course facilitates research or working on a qualitative/curriculum case study for the final project.
Prerequisite: Art Education major; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Art History (ARTH)

ARTH 12001 ART AS A WORLD PHENOMENON (KFA) 3 Credit Hours
Course explore the essential qualities of art and the motivations for creating art in both Western and non-Western cultures through a thematic paradigm. By the end of the term, students have developed an enhanced ability to identify and describe various media and styles of artistic production, and have a basic knowledge of the major cultural periods and representative artworks in the history of world art. This course is designed for non-art majors, and will not fulfill requirements for School of Art majors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts, Transfer Module Fine Arts

ARTH 22006 ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA) 3 Credit Hours
Examination and interpretation of the major monuments of art and architecture from Paleolithic art to c. 1300 CE. The course addresses global traditions, including regions in Europe, Asia, Africa and the Americas.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts, TAG Arts and Humanities, Transfer Module Fine Arts

ARTH 22007 ART HISTORY: RENAISSANCE TO MODERN ART (KFA) 3 Credit Hours
Examination and interpretation of the major art movements and artists from the early Renaissance through recent decades. The course addresses global history, including art and artists active in Europe, Asia, Africa, and the Americas.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts, TAG Arts and Humanities, Transfer Module Fine Arts

ARTH 22010 INTRODUCTION TO ASIAN ART (DIVG) 3 Credit Hours
The survey introduces arts of pre-modern Asia (with the exception of West Asia and Islamic art in general). Select artistic traditions in South, Southeast and East Asia are considered against their religious, socio-political and other cultural contexts. Major themes include (1) the rise of civilizations, (2) developments of various artistic forms and media, (3) the spread of Buddhism and other religions across the region and (4) trans-cultural relations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ARTH 22021 ART HISTORY: AFRICAN ART (DIVG) (KFA) 3 Credit Hours
An introduction to the arts of Africa with an emphasis on the historical traditions of major kingdoms. Covering a spectrum of regions, students examine primarily sculptural traditions (figural and masquerade) in both royal and ritual contexts. These arts are examined within their social and cultural contexts in the service of politics, as objects of ritual and religious practice, and as evidence of aesthetic choices and achievements. The final segment of the course will address the legacy of these traditions through the colonial period and into modern times.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Fine Arts

ARTH 32000 RESEARCH AND WRITING IN ART HISTORY (WIC) 3 Credit Hours
Introduction to writing styles, methodologies and academic resources for art history research. The course will focus on improving skills in writing about the visual arts through the study of formal analysis, historic context, and modern and contemporary theories and philosophies.
Prerequisite: School of Art major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ARTH 32066 ART AND THEORY SINCE 1940 3 Credit Hours
Visual arts in a global context with emphasis on European and American artists and theory from 1940 to the present.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42001 ART HISTORY METHODOLOGIES 3 Credit Hours
(Slashed with ARTH 52001) This course is designed to introduce participants to the study of art history as a discipline increasingly marked by its diversity of approaches and emphasis on methodology and theory. This seminar will review the representative range of traditional art historical analyses and will study more recent theories of meaning and culture. The course will also examine art historical knowledge in relation to theoretical developments in other disciplines in the humanities.
Prerequisite: ARTH 32000.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 42025 ART OF WEST AFRICA (DIVG) 3 Credit Hours
(Slashed with ARTH 52025) Beginning with the art and architecture from major West African kingdoms, the course follows cultural production from the region through the colonial period and into modernism. The artists of newly-independent West African nations pioneered new visions for how Africans would participate in developing global networks.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ARTH 42028 CONTEMPORARY AFRICAN ART: 1980-PRESENT (DIVG) 3 Credit Hours
(Slashed with ARTH 52028) An in-depth study of African art since the late twentieth century. Focused on artists from the continent and the Diaspora, the course begins by examining the impact that colonialism, with its appropriation, exploitation and reshaping of Africa, had on the arts in Africa (1960-1980). It then analyzes a broad spectrum of modern and contemporary African art forms (painting, printmaking, sculpture, textiles, photography, performance and film) and related art history, exhibition and critical texts from the 1980s to the present, with an emphasis on such issues as patronage, the commodification of art, urbanism, national consciousness, identity formation, new media and the effects of globalization.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ARTH 42036 MEDIEVAL ART 3 Credit Hours
(Slashed with ARTH 52036) Emphasis on major periods of Medieval art (Early Christian, Byzantine, Carolingian, Ottonian, Romanesque and Gothic), treating iconographic themes and styles in a variety of media. Works studied include architecture, manuscript painting, ivory carving, and goldsmith work, most of which were produced by or for members of the clergy, royalty, or the lay aristocracy. The course, therefore, involves significant material relating to political, economic and religious issues. It investigates problems in patronage, function, reception and censorship. A strong emphasis is given to reading primary and secondary sources.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42041 ITALIAN RENAISSANCE ART 3 Credit Hours
(Slashed with ARTH 52041) Study of development of major themes in Italian art from 1200 until about 1450, emphasizing achievements of the masters and analyzing major ideas and theories of the period.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42043 THE HIGH RENAISSANCE AND MANNERISM IN ITALY 3 Credit Hours
(Slashed with ARTH 52043) Covers late 15th century and 16th century painting, sculpture and architecture in Italy. Following discussion of the High Renaissance masters, students examine the works collectively known as the Mannerists. Course gives students a firm grounding in the manifold artistic activity of the 16th century.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42044 VENETIAN RENAISSANCE ART 3 Credit Hours
(Slashed with ARTH 52044) Course provides a survey of Venetian painting, sculpture and architecture from the late 1300s to the late 1500s. Upon completion students have a comprehension of the interrelationship of Venetian art with its unique environment and society.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42045 ITALIAN ART FROM GIOTTO TO BERNINI 3 Credit Hours
(Slashed with ARTH 52045) Course explores the development of art and architecture in Italy from the late Middle Ages to the High Renaissance period. Through an in-depth analysis of the art and history of these periods, students develop an understanding of Italy's role in the overall development of Western civilization. Particular emphasis is given to Florentine Art.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42046 BAROQUE ART OF THE 17TH CENTURY 3 Credit Hours
(Slashed with ARTH 52046) Study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42050 ART AND REVOLT IN THE NINETEENTH CENTURY 3 Credit Hours
(Slashed with ARTH 52050) The nineteenth century is one of the most dramatic time periods in Euro-American art history. Artists and viewers experienced a number of revolutions that profoundly changed the landscape of art and politics. More specifically, nineteenth-century art was created during a violent sweep of colonial expansion, a rise in industrialization, and a revolt against the French Salon. This course considers how artists responded to these social changes by exploring art movements in France and beyond across a wide range of artistic media —including spirit photographs, Moulin Rouge posters, and cemetery sculpture. Students will examine the most canonical nineteenth-century artists while also challenging their placement in the art history canon, which was established at the expense of women and people of color.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42056 AMERICAN ART I: INDIAN WARS TO CIVIL WAR 3 Credit Hours
(Slashed with ARTH 52056) In this first section of American art history, students will explore the evolution of American art from European conquest through the American Revolution, and stretching to the Civil War. This time period in American history is characterized by waves of social unrest followed by periods of peace that American artists reflected and shaped in their work. The American-Indian Wars and the Trans-Atlantic slave trade also profoundly impacted the art and politics of the early United States, inspiring artists to support or protest conflicts in society with their art. Exchanges with African, Indigenous, as well as Asian and European peoples pervaded every aspect of art in the United States. In looking widely at objects such as paintings, clothing, food advertisements, and furniture, this class will examine debates about nationhood in early American art that exploded by the Civil War.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42057 AMERICAN ART II: CIVIL WAR TO CIVIL RIGHTS 3 Credit Hours
(Slashed with ARTH 52057) In this second section and in-depth study of American art history, students will explore shifts and advancements in American art since the closing of the Civil War. New styles in abstraction and technological innovations in photography, lithography, and cinema dramatically altered the trajectory of American art and resulted in an expansion of art museums and patronage. As the United States gained economic power and expanded its borders, American art was also profoundly influenced by movements such as French Impressionism and Mexican muralism, and shaped by artists as close as Canada and as far as Australia. While American artists were debating whether to welcome “foreign” influences in their work, debates over racial segregation and women’s suffrage permeated art and politics on the homefront. In looking widely at objects such as paintings, photographs, silverware, and public monuments, this class will examine the art and visual culture of the United States from the Civil War to Civil Rights movement.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42059 AFRICAN AMERICAN ART AND VISUAL CULTURE (DIVD) 3 Credit Hours
(Slashed with ARTH 52059) This course contextualizes American artists of African descent within the wider framework of U.S. art and visual culture. In looking at a wide range of media—across painting, photography, fashion and food—students study African American visual culture and its profound impact on American art at large. Students also explore the contested concept of “race” as it intersects with the production and patronage of African American art. Furthermore, students consider the benefits and pitfalls of the field and the ways in which art historians, critics and curators have treated African American art in U.S. museums. By the end of this course, students will have a deeper understanding of African American art and its tangled identity politics.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ARTH 42060 RUSSIAN ART 3 Credit Hours
(Slashed with ARTH 52060) This course explores the history of Russian art starting with the legacy of Byzantium and continuing up through the end of the Soviet era, from about 1000 CE to the present. Russia's artistic movements have borrowed from a wide variety of cultures, both from groups that have attacked and conquered Russian territories as well as from groups that Russians themselves have conquered and attacked. We will focus on art that was produced in Russia as well as the cross-cultural influences that shaped and changed this art. Painting will be a dominant focus, coupled with a broad study including decorative arts like porcelain and embroidery as well as architecture, performance and illustration.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42061 EARLY 20TH-CENTURY ART 3 Credit Hours
(Slashed with ARTH 52061) This course explores the history of Early 20th-Century Modern Art up to the Second World War. Painting, sculpture, and architecture will be the dominant focus, coupled with alternative media that may include printmaking, photography, cinema, performance, and textile arts.
Prerequisite: ARTH 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42064 DADA AND SURREALISM 3 Credit Hours
Using a roughly chronological approach, students examine the profound and lasting contributions made by the Dadaists and Surrealists, as well as other revolutionary modernists of the early 20th century who sought to escape the traditional and rational in art and thought with sincerity in spite of the often superficially simple or even sometimes nihilistic appearance of their efforts. Through an analysis of selected works from this period and their relevant precursors, an attempt will be made to define the progressive ideas which led to the dismantling of previous standards and the rise of an anti-art spirit which continues today in various guises. Primary documents are considered regularly to provide students with a wider appreciation for the variety of media (e.g., film, theater, typography) and the issues and characters involved.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42065 FEMINIST AND QUEER ART AND CULTURAL THEORY (DIVD) 3 Credit Hours
(Slashed with ARTH 52065) This advanced and interdisciplinary art history course explores feminist and queer visual histories, with particular attention to related cultural theories. In addition to paradigmatic ideologies of difference and language, this course is based on indispensable and sometimes peripheral postmodern milieux such as politicized identities, economies and the body, the importance of feeling and the everyday, feminist-Marxist critiques of community and the state and notions of lived histories/narratives. In regard to structure, this is a reading intensive course designed to empower students with 'influential' visual and textual languages, as well as knowledge of critical race, gender and sexuality studies. Readings, discussions, projects and knowledges-at-large are applicable in the artist's studio and more broadly, in humanities scholarship.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ARTH 42069 NATIONS AND BORDERS 3 Credit Hours
(Slashed with ARTH 52069) Emphasizing art and visual culture since World War II, this course considers the phenomenon of the nation-state in the context of embodied borders and diasporas. From the historically charged U.S.-Mexico borderlands to the Berlin Wall that divided East and West Germany, modernity is characterized by the development of nations and subsequent nationalisms as well as the delineation of borders and boundaries—and, once unpacked, theoretical and physical embodiments become legible. Taking a historically-grounded and global approach to state production and displacement, critical texts—many of which are grounded in feminist and queer theories—will address various interpretations of boundaries, especially national and corporeal. We will explore the intellectual history of nation-building and subsequent textual analyses of geographic and embodied borders. We will also study specific art historical moments, such as the militarization of the U.S.-Mexico frontera, Israel's occupation of Palestine, treating East and West Berlin as metaphor and allegory, the borderlands of queer and black identities in the United States and present-day Euro-American imperialism. The course format consists of rigorous class discussions guided by readings and illustrated presentations.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42073 EPHEMERAL EXHIBITIONS: WORLD FAIRS, FESTIVALS AND BIENNIALS 3 Credit Hours
(Slashed with ARTH 52073) Revisiting a variety of time-based exhibition formats throughout recent history. From Joseph Paxton's Crystal Palace to the Venice Biennale, students examine a globally-oriented history of landmark exhibitions that were designed to dazzle audiences for a few months before being dismantled. Sponsored by governments, the corporate sector, grassroots movements, or cultural actors, the motivations for these exhibitions are as varied as the actual format the exhibition takes. We discuss not only the framework and ideologies behind such projects, but also the legacies they have had on more permanent arts institutions, as well as criticisms levied against them by artists.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42076 HISTORIES AND THEORIES OF PHOTOGRAPHY AND VISUAL CULTURE 3 Credit Hours
(Slashed with ARTH 52076) Photography is embedded in every aspect of visual culture. As such, this course is a socio-political and socio-cultural study of photography. This course focuses on major developments in the field, including photography's advent, 19th-century commodity, scientific manipulations, 20th century Modernism and postwar aesthetics. Course also sketches political, cultural and theoretical developments and pertinent debates regarding emergence, significance, interpretation, perception and resonance. In addition to manifold moments in histories and theories of photography, course examines critical approaches to the history of art, including ecocriticism, feminism, critical race studies, queer studies and borderlands studies. While effort will be made to survey photography's history, this is not taxonomy of related movements and moments.
Prerequisite: ARTH 32066.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42079 CONTEMPORARY CRAFT: HISTORY AND THEORY 3 Credit Hours
(Slashed with ARTH 52079) This course is designed to provide an overview of the history, theory, and practice of modern and contemporary studio craft, with an emphasis on North America. Students will develop an enhanced ability to identify and describe various media and styles of artistic production normally associated with "craft" genres: ceramics, textiles/fibers, jewelry/metals, glass and wood/furniture. Concurrently, an introduction to basic philosophies, pedagogical styles, and controversial issues that have shaped this unique cultural, social and artistic history will provide a framework for understanding the intersection of art, craft and design in the 21st-century.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42089 INTERNATIONAL EXPERIENCE: ART HISTORY (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52089) Travel-based international experience in art history. The primary benefit will be the observation and study of works of art, firsthand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific works sites.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

ARTH 42090 STUDY AWAY: ART HISTORY (ELR) 1-3 Credit Hours
(Slashed with ARTH 52090)(Repeatable for credit) Travel-based study away in art history to and at a site or sites away from Kent State University. The primary benefit is the observation and study of works of art firsthand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific work sites.
Prerequisite: School of Art major.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ARTH 42091 ART HISTORY SEMINAR 3 Credit Hours
(Repeatable for credit) Open format course with topics announced in advance. Designed to allow detailed examination of selected topics.
Prerequisite: Junior standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 42092 MUSEUM INTERNSHIP (ELR) 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52092) A supervised internship in a regional museum emphasizing the practical application of museological principles and practices.
Prerequisite: Junior or senior standing.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ARTH 42095 SPECIAL TOPICS: ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52095) Topics vary in accordance with the interest and competence of faculty.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARTH 42096 INDIVIDUAL INVESTIGATION:ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52096) Directed independent study with art history faculty.
Prerequisite: Junior or senior standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ARTH 42098 RESEARCH IN ART HISTORY (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52098) Independent research open only to undergraduate students in art history or related fields (by special permission only).
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARTH 52001 ART HISTORY METHODOLOGIES 3 Credit Hours
(Slashed with ARTH 42001) This course is designed to introduce participants to the study of art history as a discipline increasingly marked by its diversity of approaches and emphasis on methodology and theory. This seminar will review the representative range of traditional art historical analyses and will study more recent theories of meaning and culture. The course will also examine art historical knowledge in relation to theoretical developments in other disciplines in the humanities.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 52025 ART OF WEST AFRICA 3 Credit Hours
(Slashed with ARTH 42025) Beginning with the art and architecture from major West African kingdoms, the course follows cultural production from the region through the colonial period and into modernism. The artists of newly-independent West African nations pioneered new visions for how Africans would participate in developing global networks.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52028 CONTEMPORARY AFRICAN ART: 1980-PRESENT 3 Credit Hours
(Slashed with ARTH 42028) An in-depth study of African art since the late twentieth century. Focused on artists from the continent and the Diaspora, the course begins by examining the impact that colonialism, with its appropriation, exploitation and reshaping of Africa, had on the arts in Africa (1960-1980). It then analyzes a broad spectrum of modern and contemporary African art forms (painting, printmaking, sculpture, textiles, photography, performance and film) and related art history, exhibition and critical texts from the 1980s to the present, with an emphasis on such issues as patronage, the commodification of art, urbanism, national consciousness, identity formation, new media and the effects of globalization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52036 MEDIEVAL ART 3 Credit Hours
(Slashed with ARTH 42036) Emphasis on major periods of Medieval art (Early Christian, Byzantine, Carolingian, Ottonian, Romanesque and Gothic), treating iconographic themes and styles in a variety of media. Works studied include architecture, manuscript painting, ivory carving, and goldsmith work, most of which were produced by or for members of the clergy, royalty, or the lay aristocracy. The course, therefore, involves significant material relating to political, economic, and religious issues. It investigates problems in patronage, function, reception, and censorship. A strong emphasis is given to reading primary and secondary sources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52038 HAND MADE BOOKS AND ART 3 Credit Hours
Course examines the history of (predominantly Western) books and reading; of books as locus of several types of visual art (decoration, illustration, vision, commentary); and of visual strategies for a range of communication tasks in selected books from the Middle Ages onward. Students are prepared to understand the variety and efficacy of approaches that have been used by those producing books by hand in the past and at present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52041 ITALIAN RENAISSANCE ART 3 Credit Hours
(Slashed with ARTH 42041) Study of development of major themes in Italian art from 1200 until about 1450, emphasizing achievements of the masters and analyzing major ideas and theories of the period.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52043 THE HIGH RENAISSANCE AND MANNERISM IN ITALY 3 Credit Hours
(Slashed with ARTH 42043) Covers late 15th century and 16th century painting, sculpture and architecture in Italy. Following discussion of the High Renaissance masters students examine the works collectively known as the Mannerists. Course gives students a firm grounding in the manifold artistic activity of the 16th century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52044 VENETIAN RENAISSANCE ART 3 Credit Hours
(Slashed with ARTH 42044) Course provides a survey of Venetian painting, sculpture and architecture from the late 1300s to the late 1500s. Upon completion students will have a comprehension of Venetian art with its unique environment and society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52045 ITALIAN ART FROM GIOTTO TO BERNINI 3 Credit Hours
(Slashed with ARTH 42045) Course explores the development of art and architecture in Italy from the late Middle Ages to the High Renaissance period. Through an in-depth analysis of the art and history of these periods, students develop an understanding of Italy's role in the overall development of Western civilization. Particular emphasis is given to Florentine Art.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52046 BAROQUE ART OF THE 17TH CENTURY 3 Credit Hours
(Slashed with ARTH 42046) A study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52050 ART AND REVOLT IN THE NINETEENTH CENTURY 3 Credit Hours
(Slashed with ARTH 42050) The nineteenth century is one of the most dramatic time periods in Euro-American art history. Artists and viewers experienced a number of revolutions that profoundly changed the landscape of art and politics. More specifically, nineteenth-century art was created during a violent sweep and architecture within the broader context of colonial expansion, a rise in industrialization and a revolt against the French Salon. Western culture and ideas. This course considers how artists responded to these social changes by exploring art movements in France and beyond across a wide range of artistic media—including spirit photographs, Moulin Rouge posters and cemetery sculpture. Students will examine the most canonical nineteenth-century artists while also challenging their placement in the art history canon, which was established at the expense of women and people of color.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52056 AMERICAN ART I: INDIAN WARS TO CIVIL WAR 3 Credit Hours
(Slashed with ARTH 42056) In this first section of American art history, students will explore the evolution of American art from European conquest through the American Revolution, and stretching to the Civil War. This time period in American history is characterized by waves of social unrest followed by periods of peace that American artists reflected and shaped in their work. The American-Indian Wars and the Trans-Atlantic slave trade also profoundly impacted the art and politics of the early United States, inspiring artists to support or protest conflicts in society with their art. Exchanges with African, Indigenous, as well as Asian and European peoples pervaded every aspect of art in the United States. In looking widely at objects such as paintings, clothing, food advertisements, and furniture, this class will examine debates about nationhood in early American art that exploded by the Civil War.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52057 AMERICAN ART II: CIVIL WAR TO CIVIL RIGHTS 3 Credit Hours
(Slashed with ARTH 42057) In this second section and in-depth study of American art history, students will explore shifts and advancements in American art since the closing of the Civil War. New styles in abstraction and technological innovations in photography, lithography and cinema dramatically altered the trajectory of American art and resulted in an expansion of art museums and patronage. As the United States gained economic power and expanded its borders, American art was also profoundly influenced by movements such as French Impressionism and Mexican muralism and shaped by artists as close as Canada and as far as Australia. While American artists were debating whether to welcome "foreign" influences in their work, debates over racial segregation and women's suffrage permeated art and politics on the homefront. In looking widely at objects such as paintings, photographs, silverware and public monuments, this class will examine the art and visual culture of the United States from the Civil War to Civil Rights movement.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52059 AFRICAN AMERICAN ART AND VISUAL CULTURE 3 Credit Hours
(Slashed with ARTH 42059) This course contextualizes American artists of African descent within the wider framework of U.S. art and visual culture. In looking at a wide range of media—across painting, photography, fashion and food—students study African American visual culture and its profound impact on American art at large. Students also explore the contested concept of "race" as it intersects with the production and patronage of African American art. Furthermore, students consider the benefits and pitfalls of the field and the ways in which art historians, critics and curators have treated African American art in U.S. museums. By the end of this course, students will have a deeper understanding of African American art and its tangled identity politics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52060 RUSSIAN ART 3 Credit Hours
(Slashed with ARTH 42060)This course explores the history of Russian art starting with the legacy of Byzantium and continuing up through the end of the Soviet era, from about 1000 CE to the present. Russia's artistic movements have borrowed from a wide variety of cultures, both from groups that have attacked and conquered Russian territories as well as from groups that Russians themselves have conquered and attacked. We will focus on art that was produced in Russia as well as the cross-cultural influences that shaped and changed this art. Painting will be a dominant focus, coupled with a broad study including decorative arts like porcelain and embroidery as well as architecture, performance and illustration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52061 EARLY 20TH-CENTURY ART 3 Credit Hours
(Slashed with ARTH 42061) This course explores the history of Early 20th-Century Modern Art up to the Second World War. Painting, sculpture, and architecture will be the dominant focus, coupled with alternative media that may include printmaking, photography, cinema, performance and textile arts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52064 DADA AND SURREALISM 3 Credit Hours
(Slashed with ARTH 42064) Using a roughly chronological approach, students examine the profound and lasting contributions made by the Dadaists and Surrealists, as well as other revolutionary modernists of the early 20th century who sought to escape the traditional and rational in art and thought with sincerity in spite of the often superficially simple or even sometimes nihilistic appearance of their efforts. Through an analysis of selected works from this period and their relevant precursors, an attempt will be made to define the progressive ideas which led to the dismantling of previous standards and the rise of an anti-art spirit which continues today in various guises. Primary documents are considered regularly to provide students with a wider appreciation for the variety of media (e.g., film, theater, typography) and the issues and characters involved.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52065 FEMINIST AND QUEER ART AND CULTURAL THEORY 3 Credit Hours
(Slashed with ARTH 42065) This advanced and interdisciplinary art history course explores feminist and queer visual histories, with particular attention to related cultural theories. In addition to paradigmatic ideologies of difference and language, this course is based on indispensable and sometimes peripheral postmodern milieux such as politicized identities, economies and the body, the importance of feeling and the everyday, feminist-Marxist critiques of community and the state and notions of lived histories/narratives. In regard to structure, this is a reading intensive course designed to empower students with 'influential' visual and textual languages, as well as knowledge of critical race, gender and sexuality studies. Readings, discussions, projects and knowledges-at-large are applicable in the artist's studio and more broadly, in humanities scholarship.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52069 NATIONS AND BORDERS 3 Credit Hours
(Slashed with ARTH 42069) Emphasizing art and visual culture since World War II, this course considers the phenomenon of the nation-state in the context of embodied borders and diasporas. From the historically charged U.S.-Mexico borderlands to the Berlin Wall that divided East and West Germany, modernity is characterized by the development of nations and subsequent nationalisms as well as the delineation of borders and boundaries—and, once unpacked, theoretical and physical embodiments become legible. Taking a historically-grounded and global approach to state production and displacement, critical texts—many of which are grounded in feminist and queer theories—will address various interpretations of boundaries, especially national and corporeal. We will explore the intellectual history of nation-building and subsequent textual analyses of geographic and embodied borders. We will also study specific art historical moments, such as the militarization of the U.S.-Mexico frontera, Israel's occupation of Palestine, treating East and West Berlin as metaphor and allegory, the borderlands of queer and black identities in the United States and present-day Euro-American imperialism. The course format consists of rigorous class discussions guided by readings and illustrated presentations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52073 EPHEMERAL EXHIBITIONS: WORLD FAIRS, FESTIVALS AND BIENNIALS 3 Credit Hours
(Slashed with ARTH 42073) Revisiting a variety of time-based exhibition formats throughout recent history. From Joseph Paxton's Crystal Palace to the Venice Biennale, students examine a globally-oriented history of landmark exhibitions that were designed to dazzle audiences for a few months before being dismantled. Sponsored by governments, the corporate sector, grassroots movements, or cultural actors, the motivations for these exhibitions are as varied as the actual format the exhibition takes. We discuss not only the framework and ideologies behind such projects, but also the legacies they have had on more permanent arts institutions, as well as criticisms levied against them by artists.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52076 HISTORIES AND THEORIES OF PHOTOGRAPHY AND VISUAL CULTURE 3 Credit Hours
(Slashed with ARTH 42076) Photography is embedded in every aspect of visual culture. As such, this course is a socio-political and socio-cultural study of photography. This course focuses on major developments in the field, including photography's advent, 19th-century commodity, scientific manipulations, 20th century Modernism and postwar aesthetics. Course also sketches political, cultural and theoretical developments and pertinent debates regarding emergence, significance, interpretation, perception and resonance. In addition to manifold moments in histories and theories of photography, course examines critical approaches to the history of art, including ecocriticism, feminism, critical race studies, queer studies and borderlands studies. While effort will be made to survey photography's history, this is not taxonomy of related movements and moments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52079 CONTEMPORARY CRAFT: HISTORY AND THEORY 3 Credit Hours
(Slashed with ARTH 42079) This course is designed to provide an overview of the history, theory, and practice of modern and contemporary studio craft, with an emphasis on North America. Students will develop an enhanced ability to identify and describe various media and styles of artistic production normally associated with "craft" genres: ceramics, textiles/fibers, jewelry/metals, glass, and wood/furniture. Concurrently, an introduction to basic philosophies, pedagogical styles and controversial issues that have shaped this unique cultural, social and artistic history will provide a framework for understanding the intersection of art, craft and design in the 21st-century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52089 INTERNATIONAL EXPERIENCE: ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42089) Travel-based international experience in art history. The primary benefit will be the observation and study of works of art firsthand, first hand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific works sites.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTH 52090 STUDY AWAY: ART HISTORY 1-3 Credit Hours
(Slashed with ARTH 42090)(Repeatable for credit) Travel-based study away in art history to and at a site or sites away from Kent State University. The primary benefit is the observation and study of works of art firsthand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific work sites.
Prerequisite: School of Art major; and graduate standing.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTH 52092 MUSEUM INTERNSHIP 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42092) A supervised internship in a regional museum emphasizing the practical application of museological principles and curatorial practices.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

ARTH 52095 SPECIAL TOPICS:ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42095) Topics vary in accordance with the interest and competence of faculty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARTH 52096 INDIVIDUAL INVESTIGATION:ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42096) Directed independent study with art history faculty.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

ARTH 52098 RESEARCH IN ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42098) Independent research open only to graduate students in art history or related fields.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

ARTH 52166 HISTORIES AND THEORIES OF MODERN AND CONTEMPORARY ART 3 Credit Hours
This course examines both the visual and textual. As such we travel through contemporary moments such as Abstract Expressionism, Post-Painterly Abstraction, Nouveau Réalisme, Pop, Minimalism, Conceptual art and participatory art—to name a few. So too, this course entails a broad overview of critical and theoretical approaches often engaged by contemporary artists such as existentialism, psychoanalysis, structuralism, semiotics, feminist and queer theories, theories of modern sculpture, and theories of photography. When art and theory are taken together, modern and contemporary art underscores the cultural, sociopolitical and economic developments characteristic of the last half of the twentieth century. While time constraints restrict a consideration of every artist, a selection of practitioners will be addressed. That said, this course affirms the importance of questions rather than finite answers, celebrates ambiguity and neglects any attempt at surveying and summarizing the field of modern and contemporary art.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 62000 ART HISTORY RESEARCH METHODS AND RESOURCES 2 Credit Hours
This course is designed to support research and writing at the graduate level in art history. Class time is customized to provide students with assistance in strategies required for graduate research papers and thesis preparation. Significant emphasis will be placed on becoming familiar with different methods and theories of art history research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

ARTH 62091 ART HISTORY SEMINAR 3 Credit Hours
(Repeatable for credit) Open format course with topics announced in advance. Designed to allow in-depth examination of selected topics.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 62095 SPECIAL TOPICS: ART HISTORY 3 Credit Hours
(Repeatable for credit) Discussion and lecture course whose topic changes in accordance with the interest and competence of the faculty. Special focus on problems and issues in the different areas of the discipline.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 62096 SELECTED PROBLEMS: ART HISTORY 3 Credit Hours
(Repeatable for maximum 9 credit hours) Course content changes each semester according to the topic, entailing discussion and lectures on specific problems issues and areas in art history.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 62098 ART HISTORY: GRADUATE RESEARCH 1-6 Credit Hours
(Repeatable for credit) Independent research.
Prerequisite: Art History major; and graduate standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

Art Studio Art (ARTS)

ARTS 14000 DRAWING I 3 Credit Hours
Fundamental drawing and studio experiences; exploration of basic drawing ideas and media. Work produced in class must be retained for later portfolio presentation in ART 30001.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ARTS 14001 DRAWING II 3 Credit Hours
Continued practice in drawing with emphasis upon dimensional representation, pictorial structure and the breakdown of formal elements. Work produced in this class must be retained for later portfolio presentation in ART 30001.
Prerequisite: ARTS 14000.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 24002 DRAWING AS A STUDIO PRACTICE 3 Credit Hours
An introduction to advanced concepts and ideas which enable the student to understand and professionally realize their drawings as a studio practice. Work produced in this course must be retained for later portfolio presentation in ART 30001.
Prerequisite: ARTS 14000 and ARTS 14001.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 24010 INTRODUCTION TO FINE ART PHOTOGRAPHY 3 Credit Hours
Introductory studio/lecture course which introduces fine art photography with an aesthetic, contemporary approach. Students learn traditional and digital photographic image-making applications and the historical underpinnings of the photograph in modern art. Research paper and portfolio required. Work produced in this class must be retained for later portfolio presentation in ART 30001.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 24040 INTRODUCTION TO PRINT MEDIA 3 Credit Hours
Course gives the beginning student an overview of basic printmaking techniques and an understanding of what a print is, its form in both unique and multiple formats, and how these function in culture. Printmaking processes result in a rich array of pictorial possibilities and methodological approaches. Students are exposed to the basic techniques and concepts of relief, intaglio and monotype applications for printmaking.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ARTS 24051 INTRODUCTION TO SCULPTURAL PRACTICE 3 Credit Hours
Course provides a firm grounding in the rudiments of sculpture and sculpture's expanding field. Drawing on historical, aesthetic and technical strategies of generating and understanding sculpture; students are guided toward the realization of three-dimensional form. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work, engendering a better understanding of how sculpture is situated within the context of culture and society at large. Students explore the formal properties and expressive potential of materials, including mold making and casting, wood, metal and experimental media. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 24061 INTRODUCTION TO PAINTING 3 Credit Hours
Acrylic-based media is used to introduce the fundamentals of building a painting, the development of a sophisticated painting vocabulary, and a confident understanding of color. Emphasis on observational painting from life through varied techniques, with an introduction to tools, processes and best studio practices. Work must be retained for later portfolio presentation in Art 30001.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 25310 FOUNDATIONS IN WEAVING 3 Credit Hours
Weaving – the systematic interlacement of two elements – is a direct way to construct a plane while simultaneously creating surface imagery. Integration of structure and surface provides the foundation for exploration with a focus on the development of constructed form to create compositional fields. Students are introduced to weaving on the four-shaft floor loom through the study of basic weave structures, fiber types, dye processes and yarn composition. The predictability of loom-controlled weaves is complicated with the exploration of hand dyed yarns and a variety of weaver-controlled techniques including tapestry, brocade and inlay. Study of the global, historic and contemporary position of weaving as an artistic discipline occurs through readings, presentations and class discussions. Overall, emphasis is placed on the development of a strong technical language to further expression with an awareness of from where materials and techniques come. In this intensive hands-on class, students produce both experimental compositions and finished works. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 25400 CERAMICS I 3 Credit Hours
An introduction to the use of clay as applied to the design and construction of utilitarian and sculptural forms. Major emphasis is on developing hand building skills and wheel throwing techniques. Instruction in the basic understanding of clay bodies, glazes, decoration and firing of high-fire stoneware ceramics.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ARTS 25600 INTRODUCTION TO GLASS WORKING 3 Credit Hours
Introduction to studio glass through technique and brief history. Both basic glass blowing and glass casting techniques and problems are covered.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 25700 INTRODUCTION TO JEWELRY METALS 3 Credit Hours
Introduction to basic jewelry and metalsmithing techniques including cold connection, sheet fabrication, forming and finishing. Emphasis on advancing design skills and critical analysis. Exposure to historical and contemporary works.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34002 FIGURE DRAWING 3 Credit Hours
(Repeatable for credit) Extensive studio practice of traditional and contemporary approaches to the human figure. Critical analysis of the figure from the Renaissance through postmodernism. Students work from a nude model.
Prerequisite: ARTS 24002.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34003 DRAWING: STRUCTURE AND EXPERIMENTATION 3 Credit Hours
(Repeatable for credit) Extensive exploration of advanced drawing concepts and ideas as strategies for experimentation with process and materials.
Prerequisite: ARTS 24002.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34043 INTAGLIO 3 Credit Hours
(Repeatable for credit) This class is designed to give the intermediate student an overview of various intaglio processes in relationship to contemporary art practice. During this hands-on studio experience, students will apply principles and techniques taught in class into the evolution of their own personal aesthetics. The resulting visual statements will combine those principles, techniques, and aesthetics with ideas and conceptual content.
Prerequisite: ARTS 24040.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34044 SCREENPRINT 3 Credit Hours
(Repeatable for credit) This class is designed to give the intermediate student an overview of screenprint techniques in relationship to contemporary art practice. During this hands-on studio experience, students will apply principles and techniques taught in class into the evolution of their own personal aesthetics. The resulting visual statements will combine those principles and aesthetics with ideas and conceptual content.
Prerequisite: ARTS 24040.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34045 LITHOGRAPHY 3 Credit Hours
(Repeatable for credit) This class is designed to give the intermediate student an overview of various lithographic processes in relationship to contemporary art practice. During this hands-on studio experience, students will apply principles and techniques taught in class into the evolution of their own personal aesthetics. The resulting visual statements will combine those principles and aesthetics with ideas and conceptual content.
Prerequisite: ARTS 24040.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34050 LIFE MODELING 3 Credit Hours
(Repeatable for maximum of 6 credit hours) Traditional life modeling course in which students work almost exclusively from observation. The focus is on developing skills with clay, understanding the human form, understanding proportions, learning how to make armatures as well as developing a personal and expressive way of approaching the figure.
Prerequisite: ARTS 24051.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34051 SCULPTURAL OBJECT 3 Credit Hours
Course builds on ARTS 24051 with a greater emphasis on content, proficiency, technical expertise, craftsmanship and understanding of contemporary sculpture. Students explore the object in space, delineating issues of scale, materiality, representation, abstraction, metaphor and hybridity. Drawing on historical, aesthetic and technical strategies of generating and understanding sculpture, students are guided toward the realization of more sophisticated and complex ways of handling materials and incorporating meaning. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work, engendering a better understanding of how sculpture is situated within the context of culture and society at large. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.
Prerequisite: ARTS 24051.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34052 TIME ARTS 3 Credit Hours
This interdisciplinary course investigates the fundamentals of time-based media and its intersection with sculptural practice. Students build on concepts from ARTS 24051 to gain a broader understanding of multiple methods of making including performance, video, site and situation-specific works, as well as the use of traditional sculptural materials. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work engendering a better understanding of how sculpture is situated within the contemporary art world. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.
Prerequisite: ARTS 24051.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34053 SITE AND INSTALLATION 3 Credit Hours
This interdisciplinary course builds on concepts introduced in ARTS 24051, and expands on a variety of approaches in developing site-specific installations by considering the relationship between object/context, public/private, interior/exterior and urban/rural. Through the manipulation of materials, found objects and time-based media, students are introduced to concepts of space, intention, site and intervention through experimental approaches. Students further develop an understanding of material and context through in-depth readings, lectures and critical dialogue. Sculptural techniques, performance, photography and video art are covered and incorporated into the course. Studio time is supplemented by readings, lectures and site visits around campus.
Prerequisite: ARTS 24051.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34061 INTERMEDIATE PAINTING 3 Credit Hours
Continuation of painting from observation with an introduction to oil paints and mediums. Students will look outside of the still life at various subjects including spatial dynamics, the figure, and abstracted imagery. Introduction to oil painting tools, processes, and best studio practices.
Prerequisite: ARTS 24061.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34062 PAINTING STRATEGIES: PROCESS AND CONTENT 3 Credit Hours
This course focuses on conceptual prompts relative to contemporary issues to encourage a variety of processes and material approaches to making paintings. Students continue the idea of building a painting through the iterative process of making, analyzing, and editing their work throughout the semester. The painting is a live surface, a place to collect and record information, and this course insists that students consider a wide range of formal and conceptual choices to best address content. Each project will be initiated with rigorous research and further supported by exposure to visual examples of historic and contemporary painting, readings, written responses, seminar-style discussions, and numerous critiques of both in-progress and finished work.
Prerequisite: ARTS 34061.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34063 PAINTING STRATEGIES: IMAGE AND CONTENT 3 Credit Hours
This course investigates various contemporary painting strategies through the use of images as source materials, with a strong emphasis on narrative. Moving away from direct observation and towards the abstraction of imagery, students will be asked to approach their practice through research, preliminary studies and sketches, and a self-driven investigation of the use of images to create concept. Various prompts will be assigned and are designed to provide students with a stronger understanding of the use of found, self-produced, or appropriated imagery as reference for their work, while helping each student build a direction for their painting practice. We will look to other mediums such as film, photography, collage, and advertising to inform the painted image and improve the reading of contemporary painting. We will look to other mediums to better contextualize the painted image in contemporary art.
Prerequisite: ARTS 34061.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35095 STUDIO ART: SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) Specialized courses in studio art that focus on specific techniques and media.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35302 FELTMAKING 3 Credit Hours
Felt is an anti-fabric. Unique among textiles, feltmaking is the only method of cloth construction that wholly denies the grid. Through hands-on intensives and independent research, students engage the unique attributes of feltmaking through planar, pictorial and dimensional outputs. Felt's relationship to conceptual art, post-modernist sculpture, kitsch and camp are explored alongside the study of its social and cultural position within the global history of textiles. Material and technical vocabularies are framed through course texts, presentations and critical discussions. Students output studies and realized works which engage felt as an artistic medium. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35305 TEXTILES: ACCESSORIES - DESIGN AND PRODUCTION 3 Credit Hours
Focus is on the design and production of textile accessories using the structural process of weaving. Texture, material, and color are critically and creatively considered in relation to the development of unique functional objects. Professional design objectives are presented.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35310 OFF-LOOM 3 Credit Hours
This course focuses on the architectural aspects of interlacement. Moving off the loom, students construct with thread, yarn and other long flexible materials to transform line into planar or sculptural form. Explorations engage space and the pliability of textiles to emphasize the physical and tactile aspects of the materials and construction methods inherent to fiber. Processes such as plaiting, netting, knotting, looping, wrapping, coiling, ropemaking and basketry provide a foundational vocabulary in the exploration of dimensional textiles. The use of traditional materials are combined with found materials to further engage the question of material meaning. Students approach the sensibilities of weaving outside of highly technologized looms by working with direct and accessible tools to find freedom in the pursuit of experimental form. These material and technical vocabularies are framed through course texts, presentations and critical discussions. Students output studies and realized works which engage relief, sculpture and space. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35311 PRINT FOR TEXTILES AND ALTERNATIVE SURFACES 3 Credit Hours
As a holistic exploration of printed textiles, this course presents a range of processes for printing on cloth and alternative substrates. The use of inks, dyes, resists, discharges and additional chemical processes are introduced and explored. Students create hand-drawn, computer generated and photographic images to explore foundational print vocabularies such as block printing, mono printing, screen printing, multiples, color relationships, composition, repeat patterns, color layering, CMYK and experimental alternative processes. The relevance of printed textiles in the expanded field of contemporary art is emphasized. Interdisciplinary and experimental uses of the printed surface are encouraged throughout the development of personal research and practice. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35312 DIGITAL TEXTILES 3 Credit Hours
With connections to technology and industry, textile practices employ digital platforms to speculate form and simulate materiality. Building off these techno-industrial strategies, students engage hybrid making that moves between the screen and material to imagine textile futures. Workshops present a digital textile vocabulary encompassing digital design, repeat and pattern layouts and material simulation. Student work is output through digital fabrication resources at the DI HUB. Coursework considers practices that engage textiles across experiential and technological platforms in contemporary art and design. Essential to this inquiry, students participate in critical discussions of core texts alongside their own making. Studio production engages digital design and outsourced fabrication. This work yields studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35313 BACKSTRAP WEAVING 3 Credit Hours
This rhizomatic potential of weaving is exemplified with backstrap weaving where looms are constructed and altered freely according to the improvisational vision of the weaver. Working from this orientation, this course engages the fluidity of the backstrap loom to transgress binary thinking, and further integrate skill building alongside conceptual development. Students combine traditional and experimental materials with the exploration of four-selvedge cloth, brocade and double cloth to develop a rigorous vocabulary. Visual, pictorial, architectural, sculptural, performative and nomadic practices are explored in a polynary pursuit of weaving. Making occurs in concert with the study of woven cosmologies that predate the modernist lineage. Studio production oscillates between generating material vocabularies and self-directed making workshopped through regular critiques. This coursework considers weaving expansively to disrupt dominant paradigms that define textility through technological and social binaries. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35316 DYE AND COLOR 3 Credit Hours
Color is a uniquely slippery element that can shift before our eyes just as it inflects social, political and emotional meaning upon the visual world. In this course, dyes are an interface to explore the formal and conceptual possibilities of color. Students are introduced to natural and synthetic dye technologies, and develop vocabulary in immersion dyeing, direct application of dyes, dye resists and dye discharges. Alongside material outputs, students investigate the social, economic and historic position of dyes and dyestuffs. Consideration of color as a source of content is a primary point of focus. Coursework includes studio activity, critical discussion of core texts and individualized research. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35400 FUNCTIONAL APPROACHES TO CLAY 3 Credit Hours
(Repeatable for credit) Intermediate ceramics course focused on creating functional pottery utilizing the wheel and hand building. A range of techniques are demonstrated to build skills and understanding of pottery making, design, function, surface decoration and the concept of made forms. Students learn how to make clay and glazes from dry materials as well as how to fire a gas kiln.
Prerequisite: ARTS 25400.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35401 SCULPTURAL APPROACHES IN CLAY 3 Credit Hours
(Repeatable for credit) An intermediate course focusing on all aspects of sculptural ceramics. Course may include explorations in three-dimensional form, the human figure, mold making, multiples and installation.
Prerequisite: ARTS 25400.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35602 FLAMEWORKED GLASS 3 Credit Hours
(Repeatable for credit) An investigation of techniques, tools, equipment and materials involved in glass lampworking processes. The course covers basic melting, shaping and blowing with a glass flameworking torch.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35603 GLASS BLOWING 3 Credit Hours
(Repeatable for credit) Further exploration of glass blowing techniques. Design, form, color and execution are emphasized.
Prerequisite: ARTS 25600.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35604 SCULPTURAL AND KILN-FORMED GLASS 3 Credit Hours
(Repeatable for credit) An overview and exploration of sculptural and kiln-formed glass techniques. Casting, pattern making, mold making and cold construction are covered. Design, form, content and technical execution and understanding operations of equipment are emphasized.
Prerequisite: Junior standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35700 JEWELRY CONCEPTS AND TECHNIQUES 3 Credit Hours
An in-depth exploration of jewelry making techniques such as enameling, casting, stone setting, mechanisms and fabrication. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.
Prerequisite: ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35701 METALSMITHING CONCEPTS AND TECHNIQUES 3 Credit Hours
Course offers an in-depth exploration of larger scale fabrication, mechanisms, chasing and repoussé and hammer working techniques (raising, forging and shell forming). Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.
Prerequisite: ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35704 ENAMELING CONCEPTS AND TECHNIQUES 3 Credit Hours
(Repeatable for credit) An in-depth exploration of vitreous enameling techniques on two-dimensional surfaces. Champlevé, cloisonné and sifted enamel approaches are highlighted. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.
Prerequisite: ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44002 ADVANCED DRAWING FOR ALL DISCIPLINES 3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 54002) An advanced drawing course, open to all studio disciplines, with an emphasis on students pursuing individually conceived problems in close consultation one-on-one with faculty.
Prerequisite: ART 30001; and ARTS 24002.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44010 ADVANCED FINE ART PHOTOGRAPHY 3 Credit Hours
Combined studio/lecture course offering more advanced, conceptual approaches to the contemporary applications of photographic imaging for artists. Students work with larger scale printing formats, more involved research and greater depth of involvement with the photographic medium.
Prerequisite: ARTS 24010 and ART 30001.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44011 DIGITAL FINE ART PHOTOGRAPHY 3 Credit Hours
(Slashed with ARTS 54011) Students develop their technical and conceptual skills in fine art digital photography, and develop a contemporary approach to working with the medium. Students explore various photographic and digital techniques, and form an awareness of such techniques in contemporary photography.
Prerequisite: Minimum C grade in ART 10022.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

ARTS 44043 ADVANCED PRINT MEDIA 3 Credit Hours
(Repeatable for maximum 9 credit hours) Advanced printmaking course with emphasis on students producing new, individually conceived visual works in print media in close consultation with faculty.
Prerequisite: ART 30001; and ARTS 34043 or ARTS 34044 or ARTS 34045.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44045 ART OF THE BOOK 3 Credit Hours
(Slashed with ARTS 54045) An introduction to artists' books. A variety of binding methods and strategies for creating art through alternative and traditional book forms are introduced. Students complete projects and develop a personal visual language through the book form.
Prerequisite: Junior standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44046 PAPERMAKING 3 Credit Hours
(Slashed with ARTS 54046) This course introduces students to both traditional and experimental uses of handmade paper. This course combines presentations, demonstrations, group brainstorming sessions, field trips and critiques to apply towards papermaking projects. An artist research presentation and final presentation are required to encourage students to engage in outside resources and self reflect on semester-long growth. Papermaking techniques include but are not limited to: European sheet formation, pulp pigmenting, pulp painting, stenciling, embedding, paper casting and sheet wrapping. Paper fibers incorporated in this course include but are not limited to: abaca, cotton, flax and mulberry. Both two-dimensional and three-dimensional approaches to papermaking are explored. Exploration and experimentation are encouraged with equal demands on craft.
Prerequisite: Junior standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44051 ADVANCED SCULPTURAL PRACTICE 3 Credit Hours
(Repeatable for credit) Course is self-directed, in which students create a series of sculptural works in consultation with the instructor and through ongoing student-led presentations, discussions and in-progress and final critiques. Emphasis is on creating a body of work throughout the semester that is informed by and demonstrates an awareness of contemporary practice in terms of approaches to content, form and presentation. Students can work in a variety of ways: object making, installation, site-based and/or time-based approaches. Research and writing are emphasized. Readings, slide presentations, discussions and critiques help provide context and vocabulary for student development.
Prerequisite: ART 30001 and ARTS 24051; and ARTS 34051 or ARTS 34052 or ARTS 34053.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44060 ADVANCED PAINTING: PRACTICE AND THEORY 3 Credit Hours
(Repeatable for credit) Advanced painting course with an emphasis on pursuing individually conceived problems in close consultation with faculty.
Prerequisite: ART 30001; and ARTS 34061; and ARTS 34062 or ARTS 34063.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44070 DIGITAL FABRICATION IN STUDIO ART 3 Credit Hours
(Slashed with ARTS 54070) This course is an introduction to digital fabrication technologies as they relate to a studio practice. Mastery of software skills enables one to better explore object-making as a medium of personal expression. In addition to technical skills, the course will introduce relationships between form, subject matter, and content. Projects will include technical and conceptual problem solving, design lessons, object making and short student lead initiatives to connect to maker spaces and industries that can support future making. Instructor facilitated discussions between students will form a community of mutual learning.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44091 VARIABLE CONTENT SEMINAR: STUDIO ART 3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 54091) Contemporary issues related to visual arts are explored through presentation, lecture, and discussion. Guest speakers augment staff.
Prerequisite: Junior or senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTS 44096 INDIVIDUAL STUDY: STUDIO ART 1-6 Credit Hours
(Repeatable for credit) Additional study in area of student's choice in consultation with advisor.
Prerequisite: ART 30001; and a major in Studio Art; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-12 other
Grade Mode: Standard Letter

ARTS 44098 RESEARCH IN STUDIO ART (ELR) 1-3 Credit Hours
(Repeatable for credit) Studio research in the visual arts.
Prerequisite: Junior or senior standing.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ARTS 44192 INTERNSHIP OR PRACTICUM IN STUDIO ART (ELR) 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 54192) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts, and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on the significance of the experience.
Prerequisite: A major in the School of Art; junior or senior standing; and special approval of faculty sponsor.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ARTS 45080 KENT BLOSSOM ART 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 55080) Studio exploration of selected concepts in studio art: painting; drawing; sculpture and expanded media; print media and photography; ceramics; glass; jewelry, metals and enameling; textiles. Content varies with each section offered.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter-IP

ARTS 45089 INTERNATIONAL EXPERIENCE: STUDIO ART (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 55089) A Kent State faculty-led study abroad experience in studio art that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Studio Art major; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

ARTS 45090 STUDY AWAY: STUDIO ART (ELR) 1-3 Credit Hours
(Slashed with ARTS 55090)(Repeatable for credit) Study away in studio art disciplines at a site at or away from Kent State University.
Prerequisite: Studio Art major.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ARTS 45095 SPECIAL TOPICS: STUDIO ART 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 55095) Specialized courses in studio art that focus on specific techniques and media.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter

ARTS 45098 SENIOR THESIS RESEARCH AND PROPOSAL (ELR) 1 Credit Hour
(Repeatable for credit) Preparatory course, which acts as an exploratory period for students to develop their ideas - conceptually, thematically and materially - through research, writing and physical material studies. Upon successful completion, students may continue with ARTS 45099.
Prerequisite: Major in Studio Art; senior standing; and special approval.
Schedule Type: Research
Contact Hours: 1.6 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ARTS 45099 SENIOR THESIS EXHIBITION (ELR) 3 Credit Hours
This course prepares students for the challenges of a creative professional practice in their chosen discipline. As the culmination of undergraduate studies, the course serves as a capstone experience for students in their chosen concentration. Provides students an opportunity to independently develop and create a body of work for exhibition and oral review with faculty. Requires the completion of an undergraduate thesis and professional caliber photo documentation of the exhibition.
Prerequisite: ART 30001; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ARTS 45300 JACQUARD: DIGITAL WEAVING 3 Credit Hours
(Slashed with ARTS 55300)(Repeatable for credit) The digitally interfaced jacquard goes beyond the limitations of the floor loom, allowing for direct control of individual threads to enable image materialization. Incorporating mediation and handwork, students explore the historical and conceptual interstices of digital technology, weaving and picture-making. This advanced course investigates the tensions between digital interfaces and material outputs while engaging their cooperative possibilities. Inquiries into the implications of aesthetics, skill and technology are explored alongside the relationship of cloth and image. A vocabulary of woven constructions, patterns, colors and textures are developed using the digital jacquard loom. Coursework incorporates the computer, handweaving, reading, research and critical dialogue. A personal laptop computer is required for this course. We reclaim the jacquard as a hand loom to articulate form that can only emerge through the confrontation and synthesis of body and technology. The weaver embodies the cyborg. Students who do not meet the prerequisites may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: ARTS 45314 or ARTS 45351; and junior standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45301 TEXTILES: ADVANCED STUDIO 3 Credit Hours
Structured time for individual investigations in textiles. Emphasis on self-designed study. Bi-weekly presentations of contemporary work in textiles and weekly discussions or critiques with open studio.
Prerequisite: ART 30001; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45307 TEXTILES: WEAVING AND COLOR 3 Credit Hours
(Slashed with ARTS 55307) This course will provide students with an opportunity to explore numerous techniques that emphasize the interaction of color in relation to the unique interlacement process of weaving. Use of different looms (including the floor and frame) will provide the means to integrate color with patterns and image in the connection of warp and weft. Immersion dyeing will be introduced along with specialized direct dye application methods.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45308 TEXTILE ARTS AND GENDER 3 Credit Hours
(Slashed with ARTS 55308) Textile Arts and Gender is designed as an exploratory learning experience. Through weekly readings and discussions, students will engage with historical and contemporary ideas of how textiles relate to gender and how this informs contemporary textile art practice. Simultaneously, students will be learning textile art techniques chosen because of their close association with historical notions of the feminine, the decorative, and the domestic. Students will also study the contemporary use of these same techniques in textile works that explore the concepts of gender, feminism, and subversion.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45314 PRACTICES IN WEAVING: TAPESTRY 3 Credit Hours
(Slashed with ARTS 55314)(Repeatable for credit) This intensive studio course considers tapestry expansively as an interface through which weaving contributes to aesthetics and meaning according to its own logic and history. Woven form is realized in collaboration with the tectonic grid of the loom, yielding a unique relationship to image-making; the structural surface and the image it bears are one and the same. Working with multi-harness floor looms, students engage this question through rigorous material explorations. Vocabulary is expanded through the study of double cloth, discontinuous/supplementary wefts and dye processes. The position of weaving as a progenitor of abstraction and the role of color as a catalyst for meaning are essential points of inquiry. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. This work considers the practice of weaving as an expansive playground to complicate the paradigms of contemporary art with textility. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: ARTS 25310.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45351 PRACTICES IN WEAVING: LOOM-THINKING 3 Credit Hours
(Slashed with ARTS 55351)(Repeatable for credit) This intensive studio course focuses on weaving and its relationship to the evolving landscape of contemporary art. Working with multi-harness floor looms, students engage rigorous questions in imagery, sculptural form and spatial intervention. Vocabulary is expanded through the study of complex woven constructions, hand and digital drafting and dye processes. Emphasis is placed on developing fluency with the language and logic of the loom. Here, students enter the space of “loom-thinking” to create, mutate, subvert and interrupt weave drafts and thread interlacements in the production of woven form. Through their developing technical virtuosity, students push the algorithmic sensibility of weaving toward visual and material poetics. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. This work considers the practice of weaving as an expansive playground to complicate the paradigms of contemporary art with textility. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: ARTS 25310.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45400 ADVANCED CERAMICS 3 Credit Hours
(Repeatable for credit) Course is designed to assist and guide students in developing their own personal art practice, concepts and skills using the ceramic medium. Personal research and critical thinking are emphasized during class discussions and critiques.
Prerequisite: ART 30001; and ARTS 35400 or ARTS 35401.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45600 ADVANCED GLASS WORKING 3 Credit Hours
(Repeatable for credit) Individual exploration of sculptural and hot glass techniques. Design, form, content and execution strongly emphasized. Introduction to studio facility design, construction and maintenance.
Prerequisite: ART 30001; and two of the following courses: ARTS 35602, ARTS 35603 and ARTS 35604.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45700 JEWELRY DESIGN AND PRODUCTION 3 Credit Hours
Course examines strategies and techniques to effectively enter the jewelry field. Industrial applications to produce multiples, research into specialized markets and packaging of work are addressed. Design and professional practice skills are emphasized.
Prerequisite: ARTS 35700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45705 CAD FOR JEWELRY 3 Credit Hours
(Slashed with ARTS 55705) Students develop a set of comprehensive computer-aided design (CAD) skills to be utilized in a variety of studies such as sculpture design, jewelry making and many others. CAD skills are developed through the investigation of laser cutting, 3D modeling, project planning and 3D printing. Mastery of these techniques enable students to better explore object-making as a medium of personal expression. Although there are many technical components to learn, the instructor also focuses on the relationship between form, subject matter and content.
Prerequisite: ART 30001 and ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45707 CONTEMPORARY APPROACHES IN METALSMITHING 3 Credit Hours
Course introduces students to current trends in the creation of metalsmithed objects. “Materialsmithing”, new technologies and industrial applications are joined with historically important metalsmithing principles in the ideation and creation of new works. Research and conceptual development are emphasized.
Prerequisite: ART 30001 and ARTS 35701.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45708 BODY ORNAMENTATION 3 Credit Hours
(Slashed with ARTS 55708)(Repeatable for credit) Course addresses the expanding theories and techniques used to adorn the body within jewelry metals and enamel. New technologies, material exploration and contemporary practices in adornment are presented. Conceptual development and research are emphasized.
Prerequisite: ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54002 ADVANCED DRAWING FOR ALL DISCIPLINES 3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 44002) An advanced drawing course, open to all studio disciplines, with an emphasis on students pursuing individually conceived problems in close consultation one-on-one with faculty.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54011 DIGITAL FINE ART PHOTOGRAPHY 3 Credit Hours
(Slashed with ARTS 44011) Students develop their technical and conceptual skills in fine art digital photography, and develop a contemporary approach to working with the medium. Students explore various photographic and digital techniques and form an awareness of such techniques in contemporary photography.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

ARTS 54045 ART OF THE BOOK 3 Credit Hours
(Slashed with ARTS 44045) An introduction to artists' books. A variety of binding methods and strategies for creating art through alternative and traditional book forms are introduced. Students complete projects and develop a personal visual language through the book form.
Prerequisite: Master of Arts degree or Master of Fine Arts degree; and graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54046 PAPERMAKING 3 Credit Hours
(Slashed with ARTS 44046) This course introduces students to both traditional and experimental uses of handmade paper. This course combines presentations, demonstrations, group brainstorming sessions, field trips and critiques to apply towards papermaking projects. An artist research presentation and final presentation are required to encourage students to engage in outside resources and self reflect on semester-long growth. Papermaking techniques include but are not limited to: European sheet formation, pulp pigmenting, pulp painting, stenciling, embedding, paper casting and sheet wrapping. Paper fibers incorporated in this course include but are not limited to: abaca, cotton, flax and mulberry. Both two-dimensional and three-dimensional approaches to papermaking are explored. Exploration and experimentation are encouraged with equal demands on craft.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54070 DIGITAL FABRICATION IN STUDIO ART 3 Credit Hours
(Slashed with ARTS 44070) This course is an introduction to digital fabrication technologies as they relate to a studio practice. Mastery of software skills enables one to better explore object-making as a medium of personal expression. In addition to technical skills, the course will introduce relationships between form, subject matter, and content. Projects will include technical and conceptual problem solving, design lessons, object making, and short student lead initiatives to connect to makerspaces and industries that can support future making. Instructor facilitated discussions between students will form a community of mutual learning.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54091 VARIABLE CONTENT SEMINAR: STUDIO ART 3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 44091) Contemporary issues related to visual arts are explored through presentation, lecture and discussion. Guest speakers augment staff.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTS 54192 INTERNSHIP OR PRACTICUM IN STUDIO ART 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 44192) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts, and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on the significance of the experience.
Prerequisite: A major in the School of Art; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

ARTS 55080 KENT BLOSSOM ART 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 45080) Studio exploration in the visual arts, including ceramics, drawing, glass, jewelry-metals-enameling, painting, print media and photography, sculpture and expanded media and textiles.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter-IP

ARTS 55089 INTERNATIONAL EXPERIENCE: STUDIO ART 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 45089) A Kent State faculty-led study abroad experience in studio art that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Studio Art major; and graduate standing; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTS 55090 STUDY AWAY: STUDIO ART 1-3 Credit Hours
(Slashed with ARTS 45090)(Repeatable for credit) Study away in studio art disciplines at a site at or away from Kent State University.
Prerequisite: Studio Art major; and graduate standing.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTS 55095 STUDIO ART: SPECIAL TOPICS 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 45095) Specialized courses in studio art that focus on specific techniques and media.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter

ARTS 55300 JACQUARD: DIGITAL WEAVING 3 Credit Hours
(Slashed with ARTS 45300)(Repeatable for credit) The digitally interfaced jacquard goes beyond the limitations of the floor loom, allowing for direct control of individual threads to enable image materialization. Incorporating mediation and handwork, students explore the historical and conceptual interstices of digital technology, weaving and picture-making. This advanced course investigates the tensions between digital interfaces and material outputs while engaging their cooperative possibilities. Inquiries into the implications of aesthetics, skill and technology are explored alongside the relationship of cloth and image. A vocabulary of woven constructions, patterns, colors and textures are developed using the digital jacquard loom. Coursework incorporates the computer, handweaving, reading, research and critical dialogue. A personal laptop computer is required for this course. We reclaim the jacquard as a hand loom to articulate form that can only emerge through the confrontation and synthesis of body and technology. The weaver embodies the cyborg.
Prerequisite: Studio Art major; and graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55307 TEXTILES: WEAVING AND COLOR 3 Credit Hours
(Slashed with ARTS 45307) This course will provide students with an opportunity to explore numerous techniques that emphasize the interaction of color in relation to the unique interlacement process of weaving. The use of different looms (including the floor and frame) will provide the means to integrate color with patterns and image in the connection of warp and weft. Immersion dyeing will be introduced along with specialized direct dye application, methods.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55308 TEXTILE ARTS AND GENDER 3 Credit Hours
(Slashed with ARTS 55308) Textile Arts and Gender is designed as an exploratory learning experience. Through weekly readings and discussions, students will engage with historical and contemporary ideas of how textiles relate to gender and how this informs contemporary textile art practice. Simultaneously, students will be learning textile art techniques chosen because of their close association with historical notions of the feminine, the decorative, and the domestic. Students will also study the contemporary use of these same techniques in textile works that explore the concepts of gender, feminism and subversion.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55314 PRACTICES IN WEAVING: TAPESTRY 3 Credit Hours
(Slashed with ARTS 45314)(Repeatable for credit) This intensive studio course considers tapestry expansively as an interface through which weaving contributes to aesthetics and meaning according to its own logic and history. Woven form is realized in collaboration with the tectonic grid of the loom, yielding a unique relationship to image-making; the structural surface and the image it bears are one and the same. Working with multi-harness floor looms, students engage this question through rigorous material explorations. Vocabulary is expanded through the study of double cloth, discontinuous/supplementary wefts and dye processes. The position of weaving as a progenitor of abstraction and the role of color as a catalyst for meaning are essential points of inquiry. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. This work considers the practice of weaving as an expansive playground to complicate the paradigms of contemporary art with textility.
Prerequisite: Studio Art major; and graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55351 PRACTICES IN WEAVING: LOOM-THINKING 3 Credit Hours
(Slashed with ARTS 45351)(Repeatable for credit) This intensive studio course focuses on weaving and its relationship to the evolving landscape of contemporary art. Working with multi-harness floor looms, students engage rigorous questions in imagery, sculptural form and spatial intervention. Vocabulary is expanded through the study of complex woven constructions, hand and digital drafting and dye processes. Emphasis is placed on developing fluency with the language and logic of the loom. Here, students enter the space of "loom-thinking" to create, mutate, subvert and interrupt weave drafts and thread interlacements in the production of woven form. Through their developing technical virtuosity, students push the algorithmic sensibility of weaving toward visual and material poetics. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. This work considers the practice of weaving as an expansive playground to complicate the paradigms of contemporary art with textility.
Prerequisite: Studio Art major; and graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55705 CAD FOR JEWELRY 3 Credit Hours
(Slashed with ARTS 45705) Students develop a set of comprehensive computer-aided design (CAD) skills to be utilized in a variety of studies such as sculpture design, jewelry making and many others. CAD skills are developed through the investigation of laser cutting, 3D modeling, project planning and 3D printing. Mastery of these techniques enable students to better explore object-making as a medium of personal expression. Although there are many technical components to learn, the instructor also focuses on the relationship between form, subject matter and content.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55708 BODY ORNAMENTATION 3 Credit Hours
(Slashed with ARTS 45708)(Repeatable for credit) Course addresses the expanding theories and techniques used to adorn the body within jewelry metals and enamel. New technologies, material exploration and contemporary practices in adornment are presented. Conceptual development and research are emphasized.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 64000 GRADUATE SEMINAR I: STUDIO ART 3 Credit Hours
(Repeatable for credit) This graduate seminar intends to bring together graduate students working across disciplines to facilitate their participation in creating a framework for understanding the practice of art-making in relation to the contemporary global and cultural terrain.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTS 64001 GRADUATE SEMINAR II: STUDIO ART 3 Credit Hours
(Repeatable for credit) This graduate seminar is an advanced course which intends to bring together graduate students working across disciplines to facilitate their participation in creating a framework for understanding the practice of art-making in relation to the contemporary global and cultural terrain.
Prerequisite: ARTS 64000; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTS 64040 GRADUATE STUDIO: PRINT MEDIA AND PHOTOGRAPHY I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Print Media and Photography concentration.
Prerequisite: Print media and photography concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64041 GRADUATE STUDIO: PRINT MEDIA AND PHOTOGRAPHY II 1-9 Credit Hours
(Repeatable for credit) Advance research-based, hands-on studio course providing a context for individual creative projects in the Print Media and Photography concentration.
Prerequisite: ARTS 64040; and print media and photography concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64050 GRADUATE STUDIO: SCULPTURE AND EXPANDED MEDIA I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Sculpture and Expanded Media concentration.
Prerequisite: Sculpture and expanded media concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64051 GRADUATE STUDIO: SCULPTURE AND EXPANDED MEDIA II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects in the Sculpture and Expanded Media concentration.
Prerequisite: ARTS 64050; and sculpture and expanded media concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64060 GRADUATE STUDIO: DRAWING AND PAINTING I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Drawing and Painting concentration.
Prerequisite: Drawing or painting concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64061 GRADUATE STUDIO: DRAWING AND PAINTING II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects in the Drawing or Painting concentration.
Prerequisite: ARTS 64060; and painting or drawing concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64096 INDIVIDUAL INVESTIGATION STUDIO ART 1-3 Credit Hours
(Repeatable for credit) Independent study in studio art.
Prerequisite: Master of Art or Master of Fine Arts degree in the School of Art; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

ARTS 64098 RESEARCH IN STUDIO ART 1-15 Credit Hours
(Repeatable for credit) Studio research in the visual arts.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

ARTS 65095 STUDIO ART: ADVANCED SPECIAL TOPICS 1-6 Credit Hours
(Repeatable for credit) Advanced specialized courses in studio art that focus on specific techniques and media.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter

ARTS 65300 GRADUATE STUDIO: TEXTILES I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Textiles concentration.
Prerequisite: Textiles concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65301 GRADUATE STUDIO: TEXTILES II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Textiles concentration.
Prerequisite: ARTS 65300; and textiles concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65400 GRADUATE STUDIO: CERAMICS I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Ceramics concentration.
Prerequisite: Ceramics concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65401 GRADUATE STUDIO: CERAMICS II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Ceramics concentration.
Prerequisite: ARTS 65400; and Ceramics concentration in the Studio Art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65600 GRADUATE STUDIO: GLASS I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Glass concentration.
Prerequisite: Glass concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65601 GRADUATE STUDIO: GLASS II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Glass concentration.
Prerequisite: ARTS 65600; and glass concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65700 GRADUATE STUDIO: JEWELRY, METALS, ENAMELING I 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Jewelry, Metals, Enameling concentration.
Prerequisite: Jewelry, metals and enameling concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65701 GRADUATE STUDIO: JEWELRY, METALS, ENAMELING II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Jewelry, Metals, Enameling concentration.
Prerequisite: ARTS 65700; and jewelry, metals and enameling concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65991 SEMINAR IN STUDIO ART 1-3 Credit Hours
(Repeatable for credit) Contemporary issues and professional concerns in studio art explored through presentations, lectures, and discussion. Graduate faculty and guest speakers.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

School of Fashion Design and Merchandising

Fashion Design and Merchandising (FDM)

FDM 10010 FASHION FUNDAMENTALS 3 Credit Hours
Introduction to the global fashion industry. Analysis of the business of fashion and how it is conceived, marketed, sold, and consumed. Overview of important resources, companies, career options and personnel who impact the industry.
Prerequisite: Fashion design, fashion merchandising or pre-fashion design and merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 10023 FASHION VISUALS 1 Credit Hour
The study of fashion information, research sources, color theory, two-and three-dimensional design and visual presentation formats as they apply to the fashion industry.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10024.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FDM 10024 FASHION VISUALS LABORATORY 2 Credit Hours
Laboratory applications in the study of fashion information, research sources, color theory, two-and three-dimensional design and visual presentation formats as they apply to the fashion industry.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10023.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 10033 FASHION FABRICS 1 Credit Hour
Study of fabrics, from fiber through finishing processes, with a concentration on differentiating between fibers, fabric construction methods, and other processes involved in production. Emphasis is on understanding fabric properties, including environmental impact, cost, care and how they relate to textile end-usage.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10034.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FDM 10034 FASHION FABRICS LABORATORY 2 Credit Hours
Study of fabrics, from fiber through finishing processes, with a concentration on differentiating between fibers, fabric construction methods, and other processes involved in production. Emphasis is on understanding fabric properties, including environmental impact, cost, care, and how they relate to textile end-usage. Lab-specific content and assignments reinforce Lecture content.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10033.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 10043 SUSTAINABLE FASHION THINKING 1 Credit Hour
An introductory exploration of the current fashion industry and the urgent need to create sustainable change. After a survey of fashion industry functions from concept to consumer, students identify current practices and areas of concern. Course focuses on understanding how and why those practices must change and examining burgeoning ideas, methods, practices and business structures shifting to a sustainable future.
Prerequisite: Fashion Design or Fashion Merchandising majors.
Corequisite: FDM 10044.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FDM 10044 SUSTAINABLE FASHION THINKING LABORATORY 2 Credit Hours
An introductory exploration of the current fashion industry and the urgent need to create sustainable change. After a survey of fashion industry functions from concept to consumer, students identify current practices and areas of concern. Lab focuses on practicing strategies, including critical thinking, human centered design, sustainable product service systems and corporate social responsibility to influence needed change within industry. Fashion design and fashion merchandising students work collaboratively in groups to explore solutions for a sustainable future in the fashion industry.
Prerequisite: Fashion Design or Fashion Merchandising majors.
Corequisite: FDM 10043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 10053 INTRODUCTION TO FASHION TECHNOLOGY 1 Credit Hour
Introduces students to the fundamental concepts, procedures, and techniques used in digital imaging software and information database software. A survey of current and emerging technologies used in fashion design, merchandising and production contexts is presented.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10054.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FDM 10054 INTRODUCTION TO FASHION TECHNOLOGY LABORATORY 2 Credit Hours
Laboratory applications of fundamental concepts, procedures, and techniques used in digital imaging software and information database software. A survey of current and emerging technologies used in fashion design, merchandising, and production contexts is presented and applied.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10053.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 15055 BASICS OF APPAREL CONSTRUCTION 3 Credit Hours
Introduction to patterns, sewing techniques and application processes using industrial sewing machines and other related equipment in basic garment construction.
Prerequisite: Fashion Design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20013 HISTORY OF FASHION 3 Credit Hours
The study of dress reveals fundamental aspects of the culture in which it is created. This course is an interdisciplinary study of the aesthetic, historical, political, economic and social roles that fashions of an era chronicle. The course includes chronological study and research of dress from the origin of clothing through the present, as studied and applied to contemporary fashion.
Prerequisite: Fashion Design major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 20030 FASHION APPAREL ANALYSIS 3 Credit Hours
Analysis and evaluation of fashion apparel; quality standards of ready-to-wear apparel and factors that influence the aesthetic and functional performance of the end product.
Prerequisite: FDM 10033 and FDM 10034; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 20050 FASHION TECHNOLOGY APPLICATIONS 3 Credit Hours
A continuation of content related to technology within the fashion industry. Pattern manipulation, basic technical packages, garment measuring specs, print design and computerized fashion illustration is addressed with the use of industry-specific and off-the-shelf software packages.
Prerequisite: FDM 10053 and FDM 10054; and fashion design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20121 FASHION DRAWING 3 Credit Hours
Study of communicating design ideas, rendered fabrics, consumer types, technical flats, and the depiction of garment construction through the use of digital toolsets and illustration technology. Emphasis will be placed on the depiction of a variety of body types, demographics (gender identity, differently-abled, race/ethnicity, age, culture), fabric types (weight, end use, pattern/print, color, etc.) on the figure.
Prerequisite: FDM 10023 and FDM 10024; and fashion design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20123 FASHION DESIGN CONCEPTS 3 Credit Hours
An introduction to the process and methodology of creating fashion products with considerations of sustainable practice and diverse consumer markets. Students will apply fashion communication skills and combine with visual thinking practices. Emphasis will be on design thinking, sustainable methodology, creative experimentation, and a variety of body types and markets.
Prerequisite: FDM 10043 and FDM 10044 and FDM 20121.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20155 MACHINE KNITTING 3 Credit Hours
Basic machine knitting techniques, including structure and shaping on industrial handflat knitting machine. Development and analysis of knitted textiles.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20156 2-D FASHION DESIGN PRACTICE 3 Credit Hours
Development of two-dimensional patterns for three-dimensional figures/shapes using digital toolsets. Execution of virtual and traditional construction of two-dimensional pattern designs. Emphasis will be placed on the techniques used to develop apparel patterns for both knit and woven textiles and how to fit garments to the body. Students will develop garments for a variety of target markets and a variety of body types. Minimizing waste in pattern layouts and yardage allocation will be addressed.
Prerequisite: FDM 10033 and FDM 10034 and FDM 15055; and fashion design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20157 3-D FASHION DESIGN PRACTICE 3 Credit Hours
Study of draping as a technique for developing two-dimensional patterns for three-dimensional shapes. The techniques used for working with woven fabric and knit fabric are addressed. Students are required to drape on dress forms representing a variety of body shapes. Minimizing waste through shape and form is addressed.
Prerequisite: FDM 10033 and FDM 10034 and FDM 15055 and FDM 20156; and Fashion Design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20263 FASHION RETAIL INDUSTRY 3 Credit Hours
Study of retail organizations and structures within the fashion industry. Analysis of supervision organization and operations management of fashion retail institutions.
Prerequisite: FDM 10010; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 25011 FASHION BRANDING 3 Credit Hours
An overview of branding in the fashion industry. Analysis of strategies for creating (brand awareness), maintaining (brand management) and enhancing the strength (brand asset management) of fashion brands. Class members work individual an as part of a group.
Prerequisite: FDM 10010; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30013 FASHION AND POP CULTURE 3 Credit Hours
An examination of the relationship between different types of design and popular culture in America and Europe in the 20th and 21st centuries.
Prerequisite: ARTH 22006 or ARTH 22007 or HIST 11050 or HIST 11051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30050 FASHION TECHNOLOGY: COMPUTER INTEGRATED TEXTILE DESIGN 3 Credit Hours
The use of Computer Integrated Design tools to produce textile prints, wovens and knits for professional presentation scenarios.
Prerequisite: FDM 10053 and FDM 10054.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

FDM 30083 PROFESSIONAL SEMINAR 3 Credit Hours
Professional development strategies for fashion and related careers. Emphasis is on verbal and written communication skills.
Prerequisite: FDM 20030 and fashion merchandising major; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30124 TECHNICAL DESIGN IN THE FASHION INDUSTRY 3 Credit Hours
Students learn seamstitch classifications, costing, sourcing and lab testing quality assurance. Assembly-line and modular manufacturing are discussed.
Prerequisite: FDM 10033, FDM 10034 and FDM 20050.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

FDM 30132 APPAREL CONSTRUCTION FOR SPECIALTY MARKETS 1 Credit Hour
Construction details specific to a market are researched, discussed and duplicated. Only one specialty market covered each class. Markets vary by class.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 other
Grade Mode: Standard Letter

FDM 30151 ADVANCED PATTERNMAKING 3 Credit Hours
Flat pattern assignments for advanced, complex garments. Suits, outerwear, cutsew knits will all be covered. Students will make patterns by traditional methods as well as by computer.
Prerequisite: FDM 20156 and FDM 20157.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 30154 DIGITAL MACHINE KNITTING 3 Credit Hours
Programming knitting and basics of operating an industrial knitting machine. Students will develop a sample book that includes industrial techniques, such as structure, shaping, jacquard, intarsia cables, etc. One group project to create a garment and one final project based on research of knit industry will be required.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 30155 KNITWEAR DESIGN 3 Credit Hours
Focus is on the design development of knitwear, learning about how to recognize and communicate knit design through graphs and stitch notation as well as what yarns, fibers and machines are appropriate. The students in this class also design knitwear collections.
Prerequisite: Fashion design major.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

FDM 30161 FASHION DESIGN STUDIO I 6 Credit Hours
Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons and specific construction techniques; and further develop fashion design process approaches.
Prerequisite: FDM 20050 and FDM 20123 and FDM 20156 and FDM 20157.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

FDM 30162 FASHION DESIGN STUDIO II 6 Credit Hours
A continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons and specific construction techniques and further develop fashion design process approaches.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

FDM 30189 FLORENCE FASHION DESIGN STUDIO I (DIVG) (ELR) 6 Credit Hours
Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons and specific construction techniques; and further develop fashion design process approaches. European markets and travel are incorporated.
Prerequisite: FDM 20050 and FDM 20123 and FDM 20156 and FDM 20157; and special approval.
Schedule Type: International Experience, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 30190 NEW YORK CITY FASHION DESIGN STUDIO I (ELR) 6 Credit Hours
Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons and specific construction techniques; and further develop fashion design process approaches. New York City markets and design-specific experiences are incorporated.
Prerequisite: FDM 20050 and FDM 20123 and FDM 20156 and FDM 20157; and special approval.
Schedule Type: Study Away, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 30260 PRODUCT DEVELOPMENT IN THE FASHION INDUSTRY 3 Credit Hours
Researching, planning, developing and presenting a fashion product line for an identified target market with regard to prices, styling and timing.
Prerequisite: FDM 20030; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30262 FASHION MERCHANDISE PLANNING AND BUYING 3 Credit Hours
The study of the merchandise buying process from trend analysis through execution of sourcing and delivery of product. Learning the duties of a buyer/merchant, including product planning, coordinating and control of merchandise through the use of appropriate quantitative metrics.
Prerequisite: FDM 20263 and MATH 10041; and Fashion Merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30270 TRENDS AND PREDICTIVE ANALYTICS IN FASHION 3 Credit Hours
Provides an overview of fashion forecasting principles and their application from research and analysis to the creation and development of fashion forecasts. Focuses on the role of data analytics in decision making for the fashion industry as it applies to trend forecasting, retail merchandising and product marketing.
Prerequisite: FDM 20263 and FDM 25011; and Fashion Merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30289 FLORENCE FASHION DESIGN STUDIO II (DIVG) (ELR) 6 Credit Hours
Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons and specific construction techniques, and further develop fashion design process approaches. Content specific to the European design experience.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389; and special approval.
Schedule Type: International Experience, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 30290 NEW YORK CITY FASHION DESIGN STUDIO II (ELR) 6 Credit Hours
Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons and specific construction techniques, and further develop fashion design process approaches. Content specific to the New York City fashion design experience.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389; and special approval.
Schedule Type: Study Away, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 30389 PARIS FASHION DESIGN STUDIO I (DIVG) (ELR) 6 Credit Hours
Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons and specific construction techniques enabling personal development of the student's creative and market-ready work. Equal use of illustration, construction and fashion-industry communications such as tech packs and flats.
Prerequisite: FDM 20050 and FDM 20123 and FDM 20156 and FDM 20157; and special approval.
Schedule Type: International Experience, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 30489 PARIS FASHION DESIGN STUDIO II (DIVG) (ELR) 6 Credit Hours
Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons and specific construction techniques; and further develop fashion design process approaches. Content specific to the European design experience.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389; and special approval.
Schedule Type: International Experience, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35010 CONTEMPORARY FASHION DESIGNERS (WIC) 3 Credit Hours
Examine and analyze international fashion design and designers of the 20th and 21st centuries. Focuses on the history, development and present context of fashion. Students assemble a portfolio of fashion designers studied to include their biographies, clippings of their work and design inspirations.
Prerequisite: FDM 20013; and fashion design major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

FDM 35011 FASHION FORECASTING 3 Credit Hours
Identifying trends to develop fashion forecasts. Interrelationships of forecasting promotion, public relations, and the fashion media will be explored.
Prerequisite: FDM 25011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35012 SUSTAINABILITY IN FASHION 3 Credit Hours
Analysis and development of design process thinking through the lens of sustainability and socially responsibility in fashion. Readings, documentaries and lectures are discussed in class. Interdisciplinary teams create a product that supports sustainable fashion futures.
Prerequisite: Fashion design and fashion merchandising majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35013 FASHION ACCESSORIES 3 Credit Hours
The merchandising, promotion and sales of accessories. Materials production and resources are examined by category.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35060 FASHION IMAGE 3 Credit Hours
Study of fashion imagery through industry observation, analysis, and examination of fashion photo shoots and styling practices. Combines theoretical and practical approach in planning through individual and collaborative efforts resulting in a fashion industry-inspired photo shoot and styling project.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35063 VISUAL MERCHANDISING AND DISPLAY 3 Credit Hours
Theory and practice of merchandise presentation for the purpose of promotion and sales.
Prerequisite: Fashion merchandising major.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

FDM 35070 THE LUXURY MARKET 3 Credit Hours
Purpose is to learn, understand, and perceive the luxury market and its parameters. Students gain an understanding of the marketing power of luxury brands and the organization of a luxury products company.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35080 FASHION IN THE MEDIA 3 Credit Hours
Analysis of key fashion magazines and in-depth examination of how they are created. Students learn the fundamentals of different forms of communication and the contributions editors, writers, stylists and photographers make toward the finished product. Exploration of how various media interrelate and contribute to the fashion industry is included. Different forms of writing, editing and interviewing as well as the roles of photography, design and styling are examined. Online outlets, television commentary, fashion advertising and Public Relations are discussed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35089 INTERNATIONAL EXPERIENCE: THE PARISIAN LUXURY MARKET (DIVG) (ELR) 3 Credit Hours
Examination of the French fashion luxury market and industry. Students gain an understanding of the marketing power of luxury brands and the organization of a luxury products company.
Prerequisite: FDM 36900.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35260 MERCHANDISING FOR HOME FURNISHINGS 3 Credit Hours
Introduction to the various retail classifications of home furnishing merchandise to include furniture, floor coverings, window treatments, household linens, table tops, housewares and decorative accessories.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35270 COMPUTER APPLICATIONS IN RETAILING 3 Credit Hours
The application and use of the microcomputer to solve problems in assortment planning, merchandise management, trading area and site analysis, store planning, planogramming and media planning.
Prerequisite: FDM 20263; and MATH 10041 or MATH 11009 or MATH 11010 or MATH 11012; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35280 FASHION ENTREPRENEURSHIP 3 Credit Hours
In-depth study of entrepreneurship concepts as applied to manufacturers and retailers of apparel including product development, accounting and control merchandising and buying operation and management advertising and promotion.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35589 INTERNATIONAL EXPERIENCE: ITALIAN FASHION AND CULTURE (DIVG) (ELR) 3 Credit Hours
Evolution of the fashion industry in post World War II Italy. Study of the creators, design and production processes creating one of the most successful unions of commercial product and cultural expression world-wide.
Prerequisite: FDM 35900.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35689 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION MARKETING (DIVG) (ELR) 3 Credit Hours
Building on the information acquired in the European Fashion Marketing Seminar lectures and visits, student complete a series of assignments designed to simulate the type of work that a merchandising professional may be asked to complete.
Corequisite: FDM 35789.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35789 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION MARKETING SEMINAR (DIVG) (ELR) 3 Credit Hours
Taken concurrently with European Fashion Marketing and uses a European city as an extended classroom, combining various field trips to directional shopping districts, fashion houses and fashion magazines. Only taught in European settings.
Corequisite: FDM 35689.
Schedule Type: International Experience, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35889 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION DESIGN (DIVG) (ELR) 3 Credit Hours
Taken concurrently with European Fashion Design Seminar and is designed to introduce couture techniques and enhance techniques of those who possess a basic to advance knowledge of sewing. Only taught in European settings.
Corequisite: FDM 35989.
Schedule Type: International Experience, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35900 FLORENCE FASHION STUDY ORIENTATION 1 Credit Hour
Overview of Florence fashion program, the city of Florence, living and traveling in Europe as a study abroad student. Includes assistance for obtaining required documents. Students must enroll in Florence fashion program to receive credit.
Prerequisite: Minimum 2.500 overall GPA; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

FDM 35989 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION DESIGN SEMINAR (DIVG) (ELR) 3 Credit Hours
Taken concurrently with European Fashion Design and uses a European city as an extended classroom, combining various field trips to directional shopping districts, fashion houses and fashion magazines.
Corequisite: FDM 35889.
Schedule Type: International Experience, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 36589 INTERNATIONAL EXPERIENCE: PARISIAN FASHION, CULTURE AND CRAFT (DIVG) (ELR) 3 Credit Hours
Focusing on Parisian fashion, culture and artisan tradition, this course introduces different techniques that can be used in the creation of clothing or accessories, including couture approaches. Researching the use of finishes and textiles are examined in the context of Parisian artisan cultural traditions. Students learn how high-end designers use these techniques in their lines/shows.
Prerequisite: FDM 36900.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 36900 PARIS FASHION STUDY ORIENTATION 1 Credit Hour
Overview of Paris fashion program, the city of Paris and living and traveling in Europe as a study abroad student. Includes assistance for obtaining required documents. Students must enroll in Paris fashion program to receive credit.
Prerequisite: Minimum 2.500 overall GPA; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

FDM 40050 FASHION TECHNOLOGY:TECHSTYLELAB 3 Credit Hours
Explores the historical and contemporary links between fashion and technology. Garments, artists, designers, institutions and projects relevant to technological explorations within the fashion context is discussed. Research and experiments conducted with the Fashion School's TechStyleLAB. Students acquire fundamental research skills for fashion technology and develop their own web presence.
Prerequisite: FDM 10053 and FDM 10054.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

FDM 40098 RESEARCH IN FASHION DESIGN AND MERCHANDISING (ELR) 1-3 Credit Hours
(Repeatable for credit) Research experience and investigation of a topic above the level available through coursework with an individual faculty member. This experience is designed to strengthen student's ability to synthesize different phases and methods of academic research. Students work closely with a faculty member to determine the specific nature, scope, and design of the research experience.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 40099 SENIOR FASHION DESIGN THESIS I (ELR) 6 Credit Hours
Senior fashion design thesis collection is created focused on the specialties of each student. This collection is finalized, analyzed and presented during FDM 40199. Students engage in a formalized critical development and review process with established external fashion designers.
Prerequisite: FDM 30162 or FDM 30289 or FDM 30290 or FDM 30489; and Fashion Design major.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 40121 FASHION PORTFOLIO I 3 Credit Hours
Students develop a professional design portfolio that emphasizes in-depth individual investigation of specific apparel markets, target customers and seasons, displaying various illustrative techniques. Croquis books, technical packets and line plans are used.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389; and FDM 30162 or FDM 30289 or FDM 30290 or FDM 30489.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 40122 FASHION PORTFOLIO II 3 Credit Hours
A continuation of FDM 40121. Students continue development of design portfolio that emphasizes their strengths in design and presentation. In addition, there is continued progress in croquis books and development of seasonal line plans.
Prerequisite: FDM 40121.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 40199 SENIOR FASHION DESIGN THESIS II (ELR) 3 Credit Hours
Continuation of Senior Fashion Design Thesis I. Finalize senior thesis project; critical review and reflection on outcome in a short analysis. The final thesis submission will be displayed through a juried venue.
Prerequisite: FDM 40099.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 40262 DATA-BASED DECISION-MAKING IN FASHION RETAILING 3 Credit Hours
Develops data analytics and industry-focused software skills to identify solutions related to fashion merchandising and retail business operations. Emphasis is on learning industry software from inventory location optimization to the use of communication techniques for quantitative business information within the fashion retail industry.
Prerequisite: FDM 30262.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 40270 FASHION INDUSTRY RESEARCH METHODS (WIC) 3 Credit Hours
Examination of research methods used in the fashion industry. Introduction to research methods for the analysis of consumer needs and preferences and their application to materials, design and fashion retail decision-making strategies.
Prerequisite: FDM 30270 or FDM 35011; and MATH 10041 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

FDM 40280 GLOBAL FASHION VALUE CHAIN 3 Credit Hours
Comprehensive approach to understanding the textile and apparel supply and value chain. Includes global perspectives on value-adding activities and impacts across materials sourcing, production, distribution and operations, including the related historic, geographic, economic, ethical and environmental influences.
Prerequisite: FDM 30260 and FDM 30262.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 40291 SEMINAR IN FASHION MERCHANDISING (WIC) 3 Credit Hours
(Repeatable for credit) Capstone course in Fashion Merchandising. Builds and expands on all merchandising-related coursework with the goal of integrating content and applying it to real-life scenarios through critical thinking and analysis. A coherent portfolio demonstrating student efficacy with overall program content is completed.
Prerequisite: FDM 30260, FDM 30262, FDM 35011 and FDM 35270.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

FDM 40299 APPLIED PRINCIPLES IN FASHION MERCHANDISING (ELR) 3 Credit Hours
Capstone course in fashion merchandising that expands on all merchandising-related coursework with the goal of applying program content to real-life scenarios. Focus on critical thinking and analysis to present practical business solutions for industry. Students finish by creating a coherent portfolio demonstrating their effectiveness in applying overall program content.
Prerequisite: FDM 30260 and FDM 30262; and FDM 30270 or FDM 35011.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 43292 FASHION SHOW MANAGEMENT AND PRODUCTION (ELR) 3 Credit Hours
(Repeatable for credit) This course teaches students all the basic elements and process of planning, managing and producing a fashion show. Students gain practical experience through the actual planning, management, production and delivery of the School of Fashion's annual fashion show.
Prerequisite: None.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 45012 TEXTILES AND APPAREL IN THE GLOBAL ECONOMY 3 Credit Hours
Global perspective on the production and marketing of textiles and apparel; historical geographic and economic factors that influence the world trade in soft goods.
Prerequisite: FDM 30262 and 35270.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 45035 HISTORIC TEXTILES 3 Credit Hours
(Slashed with FDM 55035) Identification and analysis of textile fabrics as the reflection of culture from ancient times to present.
Prerequisite: Fashion design or fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 45045 COLLABORATIVE FASHION PRODUCTION 3 Credit Hours
Exploration of product production process from concept to a marketable product. Utilizes introductory pattern making, sewing skills, and project management to create fashion apparel products.
Prerequisite: Fashion design or fashion merchandising major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 45093 VARIABLE TITLE WORKSHOP-FASHION DESIGN AND MARKETING 1-3 Credit Hours
(Repeatable for a total of 6 hours) Special fee actual cost basis.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

FDM 45095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Variable content relevant to the field of fashion.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

FDM 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual investigation of topic above the level available through coursework. Requires submission of and approval of project proposal prior to registration.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

FDM 45192 INTERNSHIP IN FASHION MERCHANDISING (ELR) 3 Credit Hours
Supervised practical experience in the fashion industry. Eligibility requirements available from the School of Fashion Design and Merchandising field studies coordinator.
Prerequisite: FDM 30083 and 30262; and fashion merchandising major; and special approval for internship site.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 45212 FASHION SHOW PRODUCTIONS 3 Credit Hours
Analyses of fashion show formats are considered for promotion purposes. Production planning, organization and physical requirements are studied. Class produces a fashion show.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 45292 INTERNSHIP IN FASHION DESIGN (ELR) 3 Credit Hours
Supervised practical experience in the fashion industry. Eligibility requirements available from the School of Fashion Design and Merchandising field studies coordinator.
Prerequisite: FDM 20123 and FDM 20156 and FDM 20157; and Fashion Design major; and special approval for internship site.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 45392 FIELD EXPERIENCE: FASHION STUDY TOUR (ELR) 1-3 Credit Hours
(Repeatable for credit)Visit to domestic or foreign fashion markets, including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.
Prerequisite: Fashion design or fashion merchandising major; and special approval.
Schedule Type: Field Experience
Contact Hours: 12-36 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

FDM 45589 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION STUDY TOUR FOR FLORENCE STUDENTS (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) Visit to European fashion markets including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.
Prerequisite: Fashion design or fashion merchandising major.
Schedule Type: International Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

FDM 45590 STUDY TOUR FOR NYC STUDIO STUDENTS (ELR) 3 Credit Hours
(Repeatable for credit) Visit to the New York fashion market including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.
Prerequisite: Fashion design or fashion merchandising major; and special approval.
Schedule Type: Study Away
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

FDM 45689 INTERNATIONAL EXPERIENCE: PARISIAN FASHION STUDY TOUR FOR PARIS STUDENTS (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) Visit to Paris fashion markets including design and fabric houses or showrooms, retail stores, buying offices, museums and other areas of the fashion industry.
Prerequisite: FDM 36900; and Fashion Design or Fashion Merchandising major.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

FDM 55035 HISTORIC TEXTILES 3 Credit Hours
(Slashed with FDM 45035) Identification and analysis of textile fabrics as the reflection of culture from ancient times to present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 55389 FASHION INDUSTRY INTERNATIONAL EXPERIENCE STUDY TOUR 3 Credit Hours
(Repeatable for credit) A Kent State faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. Visits to international fashion markets, including design or fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry. The primary benefits are the direct observation and study of how the fashion industry operates including how fashion products are created, manufactured, marketed and/or merchandised at the wholesale and retail levels. Students have a series of critical discussions and present a position paper upon completing the international experience. This course has pre- and post-travel classroom study.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

FDM 60005 RESEARCH METHODS IN THE FASHION INDUSTRY 3 Credit Hours
This course examines research subject areas and methods as they pertain to various stakeholders in the fashion value chain. Focus is on understanding research practices relevant to the fashion industry, accessing and critically evaluating existing research, engaging in active research and applying research through practice to expand knowledge in the field.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60010 THEORIES AS APPLIED TO THE FASHION INDUSTRY 3 Credit Hours
Focuses on the meaning, context and intent of fashion in contemporary society. Examination of seminal theories and constructs that inform understanding and ability to address complex issues derived from the fashion industry setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60011 THE FASHION INDUSTRY: A UNIFYING LENS 3 Credit Hours
This course is designed to make connections, synthesize, and develop understanding of the fashion industry. Students will participate in informed critical discussion, written, and visual work, guided by interaction with multiple stakeholders and concluded with a final paper and presentation that identifies an area where research through practice can expand knowledge in the field.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60015 FASHION SYSTEMS THINKING 3 Credit Hours
The adverse effects of the global fashion industry have become an established narrative throughout fashion academic and industry circles. This course examines economic, social and environmental impacts of the fashion value chain from a systemic perspective. Focus is on the five key components used in systems thinking approach, namely: interconnectedness, synthesis, emergence, feedback loops, causality and systems mapping to practice problem solving that views fashion industry-related problems as part of a wider, dynamic system.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60020 FASHION INDUSTRY DESIGN MANAGEMENT 3 Credit Hours
In-depth study of the relationship between creativity and efficiency in the fashion industry. Provides insight into how project managers can nurture innovation in an organizational context.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60025 GLOBAL CONSUMER IN THE FASHION INDUSTRY 3 Credit Hours
This course examines global market segments, how to reach them, the consumer buying process across countries and psychological and sociological variables that influence and motivate consumers. This course broadens the understanding and evaluation of consumer behavior concepts as they pertain to domestic and global marketing strategies. Focus is also on targeting needs of diverse consumers and marketing efforts directed at creating an inclusive environment for all consumers.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60031 FORMS OF INQUIRY IN THE FASHION INDUSTRY 3 Credit Hours
Critical evaluation of research, theoretical and scholarly review of articles related to the fashion industry. Learn and practice skills needed to understand and critically evaluate research, theory and scholarly works. Examine in-depth scholarly literature as applied to one topic within the fashion industry. Write and present a scholarly review of literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60050 TECHSTYLELAB: DIGITAL DESIGN AND NEW MEDIA IN THE FASHION INDUSTRY 3 Credit Hours
Exploration of the intersection of New Media and Fashion. Includes research into analog design methods and digital systems of production and the supply chain management. Topics include various research and design topics such as mass-customization, co-creation, material ecology, digital craft and future craft practices.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 60092 FASHION INDUSTRY PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Practicum is an off-campus, progressive process involving a number of specific guided experiences with a fashion agency or company. This course is intended to bridge the gap between the theoretical and abstract learning gained within the classroom with real-world concrete applications. Students are required to develop a practicum analytical or reflective research paper and make an oral presentation of their practicum experiences.
Prerequisite: Fashion Industry Studies major; and graduate standing; and special approval.
Pre/corequisite: FDM 60005 and FDM 60015.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

FDM 60093 WORKSHOPS ON CURRENT TOPICS IN THE FASHION INDUSTRY 1-3 Credit Hours
(Course is repeatable) Students will be encouraged to take advantage of courses that focus on professional renewal or mastery and application of knowledge and skills that address a range of problems or issues related to fashion industry practice. The workshops will be offered at our NYC, Florence, and Kent campuses.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

FDM 60098 RESEARCH PROJECT IN FASHION INDUSTRY 3 Credit Hours
(Repeatable for credit) Research experience with an individual faculty member designed to strengthen student's ability to synthesize different phases and methods of research. Students work closely with faculty to determine the specific nature, scope and design of the research experience. Requires submission of and approval of project proposal prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

FDM 60099 FASHION INDUSTRY PRACTICUM CAPSTONE 3 Credit Hours
This course combines research with pragmatic industry-facing solutions reliant on firsthand information gathering, analysis and assessment. As a capstone experience, M.F.I.S. students base their experience from the practicum with a fashion-related industry partner by creating an in-depth case study, abbreviated business plan or industry presentation resulting from the information and research gathered and reflecting student interest.
Prerequisite: FDM 60092; and graduate standing; and special approval.
Pre/corequisite: FDM 60005 and FDM 60015 and FDM 60025.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

FDM 60100 ADVANCED FASHION INDUSTRY PRACTICE 3 Credit Hours
This capstone course is centered in research as both a practice and a process. Students will pursue case studies in which they research, interpret and aim to advance fashion industry practices. Informed by industry observation and experience, utilizing and engaging with a variety of research methods, students will document findings, analyze, reflect, and present their own pragmatic implications drawn from and applied to the fashion industry. The aim of the course is to challenge students to advance their research and analytical skills, to cross disciplinary boundaries, and to develop new and original perspectives of industry research through practice.
Prerequisite: FDM 60031; and enrolled in the master of fashion industry studies (MFIS) degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60162 ADVANCED FASHION INDUSTRY DESIGN AND PRODUCTION 3 Credit Hours
This process-oriented course focuses on studio investigation of complex formal and spatial constructs in apparel design and production. The course will discuss and examine a variety of current approaches including those that are interdisciplinary and utilize design thinking in a fashion industry context. Students will use methods and tools for fashion research to explore new techniques in the development of design concepts that challenge current practice. Students are encouraged to think critically about design problems and processes while seeking discoveries through experimentation, resulting in a body of work examined by critique and exhibition. Examinable material includes written and visual documentation, which is then retained as the archival record of the research.
Prerequisite: Graduate standing; and special approval from the graduate studies coordinator.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a maximum of 6 credit hours, 2 to 6 credit hours during a single semester, distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

FDM 60299 THESIS II 2 Credit Hours
(Course is repeatable) Continuing registration required of master's students who have completed the initial 6 hours of thesis and continuing until all degree requirements are met.
Prerequisite: FDM 60199; and graduate standing; and special approval from the graduate supervisory committee.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

FDM 63011 VISUAL PRESENTATION IN THE FASHION INDUSTRY 3 Credit Hours
This course explores the multiple methods of visual presentation practiced in the fashion industry through applications of digital and physical concepts. Students will examine and discuss current fashion industry approaches utilized by creative talent, merchants, and other stakeholders. Focus will be on developing visual communicators who can convey unique brand stories and complex ideas through use of various forms of media. Students will learn to establish branding and visualization of their own work and research to help promote their professional identity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65010 SUSTAINABLE CONCEPTS AND PRACTICES IN THE FASHION INDUSTRY 3 Credit Hours
This course will discuss and examine the most current approaches to sustainability in fashion. The different facets, benefits or shortcomings of each approach will be analyzed with an eye to researching viable solutions to future practices in manufacturing, material selection, design and business. Course embeds practice-based approaches to sustainable development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65045 FASHION INDUSTRY MERCHANDISE MANAGEMENT 3 Credit Hours
This course provides an overview of the merchandising process - planning, developing and presenting merchandise lines within the fashion industry. Core merchandising concepts and principles taught throughout this course include merchandise performance measures, pricing mechanics, wholesale and retail pricing strategy, merchandise budgets and assortment, vendor relationships and negotiations and merchandise replenishment management. This course examines such concepts as applied to manufacturers, wholesalers and retailers of fashion merchandise.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65055 ENTREPRENEURIAL LEADERSHIP AND SUSTAINABILITY IN THE FASHION INDUSTRY 3 Credit Hours
This course discusses the importance of entrepreneurial leadership and innovation as competitive advantages within the fashion industry. Students examine the conscious leadership concepts and principles of both small/medium enterprises and large corporations of the fashion industry. By applying conscious capitalism approach, the course introduces more progressive and purposeful ways to advance sustainable practices to benefit all five stakeholders within the fashion industry - society, partners, investors, customers and employees.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Pre/corequisite: FDM 60005 and FDM 60015.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65065 SUPPLY CHAIN MANAGEMENT IN THE FASHION INDUSTRY 3 Credit Hours
This course examines supply chain within the fashion industry and basic theories and principles that guide decision-making in the supply chain. Students will learn how supply chain management can be used to gain a competitive advantage in the fashion industry, comprehend buyer-supplier relationships, supply chain transparency, product recalls, sourcing issues, and other challenges in the global fashion supply chain. Attention will be given to understanding sustainable practices and future developments within the global fashion supply chain.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65095 FASHION INDUSTRY SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Variable content relevant to the field of fashion.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

FDM 65096 INDIVIDUAL INVESTIGATION IN THE FASHION INDUSTRY 1-3 Credit Hours
(Repeatable for credit) Individual investigation of a topic that is not available through the current curriculum offerings. Requires submission of and approval of project proposal prior to registration.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

FDM 65100 SUSTAINABLE SUPPLY CHAIN AND LIFE CYCLE ASSESSMENT IN THE FASHION INDUSTRY 3 Credit Hours
This course examines the traditional and sustainable supply chain within the fashion industry. There is a focus on basic theories and principles that guide decision making, including current challenges in converting from traditional practices to environmentally and socially protective supply chains. Students learn how sustainably focused supply chain management can be used to gain a competitive advantage in the fashion industry through supply chain transparency and LCA metric development.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65110 CIRCULAR ECONOMY STRATEGIES IN THE FASHION INDUSTRY 3 Credit Hours
Throughout discussions of sustainability, a circular economy is considered the ultimate goal post by which we must measure success. To fully realize a sustainable future, we must design out waste and pollution and fundamentally rethink the fashion system that currently relies on a take/make/waste construct. This course examines what a circular economy might look like in the fashion industry, what things need to happen to get there and what initial steps look like in that direction.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65120 FIBER AND TEXTILE INNOVATION 3 Credit Hours
This course introduces current and emerging fiber and textile innovations relevant to the fashion industry and provides students an opportunity to explore the expanding potential of textiles as an adaptive and responsive interface between humans and their environment. Examples of applications are reviewed from four perspectives: (1) fiber and textile innovation with a focus on material production and selection implications; (2) manufacturing and processing basics; (3) implications for the life cycle and sustainability of the resulting textile and apparel products; and (4) human body-functional textile interactions and potential health implications.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65220 INNOVATIONS IN THE FASHION RETAIL INDUSTRY 3 Credit Hours
This course encompasses how various innovations create the optimal customer experience to gain competitive advantages in the 21st century retail environment. Using the perspective of omnichannel retailing, which is a fully integrated approach to commerce that provides shoppers a unified experience across all channels or touchpoints, students explore the various innovations relevant to the fashion retail industry. Through case study analysis and final project reports, students present pragmatic solutions to retailers of their choice.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FDM 65300 DIGITAL KNIT DESIGN 3 Credit Hours
This course focuses on digital knitting as utilized by a designer. The students use available software for 3D development of products and stitch design. The course focuses on stitch understanding and development, as well as communication of designs both stitch and shape using 3D virtualization software and stitch development software. This course is geared toward designers with industry studio practice and is at an advanced level.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 65310 DIGITAL KNIT PROGRAMMING I 3 Credit Hours
This course focuses on digital knitting and programming of industrial knitting machines. This is one of four digital knit courses that enables students to learn proprietary software, programming and technical knit skills. The course goes through the foundational understanding of stitches and how to program them on industrial knitting machines. The course also focuses on hands-on learning on the industrial machine, including set up of the machine and machine maintenance. This course is geared toward designers with fashion industry studio practice and is at an advanced level.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 65320 DIGITAL KNIT PROGRAMMING II 3 Credit Hours
This course focuses on digital knitting and advanced programming of industrial knitting machines. This is the second of two programming courses and one of the four digital knit courses enabling students to continue to learn complex proprietary software, programming and technical knit skills. The course goes through the understanding of more complex stitch structures, as well as how to program on the machine. The course includes techniques for shaping structures to create three dimensionally knitted textile products. This course is geared toward designers with industry studio practice and is at an advanced level.
Prerequisite: FDM 65310; and graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 65330 DIGITAL KNIT APPLICATIONS 3 Credit Hours
This course focuses on the application of skills in digital knitting to develop an advanced final product line. This is one of the four digital knit courses that enables students to learn proprietary software, programming and technical knit skills. Depending on the student's focus of either technical or design, the product line can be developed in 3D virtual presentation or actual prototypes. Regardless of focus, it is expected that the student has some representation of both virtual and actual in the final presentation of the product. Along with the product line, presentation is a use case. This course is geared toward designers with industry studio practice and is at an advanced level.
Prerequisite: FDM 65300 or FDM 65310; and graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

School of Music

Kent Blossom Music (KBM)

KBM 40026 ACCOMPANYING PROJECTS 2-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation master classes and instrumental private lessons. Individual responsibilities change weekly.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 40031 CHAMBER MUSIC 1-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) rehearsal, coaching and performance of representative chamber repertoire from the baroque era through the twentieth century. Woodwinds horn strings and piano. Intensive daily rehearsal and coaching.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 40032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds horn and strings.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 40093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 50026 ACCOMPANYING PROJECTS 2-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) Rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation, master classes and instrumental private lessons. Individual responsibilities change weekly.
Prerequisite: Graduate standing; and audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 50031 CHAMBER MUSIC 1-4 Credit Hours
(Repeatable for credit) Rehearsal, coaching and performance of representative chamber repertoire from the Baroque Era through the twentieth century. Woodwinds, horn, strings and piano. Intensive daily rehearsal and coaching.
Prerequisite: Graduate standing; and audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 50032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds, horn and strings.
Prerequisite: Graduate standing; and audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 50093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 70026 ACCOMPANYING PROJECTS 2-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) Rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation, master classes and instrumental private lessons. Individual responsibilities change weekly.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 70031 CHAMBER MUSIC 1-4 Credit Hours
(Repeatable for credit) Rehearsal, coaching and performance of representative chamber repertoire from the Baroque era through the twentieth century. Woodwinds, brass, strings and piano. Intensive daily rehearsal and coaching.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 70032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds, horn and strings.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 70093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 4 other
Grade Mode: Satisfactory/Unsatisfactory

Music (MUS)

MUS 11110 MUSIC FUNDAMENTALS 3 Credit Hours
Introduction to the pitch and rhythmic aspects of music. Emphasis on aural skills and music notation. Prepares students for MUS 11111. No credit toward graduation for music majors or minors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 11111 MUSIC RUDIMENTS 3 Credit Hours
Introduction to the pitch and rhythmic aspects of music. Emphasis on aural/oral skills and music notation.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MUS 11121 THEORY I 4 Credit Hours
Basic elements of music--harmonic, melodic, rhythmic--studied through analysis, composition, keyboard and ear training. Diatonic materials emphasized.
Prerequisite: Music Theory Placement Test, score of 02.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 11122 THEORY II 4 Credit Hours
Continuation of basic elements of music--harmonic, melodic, rhythmic--studied through analysis, composition, keyboard, singing and ear training. Chromatic materials emphasized.
Prerequisite: MUS 11121 with a C grade.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 16000 APPLIED MUSIC 1 Credit Hour
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower-division study. Individual study.
An audition is required. This course is not part of the ODHE Transfer Assurance guides.
Prerequisite: Music major or minor; and special approval.
Schedule Type: Private Lesson
Contact Hours: .5 other
Grade Mode: Standard Letter

MUS 16001 APPLIED MUSIC JAZZ 1 Credit Hour
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower-division jazz study. Individual study.
An audition is required. This course is not part of the ODHE Transfer Assurance Guides.
Prerequisite: Jazz Studies minor or non-music major; and special approval.
Schedule Type: Private Lesson
Contact Hours: .5 other
Grade Mode: Standard Letter

MUS 16914 ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles.
Prerequisite: None.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 16915 ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles.
Prerequisite: None.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 17011 PIANO CLASS FOR NONMUSIC STUDENTS 2 Credit Hours
Development of basic skills required in playing piano, including familiarity with the keyboard and music notation.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 17012 PIANO CLASS FOR NONMUSIC STUDENTS 2 Credit Hours
Development of basic skills required in playing piano, including familiarity with the keyboard and music notation.
Prerequisite: MUS 17011.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 17013 FUNDAMENTALS OF JAZZ PIANO 1 Credit Hour
Focus on the fundamentals of jazz piano chord voicings and accompanying, playing scales related to jazz theory and learning jazz repertoire on the piano. Additional skills related to becoming a well-rounded jazz improviser, composer and educator.
Prerequisite: MUS 17111 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 17111 PIANO CLASS I 1 Credit Hour
Preparatory piano. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 17112 PIANO CLASS II 1 Credit Hour
Preparatory piano. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation.
Prerequisite: MUS 17111 with a minimum C grade; and special approval.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 17512 WIND TECHNIQUES I 1 Credit Hour
Study of fundamental performance and pedagogical aspects of woodwind instruments. Content includes performance skill development and exposure to materials suitable for class and private instruction at the elementary and secondary school levels.
Prerequisite: Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 18611 SINGER'S DICTION I 1 Credit Hour
Foundational training and performance practice in phonetics and singing diction for the vocal repertoire of English, Italian and selected other languages.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 18612 SINGER'S DICTION II 1 Credit Hour
Foundational training and performance practice in phonetics and singing diction for the vocal repertoire of French, German and selected other languages.
Prerequisite: MUS 18611 with a C grade; and music major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 20295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours
(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MUS 21111 THEORY III 4 Credit Hours
Study of Western art music from the sixteenth through eighteenth centuries. Emphasis on analytical, aural, compositional, and keyboard components of music theory.
Prerequisite: MUS 11122 with a minimum C grade.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 21112 THEORY IV 4 Credit Hours
Study of Western art music from the nineteenth and early twentieth centuries. Emphasis on analytical, aural, compositional and keyboard components of music theory.
Prerequisite: MUS 21111 with a minimum C grade.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 21113 MUSIC PRODUCTION I 3 Credit Hours
A practical introduction to digital audio production, study of basic computer assisted recording, editing and music production.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 21114 MUSIC PRODUCTION II 3 Credit Hours
A practical study of computer-assisted composition and arranging covering MIDI, sequencing, synthesis, sampling and video synchronization.
Prerequisite: MUS 21113 and MUS 21221 with a minimum C grade; and Music Technology major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 21213 CLASS COMPOSITION I 2 Credit Hours
Introduction to beginning concepts involved with composing. Students in non-music majors may register for the course with departmental approval.
Prerequisite: Music major, Music Education major or Music Technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 other
Grade Mode: Standard Letter

MUS 21214 CLASS COMPOSITION II 2 Credit Hours
Application of beginning concepts involved with composing.
Prerequisite: Minimum C grade in MUS 21213.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 other
Grade Mode: Standard Letter

MUS 21221 AUDIO RECORDING I 3 Credit Hours
A study of fundamental studio recording technology, theory and techniques, including signal flow, microphone theory, the human auditory system, analog audio consoles and standard industry digital audio workstations (DAWs).
Prerequisite: MUS 21113 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 21222 AUDIO RECORDING II 3 Credit Hours
A continuation of audio theory and techniques addressed during MUS 21221. This includes study of the decibel, digital audio theory, microphone techniques and fundamental multitrack recording techniques, as well as DAW session setup, file management and recording session etiquette.
Prerequisite: MUS 21221 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 21341 CONTEMPORARY POPULAR MUSIC THEORY 3 Credit Hours
Application of the knowledge gained from music theory (MUS 11121 and MUS 11122) to the study of popular music through practical applications, particularly with regard to composition and improvisation.
Prerequisite: MUS 11122 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 22111 UNDERSTANDING WESTERN MUSIC (KFA) 3 Credit Hours
A listening approach for the understanding of Western art music, folk and jazz. Particular attention is paid to musical style forms and compositional techniques as related to music history.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts, Transfer Module Fine Arts

MUS 22121 MUSIC AS A WORLD PHENOMENON (DIVG) (KFA) 3 Credit Hours
An introduction to music as a world phenomenon. Study of selected art, folk and popular music from world cultures through live performances, tapes, films, video tapes and readings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

MUS 22131 SURVEY OF ROCK MUSIC HISTORY (DIVD) 3 Credit Hours
A survey of Rock Music History from the 1950s through the twentieth century to today. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Modern media, especially the Internet, is an integral component of the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

MUS 23241 MUSIC TEACHING AS A PROFESSION 2 Credit Hours
Basic teaching strategies and techniques; an overview of music teaching as a career; diversity, integration, curriculum technology, classroom management, legal issues, personal skills and portfolio. Twenty (20) field hours required.
Prerequisite: Music or music education major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 25011 UNIVERSITY CHORUS 1 Credit Hour
(Repeatable for credit) Choral ensemble which studies and performs sacred and secular music for mixed voices. Activities include performance on and off campus.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 25225 UNIVERSITY BAND 1 Credit Hour
(Repeatable for credit) Study and performance of music literature for wind band appropriate for music majors and non-majors.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

MUS 25311 CHAMBER MUSIC 1 Credit Hour
(Repeatable for credit) The study and performance of music for small ensembles.
Prerequisite: Permission.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

MUS 26111 APPLIED MUSIC PIANO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Must Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 26311 APPLIED MUSIC VOICE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 26411 APPLIED MUSIC - VIOLIN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26412 APPLIED MUSIC - VIOLA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26413 APPLIED MUSIC - CELLO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26414 APPLIED MUSIC DOUBLE BASS 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 26511 APPLIED MUSIC - FLUTE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26512 APPLIED MUSIC - OBOE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26513 APPLIED MUSIC - CLARINET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26514 APPLIED MUSIC - BASSOON 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26515 APPLIED MUSIC - SAXOPHONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26611 APPLIED MUSIC - TRUMPET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26612 APPLIED MUSIC - HORN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26613 APPLIED MUSIC - TROMBONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26614 APPLIED MUSIC - EUPHONIUM 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26615 APPLIED MUSIC - TUBA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26711 APPLIED MUSIC PERCUSSION 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 26912 APPLIED MUSIC GUITAR 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 27111 PIANO CLASS III 2 Credit Hours
Continuation of piano classes. Credit acceptable on music major and minor sequences.
Prerequisite: MUS 17112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 27112 PIANO CLASS IV 2 Credit Hours
Continuation of piano classes. Credit acceptable on music major and minor sequences.
Prerequisite: MUS 27111 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 27512 WIND TECHNIQUES II 1 Credit Hour
Study of fundamental performance and pedagogical aspects of brass instruments. Content includes performance skill development and exposure to materials suitable for class and private instruction at the elementary and secondary school levels.
Prerequisite: Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 27513 PERCUSSION TECHNIQUES 1 Credit Hour
Study of various percussion instruments (mallets, snare drum, timpani and auxiliary) and techniques of performance. Designed for music educators with no previous percussion experience.
Prerequisite: Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 31113 MUSIC PRODUCTION III 3 Credit Hours
Continuation of MUS 21114. Advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on arranging.
Prerequisite: Minimum C grade in the following courses: MUS 11121 and MUS 21114 and MUS 21222.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 31114 MUSIC PRODUCTION IV 3 Credit Hours
Continuation of Music Production III. Arranging for acoustic and electronic instruments as applied to music production. Development of MIDI programming skills and use of sample sets.
Prerequisite: MUS 31113 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 31211 COMPOSITION 2-4 Credit Hours
(Repeatable for credit) Original composition for instrumental and vocal solos and small ensembles using shorter musical forms.
Prerequisite: MUS 21214 with a minimum C grade; and Music major or Music Education major.
Schedule Type: Private Lesson, Studio
Contact Hours: 7.5-15 other
Grade Mode: Standard Letter

MUS 31221 AUDIO RECORDING III 3 Credit Hours
A study of advanced recording and record production techniques. Topics include pre-production planning, instrument-specific single and multi-mic techniques, re-amping and other techniques.
Prerequisite: Minimum C grade in the following courses: MUS 11121 and MUS 21114 and MUS 21222.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 31222 AUDIO RECORDING IV 3 Credit Hours
A detailed study of the tools, techniques and critical listening decisions required in creating a professional audio mx.
Prerequisite: MUS 31221 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 31230 GUITAR TECHNOLOGY 2 Credit Hours
Lectures, demonstrations and hands-on assignments geared to develop basic maintenance skills and an understanding of the different types of amps and common outboard effects.
Prerequisite: MUS 21114.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 31260 VOCAL PERFORMANCE TECHNIQUES 2 Credit Hours
Students will learn to use technology to explore their personal artistic creativity and design and market themselves as a performer. Students will have the opportunity to practice and perform with various accompaniments in all current genres and styles. Microphone techniques will also be studied.
Prerequisite: MUS 21114.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 32211 WESTERN MUSIC HISTORY I 3 Credit Hours
A study of Western music history from the early Christian chants through early classical style.
Prerequisite: MUS 11122 with a minimum C grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 32212 WESTERN MUSIC HISTORY II (WIC) 3 Credit Hours
A study of Western music history from the classical style period to the present.
Prerequisite: MUS 32211 with a minimum C grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MUS 32230 NAVIGATING THE MUSIC INDUSTRY 3 Credit Hours
An overview and study of the music industry. Current practices are examined including artist contracts, music copyright and licensing, and revenue flow from music consumers to content creators. Special emphasis is placed on entrepreneurial activity within the music industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 33211 ELEMENTARY AND SECONDARY GENERAL MUSIC 4 Credit Hours
Kodaly, Orff, Dalcroze and current strategies appropriate for early childhood K-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience in the teaching of general music in the schools. Forty (40) field hours required.
Prerequisite: Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and junior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 1 lab
Grade Mode: Standard Letter

MUS 33214 MUSIC EDUCATION TECHNOLOGY TECHNIQUES 1 Credit Hour
The application of technologies specific to music instruction and learning for music education majors. Emphasis is placed on project-based instruction focusing on the practical uses of technology in school settings. Engagement in standard arranging practices and arranging music for various school settings.
Prerequisite: Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 33231 ELEMENTARY AND SECONDARY CHORAL MUSIC 4 Credit Hours
Methods, materials, and literature used in elementary and secondary choral music programs; designing a choral curriculum, advocacy and assessment, lesson planning, program organization, budget. Clinical experience in the teaching of choral music. Forty (40) field hours required.
Prerequisite: Admission to advanced study; and MUS 23241 and 34111 with a minimum C grade; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

MUS 33314 PROGRESSIVE AND VERNACULAR MUSIC METHODS 2 Credit Hours
Elementary through secondary instruction of music methods related to vernacular and popular music styles. Students gain experience with lesson planning, program organization, recruiting and performing with ensembles that exist outside the band-orchestra-chorus model including, but not limited to, rock bands, technology-based ensembles and other non-traditional ensembles. Experiences focus on popular and vernacular music-making techniques, facilitating small- and large-group instruction and incorporating these experiences within the traditional school music setting.
Prerequisite: MUS 23241 with a minimum C grade; and admission to advanced study; and completion of the music education professional evaluation; and Music Education major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 33315 GENERAL MUSIC METHODS 2 Credit Hours
Kodály, Orff, Dalcroze, Music Learning Theory and current strategies appropriate for early childhood and P-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience for the teaching of general music in schools. 30 field hours required. A current FBI/BCI background check is required.
Prerequisite: MUS 23241 with a minimum C grade; and admission to advanced study; and completion of the music education professional evaluation; and Music or Music Education major; and junior standing.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

MUS 33316 CHORAL MUSIC METHODS 2 Credit Hours
Study and practice of implementing traditional and contemporary choral methods, materials and literature within elementary and secondary choral music programs. Course includes, but is not limited to, experiencing designing a K-12 vocal and choral curriculum, advocacy and assessment specific to choral music, lesson planning, program organization, budget and exposure to philosophical perspectives toward teaching P-12 choral music. 20 clinical field experience hours within choral music teaching are required. Pre/corequisites:
Prerequisite: MUS 11122 and MUS 17111 and MUS 23241; and admission to advanced study; and Music Education major.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

MUS 34111 INTRODUCTION TO CONDUCTING 1 Credit Hour
Introduction to and study of conducting: beat patterns, baton techniques, score reading, analysis and interpretive elements.
Prerequisite: MUS 11122 with a minimum C grade; and junior standing.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 34121 CONDUCTING AND LEADERSHIP IN SCHOOLS 1 Credit Hour
Advanced study of and practice with instrumental and choral conducting, guiding general music environments and leadership of K-12 music classrooms and related settings. Skills and knowledge include conducting gesture, running rehearsals, score study and arranging, working with groups of students, understanding the young mindset of school-based musical groups, listening and responding to musical activities and navigating musical experiences in schools. The course includes additional work with leading groups other than secondary choral and instrumental groups, such as elementary ensembles, modern bands, non-Western ensembles and other ensemble leadership that falls outside of traditional band, orchestra and choir models.
Prerequisite: MUS 21111; and Music or Music Education major; and junior standing.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 34211 ELEMENTARY AND SECONDARY GENERAL MUSIC 2 Credit Hours
Kodaly, Orff, Dalcroze, and current strategies appropriate for early childhood K-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience in the teaching of general music in the schools. Thirty (30) field hours required.
Prerequisite: Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and completion of the music education professional evaluation; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

MUS 34212 ELEMENTARY AND SECONDARY CHORAL MUSIC 2 Credit Hours
Methods, materials, and literature used in elementary and secondary choral music programs; designing a choral curriculum, advocacy and assessment, lesson planning, program organization, budget. Clinical experience in the teaching of choral music. Thirty (30) field hours required.
Prerequisite: Admission to advanced study; and MUS 23241 and 34111 with a minimum C grade; and completion of the music education professional evaluation; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

MUS 35213 STUDIO ENSEMBLE 1 Credit Hour
(Repeatable for a maximum of 16 credit hours) Development of ensemble skills through small group experience performing diverse popular styles from notation, developing improvisation skills and creating arrangements from lead charts. Students must audition for the director prior to registration for the course.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 36011 APPLIED MUSIC JAZZ 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 36111 APPLIED MUSIC PIANO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36311 APPLIED MUSIC VOICE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36411 APPLIED MUSIC VIOLIN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36412 APPLIED MUSIC VIOLA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36413 APPLIED MUSIC CELLO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36414 APPLIED MUSIC DOUBLE BASS 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36511 APPLIED MUSIC FLUTE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36512 APPLIED MUSIC OBOE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36513 APPLIED MUSIC CLARINET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36514 APPLIED MUSIC BASSOON 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36515 APPLIED MUSIC SAXOPHONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36611 APPLIED MUSIC TRUMPET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36612 APPLIED MUSIC HORN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36613 APPLIED MUSIC TROMBONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36614 APPLIED MUSIC EUPHONIUM 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36615 APPLIED MUSIC TUBA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36711 APPLIED MUSIC PERCUSSION 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36912 APPLIED MUSIC GUITAR 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36913 APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours
(Repeatable for a maximum of 16 credit hours) Development of performance proficiency in contemporary popular music styles appropriate for the performance idiom through individual instruction. Students must audition for the director prior to registration for the course.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36914 ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music and music technology majors; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36915 ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles.
Prerequisite: Music and music technology majors.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36916 DRUM SET PERCUSSION APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music and music technology majors; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36917 KEYBOARD APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music and music technology majors; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36918 CONTEMPORARY VOICE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music and music technology majors; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36919 FLUTE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36920 CLARINET APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36921 SAXOPHONE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36922 TRUMPET APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36923 HORN APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36924 TROMBONE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 37111 CONTEMPORARY POPULAR PIANO 2 Credit Hours
Development of keyboard applications in contemporary popular music styles with a focus on music theory.
Prerequisite: MUS 17112 with a minimum C grade.
Corequisite: MUS 21341.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 37113 PIANO SKILLS FOR THE CHORAL/GENERAL MUSIC EDUCATOR 2 Credit Hours
Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals.
Prerequisite: MUS 11121 and MUS 17111 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 37114 PIANO SKILLS FOR THE INSTRUMENTAL MUSIC EDUCATOR 1 Credit Hour
Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals.
Prerequisite: MUS 11121 and MUS 17111 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 37512 STRING TECHNIQUES 1 Credit Hour
Discussion and practice of basic principles surrounding classroom string playing, instrumental pedagogy and group process as applied to public school music settings. This course is devoted to string teaching and learning for pre-service music education training.
Prerequisite: Music or Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 37514 VOICE TECHNIQUES 1 Credit Hour
Class instruction covering the fundamentals of singing including breathing, tone, posture, resonance, diction and vocal health. Other topics include anatomy and physiology of the voice.
Prerequisite: Music or Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 38599 RECITAL (ELR) 1 Credit Hour
A culminating educational experience for students to demonstrate their musical understanding and application of ideas, techniques and musical interpretation. This course focuses on the study of a wide range of repertoire and public performance within the student's chosen performing medium.
Prerequisite: Junior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

MUS 40092 MUSIC TECHNOLOGY INTERNSHIP (ELR) 2 Credit Hours
(Repeatable for a maximum of 4 credit hours) On-the-job experience with cooperating business in the field of music technology and preparation of a final report or an applicable project. Students must have a minimum 2.250 major GPA to register for the course.
Prerequisite: MUS 31114 or MUS 31222 with a minimum C grade; and Music Technology major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

MUS 40295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours
(Slashed with MUS 50295 and MUS 70295)(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MUS 40296 INDEPENDENT STUDY:MUSIC 1-3 Credit Hours
(Repeatable for credit)Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses.
Prerequisite: Music or music education major; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 41010 DOUBLE REED DESIGN AND PRODUCTION 1 Credit Hour
(Slashed with MUS 51010)(Repeatable for credit) This course is an in-depth study of double reed design and production. This course is designed for double reed oboe students and music education students who have completed the woodwind technique course. The students of this course learn to grow and harvest the raw material (Arundo-Donax cane) and age the raw material in a climate-controlled area. The students learn to design and craft double reeds and produce marketable products to meet the highest performance standards.
Prerequisite: Music major or Music minor or Music Education major or Music Technology major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41091 MUSIC LEARNING THEORY APPROACH 3 Credit Hours
(Slashed with MUS 51091 and MUS 71091)(Repeatable for credit) Through the lens of Gordon's Music Learning Theory, the course is focused on P-6 general music and developing effective strategies for learner-centered growth, musicianship, movement, curriculum, inclusion and assessment. This course is offered in conjunction with the Gordon Institute for Music Learning (GIML) and satisfies requirements for GIML PDLC EGM level 1.
Prerequisite: None.
Schedule Type: Laboratory, Seminar
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 41112 WESTERN MUSIC SINCE 1945 1 Credit Hour
The study of Western art music since 1945 from historical and theoretical viewpoints. Emphasis on analysis, composition, listening and intellectual understanding.
Prerequisite: MUS 21112 and MUS 32212 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41113 MUSIC PRODUCTION V 3 Credit Hours
Continuation of Music Production IV, create music to accompany a visual medium by learning fundamental to more advanced film scoring techniques.
Prerequisite: MUS 31114 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41114 MUSIC PRODUCTION VI 3 Credit Hours
Continuation of Music Production V, advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on original music.
Prerequisite: MUS 41113 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41131 KEYBOARD HARMONY 3 Credit Hours
Theoretical skills demonstrated at the keyboard: harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41141 SIXTEENTH-CENTURY COUNTERPOINT 3 Credit Hours
Two-, three -and four part vocal counterpoint in 16th century style.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41151 EIGHTEENTH-CENTURY COUNTERPOINT 3 Credit Hours
Technique of writing counterpoint in 18th-century style, especially that of J. S. Bach.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41161 ADVANCED MUSICAL ANALYSIS 3 Credit Hours
A study of recent approaches to tonal and nontonal musical analysis. Emphasis on familiarity with styles, nomenclature and appropriate graphic techniques.
Prerequisite: MUS 41112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41181 ACOUSTICS AND TECHNOLOGY IN MUSIC 2 Credit Hours
An introduction to acoustics and psychoacoustics in direct relationship to music, and an introduction to uses of technology in music composition, performance, notation, theory, history and pedagogy.
Prerequisite: Music technology major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 41211 COMPOSITION 2,4 Credit Hours
(Repeatable for credit) Study of the materials and techniques of musical composition culminating in original works based upon observable principles of unity and variety.
Prerequisite: Composition or music or music education major.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 41221 AUDIO RECORDING V 3 Credit Hours
A continuation of Audio Recording IV. Covered topics include advanced mixing techniques using analog console automation, mixing for surround sound, and fundamentals of audio mastering.
Prerequisite: MUS 31222 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41222 AUDIO RECORDING VI 3 Credit Hours
A comprehensive record production experience from pre-production through recording, editing, mixing and mastering a complete audio project. Alternatively, students may opt to complete a research-based thesis document.
Prerequisite: MUS 41221 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41240 AUDIO ELECTRONICS I 3 Credit Hours
This course grants students the opportunity to explore electronics with a focus on applications in audio. Fundamental concepts like Ohm's Law, Joule's Law, resistance, capacitance and AC rectification will be covered, followed by basic transistor, operational amplifier (op amp) and vacuum tube circuits. The course will also visit resonant circuits and filters, transformers, and impedance. Hands-on skills like soldering, breadboarding and circuit simulation will culminate in an individual project in which students will assemble a microphone cable or instrument cable and their choice of microphone or guitar effects pedal from a kit.
Prerequisite: MUS 31221.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MUS 41250 LIVE SOUND PRODUCTION 2 Credit Hours
Students will learn how to spec, assemble, operate and maintain small-to-medium-scale professional public address systems for live concert audio production. The course will culminate in the class providing sound reinforcement for Kent State University at Stark's end-of-semester ensemble concerts.
Prerequisite: MUS 21222.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 41255 MUSIC PRODUCTION SEMINAR 1 Credit Hour
Required for students in the music production sequence, this is a traditional weekly one credit hour seminar course where students will workshop and share their projects, see faculty projects in process, familiarize themselves with vital recent historical works in their area and analyze and discuss fascinating new efforts in the realm of music production and composition.
Prerequisite: MUS 21114.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41291 SEMINAR IN POST-TONAL AND RECENT MUSIC 3 Credit Hours
(Slashed with MUS 51291 and MUS 71291) Seminar covering selected topics about music theory from the early 20th century to recent decades, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 41299 SENIOR PROJECT:MUSIC COMPOSITION (ELR) 2 Credit Hours
(Repeatable for credit)The final composition experience prior to graduation: a recital of individually composed works must be presented.
Prerequisite: MUS 41211 with a minimum C grade.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MUS 41321 ORCHESTRATION 3 Credit Hours
Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41341 JAZZ IMPROVISATION I 1 Credit Hour
(Slashed with MUS 51341) A beginner's introduction to jazz improvisation. Theory and daily playing are enhanced by ear training.
Prerequisite: Music major or minor.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41342 JAZZ COMPOSING AND ARRANGING 2 Credit Hours
(Slashed with MUS 51342) Composing and arranging for the large and small jazz ensemble.
Prerequisite: Jazz Studies concentration within the Music major or Jazz Studies minor.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 41351 JAZZ IMPROVISATION II 1 Credit Hour
(Slashed with MUS 51351) The presentation of a methodical approach to learning standard jazz repertoire.
Prerequisite: MUS 41341 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41391 SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY 3 Credit Hours
(Slashed with MUS 51391 and MUS 71391) Seminar covering selected topics about music theory from the high Renaissance to late Romantic period, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 42101 ROOTS OF ROCK 3 Credit Hours
Roots of Rock is a comprehensive survey of the various genres of American music in the 20th century that contributed to the development of rock music. Important performers in various styles and their contributions to the art form are explored. Pioneers in the fields of recording, artist management and production are studied. Rock music's contributions to the emergence of American culture are viewed in the context of social, racial and political changes. The impact of technological advances in radio, recording and television are also studied.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42111 AFRICAN MUSIC AND CULTURES 3 Credit Hours
African music as related to social sciences and humanities. Oral traditions. Use of music recordings, tapes, musical instruments, participation in performance and group work involvement.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42131 MUSIC OF THE UNITED STATES 3 Credit Hours
(Slashed with MUS 52131 and MUS 72131) Historical survey of music in the United States including Native American music, minstrelsy, New England psalmody, jazz and Latin American influences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42141 FOLK MUSIC OF EUROPE AND NORTH AMERICA 3 Credit Hours
(Slashed with MUS 52141) Study of selected music cultures of Eastern and Western Europe, and South, Central and North America.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42151 ASIAN MUSICS 3 Credit Hours
Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42161 HISTORY OF JAZZ (DIVD) 3 Credit Hours
(Slashed with MUS 52161 and MUS 72161) The evolution of jazz from its origin to present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

MUS 42162 JAZZ STYLES AND ANALYSIS 3 Credit Hours
(Slashed with MUS 52162) An approach to jazz history from the perspective of major artists such as: Louis Armstrong, Duke Ellington, Charlie Parker, Miles Davis and John Coltrane.
Prerequisite: Jazz Studies concentration within the Music major or Jazz Studies minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42165 HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC) 3 Credit Hours
A study of popular music from the 1950s to the present. Course content will highlight significant artists, examine important style elements, and expose students to a variety of repertoire. This course will emphasize music theory and orchestration to understand and differentiate style. An overview of the history and development of recording technology is an important component of this course.
Prerequisite: MUS 21341.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Writing Intensive Course

MUS 42181 POPULAR WORLD MUSIC (DIVG) 3 Credit Hours
(Slashed with MUS 52181 and MUS 72181) A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Modern media, especially the Internet, is an integral component of the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

MUS 42221 SYMPHONIC LITERATURE 3 Credit Hours
(Slashed with MUS 52221) Historical and stylistic survey of music for large instrumental ensemble.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42227 WIND BAND LITERATURE 3 Credit Hours
(Slashed with MUS 52227 and MUS 72227) Historical survey of wind band literature and the development of the ensemble.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42232 PIANO LITERATURE I 2 Credit Hours
Survey of keyboard suites, sonatas and concerti from the 16th century to the present. Emphasis on performing, listening, and analysis.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 42241 PIANO LITERATURE 3 Credit Hours
(Slashed with MUS 52241) Survey of keyboard and piano literature from the 16th century to the present; study of related forms and styles. Emphasis on performing, listening and analysis.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42242 PIANO LITERATURE II 2 Credit Hours
Survey of character pieces and variations from the 16th century to the present. Emphasis on performing, listening, and analysis.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 42251 SONG LITERATURE 3 Credit Hours
A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.
Prerequisite: MUS 22111 with a minimum C grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42261 VOCAL LITERATURE 3 Credit Hours
(Slashed with MUS 52261) The historical development of opera from the 17th century to the present. Detailed analysis of representative works.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42271 CHORAL LITERATURE 3 Credit Hours
(Slashed with MUS 52271 and MUS 72271) Study of Western European choral literature from approximately 1450 to the early 19th century, i.e., Renaissance, Baroque and Classical periods.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42272 CHORAL LITERATURE II 3 Credit Hours
(Slashed with MUS 52272) Continuation of Choral Literature I. A study of Western European and North American choral music of the early 19th century to the present (roughly 1830 to the present).
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42291 SEMINAR IN MUSIC HISTORY AND LITERATURE 3 Credit Hours
(Slashed with MUS 52291 and MUS 72291)(Repeatable for credit) Selected problems of research for music history and literature. Each student is responsible for presenting papers for discussion.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 42345 ORFF SCHULWERK TEACHER EDUCATION LEVEL I 3 Credit Hours
(Slashed with MUS 52345 and MUS 72345)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level I is designed as an introductory experience to Orff Schulwerk pedagogy and is appropriate for anyone with a music degree.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 42346 ORFF SCHULWERK TEACHER EDUCATION LEVEL II 3 Credit Hours
(Slashed with MUS 52346 and MUS 72346)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level II is designed as an intermediate experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level I at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 42345.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 42347 ORFF SCHULWERK TEACHER EDUCATION LEVEL III 3 Credit Hours
(Slashed with MUS 52347 and MUS 72347)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level III is designed as an advanced experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level II at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 42346.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 42392 STUDENT TEACHING (ELR) 9 Credit Hours
Provides a 16-week student teaching experience. Off-campus arrangements are handled by the College of Education, Health and Human Services and the School of Music.
Prerequisite: Music education major; official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching; and special approval.
Corequisite: MUS 49525.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MUS 43241 MARCHING BAND TECHNIQUES AND LITERATURE 1 Credit Hour
Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles, literature and show design.
Prerequisite: Music education major; and sophomore standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lab
Grade Mode: Standard Letter

MUS 43242 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 2 Credit Hours
Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation jazz styles and rehearsal techniques taught through laboratory experience.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 43243 CONTEMPORARY CHORAL METHODS IN THE SCHOOLS 3 Credit Hours
(Slashed with MUS 53243) Basic techniques and materials for teaching vocal jazz and musical theatre in the schools. Administration, organization and publicity for productions as well as literature for these performing groups will be explored.
Prerequisite: Music education major or music major; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 43245 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 1 Credit Hour
(Slashed with MUS 53245) Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation of jazz styles and rehearsal techniques taught through laboratory experiences. One hour of field observation is required.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 43264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 53264 and MUS 73264) In this course, students participate in small rock ensembles and examine the pedagogy of that type of ensemble. Lectures and demonstrations include topics such as equipment selection, repertoire selection and performance techniques. The course also emphasizes techniques for amplifying rock ensembles, and students learn fundamental techniques for recording rock ensembles.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 43265 METHODS IN JAZZ PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 53265) In this course, students will participate in immersive experiences in various aspects of vocal and instrumental jazz: solo performing, ensemble rehearsal techniques, repertoire selection and sources, jazz theory, improvisation, working with a rhythm section, and sound reinforcement. Students will also participate in a workshop ensemble to experience the art form as a member of a jazz ensemble.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 44111 ADVANCED CHORAL CONDUCTING 2 Credit Hours
Continued development of conducting technique, score reading analysis, styles, interpretation, rehearsal procedure, diction issues as they relate to conducting and pedagogy.
Prerequisite: Minimum C grade in MUS 21111, MUS 34111 and MUS 37113.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 44121 ADVANCED INSTRUMENTAL CONDUCTING 2 Credit Hours
Continued development of conducting technique, score reading analysis, styles, interpretation and rehearsal procedures.
Prerequisite: MUS 21111 and MUS 34111 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 44210 INSTRUMENTAL MUSIC METHODS 2 Credit Hours
Study and practice of traditional and contemporary instrumental methods, materials and literature within elementary and secondary band and orchestra programs. The course includes, but is not limited to, experience designing a K-12 instrumental music curriculum, advocacy and assessment, lesson planning, program organization, budget and exposure to philosophical perspectives toward teaching P-12 instrumental music. 20 clinical field hours within instrumental music teaching are required.
Prerequisite: MUS 11122 and MUS 17111 and MUS 23241; and admission to advanced study; and Music Education major.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

MUS 44211 INSTRUMENTAL METHODS I 2 Credit Hours
Elementary and middle school instrumental instruction, program organization, rehearsal teaching techniques, lesson plans, literature, assessment, scheduling, recruiting, modeling and interactive teaching. Clinical experience in the teaching of music. Thirty (30) field hours required.
Prerequisite: MUS 23241 with a minimum C grade; and minimum C grade in and 2 credit hours of the following courses: MUS 37512 or MUS 47512 or MUS 47513 or MUS 47612 or MUS 47712; and admission to advanced study; and completion of the music education professional evaluation; and Music or Music Education major; and junior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

MUS 44212 INSTRUMENTAL METHODS II 2 Credit Hours
Secondary instrumental instruction; program organization, budget, advocacy, assessment, rehearsal planning, literature and teaching techniques. Clinical experience in the teaching of music. Thirty (30) field hours required.
Prerequisite: Minimum C grade in the following courses: MUS 23241 and MUS 34111 and MUS 44211; and MUS 37512 or MUS 47512 or MUS 47612 or MUS 47712; and admission to advanced study; and completion of the music education professional evaluation; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

MUS 45121 KENT CHORUS 1 Credit Hour
(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45131 KENT STATE OPERA THEATRE WORKSHOP 1 Credit Hour
(Repeatable for credit) Training in methods and skills necessary to the art of the singer-actor. Opera performed and prepared via study, observation and rehearsal.
Prerequisite: Audition.
Schedule Type: Studio
Contact Hours: 9.5 other
Grade Mode: Standard Letter

MUS 45141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour
(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles with appropriate accompaniment sung in the original language. An audition is required before registering for this course.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4.5 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45142 CORO CANTARE 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 55142) A chorus of tenor, baritone and bass voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for tenor, baritone and bass voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45143 CANTIQUE 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 55143) A chorus of soprano and alto voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for soprano and alto voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45151 KENT STATE UNIVERSITY GOSPEL CHOIR 1 Credit Hour
(Repeatable for credit) Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45212 ORCHESTRA 1 Credit Hour
(Slashed with MUS 55212 and MUS 75212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45221 SYMPHONY BAND 1 Credit Hour
(Repeatable for credit) Study and performance of music literature for wind band.
Prerequisite: Audition.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45222 MARCHING BAND 1 Credit Hour
(Repeatable for credit) Study and performance of literature and maneuvers for marching band.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45223 WIND ENSEMBLE 1 Credit Hour
(Slashed with MUS 55223 and MUS 75223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45224 FLASHER BRASS 1 Credit Hour
(Repeatable for credit) Study and performance of music for Flasher Brass.
Prerequisite: Audition.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

MUS 45225 UNIVERSITY BAND 1 Credit Hour
(Repeatable for credit) Study and performance of music literature for wind band appropriate for non-music majors, and for music education majors performing on secondary instruments.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45231 JAZZ ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music literature in the jazz idiom.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 7.5 other
Grade Mode: Standard Letter

MUS 45241 TROMBONE ENSEMBLE 1 Credit Hour
(Repeatable for credit) A thorough study of trombone performance in various sized ensembles. Emphasis on original literature from over four centuries.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 45251 PERCUSSION ENSEMBLE 1 Credit Hour
(Repeatable for credit) A comprehensive study of percussion performance in various-sized ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

MUS 45261 BASSOON ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing interpretation leadership skills and arranging techniques.
Prerequisite: Permission audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 45271 NEW MUSIC ENSEMBLE 1 Credit Hour
(Repeatable for credit)(Slashed with MUS 55271 and MUS 75271) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 45301 AFRICAN ENSEMBLE (DIVG) 1 Credit Hour
(Slashed with MUS 55301 and MUS 75301)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with traditional and popular music and dance from Africa and the African diaspora. Specific traditions studied may include, but are not limited to, Ghana, Guinea, Senegal, Nigeria, Haiti, Cuba, Puerto Rico, Trinidad and Tobago and the United States. This course is performance and community focused.
Prerequisite: None.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Diversity Global

MUS 45302 CARIBBEAN STEELBAND (DIVG) 1 Credit Hour
(Slashed with MUS 55302 and MUS 75302)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with steelband traditions of Trinidad and Tobago. Specific traditions and genres studied may include, but are not limited to, pan, calypso, soca, Latin, bomb tunes, carnival and tamboo-bamboo. This ensemble is performance and community focused.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Diversity Global

MUS 45311 CHAMBER MUSIC 1,2 Credit Hour
(Repeatable for credit) The study and performance of music for small ensembles. Music minors and other non-music majors may take this course with permission.
Prerequisite: Music major or music education major.
Schedule Type: Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 45312 JAZZ COMBO DEVELOPMENT 1 Credit Hour
(Repeatable for a total of 8 credit hours) The study of Jazz combo performance through rehearsal.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

MUS 45313 NOVA JAZZ SINGERS 1 Credit Hour
(Repeatable for credit) The Kent State Nova Jazz Singers is a select vocal jazz ensemble. Repertoire consists of arrangements of American popular music from the 1930s to today, covering all contemporary styles. Nova Jazz Singers is open to all Kent State students by audition.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 45314 WORLD MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 55314 and MUS 75314)(Repeatable for maximum of 8 credit hours) This course teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming, Thai Piphat. Specific traditions studied include areas of specialization of instructors and/or advanced student participants.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 45315 ASIAN MUSIC ENSEMBLE (DIVG) 1 Credit Hour
(Slashed with MUS 55315 and MUS 75315)(Repeatable for credit) This course teaches performance practice and cultural etiquette associated with traditional and popular Asian music genres, e.g., Thai, Chinese and Indian classical music.
Prerequisite: None.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Diversity Global

MUS 45321 ACCOMPANYING 1,2 Credit Hour
(Repeatable for credit) Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly.
Prerequisite: Permission.
Schedule Type: Private Lesson, Studio
Contact Hours: 1-2 other
Grade Mode: Standard Letter

MUS 46111 APPLIED MUSIC PIANO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46311 APPLIED MUSIC VOICE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46411 APPLIED MUSIC VIOLIN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46412 APPLIED MUSIC VIOLA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46413 APPLIED MUSIC CELLO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46414 APPLIED MUSIC DOUBLE BASS 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46511 APPLIED MUSIC FLUTE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46512 APPLIED MUSIC OBOE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46513 APPLIED MUSIC CLARINET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46514 APPLIED MUSIC BASSOON 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46515 APPLIED MUSIC SAXOPHONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46611 APPLIED MUSIC TRUMPET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46612 APPLIED MUSIC HORN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46613 APPLIED MUSIC TROMBONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46614 APPLIED MUSIC EUPHONIUM 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46615 APPLIED MUSIC TUBA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46711 APPLIED MUSIC PERCUSSION 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 47012 CLASS GUITAR I 2 Credit Hours
Development of basic guitar performance skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 47013 CLASS GUITAR II 2 Credit Hours
Continued development of acoustic guitar performance skills, study of performance related theory and related topics.
Prerequisite: MUS 47012.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 47311 VOICE CLASS FOR THE INSTRUMENTALIST 1 Credit Hour
Class instruction in the fundamentals of correct breathing, tone production and diction.
Prerequisite: Music or music education major.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 47312 VOICE CLASS FOR NON-MUSIC STUDENTS 1 Credit Hour
Class instruction in the fundamentals of correct breathing, tone production and diction.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 47512 WIND TECHNIQUES - FRENCH HORN AND DOUBLE REEDS 1 Credit Hour
The study of the fundamental principles of playing and teaching French horn, oboe, and bassoon. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary levels.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 47513 WIND TECHNIQUES - FLUTE, CLARINET, SAXOPHONE 1 Credit Hour
The study of the fundamental principles of playing and teaching flute, clarinet, and saxophone. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary levels.
Prerequisite: Music or music education.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 47612 WIND TECHNIQUES - TRUMPET AND LOW BRASS 1 Credit Hour
The study of the fundamental principles of playing trumpet, trombone, tuba, and euphonimum. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary school levels.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 47712 PERCUSSION CLASS 1 Credit Hour
Study of various percussion instruments (mallets, snare drum, timpani and auxiliary) and techniques of performance. Designed for music educator with no previous percussion experience.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 47811 INSTRUMENT CLASS FOR THE CHORAL/GENERAL MUSIC EDUCATOR 1 Credit Hour
Class instruction in the basic playing skills of band and orchestral instruments intended to provide familiarity with the common school instruments for the choral-general music major. Ten (10) hours of field experience required.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 48221 ELEMENTS OF ACCOMPANYING I 2 Credit Hours
Techniques of accompanying; selected overview of art song literature including Italian, German, French and English songs development of playing at sight skills.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48222 ELEMENTS OF ACCOMPANYING II 2 Credit Hours
Continuation of accompanying techniques including opera accompanying, orchestral reductions and selected overview of literature for solo instrument and piano; continuation of playing-at-sight skills.
Prerequisite: MUS 48221 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48231 INSTRUMENTAL PEDAGOGY FOR THE CHORAL GENERAL MUSIC EDUCATOR 2 Credit Hours
Knowledge and techniques for building and maintaining an instrumental music program within the K-12 school setting for the choral general music education major. Ten (10) hours of field experience required.
Prerequisite: MUS 47811 with a minimum C grade; and music education major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48232 GENERAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST 1 Credit Hour
General music pedagogy techniques for the instrumental music education major. Clinical experiences in the teaching of general music. Ten (10) field hours required.
Prerequisite: MUS 37114 with a minimum C grade; and music education major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 48233 CHORAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST 1 Credit Hour
Choral pedagogy techniques and choral program development for the instrumental music education major. Clinical experiences in the teaching of choral music. Ten (10) field hours required.
Prerequisite: MUS 47311 with a minimum C grade; and music education major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 48241 VOICE PEDAGOGY 2 Credit Hours
Survey of techniques, practices and materials of teaching voice.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48250 PEDAGOGY OF MUSIC 3 Credit Hours
Study of pedagogical methodologies and practices. Drawing on discoveries in cognitive neuroscience, this course explores the connection between the human brain and music making, teaching and learning. The course content covers a range of topics, such as the ways that the brain processes musical learning, practical approaches to music teaching, pedagogical challenges in the digital age, understanding emotion and empathy and developing interdisciplinary teaching strategies.
Prerequisite: MUS 11122 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MUS 48251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours
(Slashed with MUS 58251 and MUS 78251) The principles and techniques of teaching music theory.
Prerequisite: MUS 21112 with a minimum C grade; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48257 PEDAGOGY-INSTRUMENTAL 2 Credit Hours
Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice. Offered as needed for strings woodwinds brass percussion organ, or guitar.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48311 PIANO PEDAGOGY I 2 Credit Hours
Individual and group piano teaching including teaching methods and the history of piano pedagogy.
Prerequisite: Music or music education major; and junior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48312 PIANO PEDAGOGY II 2 Credit Hours
Individual and group piano teaching. Building an independent studio and career networking.
Prerequisite: MUS 48311 with a minimum C grade; and music major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 48512 IMPROVISATION 1 Credit Hour
The development of musical improvisation skills not tied to any particular music style. Students will perform on their own applied instrument(s).
Prerequisite: MUS 21111 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 48598 MUSIC RESEARCH (ELR) 2,3 Credit Hours
(Repeated registration permitted) Research or individual investigation for undergraduate students.
Prerequisite: Permission.
Schedule Type: Research
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

MUS 48599 CAPSTONE RECITAL (ELR) 1 Credit Hour
A culminating educational experience for students to demonstrate their musical understanding and application of ideas, techniques and musical interpretation. This course focuses on the study of a wide range of repertoire and public performance within the student's chosen performing medium.
Prerequisite: Senior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

MUS 48610 SINGER'S DICTION 3 Credit Hours
(Slashed with MUS 58610) Foundational training and performance practice with phonetics and lyric diction for English, Italian, German and French vocal repertoire.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 48699 COMPOSITION RECITAL (ELR) 2 Credit Hours
A culminating educational experience for students to demonstrate the application of ideas, performance and composition techniques, focusing on the creation of original musical works, presentation of the works during a short lecture and public performance. The student presenter must participate in the performance of at least one of the works.
Prerequisite: Senior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

MUS 49525 SEMINAR FOR STUDENT TEACHING (ELR) 3 Credit Hours
(Slashed with MUS 59525) A capstone discussion of principles of music teaching and pragmatic understanding of school music settings. Seminar serves as the companion course to Student Teaching for the purpose of self-observation, reflection, and analysis. Development of edTPA and portfolio.
Prerequisite: Music education major; and senior standing; and special approval.
Corequisite: MUS 42392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MUS 50295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours
(Slashed with MUS 40295 and MUS 70295)(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.
Prerequisite: Music major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MUS 50296 INDEPENDENT STUDY:MUSIC 1-3 Credit Hours
(Repeatable for credit) Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses.
Prerequisite: Music major; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 51010 DOUBLE REED DESIGN AND PRODUCTION 1 Credit Hour
(Slashed with MUS 41010)(Repeatable for credit) This course is an in-depth study of double reed design and production. This course is designed for double reed oboe students and music education students who have completed the woodwind technique course. The students of this course learn to grow and harvest the raw material (Arundo-Donax cane) and age the raw material in a climate-controlled area. The students learn to design and craft double reeds and produce marketable products to meet the highest performance standards.
Prerequisite: School of Music major; and graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 51011 INTRODUCTION TO TONAL AURAL SKILLS 1 Credit Hour
Focus on solfege singing, ear training and aural analysis in preparation for graduate level music theory coursework.
Prerequisite: Music major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MUS 51012 INTRODUCTION TO TONAL MUSIC ANALYSIS 1 Credit Hour
Focus on harmony, counterpoint and written analysis in preparation for graduate level music theory coursework.
Prerequisite: Music major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MUS 51091 MUSIC LEARNING THEORY APPROACH 3 Credit Hours
(Slashed with MUS 41091 and MUS 71091)(Repeatable for credit) Through the lens of Gordon's Music Learning Theory, the course is focused on P-6 general music and developing effective strategies for learner-centered growth, musicianship, movement, curriculum, inclusion and assessment. This course is offered in conjunction with the Gordon Institute for Music Learning (GIML) and satisfies requirements for GIML PDLC EGM level 1.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Seminar
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 51131 KEYBOARD HARMONY 3 Credit Hours
Theoretical skills demonstrated at the keyboard. Harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 51141 16TH-CENTURY COUNTERPOINT 3 Credit Hours
Two-, three- and four-part vocal counterpoint in 16th century style.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 51151 18TH-CENTURY COUNTERPOINT 3 Credit Hours
Technique of writing counterpoint in 18th-century style especially that of J. S. Bach.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 51211 COMPOSITION 2 Credit Hours
(Repeatable for credit) Study of the materials and techniques of composition culminating in original compositions based upon observable principles of unity and variety.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 51291 SEMINAR IN POST-TONAL AND RECENT MUSIC 3 Credit Hours
(Slashed with MUS 41291 and MUS 71291) Seminar covering selected topics about music theory from the early 20th century to recent decades, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 51321 ORCHESTRATION 3 Credit Hours
Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 51341 JAZZ IMPROVISATION I 1 Credit Hour
(Slashed with MUS 41341) A beginner's introduction to jazz improvisation. Theory and daily playing are enhanced by ear training.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 51342 JAZZ COMPOSING AND ARRANGING 2 Credit Hours
(Slashed with MUS 41342) Composing and arranging for the large and small jazz ensemble.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 51351 JAZZ IMPROVISATION II 1 Credit Hour
(Slashed with MUS 41351) The presentation of a methodical approach to learning standard jazz repertoire.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 51391 SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY 3 Credit Hours
(Slashed with MUS 41391 and MUS 71391) Seminar covering selected topics about music theory from the high Renaissance to late Romantic period, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 52111 AFRICAN MUSIC AND CULTURES 3 Credit Hours
African music as related to social sciences and humanities. Oral traditions. Use of music recordings, tapes, musical instruments. Participation in performance and group work involvement.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52131 MUSIC OF THE UNITED STATES 3 Credit Hours
(Slashed with MUS 42131 and MUS 72131) Historical survey of music in the United States including Native American music, minstrelsy, New England psalmody, jazz and Latin American influences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52141 FOLK MUSIC OF EUROPE AND NORTH AMERICA 3 Credit Hours
(Slashed with MUS 42141) Study of selected music cultures of Eastern and Western Europe, and South, Central and North America.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52151 ASIAN MUSICS 3 Credit Hours
Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52161 HISTORY OF JAZZ 3 Credit Hours
(Slashed with MUS 42161 and MUS 72161) The evolution of jazz from its origin to present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52162 JAZZ STYLES AND ANALYSIS 3 Credit Hours
(Slashed with MUS 42162) An approach to jazz history from the perspective of major artists such as: Louis Armstrong, Duke Ellington, Charlie Parker, Miles Davis and John Coltrane.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52181 POPULAR WORLD MUSIC 3 Credit Hours
(Slashed with MUS 42181 and MUS 72181) A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Graduate level introduces cultural theory related to popular studies. Modern media, especially the Internet, is an integral component of the course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52221 SYMPHONIC LITERATURE 3 Credit Hours
(Slashed with MUS 42221) Historical and stylistic survey of music for large instrumental ensemble.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52227 WIND BAND LITERATURE 3 Credit Hours
(Slashed with MUS 42227 and MUS 72227) Historical survey of wind band literature and the development of the ensemble.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52241 PIANO LITERATURE 3 Credit Hours
(Slashed with MUS 42241) Survey of keyboard and piano literature from the 16th century to the present; study of related forms and styles. Emphasis on performing, listening and analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52242 PIANO LITERATURE II 2 Credit Hours
Survey of character pieces and variations from the 16th century to the present. Emphasis on performing, listening and analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 52251 SONG LITERATURE 3 Credit Hours
A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52261 VOCAL LITERATURE 3 Credit Hours
(Slashed with MUS 42261) The historical development of opera from the 17th century to the present. Detailed analysis of representative works.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52271 CHORAL LITERATURE 3 Credit Hours
(Slashed with MUS 42271 and MUS 72271) Study of Western European choral literature from approximately 1450 to the early 19th century, i.e., Renaissance, Baroque and Classical periods.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52272 CHORAL LITERATURE II 3 Credit Hours
(Slashed with MUS 42272) Continuation of Choral Literature I. A study of Western European and North American choral music of the early 19th century to the present (roughly 1830 to present).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52291 SEMINAR IN MUSIC HISTORY AND LITERATURE 3 Credit Hours
(Slashed with MUS 42291 and MUS 72291)(Repeatable for credit) Selected problems of research for music history and literature. Each student is responsible for presenting papers for discussion.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 52345 ORFF SCHULWERK TEACHER EDUCATION LEVEL I 3 Credit Hours
(Slashed with MUS 42345 and MUS 72345)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level I is designed as an introductory experience to Orff Schulwerk pedagogy and is appropriate for anyone with a music degree.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 52346 ORFF SCHULWERK TEACHER EDUCATION LEVEL II 3 Credit Hours
(Slashed with MUS 42346 and MUS 72346)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level II is designed as an intermediate experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level I at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 52345; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 52347 ORFF SCHULWERK TEACHER EDUCATION LEVEL III 3 Credit Hours
(Slashed with MUS 42347 and MUS 72347)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level III is designed as an advanced experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level II at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 52346; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 52392 STUDENT TEACHING 9 Credit Hours
Provides a 16-week student teaching experience. Off-campus arrangements are handled by the College of Education, Health and Human Services and the School of Music and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE. Training must be presented to the campus office of clinical experience as prerequisite for student teaching.
Prerequisite: Graduate standing; and special approval.
Corequisite: MUS 59525.
Schedule Type: Practical Experience
Contact Hours: 35 other
Grade Mode: Standard Letter

MUS 53241 MARCHING BAND TECHNIQUES AND LITERATURE 1 Credit Hour
Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles, literature and show design.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 1 lab
Grade Mode: Standard Letter

MUS 53242 JAZZ ENSEMBLE TECHNIQUES 2 Credit Hours
Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation, jazz styles and rehearsal techniques taught through laboratory experience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 53243 CONTEMPORARY CHORAL METHODS IN THE SCHOOLS 3 Credit Hours
(Slashed with MUS 43243) Basic techniques and materials for teaching vocal jazz and musical theatre in the schools. Administration, organization and publicity for productions as well as literature for these performing groups will be explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 53245 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 1 Credit Hour
(Slashed with MUS 43245) Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation, jazz styles, and rehearsal techniques taught through laboratory experience. One hour of field observation is required.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 53264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 43264 and MUS 73264) In this course, students participate in small rock ensembles and examine the pedagogy of that type of ensemble. Lectures and demonstrations include topics such as equipment selection, repertoire selection and performance techniques. The course also emphasizes techniques for amplifying rock ensembles, and students learn fundamental techniques for recording rock ensembles.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 53265 METHODS IN JAZZ PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 43265) In this course, students will participate in immersive experiences in various aspects of vocal and instrumental jazz: solo performing, ensemble rehearsal techniques, repertoire selection and sources, jazz theory, improvisation, working with a rhythm section, and sound reinforcement. Students will also participate in a workshop ensemble to experience the art form as a member of a jazz ensemble.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 55121 KENT CHORUS 1 Credit Hour
(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 other
Grade Mode: Standard Letter

MUS 55131 KENT STATE OPERA THEATRE WORKSHOP 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 45131 and MUS 75131) A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 9.5 other
Grade Mode: Standard Letter

MUS 55141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour
(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. An audition in required before registering for this course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4.5 other
Grade Mode: Standard Letter

MUS 55142 CORO CANTARE 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 54142) A chorus of tenor, baritone and bass voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for tenor, baritone and bass voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 55143 CANTIQUE 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 45143) A chorus of soprano and alto voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for soprano and alto voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 55151 KENT STATE UNIVERSITY GOSPEL CHOIR 1 Credit Hour
(Repeatable for credit) Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55212 ORCHESTRA 1 Credit Hour
(Slashed with MUS 45212 and MUS 75212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

MUS 55221 SYMPHONY BAND 1 Credit Hour
(Repeatable for credit) Study and performance of music literature for wind band.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

MUS 55222 MARCHING BAND 1 Credit Hour
(Repeatable for a maximum of 6 credit hours) Study and performance of literature and maneuvers for marching band.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

MUS 55223 WIND ENSEMBLE 1 Credit Hour
(Slashed with MUS 45223 and MUS 75223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. An audition in required before registering for this course.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

MUS 55231 JAZZ ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music literature in the jazz idiom.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 7.5 other
Grade Mode: Standard Letter

MUS 55241 TROMBONE ENSEMBLE 1 Credit Hour
(Repeatable for credit) A thorough study of trombone performance in various size ensembles. Emphasis on original literature from over four centuries.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55251 PERCUSSION ENSEMBLE 1 Credit Hour
(Repeatable for credit) A comprehensive study of percussion performance in various size ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

MUS 55261 BASSOON ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing, interpretation, leadership skills and arranging techniques.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55271 NEW MUSIC ENSEMBLE 1 Credit Hour
(Repeatable for credit)(Slashed with MUS 45271 and MUS 75271) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 55301 AFRICAN ENSEMBLE 1 Credit Hour
(Slashed with MUS 45301 and MUS 75301)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with traditional and popular music and dance from Africa and the African diaspora. Specific traditions studied may include, but are not limited to, Ghana, Guinea, Senegal, Nigeria, Haiti, Cuba, Puerto Rico, Trinidad and Tobago and the United States. This course is performance and community focused.
Prerequisite: Graduate standing.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55302 CARIBBEAN STEELBAND 1 Credit Hour
(Slashed with MUS 45302 and MUS 75302)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with steelband traditions of Trinidad and Tobago. Specific traditions and genres studied may include, but are not limited to, pan, calypso, soca, Latin, bomb tunes, carnival and tamboo-bamboo. This ensemble is performance and community focused.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55311 CHAMBER MUSIC 1,2 Credit Hour
(Repeatable for credit) The study and performance of music for small ensembles.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 55314 WORLD MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 45314 and MUS 75314)(Repeatable for maximum of 8 credit hours) This course teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming, Thai Piphat. Specific traditions studied include areas of specialization of instructors and/or advanced student participants.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55315 ASIAN MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 45315 and MUS 75315)(Repeatable for credit) This course teaches performance practice and cultural etiquette associated with traditional and popular Asian music genres, e.g., Thai, Chinese and Indian classical music.
Prerequisite: Graduate standing.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55321 ACCOMPANYING 1,2 Credit Hour
(Repeatable for credit) Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1-2 other
Grade Mode: Standard Letter

MUS 58241 VOICE PEDAGOGY 2 Credit Hours
Survey of techniques, practices and materials of teaching voice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 58251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours
(Slashed with MUS 48251 and MUS 78251) The principles and techniques of teaching music theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 58257 PEDAGOGY-INSTRUMENTAL 2 Credit Hours
Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice. Offered as needed for strings, woodwinds, brass, percussion, organ or guitar.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 58393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 58610 SINGER'S DICTION 3 Credit Hours
(Slashed with MUS 48610) Foundational training and performance practice with phonetics and lyric diction for English, Italian, German and French vocal repertoire.
Prerequisite: Performance major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 58611 ADVANCED SINGER'S DICTION I 1 Credit Hour
Advanced training and performance practice in phonetics and singing diction for English and Italian vocal repertoire. Emphasis on learning and application of International Phonetic Alphabet symbols.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 58612 ADVANCED SINGER'S DICTION II 1 Credit Hour
Advanced training and performance practice in phonetics and singing diction for German and French vocal repertoire. Emphasis on learning and application of International Phonetic Alphabet symbols.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 59525 SEMINAR FOR STUDENT TEACHING 3 Credit Hours
(Slashed with MUS 49525) A capstone discussion of principles of music teaching and pragmatic understanding of school music settings. Seminar serves as the companion course to Student Teaching for the purpose of self-observation, reflection, and analysis. Development of edTPA and portfolio.
Prerequisite: Graduate standing; and special approval.
Corequisite: MUS 52392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61121 HISTORY OF MUSIC THEORY 3 Credit Hours
(Slashed with MUS 71121) A study of the history of Western music theory from the ancient Greeks to the twentieth century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61131 SCHENKERIAN ANALYSIS 3 Credit Hours
An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61170 MUSIC ANALYSIS 3 Credit Hours
Selected analytical techniques applied to music from the tonal and post-tonal repertoire. Emphasis on the development of harmonic language and overall formal structures.
Prerequisite: Music education major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61173 WORLD MUSIC ANALYSIS 3 Credit Hours
Analysis of world music traditions. Analyze and articulate knowledge regarding musical elements, such as timbre, tuning, improvisation, sound patterns, compositional form, and performance techniques of music genres studied. Development of listening and transcription skills as they relate to world music.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61174 ANALYSIS OF WESTERN ART MUSIC 3 Credit Hours
(Slashed with MUS 71174) Application of standard analytical techniques to Western art music of Baroque, Classical, Romantic and early 20th - century period music. Analytical focus given to study of the standard musical forms and compositional procedures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61181 POST-TONAL THEORY 3 Credit Hours
A study of the analysis, theories, and compositional strategies applied to the music composed after 1900.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61191 SEMINAR IN MUSIC SINCE 1900 3 Credit Hours
(Slashed with MUS 71191) (Repeatable for a maximum of 6 credit hours) Study of analytical techniques and procedures appropriate for the major musical styles of the period. Study of representative compositions through applied analysis. Individual projects in areas of particular interest to the student.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 61211 APPLIED MUSIC - GRADUATE COMPOSITION 2,4 Credit Hours
(Repeatable for credit) Original composition using longer forms of music for diverse media, including multimedia and electronic composition.
Prerequisite: Composition concentration within the Performance major; and graduate standing.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 61331 BAND ARRANGING 2 Credit Hours
Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62171 MUSIC FROM WORLD CULTURES 3 Credit Hours
(Slashed with MUS 82171) Study of selected art, folk and popular music from world cultures with emphasis on listening skills, cultural context, function, organology and technical matters of style.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62411 MUSIC BIBLIOGRAPHY AND RESEARCH METHODS 2 Credit Hours
(Slashed with MUS 82411) Study of techniques of music research and creative musical writing including special projects, reports and readings. This is a hybrid course consisting of both in-class meetings and discussions, as well as online interaction and discussion boards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 62412 INTRODUCTION TO ETHNOMUSICOLOGY 3 Credit Hours
A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription, analysis and bibliography.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62414 ISSUES AND TRENDS IN ETHNOMUSICOLOGY 3 Credit Hours
This course studies various issues and trends in the field of ethnomusicology, from its inception to present. The focus centers on intensive discussion of theories, philosophies and paradigms that have dominated the scrutiny of music over the decades and their application in analysis, fieldwork and lab method.
Prerequisite: MUS 62412; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62511 MUSIC HISTORY I 2 Credit Hours
A study of Western music history from Jewish and medieval Roman practices through Josquin, as well as selected common-practice period applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62521 MUSIC HISTORY II 2 Credit Hours
A study of Western music history from the Reformation and Counter-Reformation through Bach and Handel.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62531 MUSIC HISTORY III 2 Credit Hours
A study of Western music history in the Rococo, Classical, and Romantic periods through Brahms and Wagner.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62541 MUSIC HISTORY IV 2 Credit Hours
A study of Western music from Debussy and Mahler through the major trends and composers of the recent past.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62601 SEMINAR IN MUSICS OF AFRICA 3 Credit Hours
(Slashed with MUS 72601) Specialized investigations of music cultures of Africa.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 62602 SEMINAR IN MUSICS OF THE AMERICAS 3 Credit Hours
Specialized investigation of music cultures of the Americas.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 62603 SEMINAR IN MUSICS OF THE MIDDLE EAST 3 Credit Hours
(Slashed with MUS 72603) Specialized investigation of music cultures of the Middle East.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 62604 SEMINAR IN MUSICS OF EAST ASIA 3 Credit Hours
Specialized investigation of music cultures of East Asia.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 62606 SEMINAR IN MUSICS OF SOUTHEAST ASIA 3 Credit Hours
(Slashed with MUS 72606) Specialized investigation of music cultures in Southeast Asia.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 63099 CAPSTONE PROJECT 4 Credit Hours
(Repeatable for credit) Working under the supervision of a capstone advisor, students demonstrate synthesis of knowledge through the development of curricular project applicable to student's area of teaching.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

MUS 63241 INQUIRY IN MUSIC TEACHING I 3 Credit Hours
Conducting and presenting assessment, evaluation, and research of music teaching and learning with emphasis on quantitative methodologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63242 INQUIRY IN MUSIC TEACHING AND LEARNING II 3 Credit Hours
Conducting and presenting assessment, evaluation and research of music teaching and learning with emphasis on qualitative methodologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63261 ADVANCED STUDIES IN TEACHING CHORAL MUSIC 3 Credit Hours
Development of teaching materials, an annotated choral repertory list and instructional strategies for choral music with emphasis on rehearsal procedures and analytical techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63262 ADVANCED STUDIES IN TEACHING INSTRUMENTAL MUSIC 3 Credit Hours
Development of teaching materials, an annotated instrumental repertory list and instructional strategies for instrumental music with emphasis on rehearsal procedures and analytical techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63263 ADVANCED STUDIES IN TEACHING GENERAL MUSIC 3 Credit Hours
Program development, inclusion, instructional materials and innovative teaching techniques for general music programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63272 LEARNING THEORIES IN MUSIC 3 Credit Hours
Application of current theories of learning to the teaching and learning of music.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63273 PSYCHOLOGY OF MUSIC 3 Credit Hours
The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63274 FOUNDATIONS OF MUSIC EDUCATION 3 Credit Hours
Study of the field of music education from perspectives of sociology, psychology, philosophy, curriculum, history and comparative curricula.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63283 RESEARCH IN MUSIC EDUCATION 3 Credit Hours
Introduction to research techniques in music education including topic selection, data collection analysis and interpretation, and presentation of information in written form.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63284 HISTORY OF MUSIC EDUCATION 3 Credit Hours
Study of historical approaches to music education with emphasis on significant people, places and events that have influenced music teaching and learning music.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63285 PHILOSOPHY OF MUSIC EDUCATION 3 Credit Hours
(Slashed with MUS 73285) Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63286 SOCIOLOGY OF MUSIC EDUCATION 3 Credit Hours
Sociology in Music Education focuses on sociocultural issues in music teaching and learning. Students consider contexts of society, background, race, ethnicity, culture, diversity, and pluralism as applicable in music education situations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 64111 CONDUCTING PROJECTS:CHORAL 2 Credit Hours
(Repeatable for credit) Choral conducting techniques, score analysis, rehearsal procedures and study of musical style.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 64121 CONDUCTING PROJECTS:BAND 2 Credit Hours
(Repeatable for credit) Band conducting techniques, score analysis rehearsal procedures and study of musical style.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 64131 CONDUCTING PROJECTS:ORCHESTRA 2 Credit Hours
(Repeatable for credit) Orchestra conducting techniques, score analysis, rehearsal procedures and study of musical style. The course will focus on score study, advanced conducting technique and preparations for graduate school conducting programs around the county.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66111 APPLIED MUSIC-GRADUATE PIANO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 66191 SEMINAR IN ACCOMPANYING 2 Credit Hours
(Repeatable for credit) Studio performances of standard repertoire for piano and voice or instruments; investigation of other topics relating to the accompanying of the repertoire.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 66311 APPLIED MUSIC-GRADUATE VOICE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66411 APPLIED MUSIC-GRADUATE VIOLIN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66412 APPLIED MUSIC-GRADUATE VIOLA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66413 APPLIED MUSIC-GRADUATE CELLO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66414 APPLIED MUSIC-GRADUATE DOUBLE BASS 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66511 APPLIED MUSIC-GRADUATE FLUTE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66512 APPLIED MUSIC-GRADUATE OBOE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66513 APPLIED MUSIC-GRADUATE CLARINET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66514 APPLIED MUSIC-GRADUATE BASSOON 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66515 APPLIED MUSIC-GRADUATE SAXOPHONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66611 APPLIED MUSIC-GRADUATE TRUMPET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66612 APPLIED MUSIC-GRADUATE HORN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66613 APPLIED MUSIC-GRADUATE TROMBONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66615 APPLIED MUSIC-GRADUATE TUBA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66711 APPLIED MUSIC-GRADUATE PERCUSSION 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66811 APPLIED MUSIC - GRADUATE CONDUCTING 2,4 Credit Hours
(Repeatable for credit) This course is designed to provide graduate students with advanced training in the art of conducting. Building upon foundational conducting techniques, students delve deeper into repertoire analysis, score study, rehearsal strategies and performance practice. Emphasis is placed on developing a refined conducting style, effective communication with musicians and a comprehensive understanding of the unique challenges and opportunities presented by this medium.
Prerequisite: Conducting concentration within the Performance major; and graduate standing.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 67243 TECHNOLOGY FOR MUSIC TEACHING 3 Credit Hours
Study of a variety of music software and hardware; students design and implement a project pertaining to their professional interest.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 68092 GRADUATE INTERNSHIP 2-6 Credit Hours
(Repeatable for credit) The culminating experience for students in the ethnomusicology graduate program. Students pursue an internship with area organizations focused on cultural studies where music is a fundamental component. Entrepreneurial projects associated with ethnomusicological research and activities may substitute for the internship experience. Students submit a substantial written report associated with the internship/project and complete a final oral exam.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68099 CAPSTONE PROJECT 2-6 Credit Hours
(Repeatable for credit) The culminating experience for students in the ethnomusicology graduate program. Students complete a curricular project focusing on world music or a series of papers focusing on performance practices of varying world musics. Students complete a final oral exam covering their research. Students pursuing the performance focus will also complete a lecture recital.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68214 PIANO PEDAGOGY I 2 Credit Hours
Individual and group piano teaching, including teaching methods and the history of piano pedagogy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 68215 PIANO PEDAGOGY II 2 Credit Hours
Individual and group piano teaching. Building an independent studio and career networking.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 68299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: MUS 68199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68598 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for master's level graduate students.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

MUS 68687 RECITAL 1-3 Credit Hours
(Repeatable for credit) The culminating experience required of all performance and conducting majors.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68698 ESSAY 1-3 Credit Hours
(Repeatable for credit)Required of performance majors and music education majors who choose the recital and essay option.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 70295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours
(Slashed with MUS 40295 and MUS 50295)(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.
Prerequisite: Music major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MUS 71091 MUSIC LEARNING THEORY APPROACH 3 Credit Hours
(Slashed with MUS 41091 and MUS 51091)(Repeatable for credit) Through the lens of Gordon's Music Learning Theory, the course is focused on P-6 general music and developing effective strategies for learner-centered growth, musicianship, movement, curriculum, inclusion and assessment. This course is offered in conjunction with the Gordon Institute for Music Learning (GIML) and satisfies requirements for GIML PDLC EGM level 1.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Seminar
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 71121 HISTORY OF MUSIC THEORY 3 Credit Hours
A study of the history of Western music theory from the ancient Greeks to the twentieth century.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71131 SCHENKERIAN ANALYSIS 3 Credit Hours
An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71141 16TH-CENTURY COUNTERPOINT 3 Credit Hours
Two-, three- and four-part vocal counterpoint in 16th century style.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71151 18TH-CENTURY COUNTERPOINT 3 Credit Hours
Technique of writing counterpoint in 18th-century style especially that of J. S. Bach.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71171 ANALYTICAL TECHNIQUES I 2 Credit Hours
The application of standard analytical techniques to works of various style periods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71172 ANALYTICAL TECHNIQUES II 2 Credit Hours
The application of standard analytical techniques to works of various style periods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71181 POST-TONAL THEORY 3 Credit Hours
A study of the analysis, theories, and compositional strategies applied to the music composed after 1900.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71191 SEMINAR IN MUSIC SINCE 1900 3 Credit Hours
(Slashed with MUS 61191) (Repeatable for a maximum of 6 credit hours) Study of analytical techniques and procedures appropriate for the major musical styles of the period. Study of representatives compositions through applied analysis. Individual projects in areas of particular interest to the student.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 71195 SPECIAL PROJECTS IN THEORETICAL STUDIES 3 Credit Hours
(Repeatable for credit) Individual and class investigation into specific methods of analysis and their application to music in various styles.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71291 SEMINAR IN POST-TONAL AND RECENT MUSIC 3 Credit Hours
(Slashed with MUS 41291 and MUS 51291) Seminar covering selected topics about music theory from the early 20th century to recent decades, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 71331 BAND ARRANGING 2 Credit Hours
Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71391 SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY 3 Credit Hours
(Slashed with MUS 41391 and MUS 51391) Seminar covering selected topics about music theory from the high Renaissance to late Romantic period, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72131 MUSIC OF THE UNITED STATES 3 Credit Hours
(Slashed with MUS 42131 and MUS 52131) Historical survey of music in the United States including Native American music, minstrelsy, New England psalmody, jazz and Latin American influences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72161 HISTORY OF JAZZ 3 Credit Hours
(Slashed with MUS 42161 and MUS 52161) The evolution of jazz from its origin to present.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72181 POPULAR WORLD MUSIC 3 Credit Hours
(Slashed with MUS 42181 and MUS 52181) A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Graduate level introduces cultural theory related to popular studies. Modern media, especially the Internet, is an integral component of the course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72227 WIND BAND LITERATURE 3 Credit Hours
(Slashed with MUS 42227 and MUS 52227) Historical survey of wind band literature and the development of the ensemble.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72271 CHORAL LITERATURE 3 Credit Hours
(Slashed with MUS 42271 and MUS 52271) Study of Western European choral literature from approximately 1450 to the early 19th century, i.e., Renaissance, Baroque and Classical periods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72291 SEMINAR IN MUSIC HISTORY AND LITERATURE 3 Credit Hours
(Slashed with MUS 42291 and MUS 52291)(Repeatable for credit) Selected problems of research for music history and literature. Each student is responsible for presenting papers for discussion.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72345 ORFF SCHULWERK TEACHER EDUCATION LEVEL I 3 Credit Hours
(Slashed with MUS 42345 and MUS 52345)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level I is designed as an introductory experience to Orff Schulwerk pedagogy and is appropriate for anyone with a music degree.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 72346 ORFF SCHULWERK TEACHER EDUCATION LEVEL II 3 Credit Hours
(Slashed with MUS 42346 and MUS 52346)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level II is designed as an intermediate experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level I at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 72345; and doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 72347 ORFF SCHULWERK TEACHER EDUCATION LEVEL III 3 Credit Hours
(Slashed with MUS 42347 and MUS 52347)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level III is designed as an advanced experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level II at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 72346; and doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 72412 INTRODUCTION TO ETHNOMUSICOLOGY 3 Credit Hours
A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription analysis and bibliography.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72511 MUSIC HISTORY I 2 Credit Hours
A study of Western music history from Jewish and medieval Roman practices through Josquin, as well as selected common-practice period applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72521 MUSIC HISTORY II 2 Credit Hours
A study of Western music history from the Reformation and Counter-Reformation through Bach and Handel.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72531 MUSIC HISTORY III 2 Credit Hours
A study of Western music history in the Rococo, Classical, and Romantic periods through Brahms and Wagner.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72541 MUSIC HISTORY IV 2 Credit Hours
A study of Western music from Debussy and Mahler through the major trends and composers of the recent past.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72601 SEMINAR IN MUSICS OF AFRICA 3 Credit Hours
(Slashed with MUS 62601) Specialized investigations of music cultures of Africa.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72602 SEMINAR IN MUSICS OF THE AMERICAS 3 Credit Hours
Specialized investigation of music cultures of the Americas.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72603 SEMINAR IN MUSICS OF THE MIDDLE EAST 3 Credit Hours
(Slashed with MUS 62603) Specialized investigation of music cultures of the Middle East.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72604 SEMINAR IN MUSICS OF EAST ASIA 3 Credit Hours
Specialized investigation of music cultures of East Asia.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72606 SEMINAR IN MUSICS OF SOUTHEAST ASIA 3 Credit Hours
(Slashed with MUS 62606) Specialized investigation of music cultures in Southeast Asia.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72691 SEMINAR IN ETHNOMUSICOLOGY 3 Credit Hours
(Repeatable for credit)Specialized topics in ethnomusicology for advanced students.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 73261 ADVANCED STUDIES IN SECONDARY CHORAL AND GENERAL MUSIC 3 Credit Hours
Review curriculum in secondary general music and development of innovative teaching materials and strategies. Analytical techniques, rehearsal procedures, repertory suitable for secondary school choral ensembles.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73262 ADVANCED STUDIES IN INSTRUMENTAL MUSIC 3 Credit Hours
Study of curriculum, method techniques and materials in school instrumental music education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73263 ADVANCED STUDIES IN GENERAL MUSIC FOR CHILDREN 3 Credit Hours
Study of trends in philosophy, curriculum and program development, instructional materials and innovative teaching techniques for elementary school and early childhood general music.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 43264 and MUS 53264) In this course, students participate in small rock ensembles and examine the pedagogy of that type of ensemble. Lectures and demonstrations include topics such as equipment selection, repertoire selection and performance techniques. The course also emphasizes techniques for amplifying rock ensembles, and students learn fundamental techniques for recording rock ensembles.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73272 LEARNING THEORIES IN MUSIC 3 Credit Hours
Application of current theories of learning to the teaching and learning of music.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73273 PSYCHOLOGY OF MUSIC 3 Credit Hours
The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73274 FOUNDATIONS OF MUSIC EDUCATION 3 Credit Hours
Study of the influences on the field of music education, including sociology, psychology, philosophy, curriculum and history.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73283 RESEARCH IN MUSIC EDUCATION 3 Credit Hours
Introduction to research techniques in music education including topic selection, data collection analysis and interpretation and presentation of information in written form.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73284 HISTORY OF MUSIC EDUCATION 3 Credit Hours
Study of historical approaches to music education with emphasis on significant people, places and events that have influenced teaching and learning music.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73285 PHILOSOPHY OF MUSIC EDUCATION 3 Credit Hours
(Slashed with MUS 63285) Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73286 SOCIOLOGY OF MUSIC EDUCATION 3 Credit Hours
Sociology in Music Education focuses on sociocultural issues in music teaching and learning. Students consider contexts of society, background, race, ethnicity, culture, diversity and pluralism as applicable in music education situations.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73295 SPECIAL TOPICS IN MUSIC EDUCATION 3 Credit Hours
(Repeatable for credit)Advanced study in selected topics that will vary from semester to semester depending on needs and interests of students.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 74111 CONDUCTING PROJECTS:CHORAL 2 Credit Hours
(Repeatable for credit) Choral conducting techniques, score analysis, rehearsal procedures and study of musical style.
Prerequisite: Doctoral standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 74121 CONDUCTING PROJECTS:BAND 2 Credit Hours
(Repeatable for credit) Band conducting techniques, score analysis, rehearsal procedures and study of musical style.
Prerequisite: Doctoral standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 74131 CONDUCTING PROJECTS:ORCHESTRA 2 Credit Hours
(Repeatable for credit) Orchestra conducting techniques, score analysis rehearsal procedures and study of musical style.
Prerequisite: Doctoral standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 75131 KENT STATE OPERA THEATRE WORKSHOP 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 43131 and MUS 53131) A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 9.5 other
Grade Mode: Standard Letter

MUS 75141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour
(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. An audition in required before registering for this course.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4.5 other
Grade Mode: Standard Letter

MUS 75212 ORCHESTRA 1 Credit Hour
(Slashed with MUS 45212 and MUS 55212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

MUS 75223 WIND ENSEMBLE 1 Credit Hour
(Slashed with MUS 45223 and MUS 55223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

MUS 75231 JAZZ ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music literature in the jazz idiom.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 7.5 other
Grade Mode: Standard Letter

MUS 75271 NEW MUSIC ENSEMBLE 1 Credit Hour
(Repeatable for credit)(Slashed with MUS 45271 and MUS 55271) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 75301 AFRICAN ENSEMBLE 1 Credit Hour
(Slashed with MUS 45301 and MUS 55301)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with traditional and popular music and dance from Africa and the African diaspora. Specific traditions studied may include, but are not limited to, Ghana, Guinea, Senegal, Nigeria, Haiti, Cuba, Puerto Rico, Trinidad and Tobago and the United States. This course is performance and community focused.
Prerequisite: Doctoral standing.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 75302 CARIBBEAN STEELBAND 1 Credit Hour
(Slashed with MUS 45302 and MUS 55302)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with steelband traditions of Trinidad and Tobago. Specific traditions and genres studied may include, but are not limited to, pan, calypso, soca, Latin, bomb tunes, carnival and tamboo-bamboo. This ensemble is performance and community focused.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 75311 CHAMBER MUSIC 1,2 Credit Hour
(Repeatable for credit) (Slashed with MUS 45311 and MUS 55311) The study and performance of music for small ensembles.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 75314 WORLD MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 45314 and MUS 55314)(Repeatable for maximum of 8 credit hours) This course teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming, Thai Piphat. Specific traditions studied include areas of specialization of instructors and/or advanced student participants.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 75315 ASIAN MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 45315 and MUS 55315)(Repeatable for credit) This course teaches performance practice and cultural etiquette associated with traditional and popular Asian music genres, e.g., Thai, Chinese and Indian classical music.
Prerequisite: Doctoral standing.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 78251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours
(Slashed with MUS 48251 and MUS 58251) The principles and techniques of teaching music theory.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 78393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 81174 ANALYSIS OF WESTERN ART MUSIC 3 Credit Hours
Applicaon of standard analycal techniques to Western art music of Baroque, Classical, Romanc and early 20th -century period music. Analycal focus given to study of the standard musical forms and composional procedures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 81196 INDIVIDUAL INVESTIGATION IN MUSIC THEORY 1-6 Credit Hours
(Repeatable for credit)Intensive research or readings on selected topic beyond normal course coverage.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 81211 COMPOSITION 2,4 Credit Hours
(Repeatable for credit) Refinement of compositional techniques culminating in large-scale works for media of student's choice.
Prerequisite: Doctoral standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 82171 MUSIC FROM WORLD CULTURES 3 Credit Hours
(Slashed with MUS 62171) Study of selected art, folk and popular music from world cultures with emphasis on listening skills, cultural context, function, organology and technical matters of style.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 82291 SEMINAR IN MUSICOLOGY 3 Credit Hours
(Repeatable for credit) Examination into primary sources, treatises and writings in selected areas in Western music. Topics selected range from medieval period to present.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 82396 INDIVIDUAL INVESTIGATION IN MUSICOLOGY 1-6 Credit Hours
(Repeatable for credit)Intensive research or readings on selected topic beyond normal course coverage.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 82411 MUSIC BIBLIOGRAPHY AND RESEARCH METHODS 2 Credit Hours
(Slashed with MUS 62411) Study of techniques of music research and creative musical writing including special projects, reports and readings. This is a hybrid course consisting of both in-class meetings and discussions, as well as online interaction and discussion boards.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 82696 INDIVIDUAL INVESTIGATION IN ETHNOMUSICOLOGY 1-6 Credit Hours
(Repeatable for credit) Intensive research or readings on selected topic beyond normal course coverage.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 83196 INDIVIDUAL INVESTIGATION IN MUSIC EDUCATION 1-6 Credit Hours
(Repeatable for credit)Intensive research or readings on selected topic beyond normal course coverage.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 86001 SEMINAR IN MUSIC EDUCATION I 3 Credit Hours
This courses prepares students for doctoral study in music education. Topics include understanding tasks and skills necessary for PhD study in music education, along with navigating this study at Kent State. Students interact in seminar format as part of a cohort of students pursuing the study of music teaching and learning.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 86002 SEMINAR IN MUSIC EDUCATION II 3 Credit Hours
This doctoral level course is designed to ready students for final activities of PhD study in music education. Goals include preparation for qualifying exams, understanding of the research proposal process, and exploration of advanced research methodologies and protocols necessary to undertake a dissertation and or significant research project.
Prerequisite: CI 87000 and MUS 86001 and RMS 75510; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 88199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Pass candidacy examination; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 88299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: MUS 88199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 88598 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy examinations.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

School of Theatre and Dance

Dance (DAN)

DAN 17001 INTRODUCTION TO MODERN 1 Credit Hour
(Repeatable for credit) Introduction to the foundations of modern dance, which includes correct alignment; use of rotation; exploration of floorwork; and development of flexibility, coordination and strength. Use of terminology and movement developmentally appropriate for the beginner. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17002 MODERN 1 1-3 Credit Hours
(Repeatable for credit) Development of the basics of modern dance technique foundations and improvisation with emphasis on the movement and performing qualities of modern dance.
Prerequisite: DAN 17001.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 17004 INTRODUCTION TO JAZZ 1 Credit Hour
(Repeatable for credit) Introduction to the practice of basic jazz techniques. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17005 JAZZ 1 2 Credit Hours
(Repeatable for credit) Continuation of beginner and advanced beginner jazz dance technique foundations with emphasis on more challenging dance combinations.
Prerequisite: DAN 17004.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 17007 TAP 1 1 Credit Hour
(Repeatable for credit) Basic tap steps and combinations with varying sound intensities and rhythms. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17008 TAP 2 1 Credit Hour
(Repeatable for credit) Continuation of tap dance technique foundations with emphasis on more advanced dance combinations.
Prerequisite: DAN 17007.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17009 TAP 3 1 Credit Hour
(Repeatable for a maximum of 8 credit hours) Advanced tap dance techniques with emphasis on clarity, speed and performance skills.
Prerequisite: DAN 17008.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

DAN 17010 INTRODUCTION TO BALLET 1 Credit Hour
(Repeatable for credit) Introduction to the foundations of ballet, which includes correct alignment, safe external rotation, development of flexibility, coordination and strength, through the use of terminology and movement developmentally appropriate for the beginner. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17011 BALLET 1 1-3 Credit Hours
(Repeatable for credit) Continued study and practice of the foundations of ballet, which include correct alignment, safe external rotation, development of flexibility, coordination, placement, vocabulary and strength through movement for the use of terminology and movement developmentally appropriate for the advanced beginner.
Prerequisite: DAN 17010.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 17012 BALLET 3 1 Credit Hour
(Repeatable for credit) This course presents high intermediate ballet techniques for the serious non-major dance student. Students will apply the principles of body alignment to an ever expanding movement vocabulary. Intricate combinations in adagio, petite and grand allegro and turns will be offered. Focus will be on the strength, flexibility and endurance required to master movements at this more advanced level.
Prerequisite: DAN 17011.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17013 AFRICAN DANCE 1 1 Credit Hour
(Repeatable for credit) Designed to acquaint students with basic elements of African dance. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17016 SWING DANCE 1 1 Credit Hour
(Repeatable for credit) Practice of basic swing dance movements with emphasis on social partnering skills. Open to all students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

DAN 17019 HIP HOP 1 1 Credit Hour
(Repeatable for credit) Introduction to Hip Hop dance including warm-up techniques, movement across the floor and dance combinations. Open to all university students. No previous experience is necessary.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17020 HIP HOP 2 1 Credit Hour
(Repeatable for credit) Hip Hop II is for students with previous experience in hip hop and will explore in greater depth fundamentals, history, technique and personal style.
Prerequisite: DAN 17019.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17049 FUNDAMENTALS OF DANCE AND MOVEMENT 2 Credit Hours
(Repeatable for credit) Introduction to an intensive exploration of dance and movement techniques for majors and non-majors with special emphasis on alignment, body awareness, and movement vocabulary.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

DAN 17055 MEN'S BALLET 1 Credit Hour
(Repeatable for credit) Men's Ballet allows male- identifying students to receive training to enhance their ballet skills. Goals include improving overall placement and ballet technique while focusing on style and movements particular to the male danseur.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17080 MUSICAL THEATRE RUDIMENTS OF JAZZ AND TAP 1 Credit Hour
(Repeatable for credit) This course lays the foundation of beginning musical theatre jazz and tap. The beginning student learns proper vocabulary and alignment for both mediums of dance.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17101 MODERN 1A 1 Credit Hour
(Repeatable for credit) The practice of basic modern dance technique, vocabulary, and movement for the beginner. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17102 MODERN 2A 1 Credit Hour
(Repeatable for credit) Further practice of modern dance vocabulary and movement. This course is geared toward the dance majors or minor seeking to raise their level of ability, knowledge, and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17104 JAZZ 1A 1 Credit Hour
(Repeatable for credit) Introduction to jazz dance vocabulary and movement. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17105 JAZZ 2A 1 Credit Hour
(Repeatable for credit) Further studies in jazz dance vocabulary and movement. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their chosen field of study and professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17110 BALLET 1A 1 Credit Hour
(Repeatable for credit) Introduction to the foundations of ballet placement, vocabulary and movement for the beginner. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17111 BALLET 2A 1 Credit Hour
(Repeatable for credit) Further practice with ballet placement, vocabulary, and movement. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17151 MODERN 3B 3 Credit Hours
(Repeatable for credit) Continued exploration of basic modern dance technique and improvisation begun in DAN 27051. Continued study of dance innovators and their historical significance.
Prerequisite: DAN 27051; and Dance major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 17154 BALLET 3B 3 Credit Hours
(Repeatable for credit) A continuation from Ballet 3A, students learn and perfect Beginning/Intermediate -Intermediate Ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 27050 BALLET 2 1-3 Credit Hours
(Repeatable for credit) Course focuses on ballet placement, vocabulary and movement for the intermediate dancer. Students wishing to advance to a higher level are encouraged to repeat the course.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 27051 MODERN 2 1-3 Credit Hours
(Repeatable for credit) Course focuses on low-intermediate modern dance fundamentals, vocabulary and movement for the low-intermediate dancer.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 27070 JAZZ 2 2 Credit Hours
(Repeatable for credit) Development of low-intermediate jazz dance skills.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 27074 DANCE COMPOSITION I 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Movement exploration and improvisation including developing the body as an instrument of expression.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

DAN 27076 DANCE AS AN ART FORM (DIVG) (KFA) 3 Credit Hours
Survey of the various types, styles and functions of dance with emphasis on understanding dance as an art form and an expression of culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

DAN 27080 MUSICAL THEATRE JAZZ AND TAP I 2 Credit Hours
This course serves the advanced beginner to intermediate level musical theatre dance student. Students will build on the foundation of Rudiments of Jazz and Tap. They will learn more difficult concepts and steps and work to apply those concepts and steps in their dancing.
Prerequisite: DAN 17080; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 27150 KINESIOLOGY FOR DANCERS 3 Credit Hours
This course presents the basic anatomy and kinesiology of the key body joints of the spine, shoulder, hip, knee, ankle and foot. The fundamental bone structure, muscles and ligaments of these joints are discussed as they relate to movement capacity, mechanics and injury risk. This basic knowledge of these joints is combined with movement analysis to help students better understand alignment and selected dance vocabulary.
Prerequisite: NUTR 23511; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 27171 MODERN 4B 3 Credit Hours
(Repeatable for credit) Continuation of intermediate level dance styles with emphasis on complex movement phrases.
Prerequisite: DAN 37051; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 27173 BALLET 4B 3 Credit Hours
(Repeatable for credit) Students learn and perfect intermediate to advanced-intermediate ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 28010 DANCE ACCOMPANIMENT LABORATORY I 2 Credit Hours
(Course is repeatable for a maximum of 4 credit hours) Students will be introduced to the techniques and strategies of modern dance and ballet technique class accompaniment. Emphasis is placed on supervised student accompaniment and acquiring familiarity with dance class protocols, procedures, and the accompanist-instructor relationship. Course meets concurrently with one of the professional-level modern dance or ballet technique classes offered by the Dance Division.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

DAN 37010 DANCE PEDAGOGY 3 Credit Hours
This course brings together the theory and practice of dance pedagogy as applied in various settings including preschools; elementary, middle and high schools; private studios; universities; and professional settings. Students learn to develop lesson, unit and yearly learning and assessment plans. Specific developmental attributes and age-appropriate approaches as well as best business practices for teachers and studio owners are also addressed.
Prerequisite: Dance or Education major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 37020 TEACHING DANCE AND MOVEMENT FOR NONTRADITIONAL POPULATIONS 3 Credit Hours
This course focuses on the theories, content and pedagogical methods for teaching dance and movement for nontraditional populations. Nontraditional populations include individuals with physical, sensory and/or developmental/intellectual disabilities; persons living with chronic illness; and senior adults. Further, the course addresses best practices for integrated classes that are inclusive of individuals with and without disabilities. Finally, the course addresses related topics including aspects of civil rights, disability culture and aesthetics and professional applications beyond instruction.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 37035 DANCE COMPOSITION II 2 Credit Hours
Basic principles of dance composition with attention to design, thematic material, structure, form and small groups.
Prerequisite: DAN 27074; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

DAN 37051 MODERN 3 1-3 Credit Hours
(Repeatable for credit) Course focuses on modern dance principles and techniques, vocabulary and movement for the intermediate dancer. Students wishing to advance to a higher level are encouraged to repeat the course.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 37069 BALLET 3 1-3 Credit Hours
(Repeatable for credit) Course focuses on ballet placement, vocabulary and movement for the intermediate-advanced dancer. Students wishing to advance to a higher level are encouraged to repeat the course.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 37070 DANCE COMPOSITION III 2 Credit Hours
(Repeatable for a maximum of 8 credit hours) Development of individual movement style through improvisational studies and movement manipulation exercises of structure and form resulting in a substantial solo modern dance work.
Prerequisite: DAN 37035; and special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 37072 DANCE AND TECHNOLOGY 2 Credit Hours
This course introduces students to new technologies as resources for creative expression, performance and documentation of dance. Students will learn a brief history of screen dance, techniques for archiving dance, shooting and editing video with dance as the subject and approaches to interactive performance. Students will gain a basic understanding of how new media interacts with current practice in dance creation, production, education and research.
Prerequisite: Dance major or minor; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture
Grade Mode: Standard Letter

DAN 37080 MUSICAL THEATRE JAZZ AND TAP II 2 Credit Hours
This class is a continuation of the building of jazz and tap skills, as the steps increase in difficulty. Course will incorporate sequencing of transition steps which smoothly connect one set of steps to another.
Prerequisite: DAN 27080; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 37081 MUSICAL THEATRE JAZZ AND TAP III 2 Credit Hours
Continuation of Jazz and Tap techniques building on skills suitable for and required in professional audition circumstances. Course will assist advanced student to fine tune jazz and tap skills for auditions.
Prerequisite: DAN 37080; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 37092 KENT DANCE ENSEMBLE (ELR) 1 Credit Hour
(Repeatable for credit) Participation in rehearsal, preparation and performance of public dance concerts in an established dance ensemble.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

DAN 37100 POINTE 1 1 Credit Hour
(Repeatable for credit) Allows intermediate to advanced ballet dancers with some previous experience dancing on pointe to continue their pointe studies. The class explores ballet vocabulary and repertory at the barre, center, and travelling across the space, specifically in pointe shoes. Dancers must demonstrate sufficient strength, alignment, flexibility and prior ballet training required to safely dance on pointe prior to receiving approval for participation in a university pointe class.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 37148 JAZZ 3 2 Credit Hours
(Repeatable for credit) Development of intermediate to advanced-intermediate jazz dance skills.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 37150 POINTE 2 1 Credit Hour
(Repeatable for credit) Allows advanced ballet dancers with previous experience dancing on pointe to continue studies to include classical variations. The class explores ballet vocabulary and repertory at the barre, center and traveling across space, specifically in pointe shoes. Dancers are expected to have achieved the strength, alignment, flexibility and prior ballet training in order for a faculty member to approve participation in a university pointe class. Dancers taking Pointe 2 are expected to have reached an advanced level of ballet technique.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 37168 MODERN 5B 3 Credit Hours
(Repeatable for credit) Continuation of advanced modern dance technique.
Prerequisite: DAN 47051; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 37169 BALLET 5B 3 Credit Hours
(Repeatable for credit) A continuation from Ballet 5A, students learn advanced ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 37170 DANCE COMPOSITION IV 1 Credit Hour
Exploration of advanced composition skills in preparation for the B.F.A. senior choreography project and future choreographic endeavors.
Prerequisite: DAN 37070; and special approval.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

DAN 37192 DANCE PRACTICUM - PERFORMANCE (ELR) 1 Credit Hour
(Repeatable for credit) This course provides students practical experience related to the creation of a dance performance. Students complete work as assigned by a faculty member, contributing as directed, cast or assigned. The faculty mentor provides instruction, specifies expectations and assesses the student's contribution to the related performance.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

DAN 37292 DANCE PRACTICUM - TEACHING (ELR) 1 Credit Hour
(Repeatable for credit) This course provides students practical experience related to teaching dance. Students complete work as assigned under the tutelage of a dance faculty member. While teaching theory is addressed, this course provides mentored practical experience observing, demonstrating and student teaching other dance students as assigned. Additional homework related to teacher preparation and planning completes student coursework.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

DAN 37310 MUSIC FOR DANCERS 3 Credit Hours
Students will build theoretical, analytical and performance skills in music specific to the needs of dancers, dance teachers and choreographers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 37392 DANCE PRACTICUM - CHOREOGRAPHY (ELR) 1 Credit Hour
(Repeatable for credit) This course provides students practical experience creating dance under the mentorship of a faculty advisor for a specific performance, as assigned. Students receive specific instructions and feedback as they are guided to complete a work of choreography that is then presented for an audience. Faculty mentors for this course have extensive teaching and choreography experience.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

DAN 38001 APPLIED SKILLS FOR DANCE ACCOMPANIMENT 2 Credit Hours
(Course is repeatable for a maximum of 8 credit hours) Private applied music instruction in performance skills necessary to accompany a modern dance or ballet class. Emphasis is placed on hand drum and frame drum technique, keyboard repertoire, and keyboard improvisation skills.
Prerequisite: DAN 28010.
Schedule Type: Private Lesson
Contact Hours: 1.5 other
Grade Mode: Standard Letter

DAN 47050 BALLET 4 1-3 Credit Hours
(Repeatable for credit) Course focuses on ballet alignment, physicality, vocabulary and movement for the advanced-intermediate dancer.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 47051 MODERN 4 1-3 Credit Hours
(Repeatable for credit) Course focuses on advanced modern dance techniques, vocabulary and movement for the advanced dancer.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 47054 MODERN 6A 3 Credit Hours
(Repeatable for credit) Advanced technique integrating previously learned modern dance techniques and developing advanced movement phrasing.
Prerequisite: DAN 37168 and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 47060 PROFESSIONAL ASPECTS IN DANCE 2 Credit Hours
Development of pragmatic skills for entrance into professional dance careers. Emphasis on resume writing, preparation for auditions and economic survival.
Prerequisite: DAN 37148; and special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 47063 DANCE HISTORY I 3 Credit Hours
History of dance from antiquity to 1900.
Prerequisite: Dance major; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

DAN 47069 BALLET 6A 3 Credit Hours
(Repeatable for credit) Pre-professional Ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 47070 JAZZ 4 2 Credit Hours
(Repeatable for credit) Jazz style for students with advanced dance technique.
Prerequisite: DAN 37148.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 47080 MUSICAL THEATRE DANCE STYLES I 2 Credit Hours
Advanced Jazz and Tap class for Musical Theatre students to develop the stylization skills of musical theatre dance and performance. Students will work on stylization of movement by learning three different production numbers. One of a vernacular style, one classic style, and one involving partnering.
Prerequisite: DAN 37081; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 47081 MUSICAL THEATRE DANCE STYLES II 2 Credit Hours
Students will work to prepare a professional dance reel (a video record of their skills and accomplishments). The student's skills will include various media (jazz, tap, ballet, gymnastics, partnering, etc.) and styles (Charleston, Swing, Waltz, dances of the 50s, 60s, 70s, etc.). Students will be ready to submit dance reels, which they will prepare in the course of the semester. Provisions will be made for those students who do not desire or require a dance reel.
Prerequisite: DAN 47080; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 47095 SPECIAL TOPICS IN DANCE 1-3 Credit Hours
(Repeatable for a total of 24 hours) offered when resources permit a topic different from existing courses. Topic to be announced when scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

DAN 47154 MODERN 6B 3 Credit Hours
(Repeatable for credit) Continuation of advanced technique integrating previously learned modern dance techniques and developing advanced movement phrasing with special emphasis on performing quality and movement range.
Prerequisite: DAN 47054; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 47156 DANCE PRODUCTION 3 Credit Hours
Study of elements involved in planning and implementing a concert. Experiential work in technical and management components.
Prerequisite: Dance major; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 47163 DANCE HISTORY II (WIC) 3 Credit Hours
History of the development of concert and theatrical dance forms from 1900 to present day.
Prerequisite: DAN 47063; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

DAN 47169 BALLET 6B 3 Credit Hours
(Repeatable for credit) A continuation from Ballet 6A, students learn pre-professional Ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 47170 JAZZ STYLES IV 2 Credit Hours
(Repeatable for credit) Continuation of DAN 47070.
Prerequisite: DAN 47070; and special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 47192 INTERNSHIP IN DANCE (ELR) 1 Credit Hour
(Repeatable for credit)Supervised dance apprenticeship in an approved educational setting.
Prerequisite: Dance major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

DAN 47196 INDIVIDUAL INVESTIGATION IN DANCE 1-3 Credit Hours
(Repeatable for credit) Individual projects for dance majors.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

DAN 47199 BACHELOR OF ARTS CAPSTONE (ELR) 1-3 Credit Hours
(Repeatable for credit) The capstone project represents a culminating event for the Dance Studies student. Capstone projects can be taken in the junior or senior year and are identified in consultation with a faculty advisor. Honors students may combine the capstone project with an Honors thesis.
Prerequisite: Junior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

DAN 47299 BACHELOR OF FINE ARTS CAPSTONE (ELR) 1-3 Credit Hours
(Repeatable for credit) The B.F.A. Capstone Project consists of choreography and/or performance with full production values in an approved setting, along with the written and/or digital record of the production and creative process. It should be of significant scope and substance that will demonstrate excellence in the conscious artistry acquired through formal training. The project is generally accomplished within the last semester of the student's program. Students must present choreography in a Student Dance Festival prior to the presentation of their Senior Projects Concert (BFA Senior Dance Concert), i.e., during sophomore or junior year.
Prerequisite: DAN 37170; and sophomore standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

Kent Blossom Theatre (KBT)

KBT 22092 PRACTICUM I:DESIGN/TECHNOLOGY (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Practical experience in theatre production under faculty supervision. Available for lower division students only.
Prerequisite: Freshman and sophomore standing only.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 22192 PRACTICUM I:PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for a total of 12 hours) practical experience in theatre performance under faculty supervision. Available for lower division students only. Repeatable for a total of 12 hours.
Prerequisite: Freshman and sophomore standing only.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 41096 INDIVIDUAL STUDY:THEATRE 1-3 Credit Hours
(Repeatable for a total of 12 hours) Selected research topics in theatre.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

KBT 41992 THEATRE PRODUCTION INTERNSHIP (ELR) 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours)Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 42092 PRACTICUM II: DESIGN/TECHNOLOGY (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre production under faculty supervision. Available for upper division students only.
Prerequisite: Junior and senior standing only.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 42192 PRACTICUM II:PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre performance under faculty supervision. Available for upper division students only.
Prerequisite: Junior and senior standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 60199 M.F.A.. THESIS 3 Credit Hours
(Repeatable for credit) Students must register for course during the semester of their MFA thesis project.
Prerequisite: Graduate standing; and special approval of adviser.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KBT 60992 PROFESSIONAL THEATRE INTERNSHIP I 1,6 Credit Hour
(Cross-listed with THEA 60992) (Repeatable once for credit) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre Company.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 61096 INDIVIDUAL INVESTIGATION:THEATRE AND DRAMA 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

KBT 61992 PROFESSIONAL THEATRE INTERNSHIP II 1,6 Credit Hour
Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 62092 PRACTICUM: DESIGN/TECHNOLOGY 3 Credit Hours
(Repeatable for credit)Practical experience for the graduate student in theatre design and technology under faculty supervision.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 62192 PRACTICUM:PERFORMANCE 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Cross-listed with THEA 62192)Practical experience for the graduate student in theatre performance under faculty supervision.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 62992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours)Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.
Prerequisite: Graduate standing; and special approval of adviser.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 72992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours)Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.
Prerequisite: Doctoral standing; and special approval of adviser.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

Theatre (THEA)

THEA 11000 THE ART OF THE THEATRE (DIVG) (KFA) 3 Credit Hours
Using the life-centered nature of theatre as a medium of analysis, this course is designed to develop critically engaged audience members who are aware of the impact, significance and historical relevance of the interconnection between culture and theatre performance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

THEA 11002 MUSICAL THEATRE PERFORMANCE I 3 Credit Hours
Course focuses on the foundational skills of acting and singing in musical theatre. Students study and practice beginning-level character development, vocal technique, song interpretation and audition skill in a supportive environment.
Prerequisite: Musical Theatre major.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 11100 MAKING THEATRE: CULTURE AND PRACTICE 2 Credit Hours
Overview of theatre practices through creative experiential learning. The focus and course content combines practical and cultural experiences and culminates with a performance event that provides a solid foundation in the artistic process and an identity for the first-year theatre student.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

THEA 11303 THE ART OF ACTING 3 Credit Hours
General introduction to acting: the actor's instrument, sensory awareness, personal and group response, objectives and tactics. Basic scene work.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

THEA 11521 GRAPHICS FOR THE THEATRE 3 Credit Hours
An introduction to computer software currently used by professional theatre designers and technicians. These applications include image processing software, computer-aided design software and 3D visualization software.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 11722 FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND 2 Credit Hours
An introduction to professional theatre production principles and practices in the areas of scenery, stagecraft and sound.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: CTAG Performing Arts, TAG Arts and Humanities

THEA 11723 FUNDAMENTALS OF PRODUCTION LABORATORY I: SCENERY 1 Credit Hour
Practice in theatre production techniques in the area of scenery.
Prerequisite: Special approval.
Corequisite: THEA 11722.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

THEA 11724 FUNDAMENTALS OF PRODUCTION LABORATORY II: PROPS AND SCENIC ART 1 Credit Hour
Practice in theatre production techniques in the area of properties and scenic art.
Prerequisite: Special approval.
Corequisite: THEA 11722.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Performing Arts, TAG Arts and Humanities

THEA 11725 FUNDAMENTALS OF THEATRE DESIGN AND PRODUCTION 3 Credit Hours
Course introduces students to the fundamental concepts and practices of theatre design and production. Students explore various areas of design, including scenic, costume, lighting and sound design, as well as the process of bringing these elements together in a production. Through lectures, hands-on projects and collaboration, students gain an understanding of how design enhances storytelling in theatre and how technical elements contribute to the overall production.
Prerequisite: Major or minor in School of Theatre and Dance.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 11732 FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS 2 Credit Hours
An introduction to professional theatre production principles and practices in the areas of costumes, lighting and projections.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: CTAG Performing Arts

THEA 11733 FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES 1 Credit Hour
Practice in theatre production techniques in the area of costumes.
Prerequisite: Special approval.
Corequisite: THEA 11732.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

THEA 11734 FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS 1 Credit Hour
Practice in theatre production techniques in the area of lighting, sound and projections.
Prerequisite: Special approval.
Corequisite: THEA 11732.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

THEA 14092 BACHELOR OF FINE ARTS INTRODUCTORY PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1 Credit Hour
(Repeatable for credit) Practical experience in theatre and dance production. Foundational training for work in various production contexts.
Prerequisite: Theatre Design, Technology and Production major.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 20102 MUSIC THEORY FOR MUSICAL THEATRE I 2 Credit Hours
Study the basic principles and applications of music theory as it may apply to the work of a professional singing actor. It will begin by gaining a thorough understanding of the rudiments of music and progress to studying the objective and subjective aspects of music and its structure, principally pertaining to the world of musical theatre. The course is intended to establish fundamental concepts to be further explored in THEA 20103.
Prerequisite: Musical Theatre major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

THEA 20103 MUSIC THEORY FOR MUSICAL THEATRE II 2 Credit Hours
Study the basic principles and applications of music theory as it may apply to the work of a professional singing actor. Course focuses on the interpretation of music for musical theater and serves as a continuation of the material presented in THEA 20102.
Prerequisite: Musical Theatre major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

THEA 20204 EAR TRAINING AND SIGHT SINGING FOR MUSICAL THEATRE I 1 Credit Hour
Course concentrates on the foundational aural skills needed in the study and application of music theory and performance. Students focus on basic interval, harmonic and rhythmic identification. Course also addresses beginning-level melodic dictation and sight singing of beginning-level diatonic melodies.
Prerequisite: Musical Theatre major.
Pre/corequisite: THEA 20102.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

THEA 20205 EAR TRAINING AND SIGHT SINGING FOR MUSICAL THEATRE II 1 Credit Hour
Course continues the development of skills begun in THEA 20204. Students focus on identifying and singing intermediate to advanced diatonic and chromatic melodies and harmonies.
Prerequisite: THEA 20204.
Pre/corequisite: THEA 20103.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

THEA 21002 MUSICAL THEATRE PERFORMANCE II 3 Credit Hours
Course builds on the foundational skills studied in THEA 11002. Emphasis is placed on music analysis and interpretation as it pertains to musical theatre song. Students engage in preliminary scene study and analysis.
Prerequisite: THEA 11002.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 21016 MAKEUP FOR STAGE AND SCREEN 3 Credit Hours
Study of stage, TV and photographic makeup techniques and materials. Four lecture demonstration laboratory hours per week; special projects as assigned.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21095 SPECIAL TOPICS IN THEATRE 1-3 Credit Hours
(Repeatable for credit) Offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

THEA 21111 SCRIPT ANALYSIS 3 Credit Hours
Principles, theories and techniques of play script analysis for theatrical production.
Prerequisite: THEA 11100; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

THEA 21303 ACTING PROCESS 3 Credit Hours
Fundamentals of naturalistic acting and interaction; development of spontaneity, believability and a sense of truth; game playing and basic stage technique.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 lecture, 1 lab
Grade Mode: Standard Letter

THEA 21306 MUSICAL THEATRE PERFORMANCE I 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Performance-oriented class that will focus on techniques and styles of performance in musical theatre and cabaret from Gilbert and Sullivan to present.
Prerequisite: Musical theatre major.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 21501 SOPHOMORE PORTFOLIO REVIEW 1 Credit Hour
Preparation and review of a portfolio of work, judged by the design technology faculty at the beginning of the spring semester. Student must pass to remain in the BFA design technology program.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 21521 THEATRICAL DRAFTING 3 Credit Hours
Drafting techniques for all design and technology students. Includes plans, elevations, sections, detailed drawings light plots.
Prerequisite: THEA 11521 and THEA 11722 and THEA 11723; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21522 LIGHTING DESIGN 3 Credit Hours
Exploration of the tools of the lighting designer applied to design choices; frequent paper design projects.
Prerequisite: THEA 11732 and THEA 11734; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21523 COSTUME TECHNOLOGY 3 Credit Hours
Study of the basics of costume construction, pattern drafting, tailoring and millinery for costumes in the performing arts. A variety of historical periods and styles are covered. Students create portfolio-quality projects.
Prerequisite: THEA 11732; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21524 COSTUME DESIGN 3 Credit Hours
Theory and practice of costume design. Emphasis on play text analysis, formation of concepts, use of design elements and principles, period styles.
Prerequisite: THEA 11732; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21526 BASIC COSTUME CONSTRUCTION 3 Credit Hours
Course is designed to provide the student with a more advanced set of sewing skills in preparation for stitcher positions in the entertainment field. Prepares students for more advanced costume technology courses.
Prerequisite: THEA 11732; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21528 SOUND AND PROJECTION DESIGN AND TECHNOLOGY 3 Credit Hours
Studies in sound design and projection design with emphasis on practical application and specific processes related to designing for theatre and dance.
Prerequisite: THEA 11521; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21621 SCENE PAINTING 3 Credit Hours
Techniques of scene painting; emphasis on a variety of techniques through practical projects.
Prerequisite: THEA 11722 and THEA 11724; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21622 SCENE DESIGN 3 Credit Hours
Theory and practice of scene design; emphasis on script analysis, formation of concepts, use of design elements and principles in period styles and genres.
Prerequisite: THEA 11722 and THEA 11723; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21700 MOVEMENT I 3 Credit Hours
Beginning exploration of technical skills emphasizing the physical components of expressive action through integration of breath, text and body conditioning.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 21736 STAGE MANAGEMENT 3 Credit Hours
Introduction to the skills and techniques necessary to stage manage a theatrical production. Focus on the production process, preparing for and running rehearsals and performances, paperwork and communication skills.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21800 VOICE I 3 Credit Hours
Breathing, physical alignment, sound and text explorations designed to develop relaxed, free and fully connected voice production for the actor. Proper use and care of the voice.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 22092 PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Practical experience in theatre production under faculty supervision. Available for lower-division students only. Required of all theatre majors.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement, TAG Arts and Humanities

THEA 22192 PRACTICUM I: PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for credit) Practical experience in theatre performance under faculty supervision. Available for lower-division students only.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement, TAG Arts and Humanities

THEA 22292 PRACTICUM I:THEATRE MANAGEMENT (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Practical experience in theatre management under faculty supervision.
Prerequisite: Freshmen or sophomore only; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

THEA 23092 BACHELOR OF FINE ARTS SOPHOMORE PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1 Credit Hour
(Repeatable for credit) Practical experience at the sophomore level in theatre and dance production.
Prerequisite: Theatre design, technology and production major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 31030 GLOBAL THEATRE HISTORIES 3 Credit Hours
Theatre creates meaning within the particular historical and cultural contexts in which it is created and received. In this course, students are introduced to several key moments, figures, productions and styles; they explore how primary and secondary research can be used to understand those works within the contexts of their creation and illuminate their ongoing relevance to contemporary artists and audiences today. Students practice engaging with the conventions of various cultural performances. They develop skills in finding, reading, interpreting, summarizing and applying cultural and historical research to understand and explain performances.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31110 HISTORY OF THEATRE AND DRAMA I 3 Credit Hours
Theatre history and drama in Europe from antiquity through the renaissance.
Prerequisite: THEA 21111; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31111 HISTORY OF THEATRE AND DRAMA II 3 Credit Hours
Theatre history and drama in Europe and the United States from 1700 to the present.
Prerequisite: THEA 21111; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31200 APPLIED VOICE FOR MUSICAL THEATRE 2 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors or musical theatre majors. Individual study. An audition is required. This course is not part of the ODHE Transfer Assurance Guides.
Prerequisite: Musical Theatre major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 1.5 other
Grade Mode: Standard Letter

THEA 31303 CHARACTER AND SCENE STUDY I 3 Credit Hours
The development of character in the realistic scene.
Prerequisite: THEA 21303; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31304 CHARACTER AND SCENE STUDY II 3 Credit Hours
Further character and scene exploration; spontaneity and creative choice making.
Prerequisite: THEA 31303; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31401 DIRECTING 3 Credit Hours
Theoretical and practical work in the process of play direction; the director's mission; play analysis and design collaboration; the rehearsal process.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31526 FLAT PATTERNING FOR THEATRE 3 Credit Hours
The course is designed to provide the student with a basic set of skills in flat patterning techniques, using the sloper (a basic fitted pattern from which patterns for different styles can be developed) and individualizing patterns to meet the actors costume needs. This class is also preparatory for more advanced costume technology courses.
Prerequisite: THEA 21526.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31701 MOVEMENT II 3 Credit Hours
Development of movement exploration and improvisation skills which focus on physical relationships in performance and utilize the components of energy, space and time.
Prerequisite: THEA 11303 or THEA 21306; and special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 31801 VOICE II 3 Credit Hours
Continuation of THEA 21800. Explorations involve various texts and incorporation of voice principles at a more detailed level.
Prerequisite: THEA 21800; and special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 32000 BACHELOR OF FINE ARTS PORTFOLIO REVIEW 1 Credit Hour
(Repeatable for credit) Review of a portfolio of theatre and related work, and a review of the student's academic progress and coursework judged by the design/technology faculty at the beginning of the spring semester. Student must pass to remain in the B.F.A. degree.
Prerequisite: Theatre Design, Production and Technology major; and junior standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 32002 MUSICAL THEATRE PERFORMANCE III 3 Credit Hours
Course focuses on the performance aspects of musical theatre while emphasizing the professional practices necessary for a successful career in the industry. Students continue to develop their acting and vocal skills while exploring the business side of musical theatre, including audition techniques, marketing and networking.
Prerequisite: THEA 21002.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 33092 BACHELOR OF FINE ARTS JUNIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 2 Credit Hours
(Repeatable for credit) Practical experience at the junior level in theatre and dance production.
Prerequisite: Theatre design, technology and production major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 34092 BACHELOR OF FINE ARTS ADVANCED PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1-2 Credit Hours
(Repeatable for credit) Practical experience at an advanced level in theatre and dance production.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 40091 VARIABLE TOPICS SEMINAR: DEVISING THEATRE 3 Credit Hours
(Slashed with THEA 50091) A devised theatre event is work that has emerged and been generated by a group of people working in collaboration. Devising Theatre explores the processes of creating original performances defined and determined by its makers. Process and product originate from stimuli other than traditional play scripts. Students learn specialist techniques by developing solo and group performance pieces. Alternative modes of making theatre performances are considered.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 41010 THEATRE AND SOCIAL CHANGE 3 Credit Hours
(Slashed with THEA 51010) This course interweaves the history, theory, practice and play text development in the field of theatre and social change.
Prerequisite: THEA 11000 or THEA 11100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41026 PLAYWRITING (WIC) 3 Credit Hours
(Repeatable for a total of 6 credit hours)(Slashed with THEA 51026) Principles underlying playwriting for the contemporary theatre; analysis of short play form.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

THEA 41027 ADVANCED PLAYWRITING 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51026) Application of principles of playwriting to the longer play and to variations from traditional realism; play analysis and composition.
Prerequisite: THEA 41026; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41089 INTERNATIONAL EXPERIENCE: THEATRE AND SOCIAL CHANGE IN CZECHIA (DIVG) (ELR) 3 Credit Hours
(Slashed with THEA 51089)(Repeatable for credit) Using a combination of in-depth research and direct learning experiences, this course explores the intersection between theatre and socio-political change through the example of Czechoslovakia's history from the 1968 Prague Spring to the Velvet Revolution of 1989/90 and on through today's concerns of Western late-stage capitalism. Students study both historical and contemporary texts, as well as view productions while on a study abroad program.
Prerequisite: ENG 21011.
Schedule Type: International Experience, Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

THEA 41095 SPECIAL TOPICS IN THEATRE 1-3 Credit Hours
(Repeatable for credit)(Slashed with THEA 51095) Course offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

THEA 41096 INDEPENDENT STUDY IN THEATRE 1-3 Credit Hours
(repeatable for a total of 6 hours) selected research topics in theatre; to be elected only after all coursework in study area completed.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

THEA 41113 THEATRE IN A MULTICULTURAL AMERICA (DIVD) 3 Credit Hours
(Slashed with THEA 51113) A study of theatre and drama in the Native American, Hispanic-American, African-American and Asian-American communities in the United States from 1980 to the present.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

THEA 41115 LGBTQ THEATRE (DIVD) 3 Credit Hours
(Slashed with THEA 51115) Studies of various theatrical representations of Lesbian, Gay, Bisexual, Transgender and Queer people as seen through the frameworks of history, gender theory, identity, politics, psychology, law and justice.
Prerequisite: Junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

THEA 41130 THEATRE AND DRAMA IN AMERICA 3 Credit Hours
(Slashed with THEA 51130) The history of theatre and drama in America from their beginnings to the present.
Prerequisite: THEA 21111; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41140 AMERICAN MUSICAL THEATRE HISTORY (WIC) 3 Credit Hours
Comprehensively examines the history of American musical theater and incorporates the exploration of musical literature in production and performance.
Prerequisite: Theatre major; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

THEA 41191 VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY 3 Credit Hours
(Repeatable for credit)(Slashed with THEA 51191) Seminar in theatre history and literature providing an in-depth focus on selected topics such as: African-American theatre, women in theatre, politics and theatre, theatre in a multicultural society, costume history on stage and screen.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 41301 ACTING FOR THE CAMERA I 3 Credit Hours
(Slashed with THEA 51301) Introduction to the specific techniques used in film acting. The course provides students with the necessary tools to make the transition from stage acting to camera acting.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41302 ACTING FOR THE CAMERA II 3 Credit Hours
(Slashed with THEA 51302) Further development on the specific techniques used in film acting. The course continues to assist students in making the transition from stage acting to camera acting.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41304 ACTING II-SCENE STUDY-MODERN AMERICAN REALISM 3 Credit Hours
(Slashed with THEA 51304) The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 41305 PROFESSIONAL ASPECTS: PERFORMANCE 3 Credit Hours
(Slashed with THEA 51305) A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered: pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41306 PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY 3 Credit Hours
A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects. Use of computers as a resource and tool emphasized.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41307 MUSICAL THEATRE PERFORMANCE II 3 Credit Hours
Repeatable for credit. Advanced work in musical theatre performance techniques for junior- and senior-level students. Course content includes selecting appropriate musical theatre audition material and developing contrasting selections from the musical theatre repertory. Preparation for musical theatre auditions is included.
Prerequisite: THEA 21306; and special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 41308 MUSICAL THEATRE AUDITION 3 Credit Hours
(Repeatable for credit) Course explore the various genres and styles of American musical theatre songs with specific emphasis on finding practical audition repertoire for each student. Performance and research are the primary activities in the class.
Prerequisite: Major or minor in School of Theatre and Dance.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 41401 ADVANCED DIRECTING 3 Credit Hours
(Slashed with THEA 51401) Advanced work in directing for the theatre. Topics include the director as creative/interpretative artist and the director and the actor; students direct individual projects.
Prerequisite: THEA 11303 and THEA 31401; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41420 THEATRICAL DRAFTING II 3 Credit Hours
(Slashed with THEA 51420) Advanced 2D and 3D drafting techniques for technical directors and theatre designers. Representation of scenery through drafting using current AutoCAD software.
Prerequisite: THEA 21521.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41430 ADVANCED CONSTRUCTION THEORY 3 Credit Hours
(Slashed with THEA 51430) The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop, including reliably predicting the performance of untraditional, unusual or unfamiliar structures and use of mathematical models, formulas, and representative diagrams.
Prerequisite: THEA 11722 and THEA 41560; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41440 SHOP MANAGEMENT 3 Credit Hours
(Slashed with THEA 51440) Study of resource management, both human and non-human, for professional and academic shops. Topics include scheduling, budgeting, health and safety, interactions with other theatre workers and leadership development.
Prerequisite: THEA 11722; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41499 MUSICAL THEATRE SHOWCASE (ELR) 2 Credit Hours
(Repeatable for credit) (Slashed with THEA 51499) Development, promotion, and presentation of a Musical Theatre showcase for industry casting personnel in New York City. Audition required prior to registration for this course.
Prerequisite: Senior standing; and special approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

THEA 41501 SENIOR PORTFOLIO REVIEW 1 Credit Hour
Review of a portfolio of theatre and related work, and a review of the student's academic progress coursework and professional potential judged by the design technology faculty at the end of the fall semester. Student must pass to remain eligible for the bfa design technology degree.
Prerequisite: Theatre design, production and technology major; senior standing and; special approval.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 41521 ADVANCED LIGHTING TECHNOLOGY I 3 Credit Hours
(Slashed with THEA 51521) Advanced study of the technologies used in lighting design; conventional and intelligent fixtures, electricity, projection techniques and special effects.
Prerequisite: THEA 11732 and THEA 11734; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41522 DESIGN STUDIO: LIGHTING 3 Credit Hours
(Slashed with THEA 51522) Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems.
Prerequisite: THEA 21522; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41523 SOUND DESIGN AND TECHNOLOGY I 3 Credit Hours
(Slashed with THEA 51523) Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment mixing consoles amplifiers speakers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41524 DESIGN STUDIO: COSTUME 3 Credit Hours
(Slashed with THEA 51524) Advanced study in costume design. Genres styles in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer shop/personnel and designer director.
Prerequisite: THEA 21524; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41525 PROPS AND CRAFTS 3 Credit Hours
(Slashed with THEA 51525) Examination of the processes related to the creation and procurement of scenic and costume props.
Prerequisite: THEA 11722 and THEA 11732; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41526 ADVANCED LIGHTING TECHNOLOGY II 3 Credit Hours
(Slashed with THEA 51526) Course focuses on the practice of intelligent lighting programming and the technology of intelligent lighting fixtures.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41527 SOUND DESIGN AND TECHNOLOGY II 3 Credit Hours
(Slashed with THEA 51527) Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored.
Prerequisite: THEA 41523; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41528 THEATRE SOUND REINFORCEMENT 3 Credit Hours
(Slashed with THEA 51528) Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real time digital processing of audio.
Prerequisite: THEA 41523; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41529 ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN 3 Credit Hours
(Slashed with THEA 51529) Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required.
Prerequisite: Junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41531 THEATRICAL RIGGING 3 Credit Hours
(Slashed with THEA 51531) Course is designed to teach students the principles of stage rigging, knot tying and counterweight rigging systems used in theatrical and other live entertainment situations. Students examine the process involved in overhead applications for the theatre industry. Students learn the proper method to design and rig in theatrical environments through the explanation of tools, equipment, hardware and safety practices.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41540 DRAPING FOR THE THEATRE I 3 Credit Hours
(Slashed with THEA 51540) The course is designed to provide an introduction to the basics of draping and building flat patterning techniques from this knowledge as they apply to theatre.
Prerequisite: THEA 31526; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41541 DRAPING FOR THE THEATRE II 3 Credit Hours
(Slashed with THEA 51541) Course is designed to build upon skills developed in Draping for the Theatre I. Emphasis is placed on learning to drape over period undergarments such as corsetry, panniers, bustles, etc.
Prerequisite: THEA 31526; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41560 THEATRE FABRICATION TECHNOLOGY 3 Credit Hours
(Slashed with THEA 51560) History of technical production practice, materials theory and application in scenic construction technology.
Prerequisite: THEA 21521; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41562 ADVANCED PROJECTION DESIGN 3 Credit Hours
(Slashed with THEA 51562) Studies in projection design, digital media, and related technologies. Advanced software applications will be explored.
Prerequisite: THEA 11521; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41620 HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) 3 Credit Hours
Students explore the way in which theatre designers approach period style in their own creative work.
Prerequisite: Theatre design, technology and production major; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

THEA 41621 PRESENTATION MEDIA 3 Credit Hours
(Slashed with THEA 51621) Advanced process techniques in rendering, model building and design presentation for the scenic costume and lighting designer in traditional and new media.
Prerequisite: THEA 11722 and THEA 11732 and THEA 21521; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41622 DESIGN STUDIO: SCENERY 3 Credit Hours
(Slashed with THEA 51622) Advanced study in scenic design. Explores genres styles performance spaces, including practical considerations.
Prerequisite: THEA 21622; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41625 HISTORY OF COSTUME AND TEXTILES FOR THEATRE 3 Credit Hours
(Slashed with THEA 51625) This class is designed to give a global overview of the history of period costume and textiles from 1500 to 1990, a span of time that is most often used in theatrical production and broken down into commonly regarded “time periods” in the history of costume as well as looking at clothing history across various continents and regions. Emphasis is placed on how, as theatre practitioners, we can recreate the silhouettes of these periods and regions in ways that make sense to our audience using the textiles available today. We will also look at the social and cultural influences of clothing, recognition of historic silhouette, and focus how to utilize various tools needed to accurately research any given period or region.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41702 MOVEMENT AND DANCE FOR ACTORS 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51702) Designed to acquaint actors with theatre dance techniques and choreographic styles by concentrating on vernacular dances used throughout musical theatre. Course combines basic ballet, jazz and tap terminology.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 41703 STAGE COMBAT 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51703) Introductory course focuses on creating the illusion of violence for the stage and screen. Basic instruction is given in unarmed and armed stage combat. Emphasis is on the development of technique; the process of the work; and the performance, with a focus on safety, accuracy and the fundamental techniques recognized by the Society of American Fight Directors (SAFD). Basic techniques are incorporated into short scenes to provide experience performing fights in production.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 41726 THEATRE MANAGEMENT 3 Credit Hours
Principles and practices of managing theatrical-producing organizations. Problems of finance, personnel, policy, program building and public relations. Production participation as assigned.
Prerequisite: Junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41734 COSTUME PRODUCTION MANAGEMENT 3 Credit Hours
(Slashed with THEA 51734) The course is designed to provide an introduction to managerial processes as they apply to costume production; the role of a shop manager, the roles of a wardrobe supervisor and wardrobe crew, and the running of a smooth technical rehearsal and production.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41736 PRODUCTION AND STAGE MANAGEMENT 3 Credit Hours
(Slashed with THEA 51736) Advanced investigation of the methodology used in stage managing professional theatrical productions and production management processes. Focus on production processes for various theatre, dance, opera and entertainment genres.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41804 MILLINERY TECHNIQUES 3 Credit Hours
(Slashed with THEA 51804) This course is designed to provide an introduction to the basics of millinery techniques. Emphasis is placed on essential millinery principles, quality millinery supplies and finishing techniques, as well as the design and patterning of a variety of hat wear.
Prerequisite: Junior standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

THEA 41808 ACTING STYLES I: SHAKESPEARE 3 Credit Hours
(Slashed with THEA 51808) The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies and scenes from Shakespeare.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 41999 CAPSTONE PROJECT (ELR) 1-3 Credit Hours
The capstone project represents a culminating event for the student. Capstone projects can be undertaken in the junior or senior year and are identified in consultation with a faculty advisor. Honor students may combine the capstone project with an Honors thesis.
Prerequisite: Junior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 42002 MUSICAL THEATRE PERFORMANCE IV 3 Credit Hours
Course focuses on synthesizing the multiple aspects of musical theatre performance. Solo and ensemble work are emphasized with special concentration on scene work specific to musical theatre. This course is the culmination of the four-course sequence in musical theatre performance.
Prerequisite: THEA 32002.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 42040 SHOP MANAGEMENT 3 Credit Hours
(Slashed with THEA 52040) Course provides an in-depth exploration of the principles and practices of shop management specific to scenic and costume design, integrating foundational concepts of managerial science. Students learn about production processes, resource management, budgeting, organizational behavior, safety practices/OSHA requirements and strategic planning. The course emphasizes both theoretical frameworks and practical applications, preparing students for successful careers in theatrical production and management.
Prerequisite: THEA 11725 and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 42062 PRESENTATION MEDIA 3 Credit Hours
(Slashed with THEA 52062) Course explores the fundamental skills in drawing, painting, drafting and model building specifically designed for theatre production. Students develop techniques in visualizing and constructing set and costume designs. Emphasis is placed on artistic interpretation, spatial understanding and technical skills needed to communicate design concepts effectively for stage productions.
Prerequisite: THEA 11725 and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 42092 PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Practical experience in theatre production under faculty supervision.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 42101 DYE TECHNIQUES AND FABRIC MODIFICATION 3 Credit Hours
(Slashed with THEA 52101) This course is designed to enable the artisan to identify fiber content and determine appropriate mediums for fabric dyeing. The course explores various techniques such as shabori, stamping, rubbing, and surface lifting in order to create special effects on fabrics. A collection of dye fabric samples and information will be created so student may use as a reference book.
Prerequisite: Junior standing; and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

THEA 42150 3D CHARACTERS: FOAM FABRICATION AND FIGURE FINISHING TECHNIQUES 3 Credit Hours
(Slashed with THEA 52150) This course provides knowledge and application of the different types of plastics/foams used for 3D character building. This course is designed to enable the artisan to work with a range of materials when building atypical pieces for costumes or props.
Prerequisite: Junior standing; and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

THEA 42192 PRACTICUM II: PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for credit) Advanced practical experience in theatre performance under faculty supervision. Available for upper division students only.
Prerequisite: Junior or senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 42292 PRACTICUM II: THEATRE MANAGEMENT (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre management under faculty/staff supervision. Available for upper division students only.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

THEA 42999 PORTHOUSE PERFORMANCE EXPERIENCE (ELR) 3 Credit Hours
(Repeatable for credit) Intensive advanced training in practical aspects of production at Porthouse Theatre. Periodic seminars, research, written work and laboratory sessions in preparation for performance in a theatre company.
Prerequisite: Major or minor in the School of Theatre and Dance.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 50091 VARIABLE TOPIC SEMINAR: DEVISING THEATRE 3 Credit Hours
A devised theatre event is work that has emerged and been generated by a group of people working in collaboration. Devising Theatre explores the processes of creating original performances defined and determined by its makers. Process and product originate from stimuli other than traditional play scripts. Students learn specialist techniques by developing solo and group performance pieces. Alternative modes of making theatre performances are considered.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 51010 THEATRE AND SOCIAL CHANGE 3 Credit Hours
(Slashed with THEA 41010) This course interweaves the history, theory, practice and play text development in the field of theatre and social change.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51026 PLAYWRITING 3 Credit Hours
(Repeatable once for credit) Principles underlying playwriting for the contemporary theatre; analysis of short play form.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51027 ADVANCED PLAYWRITING 3 Credit Hours
(Repeatable once for credit)(Slashed with THEA 41027) Application of principles of playwriting to the longer play and to variations from traditional realism;play analysis and composition.
Prerequisite: THEA 51026; and graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51089 INTERNATIONAL EXPERIENCE: THEATRE AND SOCIAL CHANGE IN CZECHIA 3 Credit Hours
(Slashed with THEA 41089)(Repeatable for credit) Using a combination of in-depth research and direct learning experiences, this course explores the intersection between theatre and socio-political change through the example of Czechoslovakia's history from the 1968 Prague Spring to the Velvet Revolution of 1989/90 and on through today's concerns of Western late-stage capitalism. Students study both historical and contemporary texts, as well as view productions while on a study abroad program.
Prerequisite: Graduate standing.
Schedule Type: International Experience, Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

THEA 51095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Offered irregularly when unusual resources permit a topic.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

THEA 51113 THEATRE IN A MULTICULTURAL AMERICA 3 Credit Hours
A study of theatre and drama in the Native American, Hispanic American, African-American, and Asian American communities in the United States from 1980 to the present.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51115 LGBTQ THEATRE 3 Credit Hours
Studies of various theatrical representations of Lesbian, Gay, Bisexual, Transgender and Queer people as seen through the frameworks of history, gender theory, identity, politics, psychology, law, and justice.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51130 THEATRE AND DRAMA IN AMERICA 3 Credit Hours
The history of theatre and drama in America from their beginnings to the present.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51191 VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY 3 Credit Hours
(Repeatable for credit)Seminar focuses on selected topics in these areas, for example performance art, performance theory or theatre in a multicultural society.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 51301 ACTING FOR THE CAMERA I 3 Credit Hours
An introduction to the specific techniques used in film acting. The course provides students with the necessary tools to make the transition from stage acting to camera acting.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51302 ACTING FOR THE CAMERA II 3 Credit Hours
Further development on the specific techniques used in film acting as applied to the Graduate Actor. The course continues to assist in making the transition from stage acting to camera acting.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51303 ACTING I FOUNDATIONS/STANISLAVSKI AND MICHAEL CHEKHOV 3 Credit Hours
The Stanislavski and Michael Chekhov Techniques: A thorough exploration of Stanislavski's Method of Psycho-Physical Action, and the Michael Chekhov technique including atmosphere, psychological gesture, and qualities of movement.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 51304 ACTING II: SCENE STUDY-MODERN AMERICAN REALISM 3 Credit Hours
The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 51305 PROFESSIONAL ASPECTS: PERFORMANCE 3 Credit Hours
(Slashed with THEA 41305) A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51308 MUSICAL THEATRE AUDITION 2 Credit Hours
(Repeatable for a maximum of 4 credit hours) Explore the various genres and styles of American musical theatre songs with specific emphasis on finding practical audition repertoire for each student. Performance and research will be the primary activities in the class.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

THEA 51401 ADVANCED DIRECTING 3 Credit Hours
Advanced work in directing for the theatre. Topics include director as creative interpretative artist, the director and the actor. Students direct individual projects.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51420 THEATRICAL DRAFTING II 3 Credit Hours
(Slashed with THEA 41420) Advanced 2D and 3D drafting techniques for technical directors and theatre designers. Representation of scenery through drafting using current AutoCAD software.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51430 ADVANCED CONSTRUCTION THEORY 3 Credit Hours
(Slashed with THEA 41430) The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop, including reliably predicting the performance of untraditional, unusual or unfamiliar structures and use of mathematical models, formulas, and representative diagrams. Graduate Students will cover steel construction, and cables.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51440 SHOP MANAGEMENT 3 Credit Hours
(Slashed with THEA 41440) Study of resource management, both human and non-human, for professional and academic shops. Topics include scheduling, budgeting, health and safety, interactions with other theatre workers and leadership development.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51499 MUSICAL THEATRE SHOWCASE 2 Credit Hours
(Repeatable for credit) (Slashed with THEA 41499) Development, promotion and presentation of a Musical Theatre showcase for industry casting personnel in New York City. Audition required prior to registration for this course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 51521 ADVANCED LIGHTING TECHNOLOGY I 3 Credit Hours
Advanced study of the technologies used in lighting design; conventional and intelligent fixtures, electricity, projection techniques and special effects.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51522 DESIGN STUDIO: LIGHTING 3 Credit Hours
Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51523 SOUND DESIGN AND TECHNOLOGY I 3 Credit Hours
Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment, mixing consoles, amplifiers, speakers.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51524 DESIGN STUDIO: COSTUME 3 Credit Hours
Advanced study in costume design. Genres, styles, in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer/shop personnel and designer/ director.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51525 PROPS AND CRAFTS 3 Credit Hours
Examination of the processes related to the creation and procurement of scenic and costume props.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51526 ADVANCED LIGHTING TECHNOLOGY II 3 Credit Hours
(Slashed with THEA 41526) Course focuses both on the practice of intelligent lighting programming and the technology of intelligent lighting fixtures.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51527 SOUND AND DESIGN TECHNOLOGY II 3 Credit Hours
(Slashed with THEA 41527) Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored.
Prerequisite: THEA 51523; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51528 THEATRE SOUND REINFORCEMENT 3 Credit Hours
Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real time digital processing of audio. rerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51529 ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN 3 Credit Hours
Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51531 THEATRICAL RIGGING 3 Credit Hours
(Slashed with THEA 41531) Course is designed to teach students the principles of stage rigging, knot tying and counterweight rigging systems used in theatrical and other live entertainment situations. Students examine the process involved in overhead applications for the theatre industry. Students learn the proper method to design and rig in theatrical environments through the explanation of tools, equipment, hardware and safety practices.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51540 DRAPING FOR THE THEATRE I 3 Credit Hours
(Slashed with THEA 41540) The course is designed to provide an introduction to the basics of draping and building flat patterning techniques from this knowledge as they apply to theatre. More in-depth content for this graduate level course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51541 DRAPING FOR THE THEATRE II 3 Credit Hours
(Slashed with THEA 41541) Course is designed to build upon skills developed in Draping for the Theatre I. Emphasis is placed on learning to drape over period undergarments such as corsetry, panniers, bustles, etc.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51560 THEATRE FABRICATION TECHNOLOGY 3 Credit Hours
History of technical production practice, materials theory and application in scenic construction technology.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51562 ADVANCED PROJECTION DESIGN 3 Credit Hours
(Slashed with THEA 41562) Studies in projection design, digital media, and related technologies. Advanced software applications will be explored.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51621 PRESENTATION MEDIA 3 Credit Hours
Advanced process techniques in rendering, model building and design presentation for the scenic costume and lighting designer in traditional and new media.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51622 DESIGN STUDIO:SCENERY 3 Credit Hours
Advanced study in scenic design. Explores genres, styles, performance spaces, including practical considerations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51625 HISTORY OF COSTUME AND TEXTILES FOR THEATRE 3 Credit Hours
(Slashed with THEA 41625) This class is designed to give a global overview of the history of period costume and textiles from 1500 to 1990, a span of time that is most often used in theatrical production and broken down into commonly regarded “time periods” in the history of costume as well as looking at clothing history across various continents and regions. Emphasis is placed on how, as theatre practitioners, we can recreate the silhouettes of these periods and regions in ways that make sense to our audience using the textiles available today. We will also look at the social and cultural influences of clothing, recognition of historic silhouette, and focus how to utilize various tools needed to accurately research any given period or region.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51701 MOVEMENT, FORM AND SPACE I-THE ACTOR'S PHYSICAL INSTRUMENT 3 Credit Hours
Development of technical skills emphasizing the physical components of expressive action through integration of breath, voice and body conditioning.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 51702 MOVEMENT AND DANCE FOR ACTORS 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Designed to acquaint actors with theatre dance techniques and choreographic styles by concentrating on vernacular dances used throughout musical theatre. Course combines basic ballet, jazz, and tap terminology.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 51703 STAGE COMBAT 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with THEA 41703) Introductory course focuses on creating the illusion of violence for the stage and screen. Basic instruction is given in unarmed and armed stage combat. Emphasis is on the development of technique; the process of the work; and the performance, with a focus on safety, accuracy and the fundamental techniques recognized by the Society of American Fight Directors (SAFD). Basic techniques are incorporated into short scenes to provide experience performing fights in production.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 51734 COSTUME PRODUCTION MANAGEMENT 3 Credit Hours
(Slashed with THEA 41734) The course is designed to provide an introduction to managerial processes as they apply to costumes, the role of a shop manager, the role of a wardrobe supervisor and the wardrobe crew, the running of a smooth technical rehearsal and production.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51736 PRODUCTION AND STAGE MANAGEMENT 3 Credit Hours
Advanced investigation of the methodology used in stage managing professional theatrical productions and production management processes. Focus on production processes for various theatre, dance, opera and entertainment genres.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51803 VOICE AND SPEECH I 3 Credit Hours
Practical study and application of voice and speech production for the actor into various styles of verse and prose, including heightened language and text.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 51804 MILLINERY TECHNIQUES 3 Credit Hours
(Slashed with THEA 41804) This course is designed to provide an introduction to the basics of millinery techniques. Emphasis is placed on essential millinery principles, quality millinery supplies and finishing techniques, as well as the design and patterning of a variety of hat wear.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

THEA 51808 ACTING STYLES I: SHAKESPEARE 3 Credit Hours
The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies, and scenes from Shakespeare.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 52040 SHOP MANAGEMENT 3 Credit Hours
(Slashed with THEA 42040) Course provides an in-depth exploration of the principles and practices of shop management specific to scenic and costume design, integrating foundational concepts of managerial science. Students learn about production processes, resource management, budgeting, organizational behavior, safety practices/OSHA requirements and strategic planning. The course emphasizes both theoretical frameworks and practical applications, preparing students for successful careers in theatrical production and management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 52062 PRESENTATION MEDIA 3 Credit Hours
(Slashed with THEA 42062) Course explores the fundamental skills in drawing, painting, drafting and model building specifically designed for theatre production. Students develop techniques in visualizing and constructing set and costume designs. Emphasis is placed on artistic interpretation, spatial understanding and technical skills needed to communicate design concepts effectively for stage productions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 52101 DYE TECHNIQUES AND FABRIC MODIFICATION 3 Credit Hours
(Slashed with THEA 42101) This course is designed to enable the artisan to identify fiber content and determine appropriate mediums for fabric dyeing. The course explores various techniques such as shabori, stamping, rubbing, and surface lifting in order to create special effects on fabrics. A collection of dye fabric samples and information will be created so student may use as a reference book.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

THEA 52150 THREE-DIMENSIONAL CHARACTERS: FOAM FABRICATION AND FIGURE FINISHING TECHNIQUES 3 Credit Hours
(Slashed with THEA 42150) This course provides knowledge and application of the different types of plastics/foams used for 3D character building. This course is designed to enable the artisan to work with a range of materials when building atypical pieces for costumes or props.
Prerequisite: Graduate Standing and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

THEA 60196 INDIVIDUAL INVESTIGATION: HISTORIC TEXTILES 3 Credit Hours
(Repeatable for credit)Identification and analysis of textile fabric as the reflection of culture.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 60199 M.F.A. THESIS PROJECT 3 Credit Hours
(Repeatable for credit)Students must register for course during the semester of their M.F.A. thesis project.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 60992 PROFESSIONAL THEATRE INTERNSHIP I 3,6 Credit Hours
(Repeatable once) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre Company.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 61000 INTRODUCTION TO GRADUATE STUDY IN THEATRE 3 Credit Hours
Orientation to bibliography and research in the field of theatre with emphasis on application of research to performance.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61051 GRADUATE PORTFOLIO REVIEW 1 Credit Hour
(Repeatable for credit) This review offers students the opportunity to develop and present a professional-level portfolio and related documentation that shows their development as graduate students in theatre design and technology. Students meet with their faculty advisors to develop their portfolios and receive verbal and written responses to their work. This feedback provides students a benchmark for how they will be assessed in the design technology industry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 61094 COLLEGE TEACHING IN THEATRE 3 Credit Hours
(Repeatable for credit) Strategies for teaching, issues on implications of pedagogical practice and responsibilities of academic leadership.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Offered irregularly when unusual resources permit a topic different from existing courses. Topic are announced when scheduled.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

THEA 61096 INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

THEA 61098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's-level graduate students. Credits may be applied toward meeting degree requirements with school approval.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 61303 ACTING III SCENE STUDY: NATURALISM AND ABSURD 3 Credit Hours
In-depth scene study in the genres of Naturalism and Absurd theatre. Exploration of the works of Chekhov, Strindberg, Beckett and others.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 61305 ACTING STYLES II: GREEK AND COMEDY OF MANNERS 3 Credit Hours
Application of acting, movement and speech techniques to these specific genres. Focus on style and physicalization using Greek and English Restoration playwrights as well as Molière, Wilde and others.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61306 PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY 3 Credit Hours
A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects. Emphasis is placed on developing skills and materials for finding employment and the use of marketing communication techniques.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61309 MASTER OF FINE ARTS COMPREHENSIVE PROJECT IN ACTING 1-3 Credit Hours
Intensive work in the development of the practical aspects of production; includes performance or exhibition of work, documentation of that work in a format appropriate for area and project, and an exit interview.
Prerequisite: THEA 61000; and graduate standing; and special approval of instructor.
Schedule Type: Laboratory
Contact Hours: 3-9 lab
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 61310 MASTER OF FINE ARTS DESIGN AND TECHNOLOGY CULMINATING PROJECT 3 Credit Hours
An intensive experience in the development of design and/or technical aspects of a theatrical production; the scope of work may include but not necessarily be limited to research, drawings and drafting, renderings and associated digital image, video or audio files. Documentation (appropriate for the area and project) is presented at an exit interview.
Prerequisite: THEA 61000; and graduate standing; and special approval of instructor.
Schedule Type: Individual Investigation, Masters Thesis, Studio
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 61420 COLLABORATION IN PRODUCTION STUDIO 1 Credit Hour
Knowledge acquisition and the development of skills to create resolve and present well-reasoned theatrical design. Students will employ the design and production process, observation of deadlines, and collaboration with other designers and technical directors, as a structure to elevate production.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

THEA 61525 MILLINERY AND 3-D CHARACTERS 3 Credit Hours
Advanced studies of techniques of millinery construction and 3D character construction with an emphasis on current practice in the industry.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61528 DESIGN PROCESS AND COLLABORATION 3 Credit Hours
Introduction to the design process and collaboration in a theatrical production. Students have the opportunity to analyze best practices, strategies and the strengths and challenges of designers.
Prerequisite: THEA 61000; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61531 PERIOD STYLE FOR THEATRE DESIGNERS 3 Credit Hours
An exploration of the relationship of period style, historical context and the designer's artistic choices in contemporary interpretations of period plays.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61623 DIGITAL RENDERING THEATRE DESIGN 3 Credit Hours
Explores a variety of digital rendering methods for artistic 2D and 3D graphics visualization of theatrical design concepts.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61701 MOVEMENT, FORM AND SPACE II-NEUTRAL AND CHARACTER MASK 3 Credit Hours
Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through performance in masks.
Prerequisite: THEA 51701; and graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 61703 MOVEMENT, FORM AND SPACE III 3 Credit Hours
Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through period movement. This course allows actors to effectively perform movement and styles from specific historical periods and genres.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

THEA 61803 VOICE AND SPEECH II 3 Credit Hours
Ongoing study and application of voice and speech technique into various styles of text, and the analysis and development of accents for performance and presentation.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 61804 VOICE AND SPEECH III 3 Credit Hours
Advanced study and application of voice and speech techniques, focusing on the extremes of vocal demands.
Prerequisite: THEA 51803; and graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 61806 SINGING FOR THE ACTOR 1 Credit Hour
A comprehensive study of performance techniques and repertoire appropriate to the singing actor.
Prerequisite: THEA 51801; and graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

THEA 61992 PROFESSIONAL THEATRE INTERNSHIP II 3,6 Credit Hours
(Repeatable for credit)Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a professional theatre company.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62000 INTRODUCTION TO GRADUATE STUDY IN THEATRE 3 Credit Hours
Course focuses on developing the academic and professional skills needed for success in a rigorous graduate program. Emphasis is placed on critical thinking, research methods, theatrical production processes, dramaturgy and effective teaching strategies. Students explore approaches to theatrical design, production and pedagogy, while also learning how to critically analyze dramatic works within a historical, cultural and theoretical context.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 62092 PRACTICUM: DESIGN/TECHNOLOGY 3 Credit Hours
(Repeatable for credit) Practical experience for the graduate student in theatre design and technology under faculty supervision.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62192 PRACTICUM: PERFORMANCE 3 Credit Hours
(Repeatable for credit) (Cross-listed with KBT 62192) Practical experience for the graduate student in theatre performance under faculty supervision.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62292 PRACTICUM:THEATRE MANAGEMENT 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Practical experience for the graduate student in theatre management under faculty/staff supervision.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62392 PRACTICUM: PERORMANCE PEDAGOGY 1 Credit Hour
(Repeatable for credit) Advanced practical experience in theatre performance pedagogy under faculty supervision.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 62892 THEATRE PRACTICUM 1 Credit Hour
(Repeatable twice for credit) Practical experience for the graduate student in cocurricular theatre activities, under faculty supervision.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours)(Slashed with THEA 72992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble.
Prerequisite: Graduate standing; and special approval of advisor.
Schedule Type: Practical Experience
Contact Hours: 1-6 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 63001 SCENIC DESIGN I: FOUNDATIONS IN SINGLE SET SCENIC DESIGN 2 Credit Hours
Introduction to the methodology and practice of professional scene design. Application of knowledge made through a series of design projects. Script Analysis, perspective rendering and model-making techniques will be emphasized for single set productions.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63002 SCENIC DESIGN II: ADVANCED SINGLE SET SCENIC DESIGN 2 Credit Hours
Inquiry to the methodology and practice of professional scene design. Application of knowledge will be through a series of complex design projects. Script analysis, drafting, perspective rendering and more advanced model-making techniques will be emphasized.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63003 SCENIC DESIGN III: DESIGNING BEYOND DRAMA 2 Credit Hours
An advanced approach to professional scene design as it applies to opera, musical theatre, and the entertainment industry. Advanced design communication techniques will be applied through a series of design projects. Textual analysis, conceptual unit/multi-set productions, storyboarding, and advanced visual communication/presentation techniques will be emphasized.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special permission.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63004 SCENIC DESIGN IV: ADVANCED MULTI-SETTING DESIGN 2 Credit Hours
An advanced approach to professional scene design as it applies to opera, musical theatre, and the entertainment industry in non-traditional spaces. Advanced design communication techniques will be applied through a series of design projects. Analysis, conceptual unit/multi-set productions, storyboarding, and advanced visual communication/presentation techniques will be emphasized.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special permission.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63005 SCENIC DESIGN V: ENTERTAINMENT AND PRODUCTION DESIGN 2 Credit Hours
An advanced approach to professional scene design as it applies to industrials,showrooms and the entertainment industry. Knowledge of techniques will be applied through a series of design projects, analysis, conceptual approaches, storyboarding, and advanced visual communication/presentation techniques. This course will focus on refinement of the theoretical and practical skills of the professional scenic designer.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63006 SCENIC DESIGN VI: NON-TRADITIONAL AND SITE-SPECIFIC PERFORMANCES 2 Credit Hours
An advanced approach to professional scene design as it applies to industrials and the entertainment industry. Site specific design communication techniques will be applied through a series of design projects. Analysis, conceptual approaches, storyboarding, and advanced visual communication/presentation techniques will be emphasized.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63092 PRODUCTION COLLABORATION: SCENIC DESIGN 1-2 Credit Hours
(Repeatable for credit) Practical preparation, design and production work as applied to Scenic design within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in scene design. Repeatable to a maximum of 8 credits.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

THEA 63192 MENTORSHIP IN PERFORMANCE 3 Credit Hours
(Repeatable for a total of 6 credit hours) Development of advanced skills and abilities to mentor student performers in aspects of the profession, including professional behavior, understanding of the business and the actor's creative process. Major work done while participating in rehearsal and performance of main stage productions or assisting in THEA 41305/ THEA 51305. Students may take the course alongside THEA 62192.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 64001 THEATRE TECHNICAL DIRECTION I: FOUNDATIONS I 2 Credit Hours
Investigation of publications in the field of technical theatre and their relevance to examining the technical manager as planner, artist, creative thinker positive leader and colleague.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64002 THEATRE TECHNICAL DIRECTION II: FOUNDATIONS II 2 Credit Hours
Continued Investigation of publications in the field of technical theatre and their relevance to examining the technical manager as planner, artist, creative thinker positive leader and colleague.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64003 THEATRE TECHNICAL DIRECTION III: TOURING PRODUCTIONS 2 Credit Hours
Course covers the logistics of transporting a theatrical production, the concepts and needs of touring productions, and different construction techniques needed for disassembly and quick reassembly.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64004 THEATRE TECHNICAL DIRECTION IV: EDUCATIONAL THEATRE 2 Credit Hours
Examination of the roles of the technical director in academia, including the evolution of and current state of technical theatre education. Course will explore the work and presentations of the USITT Education Commission.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64005 THEATRE TECHNICAL DIRECTION V: MECHANICS AND AUTOMATION 2 Credit Hours
Examination of the techniques and applications of automated scenery and stage mechanics.
Prerequisite: Graduate Standing in the School of Theatre & Dance and special permission.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64006 THEATRE TECHNICAL DIRECTION VI: HEALTH AND SAFETY 2 Credit Hours
Focus on the health & safety concerns of live performance, including the organizations OSHA, NFPS, ANSI, Red Cross, their protocols and their relation to theatre.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64092 PRODUCTION COLLABORATION: TECHNICAL DIRECTION 1-2 Credit Hours
(Repeatable for credit) Practical preparation, design and production work as applied to technical direction within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in technical direction. Repeatable to a maximum of 8 credits.
Prerequisite: Graduate standing in the School of Theatre and Dance.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

THEA 64192 MENTORSHIP AT PORTHOUSE 3 Credit Hours
(Repeatable for a total of 6 credit hours) Development of advanced skills and abilities to mentor student performers in aspects of the profession, including professional behavior, understanding of the business and the actor's creative process. Major work done while participating in rehearsal of Porthouse Theatre productions. Students may take the course alongside THEA 62192.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 65000 HISTORY, HISTORICISM, THEORY AND PRACTICE IN THEATRE AND DRAMA 3 Credit Hours
Course covers the breadth of theatre history and historicism and application of theatre theory to practice by focusing on the six major stylistic periods: Greek and Roman, Medieval, Renaissance, Romanticism, Realism and Non Realism (symbolism, expressionism, surrealism, absurdism) and contemporary period (postmodernism, feminism and interculturalism, multiculturalism). Using lecture, scholarly articles, video viewing and practical writing projects, students learn about and practice each style, as well appl the style to students' respective areas of graduate study (i.e. actor, director, designer).
Prerequisite: THEA 61000; and graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 65001 LIGHTING DESIGN I: DRAMA 2 Credit Hours
Advanced exploration and development of artistic processes and method for lighting design in drama.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65002 LIGHTING DESIGN II: MUSICAL THEATRE 2 Credit Hours
Advanced exploration and development of artistic processes and methods for lighting design in musical theatre.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65003 LIGHTING DESIGN III: DANCE AND OPERA 2 Credit Hours
Advanced exploration and development of artistic processes and methods for lighting design in classical and contemporary dance and opera.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65004 LIGHTING DESIGN IV: NON-TRADITIONAL PRODUCTIONS 2 Credit Hours
Exploration and development of artistic processes and methods in lighting design for non- traditional works, including multidisciplinary and devised productions.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65005 LIGHTING DESIGN V: ARCHITECTURAL AND INTERIOR LIGHTING 2 Credit Hours
Exploration and development of artistic processes and methods in lighting design for architectural and commercial interiors.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65006 LIGHTING DESIGN VI: NEW TECHNOLOGY 2 Credit Hours
Exploration of innovative technology and technological tools and their application to lighting design. The course includes exploration of non-conventional, automated, projection and LED technologies.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65092 PRODUCTION COLLABORATION: LIGHTING DESIGN 1-2 Credit Hours
(Repeatable for credit) Practical preparation, design and production work as applied to lighting design within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in lighting. Repeatable to a maximum of 8 credits.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

THEA 65192 TEACHING PRACTICUM 1-6 Credit Hours
(Repeatable for credit) Application of strategies for teaching at the college level. Development of advanced skills in course preparation, classroom management and pedagogical practice. Major work done teaching or assisting with undergraduate classes.
Prerequisite: THEA 62000; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3.6-21.6 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 66001 COSTUME DESIGN I: SCRIPT ANALYSIS 2 Credit Hours
Exploration and development of different methods and artistic processes for costume design. By focusing on textual analysis, the costume student will be able to explore a wide variety of performance types.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66002 COSTUME DESIGN II: PERFORMANCE GENRES 2 Credit Hours
Exploration and development of different methods and artistic processes for costume design in diverse genres, including dance, opera, and circus.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66003 COSTUME DESIGN III: THEATRICAL STYLES 2 Credit Hours
Advanced exploration of costume designs which incorporate both historical and thematic stylized conventions.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66004 COSTUME DESIGN IV: ADVANCED RENDERING 2 Credit Hours
Development of advanced figure drawing study and rendering techniques in order to strengthen the student's skill and facility in producing costume renderings.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66005 COSTUME DESIGN V: RESEARCH METHODS 2 Credit Hours
Intensive focus on the variety of research methodologies and their application to both contemporary and period costume designs.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66006 COSTUME DESIGN VI: TEXTILES 2 Credit Hours
An understanding of the appropriate application of many common and specialty fabrics used in costume design.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66092 PRODUCTION COLLABORATION: COSTUME DESIGN/ TECHNOLOGY 1-2 Credit Hours
(Repeatable for credit) Practical preparation, design and production work as applied to Costuming within the School of Theatre and Dance.This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in costumes. Repeatable to a maximum of 8 credits.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

THEA 72992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours
(Repeatable for a total of 12 credit hours)(Slashed with THEA 62992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble.
Prerequisite: Doctoral standing and special approval of advisor.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1-6 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

Arts Entrepreneurship - Minor

College of the Arts
College of the Arts
www.kent.edu/artscollege

About This Program

The Arts Entrepreneurship minor is open to all undergraduate students and offers an interdisciplinary curriculum from the College of the Arts and the Ambassador Crawford College of Business and Entrepreneurship. Students enhance their arts or arts-adjacent degree by developing an entrepreneurial mindset and professional practice skills designed to give agency to create opportunities. Students customize their studies with courses that complement their talents and goals so they can thrive as entrepreneurs in the arts or any creative industry.

Contact Information

- collegeofthearts@kent.edu | 330-672-2760
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
CA 20004	BEST PRACTICES IN THE ARTS	2
CA 20005	INNOVATIVE APPLICATIONS IN THE ARTS	2
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
ENTR 37040	ENTREPRENEURIAL TOOLS	3
Entrepreneurship Elective, choose from the following:		3
ENTR 37045	SALES IN THE ENTREPRENEURIAL VENTURE	
ENTR 37065	ENTREPRENEURIAL FINANCE	
ENTR 37070	SOCIAL ENTREPRENEURSHIP	
ENTR 37075	ENTREPRENEURIAL MARKETING	
ENTR 37195	SPECIAL TOPICS IN ENTREPRENEURSHIP I	
Minor Elective, choose from the following:		2-3
ART 40008	PROFESSIONAL PRACTICES IN VISUAL ARTS (WIC)	
ARTE 41525	ART EDUCATION: INQUIRY INTO PROFESSIONAL PRACTICE	
CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	
DAN 47060	PROFESSIONAL ASPECTS IN DANCE	
FDM 35280	FASHION ENTREPRENEURSHIP	
THEA 41305	PROFESSIONAL ASPECTS: PERFORMANCE	
THEA 41306	PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY	
THEA 41726	THEATRE MANAGEMENT	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Discuss career options within and outside their discipline.
2. Develop a plan for a sustainable "life in the arts" and chart a career path.
3. Demonstrate practical skills in research, financial planning, marketing and networking.
4. Analyze contracts, copyright and other legal practices.

School of Art

College of the Arts
School of Art
241 Center for the Visual Arts
Kent Campus
330-672-2192

artinfo@kent.edu
www.kent.edu/art

Undergraduate Programs

- Art Education - B.F.A.
- Art History - B.A.
- Studio Art - B.A.
- Studio Art - B.F.A.

Minors

- Accessories
- Art History
- Ceramics
- Drawing
- Glass
- Jewelry, Metals and Enameling
- Painting
- Print Media and Photography
- Sculpture and Expanded Media
- Textiles

Graduate Programs

- Art Education - M.A.
- Art History - M.A.
- Studio Art - M.A.
- Studio Art - M.F.A.

School of Art Faculty

- Buntin, Phillip D. (2006), Associate Professor, M.F.A., University of Connecticut, 2002
- Commito, Gianna E. (2005), Professor, M.F.A., University of Iowa, 2003
- Curtis, Dadisi A. (2024), Assistant Professor, M.F.A., University of Iowa, 2022
- Ebanks, Davin (2005), Associate Professor, M.F.A., Kent State University, 2010
- Farnsworth, Isabel (1997), Associate Professor, M.F.A., Stanford University, 1995
- Foster, Arron L. (2022), Assistant Professor, M.F.A., University of Georgia, 2017
- Gasper-Hulvat, Marie (2013), Associate Professor, Ph.D., Bryn Mawr College, 2012
- Higgins-Linder, Melissa (2013), Lecturer, M.A., Kent State University, 2017
- Hoeptner-Poling, Linda A. (1986), Associate Professor, Ph.D., Kent State University, 2005
- Johnson, Peter C. (2015), Associate Professor, M.F.A., Penn State University, 2003
- Kan, Koon-Hwee (2003), Associate Professor, Ed.D., University of Illinois-Urbana, 2004
- Kessler, Eli (2019), Assistant Professor, M.F.A., Virginia Commonwealth University, 2008
- Kruse, Anna S. (2023), Assistant Professor , MFA, State University of New York at New York, 2021
- Kuebeck, Andrew (2017), Associate Professor, M.F.A, Indiana University, Bloomington, 2011
- McMahon, Taryn (2013), Associate Professor, M.A., University of Iowa, 2010
- Medicus, Gustav F. (1989), Associate Professor, Ph.D., Indiana University, Bloomington, 1992
- Morabito, John Paul (2022), Assistant Professor, M.F.A., School of Art Institute of Chicago, 2013
- Polo, Darice M. (2004), Associate Professor, M.F.A., University at Albany-SUNY, 1999
- Powell, Shawn K. (2018), Associate Professor, M.F.A., City University of NY-Hunter College, 2009
- Reischuck, Albert W. (1990), Senior Lecturer, M.A., Kent State University, 1991
- Reisig, Shana K. (2018), Associate Professor, Ph.D., University Of New Mexico, 2015
- Roll, Melanie R. (2001), Associate Professor, M.F.A, Kent State University, 2022
- Schatz, Mark K. (2010), Associate Professor, M.F.A., University of Texas-Austin, 2005
- Sokso, Jillian L. (2022), Professor, M.F.A., University of Delaware, 2005
- Underwood, Joseph L. (2017), Associate Professor, Ph.D., SUNY Stony Brook, 2017
- Warner, John-Michael H. (2015), Associate Professor, Ph.D., University of Arizona, 2015

Art (ART)

ART 10022 2D COMPOSITION 3 Credit Hours

This course is a basic introduction to flat pictorial composition. Students will explore the basic principles of design and the application of elements (line, shape, value, texture, and color) to the two-dimensional surface. Students will learn to work with traditional materials as well as new technology. In addition to developing technical proficiency with a variety of materials and tools, emphasis will be placed on visual literacy and critical thinking skills throughout this course. All work (preliminary and final) must be retained for the duration of the semester and beyond as required.

Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ART 10023 3D COMPOSITION 3 Credit Hours

Course serves as the introductory three-dimensional experience, focusing on fundamental principles, elements and strategies of visual organization. Focus is on creative problem solving using a variety of approaches and materials, and favors non-equipment intensive assignments. Students develop critical thinking and practical skills relating to three-dimensional form and space. This foundation-level course prepares students for subsequent study within all the visual arts.

Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ART 10024 DIGITAL MEDIA 3 Credit Hours
This course introduces concepts, tools, software and a series of guided exercises to support the creative integration of digital media into making and understanding visual art. In addition to developing technical proficiency with digital media, emphasis is placed on visual literacy and critical thinking skills throughout this course.
Prerequisite: Art Education major or Art History major or Studio Art major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ART 30001 COMMON REVIEW 1 Credit Hour
The course provides an introduction to professional visual arts practices, as well as a candid assessment of a student's emerging strengths. This formative review of digital portfolios, physical artwork and student writing by a panel of School of Art faculty members is intended to assist students in deciding on concentration(s) and a degree program prior to enrollment in upper-division courses.
Prerequisite: ART 10022 and ART 10023 and ART 10024 and ARTH 22007 and ARTS 14000; and two of the following courses: ARTS 14001, ARTS 24002, ARTS 24010, ARTS 24040, ARTS 24051, ARTS 24061, ARTS 25310, ARTS 25400, ARTS 25600 and ARTS 25700; and special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ART 30692 EXPERIENTIAL LEARNING IN THE VISUAL ARTS (ELR) 1-3 Credit Hours
(Repeatable for credit) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on significance of the experience. Learning contract required.
Prerequisite: School of Art major; and junior standing; and special approval of faculty sponsor.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ART 40008 PROFESSIONAL PRACTICES IN VISUAL ARTS (WIC) 3 Credit Hours
Introduction to the concerns and practices of the professional artist/craftsperson.
Prerequisite: Studio Art major; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ART 40099 B.A. STUDIO ART CAPSTONE (ELR) (WIC) 3 Credit Hours
This writing-intensive course is an integrative experience that brings together all components of the B.A. in Studio Art. Students work on a final presentation and supportive cumulative dossier with complementary writing assignments.
Prerequisite: College of the Arts major; and junior standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ART 41093 VARIABLE TITLE WORKSHOP IN ART 1-6 Credit Hours
(Slashed with ART 51093)(Repeatable for maximum of 18 credit hours) Topics vary per course offering.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ART 51093 VARIABLE TITLE WORKSHOP IN ART 1-6 Credit Hours
(Slashed with ART 41093)(Repeatable for credit) Topics vary per course offering.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ART 67199 M.A.THESIS I 2-6 Credit Hours
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ART 67299 M.A.THESIS II 2 Credit Hours
(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ART 67199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ART 69199 M.F.A. THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ART 69299 M.F.A. THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: ART 69199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Art Education (ARTE)

ARTE 31001 ART EDUCATION: FOUNDATIONS AND CONCEPTS - ELEMENTARY 3 Credit Hours
An introduction to visual arts education for the young child (PreK-6) using current theory and practice. Curriculum foci include the study of developmental stages of children's art expression and response, creative expression, response dimensions related to art, diversity and educational practices. Course activities include lecture, research, discussion, group activities, studio and field experiences.
Prerequisite: Art Education major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTE 31005 SPECIAL TOPICS: ART EDUCATION- 2-4 Credit Hours
(Repeatable for credit) Content varies per course offering.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter-IP

ARTE 31092 ART EDUCATION :TEACHING PRACTICUM (ELR) 3 Credit Hours
A teaching experience for applying art education concepts. Analysis of instructional problems emphasized. Fifty-four field and/or clinical hours are associated with this course.
Prerequisite: ARTE 31001; and minimum 2.500 overall GPA.
Schedule Type: Lecture, Practical Experience
Contact Hours: 2 lecture, 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARTE 31096 INDIVIDUAL STUDY ART EDUCATION 2-10 Credit Hours
(Repeatable for credit) Additional study in areas of a student's choice in consultation with adviser.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-10 other
Grade Mode: Standard Letter-IP

ARTE 41002 ART EDUCATION: FOUNDATIONS AND CONCEPTS - SECONDARY (ELR) 3 Credit Hours
This course emphasizes the connections between the development of each student's visual arts education philosophy and its practical applications to teaching, communication with learners at the secondary level, disabled students and non-student audiences, assessment, demonstrations, classroom management, arts advocacy, etc. Off-campus field and/or clinical hours are associated with this course.
Prerequisite: ARTE 31092; and minimum 2.500 overall GPA.
Schedule Type: Practical Experience, Studio
Contact Hours: 7 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARTE 41004 PRE-KINDERGARTEN-12 DESIGN EDUCATION 3 Credit Hours
(Slashed with ARTE 51004) The purpose of this course is to demonstrate the importance of and provide strategies for teaching design in PreK-12 visual arts programs. Students learn the design process and design thinking, adapted specifically for the context of education. The four broad areas of environmental design, communication design, product design and interactive design are covered. The primary focus is on lesson development using the design process, addressing the design areas, working through challenges that integrate with other subject areas and applying design innovation materials and technologies.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTE 41009 ART EDUCATION MAJOR REVIEW 1 Credit Hour
Examination of student's knowledge, proficiency and ability to apply concepts in art and art education.
Prerequisite: Minimum 2.500 overall GPA.
Pre/corequisite: ARTE 41002 and ARTE 41192.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

ARTE 41089 INTERNATIONAL EXPERIENCE: ART EDUCATION (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTE 51089) A Kent State faculty-led study abroad experience in art education that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Art Education major; and special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

ARTE 41090 STUDY AWAY: ART EDUCATION (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTE 51090) Travel-based study away in art education at a site or sites away from Kent State University.
Prerequisite: Art education major.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ARTE 41095 SPECIAL TOPICS IN ART EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARTE 51095)Upper-division course whose content changes in accordance with the interest and competence of faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARTE 41096 INDIVIDUAL STUDY-ART EDUCATION 1-6 Credit Hours
(Repeatable for credit) Additional study in areas of students' choice in consultation with adviser.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP

ARTE 41192 ART EDUCATION: FIELD EXPERIENCE (ELR) (WIC) 3 Credit Hours
(Slashed with ARTE 51192) The knowledge and skills emphasized in this course focus on two major areas: (1) planning and teaching visual arts lessons in secondary educational settings with a focus on content and understanding of the theoretical and methodological processes involved, and (2) analyzing, interpreting and critiquing visual arts and design education situations to understand and improve instructional performance. Off-campus field and/or clinical hours are associated with this course.
Prerequisite: Minimum 2.500 overall GPA; and special approval.
Pre/corequisite: ARTE 41002.
Schedule Type: Practical Experience, Studio
Contact Hours: 8.5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

ARTE 41525 ART EDUCATION: INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ARTE 51525) Concepts and practices related to teaching visual arts education. Inquiry into visual arts teaching as a professional practice. Emphasis is on teacher as a critical disciplined investigator and culturally relevant practitioner.
Prerequisite: ARTE 41009; and minimum 2.500 overall GPA; and special approval.
Corequisite: ARTE 41592.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTE 41592 ART EDUCATION: STUDENT TEACHING AND SEMINAR (ELR) 9 Credit Hours
Provides a 16-week student teaching experience and seminar. Students must present an official valid certification of Child Safety Training, approved Basic Life Support and ALICE training verification to the clinical experience campus office student portal.
Prerequisite: ARTE 41009; and minimum 2.500 overall GPA; and special approval.
Corequisite: ARTE 41525.
Schedule Type: Practical Experience, Seminar
Contact Hours: 1 lecture, 24 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ARTE 51004 PRE-KINDERGARTEN-12 DESIGN EDUCATION 3 Credit Hours
(Slashed with ARTE 41004) The purpose of this course is to demonstrate the importance of and provide strategies for teaching design in PreK-12 visual arts programs. Students learn the design process and design thinking, adapted specifically for the context of education. The four broad areas of environmental design, communication design, product design and interactive design are covered. The primary focus is on lesson development using the design process, addressing the design areas, working through challenges that integrate with other subject areas and applying design innovation materials and technologies.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTE 51089 INTERNATIONAL EXPERIENCE: ART EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARTE 41089) A Kent State faculty-led study abroad experience in art education that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Art Education major; and graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTE 51090 STUDY AWAY: ART EDUCATION 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTE 41090) Travel-based study away in art education at a site or sites away from Kent State University.
Prerequisite: Major in Art Education; and graduate standing; and special approval.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTE 51095 SPECIAL TOPICS IN ART EDUCATION 1-3 Credit Hours
(Repeatable for credit)(Slashed with ARTE 41095) Upper-division course whose content changes in accordance with the interest and competence of faculty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARTE 51192 ART EDUCATION: FIELD EXPERIENCE 3 Credit Hours
(Slashed with ARTE 41192) The knowledge and skills emphasized in this course focus on two major areas: (1) planning and teaching visual arts lessons in secondary educational settings with a focus on content and understanding of the theoretical and methodological processes involved, and (2) analyzing, interpreting and critiquing visual arts and design education situations to understand and improve instructional performance. Off-campus field and/or clinical hours are associated with this course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience, Studio
Contact Hours: 8.5 other
Grade Mode: Standard Letter

ARTE 51525 ART EDUCATION: INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours
(Slashed with ARTE 41525) Concepts and practices related to teaching visual arts education. Inquiry into visual arts teaching as a professional practice. Emphasis is on teacher as a critical disciplined investigator and culturally relevant practitioner.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTE 61095 SPECIAL TOPICS: ART EDUCATION 3 Credit Hours
(Repeatable for credit) Topics vary per course offering to reflect the interests and specializations of faculty.
Prerequisite: ARTE 61101; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTE 61096 INDIVIDUAL STUDY IN ART EDUCATION 1-6 Credit Hours
(Repeatable for credit) Specialized study leading to the thesis in art education.
Prerequisite: ARTE 61101 and ARTE 61191 and ARTE 61291; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP

ARTE 61101 RESEARCH SEMINAR IN ART EDUCATION 3 Credit Hours
In this specialized research seminar exploring educational research methods and methodologies, emphasis is placed on the fundamentals of educational research, including how to design and conduct research in visual arts education. An array of methods that are applied in the field are introduced, preparing students to propose their own capstone work.
Prerequisite: Art Education major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTE 61191 SEMINAR IN ART EDUCATION I 3 Credit Hours
(Repeatable for credit) This course is the first seminar that emphasizes the study of prevailing themes in art education. ARTE 61291 completes the study. The curriculum focuses on the ideas of leading scholars and practicing teachers who have shaped practice in the field of art education within the context of the social, political and educational values and beliefs of the time.
Prerequisite: Art Education major; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTE 61209 CANDIDACY REVIEW EXAMINATION:ART EDUCATION 1 Credit Hour
A comprehensive review that undertakes a formal assessment of students' knowledge and understanding of concepts in art, education and art education.
Prerequisite: ARTE 61101; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

ARTE 61291 SEMINAR IN ART EDUCATION II 3 Credit Hours
(Repeatable for credit) A continuation of the topics addressed in ARTE 61191. The study of past, prevailing and contemporary issues, and themes in visual arts education.
Prerequisite: ARTE 61191; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTE 61399 ART EDUCATION: GRADUATE PROJECT CAPSTONE 3 Credit Hours
This course is designed for students who have chosen the non-thesis track of the Master of Arts degree in Art Education and will serve as the culminating experience for students completing a project rather than a thesis. The course facilitates research or working on a qualitative/curriculum case study for the final project.
Prerequisite: Art Education major; and graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

Art History (ARTH)

ARTH 12001 ART AS A WORLD PHENOMENON (KFA) 3 Credit Hours
Course explore the essential qualities of art and the motivations for creating art in both Western and non-Western cultures through a thematic paradigm. By the end of the term, students have developed an enhanced ability to identify and describe various media and styles of artistic production, and have a basic knowledge of the major cultural periods and representative artworks in the history of world art. This course is designed for non-art majors, and will not fulfill requirements for School of Art majors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts, Transfer Module Fine Arts

ARTH 22006 ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA) 3 Credit Hours
Examination and interpretation of the major monuments of art and architecture from Paleolithic art to c. 1300 CE. The course addresses global traditions, including regions in Europe, Asia, Africa and the Americas.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts, TAG Arts and Humanities, Transfer Module Fine Arts

ARTH 22007 ART HISTORY: RENAISSANCE TO MODERN ART (KFA) 3 Credit Hours
Examination and interpretation of the major art movements and artists from the early Renaissance through recent decades. The course addresses global history, including art and artists active in Europe, Asia, Africa, and the Americas.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts, TAG Arts and Humanities, Transfer Module Fine Arts

ARTH 22010 INTRODUCTION TO ASIAN ART (DIVG) 3 Credit Hours
The survey introduces arts of pre-modern Asia (with the exception of West Asia and Islamic art in general). Select artistic traditions in South, Southeast and East Asia are considered against their religious, socio-political and other cultural contexts. Major themes include (1) the rise of civilizations, (2) developments of various artistic forms and media, (3) the spread of Buddhism and other religions across the region and (4) trans-cultural relations.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ARTH 22021 ART HISTORY: AFRICAN ART (DIVG) (KFA) 3 Credit Hours
An introduction to the arts of Africa with an emphasis on the historical traditions of major kingdoms. Covering a spectrum of regions, students examine primarily sculptural traditions (figural and masquerade) in both royal and ritual contexts. These arts are examined within their social and cultural contexts in the service of politics, as objects of ritual and religious practice, and as evidence of aesthetic choices and achievements. The final segment of the course will address the legacy of these traditions through the colonial period and into modern times.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Fine Arts

ARTH 32000 RESEARCH AND WRITING IN ART HISTORY (WIC) 3 Credit Hours
Introduction to writing styles, methodologies and academic resources for art history research. The course will focus on improving skills in writing about the visual arts through the study of formal analysis, historic context, and modern and contemporary theories and philosophies.
Prerequisite: School of Art major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ARTH 32066 ART AND THEORY SINCE 1940 3 Credit Hours
Visual arts in a global context with emphasis on European and American artists and theory from 1940 to the present.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42001 ART HISTORY METHODOLOGIES 3 Credit Hours
(Slashed with ARTH 52001) This course is designed to introduce participants to the study of art history as a discipline increasingly marked by its diversity of approaches and emphasis on methodology and theory. This seminar will review the representative range of traditional art historical analyses and will study more recent theories of meaning and culture. The course will also examine art historical knowledge in relation to theoretical developments in other disciplines in the humanities.
Prerequisite: ARTH 32000.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 42025 ART OF WEST AFRICA (DIVG) 3 Credit Hours
(Slashed with ARTH 52025) Beginning with the art and architecture from major West African kingdoms, the course follows cultural production from the region through the colonial period and into modernism. The artists of newly-independent West African nations pioneered new visions for how Africans would participate in developing global networks.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ARTH 42028 CONTEMPORARY AFRICAN ART: 1980-PRESENT (DIVG) 3 Credit Hours
(Slashed with ARTH 52028) An in-depth study of African art since the late twentieth century. Focused on artists from the continent and the Diaspora, the course begins by examining the impact that colonialism, with its appropriation, exploitation and reshaping of Africa, had on the arts in Africa (1960-1980). It then analyzes a broad spectrum of modern and contemporary African art forms (painting, printmaking, sculpture, textiles, photography, performance and film) and related art history, exhibition and critical texts from the 1980s to the present, with an emphasis on such issues as patronage, the commodification of art, urbanism, national consciousness, identity formation, new media and the effects of globalization.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

ARTH 42036 MEDIEVAL ART 3 Credit Hours
(Slashed with ARTH 52036) Emphasis on major periods of Medieval art (Early Christian, Byzantine, Carolingian, Ottonian, Romanesque and Gothic), treating iconographic themes and styles in a variety of media. Works studied include architecture, manuscript painting, ivory carving, and goldsmith work, most of which were produced by or for members of the clergy, royalty, or the lay aristocracy. The course, therefore, involves significant material relating to political, economic and religious issues. It investigates problems in patronage, function, reception and censorship. A strong emphasis is given to reading primary and secondary sources.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42041 ITALIAN RENAISSANCE ART 3 Credit Hours
(Slashed with ARTH 52041) Study of development of major themes in Italian art from 1200 until about 1450, emphasizing achievements of the masters and analyzing major ideas and theories of the period.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42043 THE HIGH RENAISSANCE AND MANNERISM IN ITALY 3 Credit Hours
(Slashed with ARTH 52043) Covers late 15th century and 16th century painting, sculpture and architecture in Italy. Following discussion of the High Renaissance masters, students examine the works collectively known as the Mannerists. Course gives students a firm grounding in the manifold artistic activity of the 16th century.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42044 VENETIAN RENAISSANCE ART 3 Credit Hours
(Slashed with ARTH 52044) Course provides a survey of Venetian painting, sculpture and architecture from the late 1300s to the late 1500s. Upon completion students have a comprehension of the interrelationship of Venetian art with its unique environment and society.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42045 ITALIAN ART FROM GIOTTO TO BERNINI 3 Credit Hours
(Slashed with ARTH 52045) Course explores the development of art and architecture in Italy from the late Middle Ages to the High Renaissance period. Through an in-depth analysis of the art and history of these periods, students develop an understanding of Italy's role in the overall development of Western civilization. Particular emphasis is given to Florentine Art.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42046 BAROQUE ART OF THE 17TH CENTURY 3 Credit Hours
(Slashed with ARTH 52046) Study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42050 ART AND REVOLT IN THE NINETEENTH CENTURY 3 Credit Hours
(Slashed with ARTH 52050) The nineteenth century is one of the most dramatic time periods in Euro-American art history. Artists and viewers experienced a number of revolutions that profoundly changed the landscape of art and politics. More specifically, nineteenth-century art was created during a violent sweep of colonial expansion, a rise in industrialization, and a revolt against the French Salon. This course considers how artists responded to these social changes by exploring art movements in France and beyond across a wide range of artistic media —including spirit photographs, Moulin Rouge posters, and cemetery sculpture. Students will examine the most canonical nineteenth-century artists while also challenging their placement in the art history canon, which was established at the expense of women and people of color.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42056 AMERICAN ART I: INDIAN WARS TO CIVIL WAR 3 Credit Hours
(Slashed with ARTH 52056) In this first section of American art history, students will explore the evolution of American art from European conquest through the American Revolution, and stretching to the Civil War. This time period in American history is characterized by waves of social unrest followed by periods of peace that American artists reflected and shaped in their work. The American-Indian Wars and the Trans-Atlantic slave trade also profoundly impacted the art and politics of the early United States, inspiring artists to support or protest conflicts in society with their art. Exchanges with African, Indigenous, as well as Asian and European peoples pervaded every aspect of art in the United States. In looking widely at objects such as paintings, clothing, food advertisements, and furniture, this class will examine debates about nationhood in early American art that exploded by the Civil War.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42057 AMERICAN ART II: CIVIL WAR TO CIVIL RIGHTS 3 Credit Hours
(Slashed with ARTH 52057) In this second section and in-depth study of American art history, students will explore shifts and advancements in American art since the closing of the Civil War. New styles in abstraction and technological innovations in photography, lithography, and cinema dramatically altered the trajectory of American art and resulted in an expansion of art museums and patronage. As the United States gained economic power and expanded its borders, American art was also profoundly influenced by movements such as French Impressionism and Mexican muralism, and shaped by artists as close as Canada and as far as Australia. While American artists were debating whether to welcome "foreign" influences in their work, debates over racial segregation and women's suffrage permeated art and politics on the homefront. In looking widely at objects such as paintings, photographs, silverware, and public monuments, this class will examine the art and visual culture of the United States from the Civil War to Civil Rights movement.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42059 AFRICAN AMERICAN ART AND VISUAL CULTURE (DIVD) 3 Credit Hours
(Slashed with ARTH 52059) This course contextualizes American artists of African descent within the wider framework of U.S. art and visual culture. In looking at a wide range of media—across painting, photography, fashion and food—students study African American visual culture and its profound impact on American art at large. Students also explore the contested concept of "race" as it intersects with the production and patronage of African American art. Furthermore, students consider the benefits and pitfalls of the field and the ways in which art historians, critics and curators have treated African American art in U.S. museums. By the end of this course, students will have a deeper understanding of African American art and its tangled identity politics.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ARTH 42060 RUSSIAN ART 3 Credit Hours
(Slashed with ARTH 52060) This course explores the history of Russian art starting with the legacy of Byzantium and continuing up through the end of the Soviet era, from about 1000 CE to the present. Russia's artistic movements have borrowed from a wide variety of cultures, both from groups that have attacked and conquered Russian territories as well as from groups that Russians themselves have conquered and attacked. We will focus on art that was produced in Russia as well as the cross-cultural influences that shaped and changed this art. Painting will be a dominant focus, coupled with a broad study including decorative arts like porcelain and embroidery as well as architecture, performance and illustration.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42061 EARLY 20TH-CENTURY ART 3 Credit Hours
(Slashed with ARTH 52061) This course explores the history of Early 20th-Century Modern Art up to the Second World War. Painting, sculpture, and architecture will be the dominant focus, coupled with alternative media that may include printmaking, photography, cinema, performance, and textile arts.
Prerequisite: ARTH 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42064 DADA AND SURREALISM 3 Credit Hours
Using a roughly chronological approach, students examine the profound and lasting contributions made by the Dadaists and Surrealists, as well as other revolutionary modernists of the early 20th century who sought to escape the traditional and rational in art and thought with sincerity in spite of the often superficially simple or even sometimes nihilistic appearance of their efforts. Through an analysis of selected works from this period and their relevant precursors, an attempt will be made to define the progressive ideas which led to the dismantling of previous standards and the rise of an anti-art spirit which continues today in various guises. Primary documents are considered regularly to provide students with a wider appreciation for the variety of media (e.g., film, theater, typography) and the issues and characters involved.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42065 FEMINIST AND QUEER ART AND CULTURAL THEORY (DIVD) 3 Credit Hours
(Slashed with ARTH 52065) This advanced and interdisciplinary art history course explores feminist and queer visual histories, with particular attention to related cultural theories. In addition to paradigmatic ideologies of difference and language, this course is based on indispensable and sometimes peripheral postmodern milieux such as politicized identities, economies and the body, the importance of feeling and the everyday, feminist-Marxist critiques of community and the state and notions of lived histories/narratives. In regard to structure, this is a reading intensive course designed to empower students with 'influential' visual and textual languages, as well as knowledge of critical race, gender and sexuality studies. Readings, discussions, projects and knowledges-at-large are applicable in the artist's studio and more broadly, in humanities scholarship.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

ARTH 42069 NATIONS AND BORDERS 3 Credit Hours
(Slashed with ARTH 52069) Emphasizing art and visual culture since World War II, this course considers the phenomenon of the nation-state in the context of embodied borders and diasporas. From the historically charged U.S.-Mexico borderlands to the Berlin Wall that divided East and West Germany, modernity is characterized by the development of nations and subsequent nationalisms as well as the delineation of borders and boundaries—and, once unpacked, theoretical and physical embodiments become legible. Taking a historically-grounded and global approach to state production and displacement, critical texts—many of which are grounded in feminist and queer theories—will address various interpretations of boundaries, especially national and corporeal. We will explore the intellectual history of nation-building and subsequent textual analyses of geographic and embodied borders. We will also study specific art historical moments, such as the militarization of the U.S.-Mexico frontera, Israel's occupation of Palestine, treating East and West Berlin as metaphor and allegory, the borderlands of queer and black identities in the United States and present-day Euro-American imperialism. The course format consists of rigorous class discussions guided by readings and illustrated presentations.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42073 EPHEMERAL EXHIBITIONS: WORLD FAIRS, FESTIVALS AND BIENNIALS 3 Credit Hours
(Slashed with ARTH 52073) Revisiting a variety of time-based exhibition formats throughout recent history. From Joseph Paxton's Crystal Palace to the Venice Biennale, students examine a globally-oriented history of landmark exhibitions that were designed to dazzle audiences for a few months before being dismantled. Sponsored by governments, the corporate sector, grassroots movements, or cultural actors, the motivations for these exhibitions are as varied as the actual format the exhibition takes. We discuss not only the framework and ideologies behind such projects, but also the legacies they have had on more permanent arts institutions, as well as criticisms levied against them by artists.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42076 HISTORIES AND THEORIES OF PHOTOGRAPHY AND VISUAL CULTURE 3 Credit Hours
(Slashed with ARTH 52076) Photography is embedded in every aspect of visual culture. As such, this course is a socio-political and socio-cultural study of photography. This course focuses on major developments in the field, including photography's advent, 19th-century commodity, scientific manipulations, 20th century Modernism and postwar aesthetics. Course also sketches political, cultural and theoretical developments and pertinent debates regarding emergence, significance, interpretation, perception and resonance. In addition to manifold moments in histories and theories of photography, course examines critical approaches to the history of art, including ecocriticism, feminism, critical race studies, queer studies and borderlands studies. While effort will be made to survey photography's history, this is not taxonomy of related movements and moments.
Prerequisite: ARTH 32066.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42079 CONTEMPORARY CRAFT: HISTORY AND THEORY 3 Credit Hours
(Slashed with ARTH 52079) This course is designed to provide an overview of the history, theory, and practice of modern and contemporary studio craft, with an emphasis on North America. Students will develop an enhanced ability to identify and describe various media and styles of artistic production normally associated with "craft" genres: ceramics, textiles/fibers, jewelry/metals, glass and wood/furniture. Concurrently, an introduction to basic philosophies, pedagogical styles, and controversial issues that have shaped this unique cultural, social and artistic history will provide a framework for understanding the intersection of art, craft and design in the 21st-century.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 42089 INTERNATIONAL EXPERIENCE: ART HISTORY (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52089) Travel-based international experience in art history. The primary benefit will be the observation and study of works of art, firsthand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific works sites.
Prerequisite: Special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

ARTH 42090 STUDY AWAY: ART HISTORY (ELR) 1-3 Credit Hours
(Slashed with ARTH 52090)(Repeatable for credit) Travel-based study away in art history to and at a site or sites away from Kent State University. The primary benefit is the observation and study of works of art firsthand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific work sites.
Prerequisite: School of Art major.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ARTH 42091 ART HISTORY SEMINAR 3 Credit Hours
(Repeatable for credit) Open format course with topics announced in advance. Designed to allow detailed examination of selected topics.
Prerequisite: Junior standing; and special approval of instructor.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 42092 MUSEUM INTERNSHIP (ELR) 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52092) A supervised internship in a regional museum emphasizing the practical application of museological principles and practices.
Prerequisite: Junior or senior standing.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ARTH 42095 SPECIAL TOPICS: ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52095) Topics vary in accordance with the interest and competence of faculty.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARTH 42096 INDIVIDUAL INVESTIGATION:ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52096) Directed independent study with art history faculty.
Prerequisite: Junior or senior standing.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ARTH 42098 RESEARCH IN ART HISTORY (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 52098) Independent research open only to undergraduate students in art history or related fields (by special permission only).
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARTH 52001 ART HISTORY METHODOLOGIES 3 Credit Hours
(Slashed with ARTH 42001) This course is designed to introduce participants to the study of art history as a discipline increasingly marked by its diversity of approaches and emphasis on methodology and theory. This seminar will review the representative range of traditional art historical analyses and will study more recent theories of meaning and culture. The course will also examine art historical knowledge in relation to theoretical developments in other disciplines in the humanities.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 52025 ART OF WEST AFRICA 3 Credit Hours
(Slashed with ARTH 42025) Beginning with the art and architecture from major West African kingdoms, the course follows cultural production from the region through the colonial period and into modernism. The artists of newly-independent West African nations pioneered new visions for how Africans would participate in developing global networks.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52028 CONTEMPORARY AFRICAN ART: 1980-PRESENT 3 Credit Hours
(Slashed with ARTH 42028) An in-depth study of African art since the late twentieth century. Focused on artists from the continent and the Diaspora, the course begins by examining the impact that colonialism, with its appropriation, exploitation and reshaping of Africa, had on the arts in Africa (1960-1980). It then analyzes a broad spectrum of modern and contemporary African art forms (painting, printmaking, sculpture, textiles, photography, performance and film) and related art history, exhibition and critical texts from the 1980s to the present, with an emphasis on such issues as patronage, the commodification of art, urbanism, national consciousness, identity formation, new media and the effects of globalization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52036 MEDIEVAL ART 3 Credit Hours
(Slashed with ARTH 42036) Emphasis on major periods of Medieval art (Early Christian, Byzantine, Carolingian, Ottonian, Romanesque and Gothic), treating iconographic themes and styles in a variety of media. Works studied include architecture, manuscript painting, ivory carving, and goldsmith work, most of which were produced by or for members of the clergy, royalty, or the lay aristocracy. The course, therefore, involves significant material relating to political, economic, and religious issues. It investigates problems in patronage, function, reception, and censorship. A strong emphasis is given to reading primary and secondary sources.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52038 HAND MADE BOOKS AND ART 3 Credit Hours
Course examines the history of (predominantly Western) books and reading; of books as locus of several types of visual art (decoration, illustration, vision, commentary); and of visual strategies for a range of communication tasks in selected books from the Middle Ages onward. Students are prepared to understand the variety and efficacy of approaches that have been used by those producing books by hand in the past and at present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52041 ITALIAN RENAISSANCE ART 3 Credit Hours
(Slashed with ARTH 42041) Study of development of major themes in Italian art from 1200 until about 1450, emphasizing achievements of the masters and analyzing major ideas and theories of the period.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52043 THE HIGH RENAISSANCE AND MANNERISM IN ITALY 3 Credit Hours
(Slashed with ARTH 42043) Covers late 15th century and 16th century painting, sculpture and architecture in Italy. Following discussion of the High Renaissance masters students examine the works collectively known as the Mannerists. Course gives students a firm grounding in the manifold artistic activity of the 16th century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52044 VENETIAN RENAISSANCE ART 3 Credit Hours
(Slashed with ARTH 42044) Course provides a survey of Venetian painting, sculpture and architecture from the late 1300s to the late 1500s. Upon completion students will have a comprehension of Venetian art with its unique environment and society.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52045 ITALIAN ART FROM GIOTTO TO BERNINI 3 Credit Hours
(Slashed with ARTH 42045) Course explores the development of art and architecture in Italy from the late Middle Ages to the High Renaissance period. Through an in-depth analysis of the art and history of these periods, students develop an understanding of Italy's role in the overall development of Western civilization. Particular emphasis is given to Florentine Art.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52046 BAROQUE ART OF THE 17TH CENTURY 3 Credit Hours
(Slashed with ARTH 42046) A study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52050 ART AND REVOLT IN THE NINETEENTH CENTURY 3 Credit Hours
(Slashed with ARTH 42050) The nineteenth century is one of the most dramatic time periods in Euro-American art history. Artists and viewers experienced a number of revolutions that profoundly changed the landscape of art and politics. More specifically, nineteenth-century art was created during a violent sweep and architecture within the broader context of colonial expansion, a rise in industrialization and a revolt against the French Salon. Western culture and ideas. This course considers how artists responded to these social changes by exploring art movements in France and beyond across a wide range of artistic media—including spirit photographs, Moulin Rouge posters and cemetery sculpture. Students will examine the most canonical nineteenth-century artists while also challenging their placement in the art history canon, which was established at the expense of women and people of color.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52056 AMERICAN ART I: INDIAN WARS TO CIVIL WAR 3 Credit Hours
(Slashed with ARTH 42056) In this first section of American art history, students will explore the evolution of American art from European conquest through the American Revolution, and stretching to the Civil War. This time period in American history is characterized by waves of social unrest followed by periods of peace that American artists reflected and shaped in their work. The American-Indian Wars and the Trans-Atlantic slave trade also profoundly impacted the art and politics of the early United States, inspiring artists to support or protest conflicts in society with their art. Exchanges with African, Indigenous, as well as Asian and European peoples pervaded every aspect of art in the United States. In looking widely at objects such as paintings, clothing, food advertisements, and furniture, this class will examine debates about nationhood in early American art that exploded by the Civil War.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52057 AMERICAN ART II: CIVIL WAR TO CIVIL RIGHTS 3 Credit Hours
(Slashed with ARTH 42057) In this second section and in-depth study of American art history, students will explore shifts and advancements in American art since the closing of the Civil War. New styles in abstraction and technological innovations in photography, lithography and cinema dramatically altered the trajectory of American art and resulted in an expansion of art museums and patronage. As the United States gained economic power and expanded its borders, American art was also profoundly influenced by movements such as French Impressionism and Mexican muralism and shaped by artists as close as Canada and as far as Australia. While American artists were debating whether to welcome “foreign” influences in their work, debates over racial segregation and women’s suffrage permeated art and politics on the homefront. In looking widely at objects such as paintings, photographs, silverware and public monuments, this class will examine the art and visual culture of the United States from the Civil War to Civil Rights movement.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52059 AFRICAN AMERICAN ART AND VISUAL CULTURE 3 Credit Hours
(Slashed with ARTH 42059) This course contextualizes American artists of African descent within the wider framework of U.S. art and visual culture. In looking at a wide range of media—across painting, photography, fashion and food—students study African American visual culture and its profound impact on American art at large. Students also explore the contested concept of "race" as it intersects with the production and patronage of African American art. Furthermore, students consider the benefits and pitfalls of the field and the ways in which art historians, critics and curators have treated African American art in U.S. museums. By the end of this course, students will have a deeper understanding of African American art and its tangled identity politics.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52060 RUSSIAN ART 3 Credit Hours
(Slashed with ARTH 42060)This course explores the history of Russian art starting with the legacy of Byzantium and continuing up through the end of the Soviet era, from about 1000 CE to the present. Russia's artistic movements have borrowed from a wide variety of cultures, both from groups that have attacked and conquered Russian territories as well as from groups that Russians themselves have conquered and attacked. We will focus on art that was produced in Russia as well as the cross-cultural influences that shaped and changed this art. Painting will be a dominant focus, coupled with a broad study including decorative arts like porcelain and embroidery as well as architecture, performance and illustration.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52061 EARLY 20TH-CENTURY ART 3 Credit Hours
(Slashed with ARTH 42061) This course explores the history of Early 20th-Century Modern Art up to the Second World War. Painting, sculpture, and architecture will be the dominant focus, coupled with alternative media that may include printmaking, photography, cinema, performance and textile arts.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52064 DADA AND SURREALISM 3 Credit Hours
(Slashed with ARTH 42064) Using a roughly chronological approach, students examine the profound and lasting contributions made by the Dadaists and Surrealists, as well as other revolutionary modernists of the early 20th century who sought to escape the traditional and rational in art and thought with sincerity in spite of the often superficially simple or even sometimes nihilistic appearance of their efforts. Through an analysis of selected works from this period and their relevant precursors, an attempt will be made to define the progressive ideas which led to the dismantling of previous standards and the rise of an anti-art spirit which continues today in various guises. Primary documents are considered regularly to provide students with a wider appreciation for the variety of media (e.g., film, theater, typography) and the issues and characters involved.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52065 FEMINIST AND QUEER ART AND CULTURAL THEORY 3 Credit Hours
(Slashed with ARTH 42065) This advanced and interdisciplinary art history course explores feminist and queer visual histories, with particular attention to related cultural theories. In addition to paradigmatic ideologies of difference and language, this course is based on indispensable and sometimes peripheral postmodern milieux such as politicized identities, economies and the body, the importance of feeling and the everyday, feminist-Marxist critiques of community and the state and notions of lived histories/narratives. In regard to structure, this is a reading intensive course designed to empower students with 'influential' visual and textual languages, as well as knowledge of critical race, gender and sexuality studies. Readings, discussions, projects and knowledges-at-large are applicable in the artist's studio and more broadly, in humanities scholarship.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52069 NATIONS AND BORDERS 3 Credit Hours
(Slashed with ARTH 42069) Emphasizing art and visual culture since World War II, this course considers the phenomenon of the nation-state in the context of embodied borders and diasporas. From the historically charged U.S.-Mexico borderlands to the Berlin Wall that divided East and West Germany, modernity is characterized by the development of nations and subsequent nationalisms as well as the delineation of borders and boundaries—and, once unpacked, theoretical and physical embodiments become legible. Taking a historically-grounded and global approach to state production and displacement, critical texts—many of which are grounded in feminist and queer theories—will address various interpretations of boundaries, especially national and corporeal. We will explore the intellectual history of nation-building and subsequent textual analyses of geographic and embodied borders. We will also study specific art historical moments, such as the militarization of the U.S.-Mexico frontera, Israel's occupation of Palestine, treating East and West Berlin as metaphor and allegory, the borderlands of queer and black identities in the United States and present-day Euro-American imperialism. The course format consists of rigorous class discussions guided by readings and illustrated presentations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52073 EPHEMERAL EXHIBITIONS: WORLD FAIRS, FESTIVALS AND BIENNIALS 3 Credit Hours
(Slashed with ARTH 42073) Revisiting a variety of time-based exhibition formats throughout recent history. From Joseph Paxton's Crystal Palace to the Venice Biennale, students examine a globally-oriented history of landmark exhibitions that were designed to dazzle audiences for a few months before being dismantled. Sponsored by governments, the corporate sector, grassroots movements, or cultural actors, the motivations for these exhibitions are as varied as the actual format the exhibition takes. We discuss not only the framework and ideologies behind such projects, but also the legacies they have had on more permanent arts institutions, as well as criticisms levied against them by artists.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52076 HISTORIES AND THEORIES OF PHOTOGRAPHY AND VISUAL CULTURE 3 Credit Hours
(Slashed with ARTH 42076) Photography is embedded in every aspect of visual culture. As such, this course is a socio-political and socio-cultural study of photography. This course focuses on major developments in the field, including photography's advent, 19th-century commodity, scientific manipulations, 20th century Modernism and postwar aesthetics. Course also sketches political, cultural and theoretical developments and pertinent debates regarding emergence, significance, interpretation, perception and resonance. In addition to manifold moments in histories and theories of photography, course examines critical approaches to the history of art, including ecocriticism, feminism, critical race studies, queer studies and borderlands studies. While effort will be made to survey photography's history, this is not taxonomy of related movements and moments.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52079 CONTEMPORARY CRAFT: HISTORY AND THEORY 3 Credit Hours
(Slashed with ARTH 42079) This course is designed to provide an overview of the history, theory, and practice of modern and contemporary studio craft, with an emphasis on North America. Students will develop an enhanced ability to identify and describe various media and styles of artistic production normally associated with "craft" genres: ceramics, textiles/fibers, jewelry/metals, glass, and wood/furniture. Concurrently, an introduction to basic philosophies, pedagogical styles and controversial issues that have shaped this unique cultural, social and artistic history will provide a framework for understanding the intersection of art, craft and design in the 21st-century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 52089 INTERNATIONAL EXPERIENCE: ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42089) Travel-based international experience in art history. The primary benefit will be the observation and study of works of art firsthand, first hand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific works sites.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTH 52090 STUDY AWAY: ART HISTORY 1-3 Credit Hours
(Slashed with ARTH 42090)(Repeatable for credit) Travel-based study away in art history to and at a site or sites away from Kent State University. The primary benefit is the observation and study of works of art firsthand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific work sites.
Prerequisite: School of Art major; and graduate standing.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTH 52092 MUSEUM INTERNSHIP 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42092) A supervised internship in a regional museum emphasizing the practical application of museological principles and curatorial practices.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

ARTH 52095 SPECIAL TOPICS:ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42095) Topics vary in accordance with the interest and competence of faculty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

ARTH 52096 INDIVIDUAL INVESTIGATION:ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42096) Directed independent study with art history faculty.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

ARTH 52098 RESEARCH IN ART HISTORY 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTH 42098) Independent research open only to graduate students in art history or related fields.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

ARTH 52166 HISTORIES AND THEORIES OF MODERN AND CONTEMPORARY ART 3 Credit Hours
This course examines both the visual and textual. As such we travel through contemporary moments such as Abstract Expressionism, Post-Painterly Abstraction, Nouveau Réalisme, Pop, Minimalism, Conceptual art and participatory art—to name a few. So too, this course entails a broad overview of critical and theoretical approaches often engaged by contemporary artists such as existentialism, psychoanalysis, structuralism, semiotics, feminist and queer theories, theories of modern sculpture, and theories of photography. When art and theory are taken together, modern and contemporary art underscores the cultural, sociopolitical and economic developments characteristic of the last half of the twentieth century. While time constraints restrict a consideration of every artist, a selection of practitioners will be addressed. That said, this course affirms the importance of questions rather than finite answers, celebrates ambiguity and neglects any attempt at surveying and summarizing the field of modern and contemporary art.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 62000 ART HISTORY RESEARCH METHODS AND RESOURCES 2 Credit Hours
This course is designed to support research and writing at the graduate level in art history. Class time is customized to provide students with assistance in strategies required for graduate research papers and thesis preparation. Significant emphasis will be placed on becoming familiar with different methods and theories of art history research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

ARTH 62091 ART HISTORY SEMINAR 3 Credit Hours
(Repeatable for credit) Open format course with topics announced in advance. Designed to allow in-depth examination of selected topics.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 62095 SPECIAL TOPICS: ART HISTORY 3 Credit Hours
(Repeatable for credit) Discussion and lecture course whose topic changes in accordance with the interest and competence of the faculty. Special focus on problems and issues in the different areas of the discipline.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTH 62096 SELECTED PROBLEMS: ART HISTORY 3 Credit Hours
(Repeatable for maximum 9 credit hours) Course content changes each semester according to the topic, entailing discussion and lectures on specific problems issues and areas in art history.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTH 62098 ART HISTORY: GRADUATE RESEARCH 1-6 Credit Hours
(Repeatable for credit) Independent research.
Prerequisite: Art History major; and graduate standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter

Art Studio Art (ARTS)

ARTS 14000 DRAWING I 3 Credit Hours
Fundamental drawing and studio experiences; exploration of basic drawing ideas and media. Work produced in class must be retained for later portfolio presentation in ART 30001.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ARTS 14001 DRAWING II 3 Credit Hours
Continued practice in drawing with emphasis upon dimensional representation, pictorial structure and the breakdown of formal elements. Work produced in this class must be retained for later portfolio presentation in ART 30001.
Prerequisite: ARTS 14000.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 24002 DRAWING AS A STUDIO PRACTICE 3 Credit Hours
An introduction to advanced concepts and ideas which enable the student to understand and professionally realize their drawings as a studio practice. Work produced in this course must be retained for later portfolio presentation in ART 30001.
Prerequisite: ARTS 14000 and ARTS 14001.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 24010 INTRODUCTION TO FINE ART PHOTOGRAPHY 3 Credit Hours
Introductory studio/lecture course which introduces fine art photography with an aesthetic, contemporary approach. Students learn traditional and digital photographic image-making applications and the historical underpinnings of the photograph in modern art. Research paper and portfolio required. Work produced in this class must be retained for later portfolio presentation in ART 30001.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 24040 INTRODUCTION TO PRINT MEDIA 3 Credit Hours
Course gives the beginning student an overview of basic printmaking techniques and an understanding of what a print is, its form in both unique and multiple formats, and how these function in culture. Printmaking processes result in a rich array of pictorial possibilities and methodological approaches. Students are exposed to the basic techniques and concepts of relief, intaglio and monotype applications for printmaking.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ARTS 24051 INTRODUCTION TO SCULPTURAL PRACTICE 3 Credit Hours
Course provides a firm grounding in the rudiments of sculpture and sculpture's expanding field. Drawing on historical, aesthetic and technical strategies of generating and understanding sculpture; students are guided toward the realization of three-dimensional form. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work, engendering a better understanding of how sculpture is situated within the context of culture and society at large. Students explore the formal properties and expressive potential of materials, including mold making and casting, wood, metal and experimental media. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 24061 INTRODUCTION TO PAINTING 3 Credit Hours
Acrylic-based media is used to introduce the fundamentals of building a painting, the development of a sophisticated painting vocabulary, and a confident understanding of color. Emphasis on observational painting from life through varied techniques, with an introduction to tools, processes and best studio practices. Work must be retained for later portfolio presentation in Art 30001.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 25310 FOUNDATIONS IN WEAVING 3 Credit Hours
Weaving – the systematic interlacement of two elements – is a direct way to construct a plane while simultaneously creating surface imagery. Integration of structure and surface provides the foundation for exploration with a focus on the development of constructed form to create compositional fields. Students are introduced to weaving on the four-shaft floor loom through the study of basic weave structures, fiber types, dye processes and yarn composition. The predictability of loom-controlled weaves is complicated with the exploration of hand dyed yarns and a variety of weaver-controlled techniques including tapestry, brocade and inlay. Study of the global, historic and contemporary position of weaving as an artistic discipline occurs through readings, presentations and class discussions. Overall, emphasis is placed on the development of a strong technical language to further expression with an awareness of from where materials and techniques come. In this intensive hands-on class, students produce both experimental compositions and finished works. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 25400 CERAMICS I 3 Credit Hours
An introduction to the use of clay as applied to the design and construction of utilitarian and sculptural forms. Major emphasis is on developing hand building skills and wheel throwing techniques. Instruction in the basic understanding of clay bodies, glazes, decoration and firing of high-fire stoneware ceramics.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

ARTS 25600 INTRODUCTION TO GLASS WORKING 3 Credit Hours
Introduction to studio glass through technique and brief history. Both basic glass blowing and glass casting techniques and problems are covered.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 25700 INTRODUCTION TO JEWELRY METALS 3 Credit Hours
Introduction to basic jewelry and metalsmithing techniques including cold connection, sheet fabrication, forming and finishing. Emphasis on advancing design skills and critical analysis. Exposure to historical and contemporary works.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34002 FIGURE DRAWING 3 Credit Hours
(Repeatable for credit) Extensive studio practice of traditional and contemporary approaches to the human figure. Critical analysis of the figure from the Renaissance through postmodernism. Students work from a nude model.
Prerequisite: ARTS 24002.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34003 DRAWING: STRUCTURE AND EXPERIMENTATION 3 Credit Hours
(Repeatable for credit) Extensive exploration of advanced drawing concepts and ideas as strategies for experimentation with process and materials.
Prerequisite: ARTS 24002.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34043 INTAGLIO 3 Credit Hours
(Repeatable for credit) This class is designed to give the intermediate student an overview of various intaglio processes in relationship to contemporary art practice. During this hands-on studio experience, students will apply principles and techniques taught in class into the evolution of their own personal aesthetics. The resulting visual statements will combine those principles, techniques, and aesthetics with ideas and conceptual content.
Prerequisite: ARTS 24040.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34044 SCREENPRINT 3 Credit Hours
(Repeatable for credit) This class is designed to give the intermediate student an overview of screenprint techniques in relationship to contemporary art practice. During this hands-on studio experience, students will apply principles and techniques taught in class into the evolution of their own personal aesthetics. The resulting visual statements will combine those principles and aesthetics with ideas and conceptual content.
Prerequisite: ARTS 24040.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34045 LITHOGRAPHY 3 Credit Hours
(Repeatable for credit) This class is designed to give the intermediate student an overview of various lithographic processes in relationship to contemporary art practice. During this hands-on studio experience, students will apply principles and techniques taught in class into the evolution of their own personal aesthetics. The resulting visual statements will combine those principles and aesthetics with ideas and conceptual content.
Prerequisite: ARTS 24040.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34050 LIFE MODELING 3 Credit Hours
(Repeatable for maximum of 6 credit hours) Traditional life modeling course in which students work almost exclusively from observation. The focus is on developing skills with clay, understanding the human form, understanding proportions, learning how to make armatures as well as developing a personal and expressive way of approaching the figure.
Prerequisite: ARTS 24051.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34051 SCULPTURAL OBJECT 3 Credit Hours
Course builds on ARTS 24051 with a greater emphasis on content, proficiency, technical expertise, craftsmanship and understanding of contemporary sculpture. Students explore the object in space, delineating issues of scale, materiality, representation, abstraction, metaphor and hybridity. Drawing on historical, aesthetic and technical strategies of generating and understanding sculpture, students are guided toward the realization of more sophisticated and complex ways of handling materials and incorporating meaning. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work, engendering a better understanding of how sculpture is situated within the context of culture and society at large. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.
Prerequisite: ARTS 24051.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34052 TIME ARTS 3 Credit Hours
This interdisciplinary course investigates the fundamentals of time-based media and its intersection with sculptural practice. Students build on concepts from ARTS 24051 to gain a broader understanding of multiple methods of making including performance, video, site and situation-specific works, as well as the use of traditional sculptural materials. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work engendering a better understanding of how sculpture is situated within the contemporary art world. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.
Prerequisite: ARTS 24051.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34053 SITE AND INSTALLATION 3 Credit Hours
This interdisciplinary course builds on concepts introduced in ARTS 24051, and expands on a variety of approaches in developing site-specific installations by considering the relationship between object/context, public/private, interior/exterior and urban/rural. Through the manipulation of materials, found objects and time-based media, students are introduced to concepts of space, intention, site and intervention through experimental approaches. Students further develop an understanding of material and context through in-depth readings, lectures and critical dialogue. Sculptural techniques, performance, photography and video art are covered and incorporated into the course. Studio time is supplemented by readings, lectures and site visits around campus.
Prerequisite: ARTS 24051.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34061 INTERMEDIATE PAINTING 3 Credit Hours
Continuation of painting from observation with an introduction to oil paints and mediums. Students will look outside of the still life at various subjects including spatial dynamics, the figure, and abstracted imagery. Introduction to oil painting tools, processes, and best studio practices.
Prerequisite: ARTS 24061.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34062 PAINTING STRATEGIES: PROCESS AND CONTENT 3 Credit Hours
This course focuses on conceptual prompts relative to contemporary issues to encourage a variety of processes and material approaches to making paintings. Students continue the idea of building a painting through the iterative process of making, analyzing, and editing their work throughout the semester. The painting is a live surface, a place to collect and record information, and this course insists that students consider a wide range of formal and conceptual choices to best address content. Each project will be initiated with rigorous research and further supported by exposure to visual examples of historic and contemporary painting, readings, written responses, seminar-style discussions, and numerous critiques of both in-progress and finished work.
Prerequisite: ARTS 34061.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 34063 PAINTING STRATEGIES: IMAGE AND CONTENT 3 Credit Hours
This course investigates various contemporary painting strategies through the use of images as source materials, with a strong emphasis on narrative. Moving away from direct observation and towards the abstraction of imagery, students will be asked to approach their practice through research, preliminary studies and sketches, and a self-driven investigation of the use of images to create concept. Various prompts will be assigned and are designed to provide students with a stronger understanding of the use of found, self-produced, or appropriated imagery as reference for their work, while helping each student build a direction for their painting practice. We will look to other mediums such as film, photography, collage, and advertising to inform the painted image and improve the reading of contemporary painting. We will look to other mediums to better contextualize the painted image in contemporary art.
Prerequisite: ARTS 34061.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35095 STUDIO ART: SPECIAL TOPICS 3 Credit Hours
(Repeatable for credit) Specialized courses in studio art that focus on specific techniques and media.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35302 FELTMAKING 3 Credit Hours
Felt is an anti-fabric. Unique among textiles, feltmaking is the only method of cloth construction that wholly denies the grid. Through hands-on intensives and independent research, students engage the unique attributes of feltmaking through planar, pictorial and dimensional outputs. Felt's relationship to conceptual art, post-modernist sculpture, kitsch and camp are explored alongside the study of its social and cultural position within the global history of textiles. Material and technical vocabularies are framed through course texts, presentations and critical discussions. Students output studies and realized works which engage felt as an artistic medium. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35305 TEXTILES: ACCESSORIES - DESIGN AND PRODUCTION 3 Credit Hours
Focus is on the design and production of textile accessories using the structural process of weaving. Texture, material, and color are critically and creatively considered in relation to the development of unique functional objects. Professional design objectives are presented.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35310 OFF-LOOM 3 Credit Hours
This course focuses on the architectural aspects of interlacement. Moving off the loom, students construct with thread, yarn and other long flexible materials to transform line into planar or sculptural form. Explorations engage space and the pliability of textiles to emphasize the physical and tactile aspects of the materials and construction methods inherent to fiber. Processes such as plaiting, netting, knotting, looping, wrapping, coiling, ropemaking and basketry provide a foundational vocabulary in the exploration of dimensional textiles. The use of traditional materials are combined with found materials to further engage the question of material meaning. Students approach the sensibilities of weaving outside of highly technologized looms by working with direct and accessible tools to find freedom in the pursuit of experimental form. These material and technical vocabularies are framed through course texts, presentations and critical discussions. Students output studies and realized works which engage relief, sculpture and space. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35311 PRINT FOR TEXTILES AND ALTERNATIVE SURFACES 3 Credit Hours
As a holistic exploration of printed textiles, this course presents a range of processes for printing on cloth and alternative substrates. The use of inks, dyes, resists, discharges and additional chemical processes are introduced and explored. Students create hand-drawn, computer generated and photographic images to explore foundational print vocabularies such as block printing, mono printing, screen printing, multiples, color relationships, composition, repeat patterns, color layering, CMYK and experimental alternative processes. The relevance of printed textiles in the expanded field of contemporary art is emphasized. Interdisciplinary and experimental uses of the printed surface are encouraged throughout the development of personal research and practice. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35312 DIGITAL TEXTILES 3 Credit Hours
With connections to technology and industry, textile practices employ digital platforms to speculate form and simulate materiality. Building off these techno-industrial strategies, students engage hybrid making that moves between the screen and material to imagine textile futures. Workshops present a digital textile vocabulary encompassing digital design, repeat and pattern layouts and material simulation. Student work is output through digital fabrication resources at the DI HUB. Coursework considers practices that engage textiles across experiential and technological platforms in contemporary art and design. Essential to this inquiry, students participate in critical discussions of core texts alongside their own making. Studio production engages digital design and outsourced fabrication. This work yields studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35313 BACKSTRAP WEAVING 3 Credit Hours
This rhizomatic potential of weaving is exemplified with backstrap weaving where looms are constructed and altered freely according to the improvisational vision of the weaver. Working from this orientation, this course engages the fluidity of the backstrap loom to transgress binary thinking, and further integrate skill building alongside conceptual development. Students combine traditional and experimental materials with the exploration of four-selvedge cloth, brocade and double cloth to develop a rigorous vocabulary. Visual, pictorial, architectural, sculptural, performative and nomadic practices are explored in a polynary pursuit of weaving. Making occurs in concert with the study of woven cosmologies that predate the modernist lineage. Studio production oscillates between generating material vocabularies and self-directed making workshopped through regular critiques. This coursework considers weaving expansively to disrupt dominant paradigms that define textility through technological and social binaries. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35316 DYE AND COLOR 3 Credit Hours
Color is a uniquely slippery element that can shift before our eyes just as it inflects social, political and emotional meaning upon the visual world. In this course, dyes are an interface to explore the formal and conceptual possibilities of color. Students are introduced to natural and synthetic dye technologies, and develop vocabulary in immersion dyeing, direct application of dyes, dye resists and dye discharges. Alongside material outputs, students investigate the social, economic and historic position of dyes and dyestuffs. Consideration of color as a source of content is a primary point of focus. Coursework includes studio activity, critical discussion of core texts and individualized research. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: Accessories minor or School of Art major or School of Fashion major or Textiles minor.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35400 FUNCTIONAL APPROACHES TO CLAY 3 Credit Hours
(Repeatable for credit) Intermediate ceramics course focused on creating functional pottery utilizing the wheel and hand building. A range of techniques are demonstrated to build skills and understanding of pottery making, design, function, surface decoration and the concept of made forms. Students learn how to make clay and glazes from dry materials as well as how to fire a gas kiln.
Prerequisite: ARTS 25400.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35401 SCULPTURAL APPROACHES IN CLAY 3 Credit Hours
(Repeatable for credit) An intermediate course focusing on all aspects of sculptural ceramics. Course may include explorations in three-dimensional form, the human figure, mold making, multiples and installation.
Prerequisite: ARTS 25400.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35602 FLAMEWORKED GLASS 3 Credit Hours
(Repeatable for credit) An investigation of techniques, tools, equipment and materials involved in glass lampworking processes. The course covers basic melting, shaping and blowing with a glass flameworking torch.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35603 GLASS BLOWING 3 Credit Hours
(Repeatable for credit) Further exploration of glass blowing techniques. Design, form, color and execution are emphasized.
Prerequisite: ARTS 25600.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35604 SCULPTURAL AND KILN-FORMED GLASS 3 Credit Hours
(Repeatable for credit) An overview and exploration of sculptural and kiln-formed glass techniques. Casting, pattern making, mold making and cold construction are covered. Design, form, content and technical execution and understanding operations of equipment are emphasized.
Prerequisite: Junior standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35700 JEWELRY CONCEPTS AND TECHNIQUES 3 Credit Hours
An in-depth exploration of jewelry making techniques such as enameling, casting, stone setting, mechanisms and fabrication. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.
Prerequisite: ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35701 METALSMITHING CONCEPTS AND TECHNIQUES 3 Credit Hours
Course offers an in-depth exploration of larger scale fabrication, mechanisms, chasing and repoussé and hammer working techniques (raising, forging and shell forming). Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.
Prerequisite: ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 35704 ENAMELING CONCEPTS AND TECHNIQUES 3 Credit Hours
(Repeatable for credit) An in-depth exploration of vitreous enameling techniques on two-dimensional surfaces. Champlevé, cloisonné and sifted enamel approaches are highlighted. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.
Prerequisite: ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44002 ADVANCED DRAWING FOR ALL DISCIPLINES 3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 54002) An advanced drawing course, open to all studio disciplines, with an emphasis on students pursuing individually conceived problems in close consultation one-on-one with faculty.
Prerequisite: ART 30001; and ARTS 24002.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44010 ADVANCED FINE ART PHOTOGRAPHY 3 Credit Hours
Combined studio/lecture course offering more advanced, conceptual approaches to the contemporary applications of photographic imaging for artists. Students work with larger scale printing formats, more involved research and greater depth of involvement with the photographic medium.
Prerequisite: ARTS 24010 and ART 30001.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44011 DIGITAL FINE ART PHOTOGRAPHY 3 Credit Hours
(Slashed with ARTS 54011) Students develop their technical and conceptual skills in fine art digital photography, and develop a contemporary approach to working with the medium. Students explore various photographic and digital techniques, and form an awareness of such techniques in contemporary photography.
Prerequisite: Minimum C grade in ART 10022.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

ARTS 44043 ADVANCED PRINT MEDIA 3 Credit Hours
(Repeatable for maximum 9 credit hours) Advanced printmaking course with emphasis on students producing new, individually conceived visual works in print media in close consultation with faculty.
Prerequisite: ART 30001; and ARTS 34043 or ARTS 34044 or ARTS 34045.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44045 ART OF THE BOOK 3 Credit Hours
(Slashed with ARTS 54045) An introduction to artists' books. A variety of binding methods and strategies for creating art through alternative and traditional book forms are introduced. Students complete projects and develop a personal visual language through the book form.
Prerequisite: Junior standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44046 PAPERMAKING 3 Credit Hours
(Slashed with ARTS 54046) This course introduces students to both traditional and experimental uses of handmade paper. This course combines presentations, demonstrations, group brainstorming sessions, field trips and critiques to apply towards papermaking projects. An artist research presentation and final presentation are required to encourage students to engage in outside resources and self reflect on semester-long growth. Papermaking techniques include but are not limited to: European sheet formation, pulp pigmenting, pulp painting, stenciling, embedding, paper casting and sheet wrapping. Paper fibers incorporated in this course include but are not limited to: abaca, cotton, flax and mulberry. Both two-dimensional and three-dimensional approaches to papermaking are explored. Exploration and experimentation are encouraged with equal demands on craft.
Prerequisite: Junior standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44051 ADVANCED SCULPTURAL PRACTICE 3 Credit Hours
(Repeatable for credit) Course is self-directed, in which students create a series of sculptural works in consultation with the instructor and through ongoing student-led presentations, discussions and in-progress and final critiques. Emphasis is on creating a body of work throughout the semester that is informed by and demonstrates an awareness of contemporary practice in terms of approaches to content, form and presentation. Students can work in a variety of ways: object making, installation, site-based and/or time-based approaches. Research and writing are emphasized. Readings, slide presentations, discussions and critiques help provide context and vocabulary for student development.
Prerequisite: ART 30001 and ARTS 24051; and ARTS 34051 or ARTS 34052 or ARTS 34053.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44060 ADVANCED PAINTING: PRACTICE AND THEORY 3 Credit Hours
(Repeatable for credit) Advanced painting course with an emphasis on pursuing individually conceived problems in close consultation with faculty.
Prerequisite: ART 30001; and ARTS 34061; and ARTS 34062 or ARTS 34063.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44070 DIGITAL FABRICATION IN STUDIO ART 3 Credit Hours
(Slashed with ARTS 54070) This course is an introduction to digital fabrication technologies as they relate to a studio practice. Mastery of software skills enables one to better explore object-making as a medium of personal expression. In addition to technical skills, the course will introduce relationships between form, subject matter, and content. Projects will include technical and conceptual problem solving, design lessons, object making and short student lead initiatives to connect to maker spaces and industries that can support future making. Instructor facilitated discussions between students will form a community of mutual learning.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 44091 VARIABLE CONTENT SEMINAR: STUDIO ART 3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 54091) Contemporary issues related to visual arts are explored through presentation, lecture, and discussion. Guest speakers augment staff.
Prerequisite: Junior or senior standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTS 44096 INDIVIDUAL STUDY: STUDIO ART 1-6 Credit Hours
(Repeatable for credit) Additional study in area of student's choice in consultation with advisor.
Prerequisite: ART 30001; and a major in Studio Art; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 2-12 other
Grade Mode: Standard Letter

ARTS 44098 RESEARCH IN STUDIO ART (ELR) 1-3 Credit Hours
(Repeatable for credit) Studio research in the visual arts.
Prerequisite: Junior or senior standing.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ARTS 44192 INTERNSHIP OR PRACTICUM IN STUDIO ART (ELR) 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 54192) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts, and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on the significance of the experience.
Prerequisite: A major in the School of Art; junior or senior standing; and special approval of faculty sponsor.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ARTS 45080 KENT BLOSSOM ART 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 55080) Studio exploration of selected concepts in studio art: painting; drawing; sculpture and expanded media; print media and photography; ceramics; glass; jewelry, metals and enameling; textiles. Content varies with each section offered.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter-IP

ARTS 45089 INTERNATIONAL EXPERIENCE: STUDIO ART (DIVG) (ELR) 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 55089) A Kent State faculty-led study abroad experience in studio art that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Studio Art major; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

ARTS 45090 STUDY AWAY: STUDIO ART (ELR) 1-3 Credit Hours
(Slashed with ARTS 55090)(Repeatable for credit) Study away in studio art disciplines at a site at or away from Kent State University.
Prerequisite: Studio Art major.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

ARTS 45095 SPECIAL TOPICS: STUDIO ART 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 55095) Specialized courses in studio art that focus on specific techniques and media.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter

ARTS 45098 SENIOR THESIS RESEARCH AND PROPOSAL (ELR) 1 Credit Hour
(Repeatable for credit) Preparatory course, which acts as an exploratory period for students to develop their ideas - conceptually, thematically and materially - through research, writing and physical material studies. Upon successful completion, students may continue with ARTS 45099.
Prerequisite: Major in Studio Art; senior standing; and special approval.
Schedule Type: Research
Contact Hours: 1.6 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

ARTS 45099 SENIOR THESIS EXHIBITION (ELR) 3 Credit Hours
This course prepares students for the challenges of a creative professional practice in their chosen discipline. As the culmination of undergraduate studies, the course serves as a capstone experience for students in their chosen concentration. Provides students an opportunity to independently develop and create a body of work for exhibition and oral review with faculty. Requires the completion of an undergraduate thesis and professional caliber photo documentation of the exhibition.
Prerequisite: ART 30001; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ARTS 45300 JACQUARD: DIGITAL WEAVING 3 Credit Hours
(Slashed with ARTS 55300)(Repeatable for credit) The digitally interfaced jacquard goes beyond the limitations of the floor loom, allowing for direct control of individual threads to enable image materialization. Incorporating mediation and handwork, students explore the historical and conceptual interstices of digital technology, weaving and picture-making. This advanced course investigates the tensions between digital interfaces and material outputs while engaging their cooperative possibilities. Inquiries into the implications of aesthetics, skill and technology are explored alongside the relationship of cloth and image. A vocabulary of woven constructions, patterns, colors and textures are developed using the digital jacquard loom. Coursework incorporates the computer, handweaving, reading, research and critical dialogue. A personal laptop computer is required for this course. We reclaim the jacquard as a hand loom to articulate form that can only emerge through the confrontation and synthesis of body and technology. The weaver embodies the cyborg. Students who do not meet the prerequisites may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: ARTS 45314 or ARTS 45351; and junior standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45301 TEXTILES: ADVANCED STUDIO 3 Credit Hours
Structured time for individual investigations in textiles. Emphasis on self-designed study. Bi-weekly presentations of contemporary work in textiles and weekly discussions or critiques with open studio.
Prerequisite: ART 30001; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45307 TEXTILES: WEAVING AND COLOR 3 Credit Hours
(Slashed with ARTS 55307) This course will provide students with an opportunity to explore numerous techniques that emphasize the interaction of color in relation to the unique interlacement process of weaving. Use of different looms (including the floor and frame) will provide the means to integrate color with patterns and image in the connection of warp and weft. Immersion dyeing will be introduced along with specialized direct dye application methods.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45308 TEXTILE ARTS AND GENDER 3 Credit Hours
(Slashed with ARTS 55308) Textile Arts and Gender is designed as an exploratory learning experience. Through weekly readings and discussions, students will engage with historical and contemporary ideas of how textiles relate to gender and how this informs contemporary textile art practice. Simultaneously, students will be learning textile art techniques chosen because of their close association with historical notions of the feminine, the decorative, and the domestic. Students will also study the contemporary use of these same techniques in textile works that explore the concepts of gender, feminism, and subversion.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45314 PRACTICES IN WEAVING: TAPESTRY 3 Credit Hours
(Slashed with ARTS 55314)(Repeatable for credit) This intensive studio course considers tapestry expansively as an interface through which weaving contributes to aesthetics and meaning according to its own logic and history. Woven form is realized in collaboration with the tectonic grid of the loom, yielding a unique relationship to image-making; the structural surface and the image it bears are one and the same. Working with multi-harness floor looms, students engage this question through rigorous material explorations. Vocabulary is expanded through the study of double cloth, discontinuous/supplementary wefts and dye processes. The position of weaving as a progenitor of abstraction and the role of color as a catalyst for meaning are essential points of inquiry. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. This work considers the practice of weaving as an expansive playground to complicate the paradigms of contemporary art with textility. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: ARTS 25310.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45351 PRACTICES IN WEAVING: LOOM-THINKING 3 Credit Hours
(Slashed with ARTS 55351)(Repeatable for credit) This intensive studio course focuses on weaving and its relationship to the evolving landscape of contemporary art. Working with multi-harness floor looms, students engage rigorous questions in imagery, sculptural form and spatial intervention. Vocabulary is expanded through the study of complex woven constructions, hand and digital drafting and dye processes. Emphasis is placed on developing fluency with the language and logic of the loom. Here, students enter the space of "loom-thinking" to create, mutate, subvert and interrupt weave drafts and thread interlacements in the production of woven form. Through their developing technical virtuosity, students push the algorithmic sensibility of weaving toward visual and material poetics. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. This work considers the practice of weaving as an expansive playground to complicate the paradigms of contemporary art with textility. Students who do not meet the prerequisite may register for the course with special approval. Please speak to an advisor for more information.
Prerequisite: ARTS 25310.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45400 ADVANCED CERAMICS 3 Credit Hours
(Repeatable for credit) Course is designed to assist and guide students in developing their own personal art practice, concepts and skills using the ceramic medium. Personal research and critical thinking are emphasized during class discussions and critiques.
Prerequisite: ART 30001; and ARTS 35400 or ARTS 35401.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45600 ADVANCED GLASS WORKING 3 Credit Hours
(Repeatable for credit) Individual exploration of sculptural and hot glass techniques. Design, form, content and execution strongly emphasized. Introduction to studio facility design, construction and maintenance.
Prerequisite: ART 30001; and two of the following courses: ARTS 35602, ARTS 35603 and ARTS 35604.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45700 JEWELRY DESIGN AND PRODUCTION 3 Credit Hours
Course examines strategies and techniques to effectively enter the jewelry field. Industrial applications to produce multiples, research into specialized markets and packaging of work are addressed. Design and professional practice skills are emphasized.
Prerequisite: ARTS 35700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45705 CAD FOR JEWELRY 3 Credit Hours
(Slashed with ARTS 55705) Students develop a set of comprehensive computer-aided design (CAD) skills to be utilized in a variety of studies such as sculpture design, jewelry making and many others. CAD skills are developed through the investigation of laser cutting, 3D modeling, project planning and 3D printing. Mastery of these techniques enable students to better explore object-making as a medium of personal expression. Although there are many technical components to learn, the instructor also focuses on the relationship between form, subject matter and content.
Prerequisite: ART 30001 and ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45707 CONTEMPORARY APPROACHES IN METALSMITHING 3 Credit Hours
Course introduces students to current trends in the creation of metalsmithed objects. "Materialsmithing", new technologies and industrial applications are joined with historically important metalsmithing principles in the ideation and creation of new works. Research and conceptual development are emphasized.
Prerequisite: ART 30001 and ARTS 35701.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 45708 BODY ORNAMENTATION 3 Credit Hours
(Slashed with ARTS 55708)(Repeatable for credit) Course addresses the expanding theories and techniques used to adorn the body within jewelry metals and enamel. New technologies, material exploration and contemporary practices in adornment are presented. Conceptual development and research are emphasized.
Prerequisite: ARTS 25700.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54002 ADVANCED DRAWING FOR ALL DISCIPLINES 3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 44002) An advanced drawing course, open to all studio disciplines, with an emphasis on students pursuing individually conceived problems in close consultation one-on-one with faculty.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54011 DIGITAL FINE ART PHOTOGRAPHY 3 Credit Hours
(Slashed with ARTS 44011) Students develop their technical and conceptual skills in fine art digital photography, and develop a contemporary approach to working with the medium. Students explore various photographic and digital techniques and form an awareness of such techniques in contemporary photography.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

ARTS 54045 ART OF THE BOOK 3 Credit Hours
(Slashed with ARTS 44045) An introduction to artists' books. A variety of binding methods and strategies for creating art through alternative and traditional book forms are introduced. Students complete projects and develop a personal visual language through the book form.
Prerequisite: Master of Arts degree or Master of Fine Arts degree; and graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54046 PAPERMAKING 3 Credit Hours
(Slashed with ARTS 44046) This course introduces students to both traditional and experimental uses of handmade paper. This course combines presentations, demonstrations, group brainstorming sessions, field trips and critiques to apply towards papermaking projects. An artist research presentation and final presentation are required to encourage students to engage in outside resources and self reflect on semester-long growth. Papermaking techniques include but are not limited to: European sheet formation, pulp pigmenting, pulp painting, stenciling, embedding, paper casting and sheet wrapping. Paper fibers incorporated in this course include but are not limited to: abaca, cotton, flax and mulberry. Both two-dimensional and three-dimensional approaches to papermaking are explored. Exploration and experimentation are encouraged with equal demands on craft.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54070 DIGITAL FABRICATION IN STUDIO ART 3 Credit Hours
(Slashed with ARTS 44070) This course is an introduction to digital fabrication technologies as they relate to a studio practice. Mastery of software skills enables one to better explore object-making as a medium of personal expression. In addition to technical skills, the course will introduce relationships between form, subject matter, and content. Projects will include technical and conceptual problem solving, design lessons, object making, and short student lead initiatives to connect to makerspaces and industries that can support future making. Instructor facilitated discussions between students will form a community of mutual learning.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 54091 VARIABLE CONTENT SEMINAR: STUDIO ART 3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 44091) Contemporary issues related to visual arts are explored through presentation, lecture and discussion. Guest speakers augment staff.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTS 54192 INTERNSHIP OR PRACTICUM IN STUDIO ART 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 44192) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts, and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on the significance of the experience.
Prerequisite: A major in the School of Art; and graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

ARTS 55080 KENT BLOSSOM ART 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 45080) Studio exploration in the visual arts, including ceramics, drawing, glass, jewelry-metals-enameling, painting, print media and photography, sculpture and expanded media and textiles.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter-IP

ARTS 55089 INTERNATIONAL EXPERIENCE: STUDIO ART 1-3 Credit Hours
(Repeatable for credit) (Slashed with ARTS 45089) A Kent State faculty-led study abroad experience in studio art that integrates traditional classroom learning with experiential activities and site visits outside the United States.
Prerequisite: Studio Art major; and graduate standing; and special approval.
Schedule Type: International Experience, Lecture
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTS 55090 STUDY AWAY: STUDIO ART 1-3 Credit Hours
(Slashed with ARTS 45090)(Repeatable for credit) Study away in studio art disciplines at a site at or away from Kent State University.
Prerequisite: Studio Art major; and graduate standing.
Schedule Type: Study Away
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARTS 55095 STUDIO ART: SPECIAL TOPICS 1-6 Credit Hours
(Repeatable for credit) (Slashed with ARTS 45095) Specialized courses in studio art that focus on specific techniques and media.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter

ARTS 55300 JACQUARD: DIGITAL WEAVING 3 Credit Hours
(Slashed with ARTS 45300)(Repeatable for credit) The digitally interfaced jacquard goes beyond the limitations of the floor loom, allowing for direct control of individual threads to enable image materialization. Incorporating mediation and handwork, students explore the historical and conceptual interstices of digital technology, weaving and picture-making. This advanced course investigates the tensions between digital interfaces and material outputs while engaging their cooperative possibilities. Inquiries into the implications of aesthetics, skill and technology are explored alongside the relationship of cloth and image. A vocabulary of woven constructions, patterns, colors and textures are developed using the digital jacquard loom. Coursework incorporates the computer, handweaving, reading, research and critical dialogue. A personal laptop computer is required for this course. We reclaim the jacquard as a hand loom to articulate form that can only emerge through the confrontation and synthesis of body and technology. The weaver embodies the cyborg.
Prerequisite: Studio Art major; and graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55307 TEXTILES: WEAVING AND COLOR 3 Credit Hours
(Slashed with ARTS 45307) This course will provide students with an opportunity to explore numerous techniques that emphasize the interaction of color in relation to the unique interlacement process of weaving. The use of different looms (including the floor and frame) will provide the means to integrate color with patterns and image in the connection of warp and weft. Immersion dyeing will be introduced along with specialized direct dye application, methods.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55308 TEXTILE ARTS AND GENDER 3 Credit Hours
(Slashed with ARTS 55308) Textile Arts and Gender is designed as an exploratory learning experience. Through weekly readings and discussions, students will engage with historical and contemporary ideas of how textiles relate to gender and how this informs contemporary textile art practice. Simultaneously, students will be learning textile art techniques chosen because of their close association with historical notions of the feminine, the decorative, and the domestic. Students will also study the contemporary use of these same techniques in textile works that explore the concepts of gender, feminism and subversion.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55314 PRACTICES IN WEAVING: TAPESTRY 3 Credit Hours
(Slashed with ARTS 45314)(Repeatable for credit) This intensive studio course considers tapestry expansively as an interface through which weaving contributes to aesthetics and meaning according to its own logic and history. Woven form is realized in collaboration with the tectonic grid of the loom, yielding a unique relationship to image-making; the structural surface and the image it bears are one and the same. Working with multi-harness floor looms, students engage this question through rigorous material explorations. Vocabulary is expanded through the study of double cloth, discontinuous/supplementary wefts and dye processes. The position of weaving as a progenitor of abstraction and the role of color as a catalyst for meaning are essential points of inquiry. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. This work considers the practice of weaving as an expansive playground to complicate the paradigms of contemporary art with textility.
Prerequisite: Studio Art major; and graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55351 PRACTICES IN WEAVING: LOOM-THINKING 3 Credit Hours
(Slashed with ARTS 45351)(Repeatable for credit) This intensive studio course focuses on weaving and its relationship to the evolving landscape of contemporary art. Working with multi-harness floor looms, students engage rigorous questions in imagery, sculptural form and spatial intervention. Vocabulary is expanded through the study of complex woven constructions, hand and digital drafting and dye processes. Emphasis is placed on developing fluency with the language and logic of the loom. Here, students enter the space of “loom-thinking” to create, mutate, subvert and interrupt weave drafts and thread interlacements in the production of woven form. Through their developing technical virtuosity, students push the algorithmic sensibility of weaving toward visual and material poetics. Critical discussion of core texts and individualized research occur in tandem with studio activity. Students produce studies and fully realized artworks developed through in-process discussions and presented in formal critique settings. This work considers the practice of weaving as an expansive playground to complicate the paradigms of contemporary art with textility.
Prerequisite: Studio Art major; and graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55705 CAD FOR JEWELRY 3 Credit Hours
(Slashed with ARTS 45705) Students develop a set of comprehensive computer-aided design (CAD) skills to be utilized in a variety of studies such as sculpture design, jewelry making and many others. CAD skills are developed through the investigation of laser cutting, 3D modeling, project planning and 3D printing. Mastery of these techniques enable students to better explore object-making as a medium of personal expression. Although there are many technical components to learn, the instructor also focuses on the relationship between form, subject matter and content.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 55708 BODY ORNAMENTATION 3 Credit Hours
(Slashed with ARTS 45708)(Repeatable for credit) Course addresses the expanding theories and techniques used to adorn the body within jewelry metals and enamel. New technologies, material exploration and contemporary practices in adornment are presented. Conceptual development and research are emphasized.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ARTS 64000 GRADUATE SEMINAR I: STUDIO ART 3 Credit Hours
(Repeatable for credit) This graduate seminar intends to bring together graduate students working across disciplines to facilitate their participation in creating a framework for understanding the practice of art-making in relation to the contemporary global and cultural terrain.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

ARTS 64001 GRADUATE SEMINAR II: STUDIO ART 3 Credit Hours
(Repeatable for credit) This graduate seminar is an advanced course which intends to bring together graduate students working across disciplines to facilitate their participation in creating a framework for understanding the practice of art-making in relation to the contemporary global and cultural terrain.
Prerequisite: ARTS 64000; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARTS 64040 GRADUATE STUDIO: PRINT MEDIA AND PHOTOGRAPHY I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Print Media and Photography concentration.
Prerequisite: Print media and photography concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64041 GRADUATE STUDIO: PRINT MEDIA AND PHOTOGRAPHY II 1-9 Credit Hours
(Repeatable for credit) Advance research-based, hands-on studio course providing a context for individual creative projects in the Print Media and Photography concentration.
Prerequisite: ARTS 64040; and print media and photography concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64050 GRADUATE STUDIO: SCULPTURE AND EXPANDED MEDIA I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Sculpture and Expanded Media concentration.
Prerequisite: Sculpture and expanded media concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64051 GRADUATE STUDIO: SCULPTURE AND EXPANDED MEDIA II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects in the Sculpture and Expanded Media concentration.
Prerequisite: ARTS 64050; and sculpture and expanded media concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64060 GRADUATE STUDIO: DRAWING AND PAINTING I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Drawing and Painting concentration.
Prerequisite: Drawing or painting concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64061 GRADUATE STUDIO: DRAWING AND PAINTING II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects in the Drawing or Painting concentration.
Prerequisite: ARTS 64060; and painting or drawing concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 64096 INDIVIDUAL INVESTIGATION STUDIO ART 1-3 Credit Hours
(Repeatable for credit) Independent study in studio art.
Prerequisite: Master of Art or Master of Fine Arts degree in the School of Art; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

ARTS 64098 RESEARCH IN STUDIO ART 1-15 Credit Hours
(Repeatable for credit) Studio research in the visual arts.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter

ARTS 65095 STUDIO ART: ADVANCED SPECIAL TOPICS 1-6 Credit Hours
(Repeatable for credit) Advanced specialized courses in studio art that focus on specific techniques and media.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 2-12 other
Grade Mode: Standard Letter

ARTS 65300 GRADUATE STUDIO: TEXTILES I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Textiles concentration.
Prerequisite: Textiles concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65301 GRADUATE STUDIO: TEXTILES II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Textiles concentration.
Prerequisite: ARTS 65300; and textiles concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65400 GRADUATE STUDIO: CERAMICS I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Ceramics concentration.
Prerequisite: Ceramics concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65401 GRADUATE STUDIO: CERAMICS II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Ceramics concentration.
Prerequisite: ARTS 65400; and Ceramics concentration in the Studio Art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65600 GRADUATE STUDIO: GLASS I 1-9 Credit Hours
(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Glass concentration.
Prerequisite: Glass concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65601 GRADUATE STUDIO: GLASS II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Glass concentration.
Prerequisite: ARTS 65600; and glass concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65700 GRADUATE STUDIO: JEWELRY, METALS, ENAMELING I 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Jewelry, Metals, Enameling concentration.
Prerequisite: Jewelry, metals and enameling concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65701 GRADUATE STUDIO: JEWELRY, METALS, ENAMELING II 1-9 Credit Hours
(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Jewelry, Metals, Enameling concentration.
Prerequisite: ARTS 65700; and jewelry, metals and enameling concentration in the studio art major; and graduate standing.
Schedule Type: Studio
Contact Hours: 2-18 other
Grade Mode: Standard Letter-IP

ARTS 65991 SEMINAR IN STUDIO ART 1-3 Credit Hours
(Repeatable for credit) Contemporary issues and professional concerns in studio art explored through presentations, lectures, and discussion. Graduate faculty and guest speakers.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Accessories - Minor

College of the Arts
School of Art
www.kent.edu/art

About This Program

The Accessories minor gives students an opportunity to focus on the design and production of innovative and unique objects within the studio areas of jewelry, metals and textiles, which leads to the development of functional, decorative and wearable forms.

Contact Information

- **Andrew Kuebeck** | akuebeck@kent.edu | 330-672-2910
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the

A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ARTS 25700	INTRODUCTION TO JEWELRY METALS	3
Jewelry and Metals Electives, choose from the following:		6
ARTS 35700	JEWELRY CONCEPTS AND TECHNIQUES	
ARTS 35704	ENAMELING CONCEPTS AND TECHNIQUES [1]	
ARTS 45080	KENT BLOSSOM ART [2]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [2]	
ARTS 45700	JEWELRY DESIGN AND PRODUCTION	
ARTS 45705	CAD FOR JEWELRY	
ARTS 45708	BODY ORNAMENTATION [3]	
Textile Art Electives, choose from the following:		9
ARTS 25310	FOUNDATIONS IN WEAVING	
ARTS 35302	FELTMAKING	
ARTS 35305	TEXTILES: ACCESSORIES - DESIGN AND PRODUCTION	
ARTS 35310	OFF-LOOM	
ARTS 35311	PRINT FOR TEXTILES AND ALTERNATIVE SURFACES	
ARTS 35312	DIGITAL TEXTILES	
ARTS 35313	BACKSTRAP WEAVING	
ARTS 35316	DYE AND COLOR	
ARTS 45080	KENT BLOSSOM ART [2]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [2]	
ARTS 45300	JACQUARD: DIGITAL WEAVING [4]	
ARTS 45307	TEXTILES: WEAVING AND COLOR	
ARTS 45308	TEXTILE ARTS AND GENDER	
ARTS 45314	PRACTICES IN WEAVING: TAPESTRY [5]	
ARTS 45351	PRACTICES IN WEAVING: LOOM-THINKING [6]	
Minimum Total Credit Hours:		**18**

1. Maximum 6 credit hours of ARTS 35704 may be applied toward minor requirements.
2. ARTS 45080 and ARTS 45095 may be used with approval from a faculty or academic advisor.
3. Maximum 6 credit hours of ARTS 45708 may be applied toward minor requirements.
4. Maximum 6 credit hours of ARTS 45300 may be applied toward minor requirements.
5. Maximum 9 credit hours of ARTS 45314 may be applied toward minor requirements.
6. Maximum 9 credit hours of ARTS 45351 may be applied toward minor requirements.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Create work within textile arts, jewelry, metals and enameling, and understand associated materials, processes and applications.
2. Discuss larger contemporary and historical contexts within the creation of accessories, wearables and works for the body or domestic space.
3. Demonstrate design and visual literacy in their work.

Art Education - B.F.A.

College of the Arts
School of Art
www.kent.edu/art

About This Program

Earn your B.F.A. in Art Education and become a dynamic pre-K-12 visual arts educator! Our program blends hands-on studio practice with learner-centered teaching, equipping you with the skills to inspire creativity in diverse classrooms. You'll master traditional and digital media; explore art history and aesthetics; and develop inclusive, engaging instructional strategies. With a strong focus on cultural awareness, student development and creative expression, you'll graduate ready to create meaningful and transformative learning experiences through art. Read more...

Contact Information

- **Linda Hoeptner-Poling** | lhoeptne@kent.edu | 330-672-7895
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- High school teachers in traditional, special needs and technical schools, plus museums, community and enrichment programs
- Middle school teachers in traditional, special needs and technical schools, plus museums, community and enrichment programs
- Preschool and elementary teachers in traditional, special needs and technical schools, plus museums, community and enrichment programs

Accreditation

National Association of Schools of Art and Design (NASAD)

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) (min C grade required in all courses)		
ART 10022	2D COMPOSITION	3
ART 10023	3D COMPOSITION	3
ART 10024	DIGITAL MEDIA	3
ARTE 31001	ART EDUCATION: FOUNDATIONS AND CONCEPTS - ELEMENTARY	3
ARTE 31092	ART EDUCATION :TEACHING PRACTICUM (ELR)	3
ARTE 41002	ART EDUCATION: FOUNDATIONS AND CONCEPTS - SECONDARY (ELR)	3
ARTE 41004	PRE-KINDERGARTEN-12 DESIGN EDUCATION	3
ARTE 41009	ART EDUCATION MAJOR REVIEW	1
ARTE 41192	ART EDUCATION: FIELD EXPERIENCE (ELR) (WIC) [1]	3
ARTE 41525	ART EDUCATION: INQUIRY INTO PROFESSIONAL PRACTICE	3
ARTE 41592	ART EDUCATION: STUDENT TEACHING AND SEMINAR (ELR)	9
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ARTH 32066	ART AND THEORY SINCE 1940	3
ARTS 14000	DRAWING I	3
ARTS 14001	DRAWING II	3
ARTS 24010	INTRODUCTION TO FINE ART PHOTOGRAPHY	3
or ARTS 44011	DIGITAL FINE ART PHOTOGRAPHY	
ARTS 24040	INTRODUCTION TO PRINT MEDIA	3
ARTS 24061	INTRODUCTION TO PAINTING	3
ARTS 25400	CERAMICS I	3
ARTS 34061	INTERMEDIATE PAINTING	3
Art (ART), Art Education (ARTE), Art History (ARTH) or Studio Art (ARTS) Elective		1-3
Art (ART), Art Education (ARTE), Art History (ARTH) or Studio Art (ARTS) Upper-Division Elective (30000 or 40000 level)		3
Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
Additional Requirements (courses do not count in major GPA)		
CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD (min C grade)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10001	FLASHES 101	1
Kent Core Composition (min C grade)		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Progression Requirements

- Students must meet all professional requirements for admission to advanced study. Students will meet with an academic advisor to discuss the application for advanced study.
- Students must have a minimum 2.500 overall GPA and 2.500 major GPA for admission to advanced study, student teaching and graduation.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Students must receive a rating of "satisfactory" on selected works exhibited during their portfolio review.
- Students must complete over 120 field hours through a variety of teaching experiences (i.e., when they are out in schools or other educational settings) within their teacher education program.
- Student must satisfy all professional disposition assessments at least three times throughout their teacher education program, which includes student teaching. Professional dispositions are the professional attitudes, values and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, faculty and communities.
- Students must pass ARTE 41009, a course that examines the student's knowledge, proficiency and ability to apply concepts in art and visual arts education.
- Students must pass the Kent Summative Teacher Education Project (K-STEP) designed to develop and evaluate their ability to plan for instruction, use instructional strategies and assess student learning during their final student teaching experience.
- Students must successfully complete student teaching, the culminating experience in the preparation of the student teacher candidate.
- ARTH 12001 is designed for non-art majors, and will not fulfill major requirements for art majors.

Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. The following Ohio Assessment for Educators (OAE) examinations are required for licensure: OAE 004, the visual art content assessment; and OAE 006, the pre-K-12 multi-age visual arts pedagogy assessment. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged, but not required.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	ART 10022	2D COMPOSITION	3
	ARTS 14000	DRAWING I	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	ART 10023	3D COMPOSITION	3
!	ARTE 31001	ART EDUCATION: FOUNDATIONS AND CONCEPTS - ELEMENTARY	3
	ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
	ARTS 14001	DRAWING II	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Three		
	Required: minimum 2.500 GPA		
	ARTE 31092	ART EDUCATION :TEACHING PRACTICUM (ELR)	3
	ARTS 24061	INTRODUCTION TO PAINTING	3
	ARTS 25400	CERAMICS I	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
		Credit Hours	**18**
	Semester Four		
	Required: minimum 2.500 GPA		
	ART 10024	DIGITAL MEDIA	3
	ARTE 41004	PRE-KINDERGARTEN-12 DESIGN EDUCATION	3
	ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	Required: minimum 2.500 GPA		
!	ARTE 41002	ART EDUCATION: FOUNDATIONS AND CONCEPTS - SECONDARY (ELR)	3
	ARTS 24010 or ARTS 44011	INTRODUCTION TO FINE ART PHOTOGRAPHY or DIGITAL FINE ART PHOTOGRAPHY	3
	ARTS 24040	INTRODUCTION TO PRINT MEDIA	3
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
	Required: minimum 2.500 GPA and admission to advanced study		
!	ARTE 41192	ART EDUCATION: FIELD EXPERIENCE (ELR) (WIC)	3
	ARTH 32066	ART AND THEORY SINCE 1940	3
	ARTS 34061	INTERMEDIATE PAINTING	3
	Art (ART), Art Education (ARTE), Art History (ARTH) or Studio Art (ARTS) Elective		1-3
	Kent Core Requirement		3
		Credit Hours	**13**
	Semester Seven		
	Required: minimum 2.500 GPA		
!	ARTE 41009	ART EDUCATION MAJOR REVIEW	1
!	CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
	ETEC 39525	EDUCATIONAL TECHNOLOGY	3
	Art (ART), Art Education (ARTE), Art History (ARTH) or Studio Art (ARTS) Upper-Division Elective (30000 or 40000 level)		3
	Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Eight		
	Required: minimum 2.500 GPA		
!	ARTE 41525	ART EDUCATION: INQUIRY INTO PROFESSIONAL PRACTICE	3

ARTE 41592	ART EDUCATION: STUDENT TEACHING AND SEMINAR (ELR)	9
	Credit Hours	**12**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Construct lesson plans that reflect learner-centered pedagogy that is culturally responsive, inclusive and developmentally appropriate.
2. Incorporate the use of evidence-based instructional strategies, resources and instructional technology as part of the learning activities aligned with goals, objectives and/or standards in the lesson plans.
3. Apply evidence-based instruction to meet a diversity of students'needs.
4. Practice reflective teaching in the classroom to accommodate all students using effective strategies, resources, materials and accommodations to adapt instruction to meet the needs of individuals and groups of students.
5. Implement formative and summative assessments that align conceptually to the lesson objectives and are designed to be appropriate to address individual student differences and minimize bias.
6. Demonstrate professional#teaching dispositions.
7. Apply creative, technical, procedural and interpretive skills through a range of studio art and design experiences.

Program Policies

Dual Degree/Double Major

School of Art

Students are permitted to double major in more than one division of the School of Art or complete more than one concentration in the same division.

1. Students enrolling in more than one major within the school must complete all course requirements in each major. If the two majors represent different degree programs, a minimum of 140 credit hours must be completed.
2. Students enrolling in a double concentration within the B.F.A. program must complete at least 12 upper-division credit hours within each concentration. In addition, all reviews must be passed and a senior project must be completed in each concentration.

A student taking a second major in art history must complete the language requirement. The program requirements for a double major must be approved in advance in writing by either the director or the division coordinator and become a part of the student's permanent file.

The Hugh A. Glauser School of Music

The Bachelor of Music, Bachelor of Arts degree in Music and the Bachelor of Science degree in Music Technology programs can be combined with approval by the faculty and director of the School of Music. In addition, double majors and more than one concentration within a major can be approved by the faculty and director of the School of Music.

Exhibitions

Students enrolled in a B.F.A. or B.A. program in studio art, and in the B.F.A. in art education, must receive a rating of "satisfactory" on selected works exhibited during their portfolio review.

No-Credit Courses

Some courses do not generate credit within particular programs. ARTH 12001 does not generate credit for majors within the School of Art, but can be used to fulfill Kent Core requirements. Check course descriptions carefully for more information.

Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

Requirements for Admission to Advanced Study for Art Education and Music Education

Admission to advanced study is required of all art education and music education majors and minors prior to enrolling in upper-division education courses. Upon completion of coursework, as determined by program area, students should have satisfied the prerequisites for admission to advanced study. Students must submit an application for advanced study by the second Friday of the term during which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite. Students at the Kent Campus apply for Advanced Study through the College of Education, Health and Human Services Student Portal, which can be accessed through the Vacca Office of Student Services web page. Students completing a licensure program at a regional campus should check with that campus for instructions on how to apply for "Advanced Study." Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to teacher licensure. Please be aware that reapplication may be necessary if postponing advanced study coursework or if withdrawn for one year or more.

Requirements for Admission to Advanced Study for Art Education and Music Education

- College Writing: Students are required to attain a minimum C grade in each writing courses (ENG 11011 and ENG 21011 or equivalent).
- Pre-Advanced Study Coursework: To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and a minimum C grade in one of the following courses (please note that a minimum C grade must be earned in all of the four courses for teacher licensure programs):
  - EPSY 29525
  - SPED 23000
- Grade Point Average:
  - Art Education majors must have earned a minimum 2.500 cumulative GPA in order to be admitted to Advanced Study.
  - Music Education majors must have earned a minimum 2.500 cumulative GPA and a minimum 2.750 major GPA at the time of application in order to be admitted to Advanced Study.
- Disposition Assessment/Professional Disposition Plans (PDPs): Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.
- Advising Appointment: Art Education and Music Education students should make an advising appointment with a professional advisor in the Vacca Office of Student Services (or Regional Campus advising office if completing the program at that campus) for information about applying for Advanced Study and educator licensure. Advising appointments at the Kent Campus are made through the Vacca Office of Student Services' website at www.kent.edu/ehhs/services/voss.
- Teacher Candidate Acknowledgments and Legal Questions for Licensure: Candidates are required to electronically sign four statements acknowledging that they have read and understand the following areas: background check requirements; professional dispositions; licensure application information; legal questions asked on the licensure application. Statements can be found on the student portal.

Transfer Students to the School of Art

Transfer students with more than two studio art courses should submit a portfolio of work for proper placement. The director of the School of Art may impose additional requirements considered reasonable and necessary. Transfer credits are evaluated consistent with the state Transfer Articulation Guidelines (TAG), although each student will be evaluated individually in terms of their ability to perform within the program. Transfer students should make every effort to complete admission requirements before the deadlines and see an advisor in the School of Art for an evaluation of the portfolio and schedule planning before registration.

Full Description

The Bachelor of Fine Arts degree in Art Education prepares students to effectively teach visual art by applying a learner-centered pedagogy to embrace the many dimensions of human intelligence and aesthetic education.

Art educators understand child development to successfully engage learners in the complete artistic process of thinking—perceptual, imaginative, formative, expressive and communicative—by combining a range of subject matter, symbols and ideas. They organize and evaluate teaching activities for creating and analyzing works of art and design from contemporary and past cultures. This involves using a variety of media, technology and community resources and making connections between visual art and other disciplines, as well as assessing the learning outcomes of their students.

In addition, art educators are prepared to meet the needs of all students with an understanding of the value of diversity. They create safe and equitable learning environments in which to nurture lifelong skills in problem solving, critical thinking, collaboration, creativity and constructing meaning.

Graduates of the degree program will be eligible to be certified for pre-K-12 visual art teacher licensure.

Study Abroad/Away Opportunities:

- Travel opportunities to New York City and Paris
- Study abroad through Kent State's Florence program in Florence, Italy (full semester or summer art and design experience)
- Ohio Art Education Association and National Art Education Association Travel Studies

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Art Education - M.A.

College of the Arts
School of Art
www.kent.edu/art

About This Program

The Master of Arts degree in Art Education provides opportunities for those with a background in art education to develop a focused competence in the visual arts, as well as an intellectual understanding of the history and current issues of the field of art education. Students study quantitative and qualitative approaches to research.

Contact Information

- **Andrew Kuebeck** | akuebeck@kent.edu | 330-672-2192
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Applications to the M.A. in Art Education are not being accepted at this time.

Examples of Possible Careers and Salaries*

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Self-enrichment teachers

- 10.3% much faster than the average
- 386,200 number of jobs
- $39,960 potential earnings

Additional Careers

- Visual arts teachers
- Preschool, elementary, middle school and high school teachers in traditional, special needs and technical schools, in addition to museums and community and enrichment programs

Accreditation

National Association of Schools of Art and Design (NASAD)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.A. in Art Education are not being accepted at this time.

- Bachelor's degree from an accredited college or university[1]
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement that focuses on the philosophy of art education
- Portfolio
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] Preference is given to the applicant holding a B.A., B.F.A. or B.S. degree in Art Education.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ARTE 51004	PRE-KINDERGARTEN-12 DESIGN EDUCATION [1]	3
ARTE 61101	RESEARCH SEMINAR IN ART EDUCATION	3
ARTE 61191	SEMINAR IN ART EDUCATION I	3
ARTE 61291	SEMINAR IN ART EDUCATION II	3
Art History (ARTH) Elective [2]		3
Studio Art (ARTS) Elective [2]		3
Art History (ARTH) or Studio Art (ARTS) or Art Education (ARTE) Electives [2]		6
Culminating Requirement		
Thesis or Capstone, choose from the following:		6
ARTE 61399	ART EDUCATION: GRADUATE PROJECT CAPSTONE [3]	
and Guided Elective [4]		
ART 67199	M.A.THESIS I [5]	
Minimum Total Credit Hours:		**30**

[1] Students who completed ARTE 41004 as an undergraduate will consult with their faculty advisor on the elective course to take as a replacement for this requirement.

[2] Students select elective courses in consultation with their program advisor based on research interests.

[3] ARTE 61399 is appropriate for students in contexts in which research can be completed as part of their own practice, in most cases in their own art classrooms or other educational venues. The course involves research, which focuses on participant/researcher studies in curriculum, classroom settings, grant implementation and/or community-based projects. Students articulate and refine knowledge, reflective practice (including critical self-reflection) and develop goals to improve practice or further understanding of phenomena within the field of art education.

[4] Students who select the project capstone as their culminating requirement will take an additional, guided elective, based on their research interest, to meet the 30 credit hours for the degree.

[5] The thesis is a significant project or body of work done independently of other coursework. Students are expected to demonstrate the ability to conduct research or produce a significant, original project in a discriminating and disciplined manner. The thesis topic should be one that will further the student's knowledge and ability in the specialty by demonstrating skill as a researcher. The outcome should be an effort that serves as a foundation for the pursuit of independent work when the graduate program is completed. At this stage, students are expected to work in close consultation with their thesis advisor.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the breadth of theoretical, philosophical, historical and pedagogical issues in visual arts education instruction and curriculum.
2. Articulate how issues that foster positive social change are inherent in the field and are constructed within wider frameworks of culture and society.
3. Understand the purposes, functions and value of teaching art and design in PreK-12 educational settings.
4. Understand and refine the application of art and general education research methodology, methods and procedures.
5. Demonstrate advanced comprehension of self-identified topics through conducting detailed research investigation.

Art History - B.A.

College of the Arts
School of Art
www.kent.edu/art

About This Program

Discover the beauty and significance of art with the Art History program. Our bachelor's degree provides a comprehensive education in the history and theory of art, preparing you for a wide range of careers in the arts and humanities. With a curriculum that spans cultures and time periods — as well opportunities for internships, study abroad and research with faculty experts in their fields — you will develop a deep understanding of the power of art and its impact on society. Read more...

Contact Information

- **Gustav Medicus** | gmedicus@kent.edu | 330-672-1364
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Archivists

- 7.9% faster than the average
- 8,100 number of jobs
- $56,760 potential earnings

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Curators

- 12.6% much faster than the average
- 14,500 number of jobs
- $56,990 potential earnings

Museum technicians and conservators

- 11.6% much faster than the average
- 14,800 number of jobs
- $45,710 potential earnings

Property appraisers and assessors

- 2.9% slower than the average
- 75,100 number of jobs
- $58,650 potential earnings

Accreditation

National Association of Schools of Art and Design (NASAD)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment

over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer students with more than two studio courses should submit a portfolio of work for proper placement. The director of the School of Art may impose additional requirements considered reasonable and necessary. Transfer credits are evaluated consistent with the state Transfer Articulation Guidelines (TAG), although each student will be evaluated individually in terms of their ability to perform within the program. Transfer students should make every effort to complete admission requirements before the deadlines and to see an advisor in the School of Art for an evaluation of the portfolio and for schedule planning before registration.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ARTH 22010	INTRODUCTION TO ASIAN ART (DIVG)	3
ARTH 22021	ART HISTORY: AFRICAN ART (DIVG) (KFA)	3
ARTH 32000	RESEARCH AND WRITING IN ART HISTORY (WIC) [1]	3
ARTH 42001	ART HISTORY METHODOLOGIES	3
Art (ART) or Studio Art (ARTS) Electives		6
Art History (ARTH) Upper-Division Electives (30000 or 40000 level)		18
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Language Electives, choose from the following: [2]		14
AFS 20101	KISWAHILI III	
AFS 20102	KISWAHILI IV	
Any American Sign Language (ASL) course		
Any Arabic (ARAB) course		
Any Chinese (CHIN) course		
Any French (FR) course		
Any German (GER) course		
Any Greek (GRE) course		
Any Hebrew (HEBR) course		
Any Italian (ITAL) course		
Any Japanese (JAPN) course		
Any Latin (LAT) course		
Any Russian (RUSS) course		
Any Spanish (SPAN) course		
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
Minor Requirements and General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [3]		36
Minimum Total Credit Hours:		**120**

1. A minimum C grade must be earned to fulfill the writing-intensive requirement.
2. Students must complete one language through the intermediate II level. If students are placed in or test out of the intermediate II level, they may take another language or general electives to fulfill the remaining requirements. Students seeking information on placement options should visit the Foreign Language Placement policy.
3. Students may elect an established minor or a block of approved courses chosen in consultation with an advisor in lieu of an established minor. Students not choosing a minor must have all their coursework approved in writing by the School of Art and the College of the Arts.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
UC 10001	FLASHES 101	1
Language Elective		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
Art (ART) or Studio Art (ARTS) Elective		3
Language Elective		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
ARTH 22021	ART HISTORY: AFRICAN ART (DIVG) (KFA)	3
Art (ART) or Studio Art (ARTS) Elective		3
Language Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
ARTH 22010	INTRODUCTION TO ASIAN ART (DIVG)	3
ARTH 32000	RESEARCH AND WRITING IN ART HISTORY (WIC)	3
Language Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
Art History (ARTH) Upper-Division Electives (30000 or 40000 level)		6
Minor Requirements and General Electives		6
Kent Core Requirement		3
	Credit Hours	**15**
Semester Six		
Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
Minor Requirements and General Electives		12
	Credit Hours	**15**
Semester Seven		
ARTH 42001	ART HISTORY METHODOLOGIES	3
Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
Minor Requirements and General Electives		9
	Credit Hours	**15**
Semester Eight		
Art History (ARTH) Upper-Division Electives (30000 or 40000 level)		6
Minor Requirements and General Electives		9
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a comprehensive understanding of art from a range of historic and cultural traditions.
2. Observe, describe and interpret art objects, events and concepts within their cultural context.
3. Engage with a variety of methodologies and theories relevant to different fields of art history.
4. Demonstrate an advanced level of written and/or oral analysis.
5. Become engaged citizens of a global community and recognize the role of art and cultural production as they foster communities, reflect identities and understand social systems.

Program Policies
Dual Degree/Double Major
School of Art

Students are permitted to double major in more than one division of the School of Art or complete more than one concentration in the same division.

1. Students enrolling in more than one major within the school must complete all course requirements in each major. If the two majors represent different degree programs, a minimum of 140 credit hours must be completed.
2. Students enrolling in a double concentration within the B.F.A. program must complete at least 12 upper-division credit hours within each concentration. In addition, all reviews must be passed and a senior project must be completed in each concentration.

A student taking a second major in art history must complete the language requirement. The program requirements for a double major must be approved in advance in writing by either the director or the division coordinator and become a part of the student's permanent file.

The Hugh A. Glauser School of Music

The Bachelor of Music, Bachelor of Arts degree in Music and the Bachelor of Science degree in Music Technology programs can be combined with approval by the faculty and director of the School of Music. In addition, double majors and more than one concentration within a major can be approved by the faculty and director of the School of Music.

No-Credit Courses

Some courses do not generate credit within particular programs. ARTH 12001 does not generate credit for majors within the School of Art, but can be used to fulfill Kent Core requirements. Check course descriptions carefully for more information.

Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

Transfer Students to the School of Art

Transfer students with more than two studio art courses should submit a portfolio of work for proper placement. The director of the School of Art may impose additional requirements considered reasonable and necessary. Transfer credits are evaluated consistent with the state Transfer Articulation Guidelines (TAG), although each student will be evaluated individually in terms of their ability to perform within the program. Transfer students should make every effort to complete admission requirements before the deadlines and see an advisor in the School of Art for an evaluation of the portfolio and schedule planning before registration.

Full Description

The Bachelor of Arts degree in Art History provides students with an understanding of major art and cultural achievements across historical periods, geographic regions and significant movements. The program fosters visual literacy, critical thinking, creative problem-solving and research development and writing competencies. Students are prepared for careers in non-profit and art organizations, graduate study in art history or museum studies and lifelong advocacy for the arts.

Study Abroad/Study Away Opportunities:

- Travel to New York and Paris
- Study Abroad in Florence, Italy, either for a full semester or a summer

Art History - M.A.

College of the Arts
School of Art
www.kent.edu/art

About This Program

The Master of Arts degree in Art History offers a range of perspectives on art, theory and cultural production across historical periods, geographic regions and significant movements. When specializing in one area for the thesis, students may choose to focus in periods and genres related to faculty research and expertise.

Contact Information

- **Andrew Kuebeck** | akuebeck@kent.edu | 330-672-2192
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Archivists

- 7.9% faster than the average
- 8,100 number of jobs
- $56,760 potential earnings

Curators

- 12.6% much faster than the average
- 14,500 number of jobs
- $56,990 potential earnings

Additional Careers

- Art history at the high school and introductory college survey level
- Museum registrars and museum technicians
- Property appraisers and assessors as part of auction houses, art galleries and antique shop businesses

Accreditation

National Association of Schools of Art and Design (NASAD)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Curriculum vitae
- Goal statement (approximately 250 words) indicating the proposed area of specialization within the art history curriculum
- Three letters of recommendation from persons who are in the proposed area of study or a closely related field
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: February 1

Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ARTH 52001	ART HISTORY METHODOLOGIES	3
ARTH 62091	ART HISTORY SEMINAR (repeated each semester)	12
Art History (ARTH) Graduate Electives		11
Culminating Requirement		
ART 67199	M.A.THESIS I [1]	6
Minimum Total Credit Hours:		**32**

[1] The thesis is a significant project or body of work done independently of other coursework. Students are expected to demonstrate the ability to conduct research or produce a significant, original project in a discriminating and disciplined manner. The thesis topic should be one that will further the student's knowledge and ability in the specialty by demonstrating skill as a researcher or studio artist. The outcome should be an effort that serves as a foundation for the pursuit of independent work when the graduate program is completed. At this stage, students are expected to work in close consultation with their thesis advisor.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- A reading knowledge of a language other than English is required.
- Successful completion of the Candidacy Review Examination is a requirement in every School of Art graduate program. In the Art History major, the examination is given in the third semester of full-time coursework. Successful completion of the examination designates the student as a candidate for the degree.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a comprehensive understanding of art from a range of historic and cultural traditions.
2. Observe, describe and interpret art objects, events and concepts within their cultural context.
3. Engage with a variety of methodologies and theories relevant to different fields of art history.
4. Demonstrate an advanced level of written and oral analysis.
5. Demonstrate advanced research skills and knowledge in a particular artist, collection, period or movement through the thesis.
6. Access and utilize relevant primary and secondary source material in diverse formats, including digital technology.

7. Become engaged citizens of a global community and recognize the role of art and cultural production as they foster communities, reflect identities and understand social systems.

Art History - Minor

College of the Arts
School of Art
www.kent.edu/art

About This Program

The Art History minor introduces students to major works in the history of art and to the analytical and critical methods of the art historian.

Contact Information

- **Gustav Medicus** | gmedicus@kent.edu | 330-672-1364
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Art History (ARTH) Upper-Division Electives (30000 or 40000 level)		9
Survey Course Electives, choose from the following:		9
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	
ARTH 22010	INTRODUCTION TO ASIAN ART (DIVG)	
ARTH 22021	ART HISTORY: AFRICAN ART (DIVG) (KFA)	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a comprehensive understanding of art from a range of historic and cultural traditions.
2. Observe, describe and interpret art objects, events and concepts within their cultural context.
3. Engage with a variety of methodologies and theories relevant to different fields of art history.

Ceramics - Minor

College of the Arts
School of Art
www.kent.edu/art

About This Program

The Ceramics minor is designed to encourage students from all areas of the university to explore working creatively with clay. Students may explore making functional pots and sculptural objects using a variety of wheel throwing and hand-building techniques, or they may choose to work sculpturally in conjunction with other methods of creating three-dimensional objects. Flexibility in the curriculum affords students the opportunity to design a program intended to meet individual needs and freedom of expression.

Contact Information

- **Peter Johnson** | pjohns35@kent.edu | 330-672-3360
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ARTS 25400	CERAMICS I	3
ARTS 35400	FUNCTIONAL APPROACHES TO CLAY	3
ARTS 35401	SCULPTURAL APPROACHES IN CLAY	3
Clay Electives, choose from the following:		9
ART 10023	3D COMPOSITION	
or ARTS 24051	INTRODUCTION TO SCULPTURAL PRACTICE	
ARTS 45080	KENT BLOSSOM ART [1]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [1]	
ARTS 45400	ADVANCED CERAMICS	
Minimum Total Credit Hours:		**18**

[1] ARTS 45080 and ARTS 45095 may be used with approval from a faculty or academic advisor.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Identify ceramic material and the mechanics of working with clay through the creation of wheel-thrown and hand-built pottery.
2. Demonstrate craftsmanship through a refinement of form, technical ability and attention to detail.
3. Identify ceramics firing processes at an intermediate level.
4. Perform ceramic glazing techniques at an intermediate level.

Drawing - Minor

College of the Arts
School of Art
www.kent.edu/art

About This Program

The Drawing minor provides an introduction to fundamental form, pictorial structure and media through work from observation and conceptual projects. Emphasis in the minor is on students' continued development in drawing toward individually conceived creative practice.

Contact Information

- **Darice Polo** | dpolo@kent.edu | 330-672-2249
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ART 10022	2D COMPOSITION	3
ARTS 14000	DRAWING I	3
ARTS 14001	DRAWING II	3
Studio Art Electives, choose from the following:		9
ARTS 24002	DRAWING AS A STUDIO PRACTICE	
ARTS 34002	FIGURE DRAWING [1]	
ARTS 34003	DRAWING: STRUCTURE AND EXPERIMENTATION [1]	
ARTS 45080	KENT BLOSSOM ART [2]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [2]	
Minimum Total Credit Hours:		**18**

[1] Repeatable for a maximum of 6 credit hours.
[2] May be used with approval from a faculty or academic advisor.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the ability (skill) to work within their chosen medium/media, and understand associated materials and processes.

2. Demonstrate an understanding of larger contemporary and historical contexts.
3. Demonstrate a high degree of design and visual literacy in their work.

Glass - Minor

College of the Arts
School of Art
www.kent.edu/art

About This Program

The Glass minor is designed to encourage students from all areas of the university to explore working creatively with glass. Students can take coursework in glassblowing, flameworking and kiln-formed glass, which creates a platform for broad understanding of the material and creative forces at play in the medium. Flexibility in the curriculum provides students with choices to design a program to meet individual needs and freedom of expression.

Contact Information

- **Davin Ebanks** | debanks@kent.edu | 330-672-9314
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ARTS 25600	INTRODUCTION TO GLASS WORKING	3
Minor Electives, choose from the following:		6
ART 10023	3D COMPOSITION	
ARTS 24051	INTRODUCTION TO SCULPTURAL PRACTICE	
ARTS 25400	CERAMICS I	
Studio Art Electives, choose from the following:		9
ARTS 35602	FLAMEWORKED GLASS	
ARTS 35603	GLASS BLOWING	
ARTS 35604	SCULPTURAL AND KILN-FORMED GLASS	
ARTS 45080	KENT BLOSSOM ART [1]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [1]	
ARTS 45600	ADVANCED GLASS WORKING	
Minimum Total Credit Hours:		**18**

[1] ARTS 45080 and ARTS 45095 may be used with approval from a faculty or academic advisor.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Create a variety of traditional vessel forms in glass.
2. Learn fundamentals of hot sculpting using a torch.
3. Learn how to use molds in the hot glass working process.
4. Perform cold-working and finishing techniques in the cold shop.
5. Effectively anneal glass which results in structurally sound sculptures.

Jewelry, Metals and Enameling - Minor

College of the Arts
School of Art
www.kent.edu/art

About This Program

The Jewelry, Metals and Enameling minor focuses on approaches to jewelry making and metalsmithing, while allowing students to achieve specialization. Students achieve such skills as cold connection techniques, small and medium scaled silver soldering, small jewelry- and object-making techniques, small scale fabrication, forming, cold forging and tool-making techniques.

Contact Information

- **Andrew Kuebeck** | akuebeck@kent.edu | 330-672-2910
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ARTS 25700	INTRODUCTION TO JEWELRY METALS	3
ARTS 35700	JEWELRY CONCEPTS AND TECHNIQUES	3
ARTS 35701	METALSMITHING CONCEPTS AND TECHNIQUES	3
ARTS 35704	ENAMELING CONCEPTS AND TECHNIQUES [1]	3
Minor Electives, choose from the following:		6
ARTS 35704	ENAMELING CONCEPTS AND TECHNIQUES [1]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [2]	
ARTS 45700	JEWELRY DESIGN AND PRODUCTION	
ARTS 45705	CAD FOR JEWELRY	
ARTS 45707	CONTEMPORARY APPROACHES IN METALSMITHING	
ARTS 45708	BODY ORNAMENTATION [3]	
Minimum Total Credit Hours:		**18**

[1] Maximum 6 credit hours of ARTS 35704 may be applied toward minor requirements.

[2] ARTS 45095 may be used with approval from a faculty or academic advisor.

[3] Maximum 6 credit hours of ARTS 45708 may be applied toward minor requirements.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate jewelry, metalsmithing and enameling skills.
2. Analyze jewelry, metalsmithing and enameling within a contemporary art lens.
3. Demonstrate design skills for the creation of art jewelry and metalsmithed objects.

Painting - Minor

College of the Arts

School of Art
www.kent.edu/art

About This Program

The Painting minor is an introduction to fundamental image-making and the use of form in painting through working from observation and conceptual projects. Emphasis in the minor is on students' continued development in painting towards self-initiated creative practice.

Contact Information

- **Gianna Commito** | gcommito@kent.edu | 330-672-7536
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ART 10022	2D COMPOSITION	3
ARTS 14000	DRAWING I	3
ARTS 24061	INTRODUCTION TO PAINTING	3
Studio Art Electives, choose from the following:		9
ARTS 34061	INTERMEDIATE PAINTING	
ARTS 34062	PAINTING STRATEGIES: PROCESS AND CONTENT	
or ARTS 34063	PAINTING STRATEGIES: IMAGE AND CONTENT	
ARTS 44060	ADVANCED PAINTING: PRACTICE AND THEORY	
or ARTS 45080	KENT BLOSSOM ART	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [1]	
Minimum Total Credit Hours:		**18**

[1] May be used with approval from a faculty or academic advisor.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the ability (skill) to work within their chosen medium/media, and understand associated materials and processes.
2. Demonstrate an understanding of larger contemporary and historical contexts.
3. Demonstrate a high degree of design and visual literacy in their work.

Print Media and Photography - Minor

College of the Arts
School of Art
www.kent.edu/art

About This Program

The Print Media and Photography minor provides an introduction to printmaking and fine art photography. Students can pursue a study in traditional printmaking techniques such as intaglio, silkscreen and lithography, as well as digital applications. Students can also pursue a study in photography, including traditional darkroom and film alternative photographic techniques and fine art digital photography. Synergies between these two historically related disciplines provide ample room for experimentation and a course of study designed specifically to suit students' interests.

Contact Information

- **Taryn McMahon** | tmcmaho5@kent.edu | 330-672-2839
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Accreditation

National Association of Schools of Art and Design

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ARTS 24010	INTRODUCTION TO FINE ART PHOTOGRAPHY	3
or ARTS 24040	INTRODUCTION TO PRINT MEDIA	
Minor Electives, choose from the following:		6
ART 10022	2D COMPOSITION	
ART 10024	DIGITAL MEDIA	
ARTS 14000	DRAWING I	
Printmaking and Photography Electives, choose from the following:		9
ARTS 24010	INTRODUCTION TO FINE ART PHOTOGRAPHY	
ARTS 24040	INTRODUCTION TO PRINT MEDIA	
ARTS 34043	INTAGLIO	
ARTS 34044	SCREENPRINT	
ARTS 34045	LITHOGRAPHY	
ARTS 44010	ADVANCED FINE ART PHOTOGRAPHY	
ARTS 44011	DIGITAL FINE ART PHOTOGRAPHY	
ARTS 44043	ADVANCED PRINT MEDIA	
ARTS 44045	ART OF THE BOOK	
ARTS 44046	PAPERMAKING	
Minimum Total Credit Hours:		**18**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the ability to work within printmaking, book arts and photography and understand associated materials, processes and applications.
2. Demonstrate an understanding of larger contemporary and historical contexts within the creation of print and photography.
3. Demonstrate a high degree of design and visual literacy in their work.

Sculpture and Expanded Media - Minor

College of the Arts
School of Art
www.kent.edu/art

About This Program

The Sculpture and Expanded Media minor offers students a wide range of approaches, strategies and techniques to making dimensional and spatial work. Students learn to fabricate sculptural objects utilizing techniques in clay, plaster, wood, metal and non-traditional materials. In addition, they are exposed to and learn to work in expanded media formats, such as installation art and time-based practices (video, sound, performance).

Contact Information

- **Isabel Farnsworth** | ifarnswo@kent.edu | 330-672-6452
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ART 10023	3D COMPOSITION	3
ARTS 24051	INTRODUCTION TO SCULPTURAL PRACTICE	3
Sculpture and Expanded Media Electives, choose from the following:		12
ARTS 34050	LIFE MODELING	
ARTS 34051	SCULPTURAL OBJECT	
ARTS 34052	TIME ARTS	
ARTS 34053	SITE AND INSTALLATION	
ARTS 44051	ADVANCED SCULPTURAL PRACTICE	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [1]	
Minimum Total Credit Hours:		**18**

[1] ARTS 45095 may be used with approval from a faculty or academic advisor.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Create three-dimensional artwork that demonstrates problem solving skills, craftsmanship and personal conceptual development.
2. Demonstrate competency working with both traditional and non-traditional sculptural materials.
3. Evaluate three-dimensional artwork using formal, conceptual and historical understanding.

Studio Art - B.A.

College of the Arts
School of Art
www.kent.edu/art

About This Program

The Bachelor of Arts in Studio Art program offers a comprehensive curriculum that combines traditional and contemporary art practices. With expert guidance from faculty, you will develop your skills and creativity in painting, sculpture, drawing and more, preparing you for a variety of careers in the arts. Read more...

Contact Information

- **Taryn McMahon** | tmcmaho5@kent.edu | 330-672-2839
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Examples of Possible Careers and Salaries*

Artists and related workers, all other

- -0.2% little or no change
- 13,100 number of jobs
- $65,800 potential earnings

Fine artists, including painters, sculptors, and illustrators

- 1.0% slower than the average
- 28,300 number of jobs
- $52,340 potential earnings

Accreditation

National Association of Schools of Art and Design (NASAD)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer students to the program who meet the general transfer admission requirements should schedule a meeting with the academic advisor in the School of Art and submit a portfolio to a studio art faculty member to review for proper course placement. The faculty member may specify additional requirements considered reasonable and necessary. Transfer credits are evaluated consistent with the state-wide Transfer Articulation Guides (TAG), although each student will be evaluated individually in terms of his or her ability to perform in the program. Transfer students should make every effort to complete admission requirements before the deadlines and to schedule a portfolio review with before registration.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ART 10022	2D COMPOSITION	3
ART 10023	3D COMPOSITION	3
ART 10024	DIGITAL MEDIA	3
ART 30001	COMMON REVIEW [1]	1
ART 40099	B.A. STUDIO ART CAPSTONE (ELR) (WIC) [2]	3
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ARTH 32066	ART AND THEORY SINCE 1940	3
ARTS 14000	DRAWING I	3
Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
Studio Art (ARTS) Upper-Division Electives (30000 or 40000 level) [3]		18
Foundations Electives, choose from the following:		12
ARTS 14001	DRAWING II	
ARTS 24002	DRAWING AS A STUDIO PRACTICE	
ARTS 24010	INTRODUCTION TO FINE ART PHOTOGRAPHY	
ARTS 24040	INTRODUCTION TO PRINT MEDIA	
ARTS 24051	INTRODUCTION TO SCULPTURAL PRACTICE	
ARTS 24061	INTRODUCTION TO PAINTING	
ARTS 25310	FOUNDATIONS IN WEAVING	
ARTS 25400	CERAMICS I	
ARTS 25600	INTRODUCTION TO GLASS WORKING	
ARTS 25700	INTRODUCTION TO JEWELRY METALS	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		31
Minimum Total Credit Hours:		**120**

[1] Selected upper-division Studio Art courses (ARTS 30000 or 40000 level) may be taken without first successfully completing ART 30001. At the completion of seven specific courses (ART 10022, ART 10023, ART 10024, ARTH 22007, ARTS 14000 and two of the four foundations electives), students register for ART 30001 and submit a portfolio of representative studio work selected from these courses to a studio art faculty committee for review. An examination of knowledge of art history also will be included. Incoming transfer students are expected to provide examples of foundational coursework equivalent to School of Art requirements for ART 30001. The review is a formative

assessment of the student's foundations work including a digital portfolio, installation of sampling of works and proficiency in written and oral critical thinking.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

3 A maximum 3 credit hours of ARTS 45090 may be applied toward Studio Art Electives. Students may apply this course toward fulfilling general electives, with no maximum credit hours required.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- ARTH 12001 is designed for non-art majors, and will not fulfill major requirements for art majors.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ART 10022	2D COMPOSITION	3
ART 10024	DIGITAL MEDIA	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ARTS 14000	DRAWING I	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
ART 10023	3D COMPOSITION	3
Foundations Electives		6
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
Foundations Electives		6
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
ART 30001	COMMON REVIEW	1
ARTH 32066	ART AND THEORY SINCE 1940	3
Studio Art (ARTS) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**16**
Semester Five		
Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
Studio Art (ARTS) Upper-Division Electives (30000 or 40000 level)		6
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Six		
Studio Art (ARTS) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**15**
Semester Seven		
Studio Art (ARTS) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
General Electives		9
	Credit Hours	**15**
Semester Eight		
ART 40099	B.A. STUDIO ART CAPSTONE (ELR) (WIC)	3
Studio Art (ARTS) Upper-Division Elective (30000 or 40000 level)		3
General Electives		7
	Credit Hours	**13**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate technical competencies across a range of media, processes and materials.
2. Articulate in both written and oral form the contemporary and historical contexts within which the visual arts have been created.
3. Integrate design and visual literacy in their work.
4. Demonstrate the ability to make workable connections between concept and media.
5. Integrate knowledge across studio art disciplines, and make connections with other disciplines.

Program Policies

Dual Degree/Double Major

School of Art

Students are permitted to double major in more than one division of the School of Art or complete more than one concentration in the same division.

1. Students enrolling in more than one major within the school must complete all course requirements in each major. If the two majors represent different degree programs, a minimum of 140 credit hours must be completed.
2. Students enrolling in a double concentration within the B.F.A. program must complete at least 12 upper-division credit hours within each concentration. In addition, all reviews must be passed and a senior project must be completed in each concentration.

A student taking a second major in art history must complete the language requirement. The program requirements for a double major must be approved in advance in writing by either the director or the division coordinator and become a part of the student's permanent file.

The Hugh A. Glauser School of Music

The Bachelor of Music, Bachelor of Arts degree in Music and the Bachelor of Science degree in Music Technology programs can be combined with approval by the faculty and director of the School of Music. In addition, double majors and more than one concentration within a major can be approved by the faculty and director of the School of Music.

Exhibitions

Students enrolled in a B.F.A. or B.A. program in studio art, and in the B.F.A. in art education, must receive a rating of "satisfactory" on selected works exhibited during their portfolio review.

No-Credit Courses

Some courses do not generate credit within particular programs. ARTH 12001 does not generate credit for majors within the School of Art, but can be used to fulfill Kent Core requirements. Check course descriptions carefully for more information.

Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

Transfer Students to the School of Art

Transfer students with more than two studio art courses should submit a portfolio of work for proper placement. The director of the School of Art may impose additional requirements considered reasonable and necessary. Transfer credits are evaluated consistent with the state Transfer Articulation Guidelines (TAG), although each student will be evaluated individually in terms of their ability to perform within the program. Transfer students should make every effort to complete admission requirements before the deadlines and see an advisor in the School of Art for an evaluation of the portfolio and schedule planning before registration.

Full Description

The Bachelor of Arts degree in Studio Art is a liberal arts program that provides students with the breadth of study that complements core work in the visual arts. Students may choose one or more studio art minors or a second major outside the arts to prepare themselves for a wide range of careers or for further specialized study.

Students in the program are encouraged to take advantage of travel opportunities to New York, Washington D.C., London, Paris and China. In addition, students can participate in study abroad full semester or summer experiences at Kent State's Florence, Italy location.

Studio Art - B.F.A.

College of the Arts
School of Art
www.kent.edu/art

About This Program

Earn your B.F.A. in Studio Art and turn your creativity into a career! This pre-professional program hones your technical skills, conceptual thinking and problem-solving through hands-on studio work, critiques and contemporary art exploration. Specialize in ceramics, drawing, glass, jewelry, painting, print media, photography, sculpture or textiles — each offering a unique path to artistic mastery. Showcase your work in a senior thesis exhibition and prepare for a future in the visual arts. Read more...

Contact Information

- **Taryn McMahon** | tmcmaho5@kent.edu | 330-672-2839
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Artists and related workers, all other

- -0.2% little or no change
- 13,100 number of jobs
- $65,800 potential earnings

Fine artists, including painters, sculptors, and illustrators

- 1.0% slower than the average
- 28,300 number of jobs
- $52,340 potential earnings

Accreditation

National Association of Schools of Art and Design (NASAD)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer applicants to the program who meet the general transfer admission requirements should schedule a meeting with the academic advisor in the School of Art and submit a portfolio to a studio art faculty member to review for proper course placement. The faculty member may specify additional requirements considered reasonable and necessary. Transfer credits are evaluated consistent with the state-wide Transfer Articulation Guides (TAG), although each student will be evaluated individually in terms of his or her ability to perform in the program. Transfer students should make every effort to complete admission requirements before the deadlines and to schedule a portfolio review with before registration.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ART 10022	2D COMPOSITION	3
ART 10023	3D COMPOSITION	3
ART 10024	DIGITAL MEDIA	3
ART 30001	COMMON REVIEW [1]	1
ART 40008	PROFESSIONAL PRACTICES IN VISUAL ARTS (WIC) [2]	3
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ARTH 32066	ART AND THEORY SINCE 1940	3
ARTS 14000	DRAWING I	3
ARTS 45099	SENIOR THESIS EXHIBITION (ELR) [3]	3
Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
Studio Art (ARTS) Upper-Division Electives (30000 or 40000 level) [4]		12
Foundations Electives, choose from the following:		12
ARTS 14001	DRAWING II	
ARTS 24002	DRAWING AS A STUDIO PRACTICE	
ARTS 24010	INTRODUCTION TO FINE ART PHOTOGRAPHY	
ARTS 24040	INTRODUCTION TO PRINT MEDIA	
ARTS 24051	INTRODUCTION TO SCULPTURAL PRACTICE	
ARTS 24061	INTRODUCTION TO PAINTING	
ARTS 25310	FOUNDATIONS IN WEAVING	
ARTS 25400	CERAMICS I	
ARTS 25600	INTRODUCTION TO GLASS WORKING	

ARTS 25700	INTRODUCTION TO JEWELRY METALS	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		7
Concentrations		
Choose from the following:		27
Ceramics		
Drawing		
Glass		
Jewelry, Metals and Enameling		
Painting		
Print Media and Photography		
Sculpture and Expanded Media		
Textiles		
Minimum Total Credit Hours:		**120**

1 Students may register for selected Studio Art upper-division courses (ARTS 30000 or 40000 level) prior to successfully completing ART 30001. At the completion of seven specific courses (ART 10022, ART 10023, ART 10024, ARTH 22007, ARTS 14000 and two foundation electives), students register for ART 30001 and submit a portfolio of representative studio work selected from these courses to a studio art faculty committee for review. An examination of knowledge of art history is included. Incoming transfer students are expected to provide examples of foundational coursework equivalent to School of Art requirements for ART 30001. The review is a formative assessment of the student's foundations work including a digital portfolio, installation of sampling of works and proficiency in written and oral critical thinking.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

3 Students are required to plan and execute independently a senior thesis exhibition in the area of their declared concentration. The exhibition is presented for review to a committee of at least three School of Art faculty. In addition to presenting the project or exhibition, students must submit a written proposal and written summation (or artist's statement). Students must submit photographic documentation along with the requisite written components at the completion of the committee defense. Students should work closely with a studio art faculty advisor on all aspects of the senior project.

4 A maximum 3 credit hours of ARTS 45090 may be applied toward studio art electives. Students may apply this course toward fulfilling general electives, with no maximum credit hours required.

Ceramics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ARTS 24051	INTRODUCTION TO SCULPTURAL PRACTICE [1]	3
ARTS 25400	CERAMICS I [1]	3
ARTS 35400	FUNCTIONAL APPROACHES TO CLAY	3
ARTS 35401	SCULPTURAL APPROACHES IN CLAY	3
ARTS 45400	ADVANCED CERAMICS	3
Studio Art (ARTS) Elective		3
Ceramics Electives, choose from the following:		9
ARTS 35400	FUNCTIONAL APPROACHES TO CLAY	
ARTS 35401	SCULPTURAL APPROACHES IN CLAY	
ARTS 45080	KENT BLOSSOM ART [2]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [2]	
ARTS 45400	ADVANCED CERAMICS	
Minimum Total Credit Hours:		**27**

1 Students who completed ARTS 24051 and/or ARTS 25400 as part of the major foundation electives may choose any Studio Art (ARTS) 10000-, 20000-, 30000- or 40000-level course(s) to meet required credit hours.

2 ARTS 45080 and ARTS 45095 may be used to fulfill concentration electives with approval from a faculty or academic advisor.

Drawing Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ARTS 14001	DRAWING II [1]	3
ARTS 24002	DRAWING AS A STUDIO PRACTICE [1]	3
ARTS 24040	INTRODUCTION TO PRINT MEDIA [1]	3
ARTS 24061	INTRODUCTION TO PAINTING [1]	3
ARTS 34002	FIGURE DRAWING	3
ARTS 34003	DRAWING: STRUCTURE AND EXPERIMENTATION	3
ARTS 44002	ADVANCED DRAWING FOR ALL DISCIPLINES	3
Drawing Electives, choose from the following:		6
ARTS 34002	FIGURE DRAWING	
ARTS 34003	DRAWING: STRUCTURE AND EXPERIMENTATION	
ARTS 44002	ADVANCED DRAWING FOR ALL DISCIPLINES	
ARTS 45080	KENT BLOSSOM ART [2]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [2]	
Minimum Total Credit Hours:		**27**

1 Students who completed ARTS 14001, ARTS 24002, ARTS 24040 and/or ARTS 24061 as part of the major foundation electives are to choose from the following to meet required credit hours: ARTS 24010, ARTS 25310 and ARTS 34061. If all four courses were completed to fulfill the major foundation electives, the student may choose any one Studio Art (ARTS) 10000-, 20000-, 30000- or 40000-level course to meet required credit hours.

2 ARTS 45080 and ARTS 45095 may be used to fulfill concentration electives with approval from a faculty or academic advisor.

Glass Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ARTS 24051	INTRODUCTION TO SCULPTURAL PRACTICE [1]	3
ARTS 25600	INTRODUCTION TO GLASS WORKING [1]	3
ARTS 35603	GLASS BLOWING	3
ARTS 35604	SCULPTURAL AND KILN-FORMED GLASS	3
ARTS 45600	ADVANCED GLASS WORKING	3
Concentration Elective, choose from the following:		3

ARTS 35401	SCULPTURAL APPROACHES IN CLAY	
ARTS 35700	JEWELRY CONCEPTS AND TECHNIQUES	
ARTS 35701	METALSMITHING CONCEPTS AND TECHNIQUES	
ARTS 35704	ENAMELING CONCEPTS AND TECHNIQUES [2]	
Glass Electives, choose from the following:		9
ARTS 35602	FLAMEWORKED GLASS	
ARTS 35603	GLASS BLOWING	
ARTS 35604	SCULPTURAL AND KILN-FORMED GLASS	
ARTS 45080	KENT BLOSSOM ART [3]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [3]	
ARTS 45600	ADVANCED GLASS WORKING	
Minimum Total Credit Hours:		**27**

1 Students who completed ARTS 24051 and/or ARTS 25600 as part of the major foundation electives are to choose from the following to meet required credit hours: ARTS 24002, ARTS 24061, ARTS 25600, ARTS 35316.

2 Maximum 6 credit hours of ARTS 35704 may be applied toward the major.

3 ARTS 45080 and ARTS 45095 may be used to fulfill concentration electives with approval from a faculty or academic advisor.

Jewelry, Metals and Enameling Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ARTS 25700	INTRODUCTION TO JEWELRY METALS [1]	3
ARTS 35700	JEWELRY CONCEPTS AND TECHNIQUES	3
ARTS 35701	METALSMITHING CONCEPTS AND TECHNIQUES	3
ARTS 35704	ENAMELING CONCEPTS AND TECHNIQUES [2]	3
Studio Art (ARTS) Elective		3
Jewelry, Metals and Enameling Electives, choose from the following:		12
ARTS 35704	ENAMELING CONCEPTS AND TECHNIQUES [2]	
ARTS 44096	INDIVIDUAL STUDY: STUDIO ART	
ARTS 45080	KENT BLOSSOM ART [3]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [3]	
ARTS 45700	JEWELRY DESIGN AND PRODUCTION	
ARTS 45705	CAD FOR JEWELRY	
ARTS 45707	CONTEMPORARY APPROACHES IN METALSMITHING	
ARTS 45708	BODY ORNAMENTATION [4]	
Minimum Total Credit Hours:		**27**

1 Students who completed ARTS 25700 as part of the major foundation electives may choose any Studio Art (ARTS) 10000-, 20000-, 30000- or 40000-level course to meet required credit hours.

2 Maximum 6 credit hours of ARTS 35704 may be applied toward the major.

3 ARTS 45080 and ARTS 45095 may be used to fulfill concentration electives with approval from a faculty or academic advisor.

4 Maximum 6 credit hours of ARTS 45708 may be applied toward the major.

Painting Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ARTS 14001	DRAWING II [1]	3
ARTS 24002	DRAWING AS A STUDIO PRACTICE [1]	3
ARTS 24061	INTRODUCTION TO PAINTING [1]	3
ARTS 34003	DRAWING: STRUCTURE AND EXPERIMENTATION	3
ARTS 34061	INTERMEDIATE PAINTING	3
ARTS 34062	PAINTING STRATEGIES: PROCESS AND CONTENT	3
or ARTS 34063	PAINTING STRATEGIES: IMAGE AND CONTENT	
ARTS 44060	ADVANCED PAINTING: PRACTICE AND THEORY	6
Painting Elective, choose from the following:		3
ARTS 34062	PAINTING STRATEGIES: PROCESS AND CONTENT	
ARTS 34063	PAINTING STRATEGIES: IMAGE AND CONTENT	
ARTS 45080	KENT BLOSSOM ART [2]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [2]	
Minimum Total Credit Hours:		**27**

1 Students who completed ARTS 14001, ARTS 24002 and/or ARTS 24061 as part of the major foundation electives may choose any Studio Art (ARTS) 10000-, 20000-, 30000- or 40000-level course(s) to meet required credit hours.

2 ARTS 45080 and ARTS 45095 may be used to fulfill concentration electives with approval from a faculty or academic advisor.

Print Media and Photography Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ARTS 14001	DRAWING II [1]	3
ARTS 24002	DRAWING AS A STUDIO PRACTICE [1]	3
or VCD 18002	PHOTOGRAPHY II	
ARTS 24010	INTRODUCTION TO FINE ART PHOTOGRAPHY [1]	3
ARTS 24040	INTRODUCTION TO PRINT MEDIA [1]	3
ARTS 44010	ADVANCED FINE ART PHOTOGRAPHY	3
or ARTS 44043	ADVANCED PRINT MEDIA	
Print Media and Photography Electives, choose from the following:		12
ARTS 34043	INTAGLIO	
ARTS 34044	SCREENPRINT	
ARTS 34045	LITHOGRAPHY	
ARTS 44011	DIGITAL FINE ART PHOTOGRAPHY	
ARTS 44045	ART OF THE BOOK	
ARTS 44046	PAPERMAKING	
ARTS 45080	KENT BLOSSOM ART [2]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [2]	
VCD 43051	TYPE HIGH PRESS	
Minimum Total Credit Hours:		**27**

1 Students who completed ARTS 14001, ARTS 24002, ARTS 24010 and/or ARTS 24040 as part of the major foundation electives may choose any Studio Art (ARTS) 10000-, 20000-, 30000- or 40000-level course(s) to meet required credit hours.

[2] ARTS 45080 and ARTS 45095 may be used to fulfill concentration electives with approval from a faculty or academic advisor.

Sculpture and Expanded Media Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ARTS 14001	DRAWING II [1]	3
ARTS 24051	INTRODUCTION TO SCULPTURAL PRACTICE [1]	3
ARTS 25400	CERAMICS I [1]	3
or ARTS 34050	LIFE MODELING	
ARTS 34051	SCULPTURAL OBJECT	3
ARTS 34052	TIME ARTS	3
or ARTS 34053	SITE AND INSTALLATION	
ARTS 44051	ADVANCED SCULPTURAL PRACTICE	3
Sculpture Electives, choose from the following:		9
ARTS 34050	LIFE MODELING	
or ARTS 34052	TIME ARTS	
or ARTS 34053	SITE AND INSTALLATION	
ARTS 44051	ADVANCED SCULPTURAL PRACTICE	
ARTS 44096	INDIVIDUAL STUDY: STUDIO ART	
ARTS 45080	KENT BLOSSOM ART [2]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [2]	
Minimum Total Credit Hours:		**27**

[1] Students who completed ARTS 14001, ARTS 24051 and/or ARTS 25400 as part of the major foundation electives may choose any Studio Art (ARTS) 10000-, 20000-, 30000- or 40000-level course(s) to meet required credit hours.

[2] ARTS 45080 and ARTS 45095 may be used to fulfill concentration electives with approval from a faculty or academic advisor.

Textiles Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
ARTS 25310	FOUNDATIONS IN WEAVING [1]	3
ARTS 35311	PRINT FOR TEXTILES AND ALTERNATIVE SURFACES	3
or ARTS 35312	DIGITAL TEXTILES	
or ARTS 35316	DYE AND COLOR	
ARTS 45300	JACQUARD: DIGITAL WEAVING [2,3,4]	6
or ARTS 45314	PRACTICES IN WEAVING: TAPESTRY	
or ARTS 45351	PRACTICES IN WEAVING: LOOM-THINKING	
Studio Art (ARTS) Electives		6
Textile Electives, choose from the following:		9
ARTS 35302	FELTMAKING	
ARTS 35310	OFF-LOOM	
ARTS 35311	PRINT FOR TEXTILES AND ALTERNATIVE SURFACES	
ARTS 35312	DIGITAL TEXTILES	
ARTS 35313	BACKSTRAP WEAVING	
ARTS 35316	DYE AND COLOR	
ARTS 45080	KENT BLOSSOM ART [5]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [5]	
ARTS 45300	JACQUARD: DIGITAL WEAVING [2]	
ARTS 45301	TEXTILES: ADVANCED STUDIO	
ARTS 45307	TEXTILES: WEAVING AND COLOR	
ARTS 45308	TEXTILE ARTS AND GENDER	
ARTS 45314	PRACTICES IN WEAVING: TAPESTRY [3]	
ARTS 45351	PRACTICES IN WEAVING: LOOM-THINKING [4]	
Minimum Total Credit Hours:		**27**

[1] Students who completed ARTS 25310 as part of the major foundation electives may choose any Studio Art (ARTS) 10000-, 20000-, 30000- or 40000-level course to meet required credit hours.

[2] Maximum 6 credit hours of ARTS 45300 may be applied toward the major.

[3] Maximum 9 credit hours of ARTS 45314 may be applied toward the major.

[4] Maximum 9 credit hours of ARTS 45351 may be applied toward the major.

[5] ARTS 45080 and ARTS 45095 may be used to fulfill concentration electives with approval from a faculty or academic advisor.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

- ARTH 12001 is designed for non-art majors, and will not fulfill major requirements for art majors.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ART 10022	2D COMPOSITION	3
ART 10024	DIGITAL MEDIA	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ARTS 14000	DRAWING I	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
ART 10023	3D COMPOSITION	3
Foundations Electives		6
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
Foundations Electives		6
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
ART 30001	COMMON REVIEW	1
ARTH 32066	ART AND THEORY SINCE 1940	3
Concentration Requirements or Electives		9

Kent Core Requirement		3
	Credit Hours	**16**
Semester Five		
Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
Concentration Requirements or Electives		6
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Six		
ART 40008	PROFESSIONAL PRACTICES IN VISUAL ARTS (WIC)	3
Studio Art (ARTS) Upper-Division Elective (30000 or 40000 level)		3
Concentration Requirements or Electives		6
Kent Core Requirement		3
	Credit Hours	**15**
Semester Seven		
Studio Art (ARTS) Upper-Division Electives (30000 or 40000 level)		6
Concentration Requirements or Electives		6
Kent Core Requirement		3
	Credit Hours	**15**
Semester Eight		
ARTS 45099	SENIOR THESIS EXHIBITION (ELR)	3
Studio Art (ARTS) Upper-Division Elective (30000 or 40000 level)		3
General Electives		7
	Credit Hours	**13**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate skills within their chosen medium/media, associated materials and processes.
2. Defend work showing a high degree of design, visual literacy and formal analysis.
3. Discuss their work within larger contemporary and historical contexts.
4. Articulate and critically examine artistic practices, including their own, in both written and oral form.
5. Defend self-directed research.
6. Situate their practice in relationship to the public and engage in professional practices as an emerging artist.

Program Policies

Dual Degree/Double Major

School of Art

Students are permitted to double major in more than one division of the School of Art or complete more than one concentration in the same division.

1. Students enrolling in more than one major within the school must complete all course requirements in each major. If the two majors represent different degree programs, a minimum of 140 credit hours must be completed.
2. Students enrolling in a double concentration within the B.F.A. program must complete at least 12 upper-division credit hours within each concentration. In addition, all reviews must be passed and a senior project must be completed in each concentration.

A student taking a second major in art history must complete the language requirement. The program requirements for a double major must be approved in advance in writing by either the director or the division coordinator and become a part of the student's permanent file.

The Hugh A. Glauser School of Music

The Bachelor of Music, Bachelor of Arts degree in Music and the Bachelor of Science degree in Music Technology programs can be combined with approval by the faculty and director of the School of Music. In addition, double majors and more than one concentration within a major can be approved by the faculty and director of the School of Music.

Exhibitions

Students enrolled in a B.F.A. or B.A. program in studio art, and in the B.F.A. in art education, must receive a rating of "satisfactory" on selected works exhibited during their portfolio review.

No-Credit Courses

Some courses do not generate credit within particular programs. ARTH 12001 does not generate credit for majors within the School of Art, but can be used to fulfill Kent Core requirements. Check course descriptions carefully for more information.

Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

Transfer Students to the School of Art

Transfer students with more than two studio art courses should submit a portfolio of work for proper placement. The director of the School of Art may impose additional requirements considered reasonable and necessary. Transfer credits are evaluated consistent with the state Transfer Articulation Guidelines (TAG), although each student will be evaluated individually in terms of their ability to perform within the program. Transfer students should make every effort to complete admission requirements before the deadlines and see an advisor in the School of Art for an evaluation of the portfolio and schedule planning before registration.

Full Description

The Bachelor of Fine Arts degree in Studio Art is a pre-professional program that develops students' conceptual prowess, technical competency and independent problem-solving to meet the challenges of a career or advanced study in the visual arts. Through studio critiques, the study of sophisticated art and design concepts, mastery of skills and technologies and critical analysis of historical and contemporary issues, students learn to analyze and evaluate visual art and apply this knowledge to their own creative practice. Graduating students demonstrate their competence by producing a cohesive body of work presented in their senior thesis exhibition to a panel of faculty reviewers.

The Studio Art major comprises the following concentrations:

- The **Ceramics** concentration offers students the opportunity to hone their command of ceramic material to create both artistic and functional forms. Students find new ways of practicing an ancient craft, drawing on both traditional and contemporary thought and practice. In addition, they investigate practices from around the world for a global context in understanding the medium.
- The **Drawing** concentration cultivates foundational through advanced observational, conceptual and experimental processes to enable students to explore ideas across media and disciplines. All majors in the School of Art are able to complete a sequence of drawing courses to strengthen their drawing as a tool for visual thinking and recording. The concentration encourages advanced students to work with a wide range of approaches and to pursue drawing in diverse contexts.
- The **Glass** concentration challenges students to explore glass as a creative medium, both technically and conceptually, within the broader context of contemporary art. In addition to the fundamentals of glassblowing, students learn glass casting, slumping, fusing, flameworking, enameling, cold-working and assembly. Both interdisciplinary and mixed media approaches are actively encouraged.
- The **Jewelry, Metals and Enameling** concentration equally embraces its rich history and the contemporary theory, materials and technology present in the discipline. Students are exposed to fabrication, smithing, enameling, rapid prototyping, alternative materials and industrial processes to encourage the creation of thoughtful art objects. Students are encouraged to meld the rich traditions and applications of the field into the development of their own artistic signatures.
- The **Painting** concentration is rooted in observation and technique while stimulating abstract, conceptual or material-driven ideas about painting and contemporary art practices. The curriculum supports a variety of specific approaches to painting — including collage, figural, landscape and abstraction — while simultaneously promoting an interdisciplinary approach and emphasizing engagement with contemporary practices. Advanced painting students work in consultation with faculty advisors to pursue individual directions and interests.
- The **Print Media and Photography** concentration introduces students to all traditional print forms as a foundation for conceptual approaches. Students are able to learn print techniques such as intaglio, lithography, relief, silkscreen and large-format digital printing. In addition, students can explore traditional and experimental photography and develop print matrices. Students learn how to develop printed and photographic works of art through layering, problem solving and thoughtful material applications.
- The **Sculpture and Expanded Media** concentration encourages proficiency in foundational methods of making-modeling, carving and assembly. The concentration is a springboard for students to learn how to communicate ideas through sculptural works. Although sculpture classes are rooted in the history of object-making, new forms of sculptural practice (installation, time-based practice, sound and kinetic works) are all part of a comprehensive three-dimensional program.
- The **Textiles** concentration is distinguished by a transdisciplinary approach that fosters conceptual vision, technical facility and formal and material sensitivity. Coursework includes weaving, digital fabrication, off-loom construction, dye and print. The curriculum emphasizes the position of textiles within a contemporary art landscape and is supported by evolving theoretical discourse. Making and meaning are engaged as interdependent elements of studio production. Consideration of the distinctive properties and processes of textiles – repetition, geometry, line, color, pliability and embodiment – engenders a rigorous vocabulary to support formal and conceptual inquiry. Students explore thinking and working with age-old hand

processes while incorporating digitally-interfaced approaches to making. Individual and collective studio practice is contextualized through the study of histories, political meanings and social themes that are deeply interwoven into the discipline of textiles.

A concentration does not need to be declared upon admission, but students should declare a concentration no later than completion of ART 30001.

Students in the program are encouraged to take advantage of travel opportunities to New York, Chicago, London, Paris and China. In addition, students can participate in study abroad full semester or summer experiences at Kent State's Florence, Italy location.

Studio Art - M.A.

College of the Arts
School of Art
www.kent.edu/art

About This Program

The Master of Arts degree in Studio Art serves students wishing to develop a robust studio practice in a supportive and diverse community of makers. Students enter the program through a particular discipline and can work with a variety of studio art faculty. Students may use the degree to develop an individual voice within their studio practice and as an avenue for promotion or advancement within an existing career.

The M.A. degree is a flexible model that can be completed in one to three years, based on the student's individual needs and goals. Travel study courses and summer Kent Blossom Art Intensives offer unique opportunities for professional development and mentorship. Although private studio space is not available for M.A. students, access to facilities is available by taking courses in particular studio disciplines.

Contact Information

- **Andrew Kuebeck** | akuebeck@kent.edu | 330-672-2192
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Artists and related workers, all other

- -0.2% little or no change
- 13,100 number of jobs
- $65,800 potential earnings

Fine artists, including painters, sculptors, and illustrators

- 1.0% slower than the average
- 28,300 number of jobs
- $52,340 potential earnings

Accreditation

National Association of Schools of Art and Design (NASAD)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Curriculum vitae that includes exhibitions and relevant experience
- Goal statement (250-500 words) indicating applicant's reasons for applying and the motivations for pursuing the degree in the proposed area of specialization
- Artist statement (250-500 words) that describes the major themes in the applicant's work, how the applicant formalizes those themes and the concepts and artists that influence the applicant
- Portfolio of 20 images with title, medium, dimensions and date
- Three letters of recommendation from persons who are in the proposed area of study or a closely related field
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: February 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
Art History (ARTH) Graduate Electives (50000 or 60000 level)		6
Major Graduate Electives (50000 or 60000 level) [1]		18
Culminating Requirement		
ART 67199	M.A.THESIS I [2]	6
Minimum Total Credit Hours:		**30**

[1] After completing 16 credit hours of coursework, students present a body of current art work to a committee of three to five faculty members for review and discussion. Students may take major electives through cross-discipline, seminar-style courses, graduate studio, travel study and/or independent study. Maximum 6 credit hours of travel study courses and maximum 20 credit hours of graduate studio courses may be applied toward the M.A. degree.

[2] Students' thesis may comprise an installation or a series of collective works, in addition to a written thesis. The written thesis must document and substantiate the visual works through historical context, process or other theoretical premises. Students must present an oral defense of the works to a committee of three to five faculty members, in addition to mounting the installation and preparing the written thesis.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Create and publicly present a self-directed body of work.
2. Develop a studio practice that synthesizes form, media and meaning.
3. Engage with interdisciplinary research within contemporary art and supporting fields.
4. Articulate verbally and in written form critical analyses of contemporary art as it relates to form and meaning in their work and the work of others.
5. Situate their work within the context of the field and the public.
6. Build a strong portfolio to enhance opportunities for further education and/or career and entrepreneurial options.

Studio Art - M.F.A.

College of the Arts
School of Art
www.kent.edu/art

About This Program

Unleash your creativity with the M.F.A. in Studio Art. Our program prepares you for a career as an independent visual artist and educator by cultivating and refining your skills in a successful studio practice. You have opportunities to engage in intense personal investigations, develop a strong aesthetic and conceptual understanding, attend seminars and travel. With concentrations ranging from ceramics to glass to textiles, Kent State's M.F.A. provides the perfect springboard to take your career to the next level. Read more...

Contact Information

- **Andrew Kuebeck** | akuebeck@kent.edu | 330-672-2192
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Fine artists, including painters, sculptors, and illustrators

- 1.0% slower than the average
- 28,300 number of jobs
- $52,340 potential earnings

Additional Careers

- Gallery staff
- Studio assistants
- Art handlers

Accreditation

National Association of Schools of Art and Design (NASAD)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale

- Official transcript(s)
- Curriculum vitae that includes exhibitions and relevant experience
- Goal statement (250-500 words) indicating applicant's reasons for applying and the motivations for pursuing the degree in the proposed area of specialization
- Artist statement (250-500 words) that describes the major themes in the applicant's work, how the applicant formalizes those themes and the concepts and artists that influence the applicant
- Portfolio of 20 images with title, medium, dimensions and date
- Three letters of recommendation from persons who are in the proposed area of study or a closely related field.
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

[1] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Application deadline: February 1

All application materials (including applicable fee, transcripts, recommendation letters, etc.) submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
ARTS 64000	GRADUATE SEMINAR I: STUDIO ART	3
Art History (ARTH) Graduate (50000 or 60000 level) Electives		9
Studio Art (ARTS) Graduate (50000 or 60000 level) Electives [1]		9
Graduate General Electives (50000 or 60000 level) [2]		6
Culminating Requirement		
ART 69199	M.F.A. THESIS I [3]	6
Concentration Requirements		
Choose from the following:		27
Ceramics		
Drawing		
Glass		
Jewelry, Metals and Enameling		
Painting		
Print Media and Photography		
Sculpture and Expanded Media		
Textiles		
Minimum Total Credit Hours:		**60**

[1] Students may take studio art electives through graduate studio, cross-discipline, seminar-style courses, travel study and/or independent study both within and outside of their declared concentration.

[2] General electives may be taken outside the School of Art.

[3] Students' thesis may comprise an installation or a series of collective works, in addition to a written thesis. The written thesis must document and substantiate the visual works through historical context, process or other theoretical premises. Students must present an oral defense of the works to a faculty committee, in addition to mounting the installation and preparing the written thesis.

Ceramics Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		27
ARTS 55080	KENT BLOSSOM ART	
ARTS 55090	STUDY AWAY: STUDIO ART [1]	
ARTS 55095	STUDIO ART: SPECIAL TOPICS	
ARTS 65400	GRADUATE STUDIO: CERAMICS I	
ARTS 65401	GRADUATE STUDIO: CERAMICS II	
Minimum Total Credit Hours:		**27**

[1] ARTS 55090 may be used to fulfill concentration electives with approval from a faculty or academic advisor. Maximum 6 credit hours may be applied toward the M.F.A. degree.

Drawing Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		27
ARTS 55080	KENT BLOSSOM ART	
ARTS 55090	STUDY AWAY: STUDIO ART [1]	
ARTS 55095	STUDIO ART: SPECIAL TOPICS	
ARTS 64060	GRADUATE STUDIO: DRAWING AND PAINTING I	
ARTS 64061	GRADUATE STUDIO: DRAWING AND PAINTING II	
Minimum Total Credit Hours:		**27**

[1] ARTS 55090 may be used to fulfill concentration electives with approval from a faculty or academic advisor. Maximum 6 credit hours may be applied toward the M.F.A. degree.

Glass Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		27
ARTS 55080	KENT BLOSSOM ART	
ARTS 55090	STUDY AWAY: STUDIO ART [1]	
ARTS 55095	STUDIO ART: SPECIAL TOPICS	
ARTS 65600	GRADUATE STUDIO: GLASS I	
ARTS 65601	GRADUATE STUDIO: GLASS II	
Minimum Total Credit Hours:		**27**

[1] ARTS 55090 may be used to fulfill concentration electives with approval from a faculty or academic advisor. Maximum 6 credit hours may be applied toward the M.F.A. degree.

Jewelry, Metals and Enameling Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		27
ARTS 55080	KENT BLOSSOM ART	
ARTS 55090	STUDY AWAY: STUDIO ART [1]	
ARTS 55095	STUDIO ART: SPECIAL TOPICS	
ARTS 55705	CAD FOR JEWELRY	
ARTS 55708	BODY ORNAMENTATION	
ARTS 65700	GRADUATE STUDIO: JEWELRY, METALS, ENAMELING I	
ARTS 65701	GRADUATE STUDIO: JEWELRY, METALS, ENAMELING II	
Minimum Total Credit Hours:		**27**

[1] ARTS 55090 may be used to fulfill concentration electives with approval from a faculty or academic advisor. Maximum 6 credit hours may be applied toward the M.F.A. degree.

Painting Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		27
ARTS 55080	KENT BLOSSOM ART	
ARTS 55090	STUDY AWAY: STUDIO ART [1]	
ARTS 55095	STUDIO ART: SPECIAL TOPICS	
ARTS 64060	GRADUATE STUDIO: DRAWING AND PAINTING I	
ARTS 64061	GRADUATE STUDIO: DRAWING AND PAINTING II	
Minimum Total Credit Hours:		**27**

[1] Maximum 6 credit hours of ARTS 55090 may be applied toward the M.F.A. degree.

Print Media and Photography Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		27
ARTS 54045	ART OF THE BOOK	
ARTS 54046	PAPERMAKING	
ARTS 55080	KENT BLOSSOM ART	
ARTS 55090	STUDY AWAY: STUDIO ART [1]	
ARTS 55095	STUDIO ART: SPECIAL TOPICS	
ARTS 64040	GRADUATE STUDIO: PRINT MEDIA AND PHOTOGRAPHY I	
ARTS 64041	GRADUATE STUDIO: PRINT MEDIA AND PHOTOGRAPHY II	
Minimum Total Credit Hours:		**27**

[1] Maximum 6 credit hours of ARTS 55090 may be applied toward the M.F.A. degree.

Sculpture and Expanded Media Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		27
ARTS 55080	KENT BLOSSOM ART	
ARTS 55090	STUDY AWAY: STUDIO ART [1]	
ARTS 55095	STUDIO ART: SPECIAL TOPICS	
ARTS 64050	GRADUATE STUDIO: SCULPTURE AND EXPANDED MEDIA I	
ARTS 64051	GRADUATE STUDIO: SCULPTURE AND EXPANDED MEDIA II	
Minimum Total Credit Hours:		**27**

[1] Maximum 6 credit hours of ARTS 55090 may be applied toward the M.F.A. degree.

Textiles Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
Concentration Electives, choose from the following:		27
ARTS 55080	KENT BLOSSOM ART	
ARTS 55090	STUDY AWAY: STUDIO ART [1]	
ARTS 55095	STUDIO ART: SPECIAL TOPICS	
ARTS 55300	JACQUARD: DIGITAL WEAVING [2]	
ARTS 55308	TEXTILE ARTS AND GENDER	
ARTS 55314	PRACTICES IN WEAVING: TAPESTRY [3]	
ARTS 55351	PRACTICES IN WEAVING: LOOM-THINKING [4]	
ARTS 65300	GRADUATE STUDIO: TEXTILES I	
ARTS 65301	GRADUATE STUDIO: TEXTILES II	
Minimum Total Credit Hours:		**27**

[1] ARTS 55090 may be used to fulfill concentration electives with approval from a faculty or academic advisor. Maximum 6 credit hours may be applied toward the M.F.A. degree.

[2] Maximum 6 credit hours of ARTS 55300 may be applied toward concentration requirements.

[3] Maximum 9 credit hours of ARTS 55314 may be applied toward concentration requirements.

[4] Maximum 9 credit hours of ARTS 55351 may be applied toward concentration requirements.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Maximum 6 credit hours of travel study courses may be applied toward the M.F.A. degree.
- Maximum 42 credit hours of graduate studio courses may be applied toward the M.F.A. degree from the studio arts electives, general electives and concentration electives.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.

- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Create and publicly present a self-directed and significant body of work.
2. Develop an in-depth studio practice that synthesizes form, media and meaning.
3. Engage with interdisciplinary research within contemporary art and supporting fields.
4. Articulate verbally and in written form critical analyses of contemporary art as it relates to form and meaning in their work and the work of others.
5. Situate their work within the context of the field and the public.
6. Engage in professional practices as an artist.

Full Description

The Master of Fine Art degree in Studio Art is designed to prepare students for careers as independent visual arts through the cultivation and refinement of a successful studio practice. The program emphasizes intensive personal investigation and the development of strong aesthetic and conceptual understanding. In addition to time in their own studio, students have opportunities to enhance existing skills and knowledge by observing undergraduate class demonstrations and critiques.

The M.F.A. is the terminal degree in the studio arts and is a requirement for those who intend to teach visual arts in higher education.

The Studio Art major comprises the following concentrations:

- The **Ceramics** concentration offers an intense focus on artistic development. Through mentorship and a broad spectrum of course offerings, students work closely with faculty advisors to find their own voice as artists. Studio practice is supplemented with art history seminars, visiting artist lectures, summer workshops and travel study programs to New York City, culminating in a solo M.F.A. thesis exhibition.
- The **Drawing** concentration draws upon contemporary practices and discourse in the field to prepare students for a life in the arts. Students are encouraged to work across disciplines and techniques in order to develop a body of work that reflects their independent investigations in drawing. Studio practice is supplemented with art history seminars, visiting artist lectures, summer workshops and travel study programs to New York City, culminating in a solo M.F.A. thesis exhibition.
- The **Glass** concentration is based on the belief that successful creative work results from spending time with one's ideas and receiving constructive and supportive criticism from faculty and peers. The concentration aims to create an atmosphere where students pursue ideas and engage in an extended scholarly dialogue. While building on the legacy of the American Studio Glass Movement, students are fostered to be leaders in redefining the future of studio glassmaking.
- The **Jewelry, Metals and Enameling** concentration allows students to build individual research strategies for developing a coherent and distinctive body of work. Investigations of inter-media and interdisciplinary relationships are part of the curricular focus. Students are expected to be conscious of and involved in contemporary practices, discourse and trends, nationally and globally, among the field and within the larger arts/crafts/design movements. In addition to time in their own studio, students have opportunities to enhance existing skills and knowledge by observing undergraduate class demonstrations and critiques. Students are encouraged to use both traditional and contemporary studio practices while having access to an array of metalsmithing equipment, enameling kilns and a digital fabrication laboratory.
- The **Painting** concentration draws upon contemporary practices and discourse in the field to prepare students for a life in the arts. Students are encouraged to work across disciplines and techniques in order to develop a body of work that reflects their independent investigations in painting. Studio practice is supplemented with art history seminars, visiting artist lectures, summer workshops and travel study programs to New York City, culminating in a solo M.F.A. thesis exhibition.
- The **Print Media and Photography** concentration aims to strengthen students' personal vision through emphasis on the conceptual aspects of the printmaking and photography disciplines. Students have access to studios for lithography, etching, relief, silkscreen and digital media, in addition to a darkroom, press room and digital fabrication laboratory. Enrollment is deliberately kept small enough to make possible the faculty mentor/student relationship.
- The **Sculpture and Expanded Media** concentration encourages proficiency in foundational methods of making-modeling, carving and assembly. The concentration is a springboard for students to learn how to communicate ideas through sculptural works. Although sculpture classes are rooted in the history of object-making, new forms of sculptural practice (installation, time-based practice, sound and kinetic works) are all part of a comprehensive three-dimensional program.
- The **Textiles** concentration positions textile-making firmly within the contemporary art landscape while encouraging a transdisciplinary approach to studio practice. Students work closely with faculty mentors to nurture their artistic voice and draw upon the significant resources of the textiles program. Individual-making is contextualized by engaging the histories, political meanings and social themes embedded in the discipline alongside the broader art historical canon. The program integrates studio activity, art historical research, summer workshops, travel study to New York City and the culminating M.F.A. thesis exhibition as a means of guiding emerging artists toward an active, public, evolving and sustainable art practice.

Textiles - Minor

College of the Arts
School of Art
www.kent.edu/art

About This Program

The Textiles minor offers an expansive approach to textile-making through the exploration of a broad range of materials and processes. Students develop technical virtuosity in tandem with their artistic voice. The curriculum integrates studio activity with the study of the social and political histories of the discipline to grow a holistic approach to textile practice. Programmatic flexibility encourages a course of study that supports individual interest and expression.

Contact Information

- **John Paul Morabito** | jmorabi1@kent.edu | 330-672-2158
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Minor Elective, choose from the following:		3
ART 10022	2D COMPOSITION	
ART 10023	3D COMPOSITION	
ARTH 32066	ART AND THEORY SINCE 1940	
FDM 20155	MACHINE KNITTING	
FDM 30050	FASHION TECHNOLOGY: COMPUTER INTEGRATED TEXTILE DESIGN	
FDM 30154	DIGITAL MACHINE KNITTING	
FDM 30155	KNITWEAR DESIGN	
FDM 45035	HISTORIC TEXTILES	
Textile Art Electives, choose from the following		15
ARTS 25310	FOUNDATIONS IN WEAVING	
ARTS 35302	FELTMAKING	
ARTS 35305	TEXTILES: ACCESSORIES - DESIGN AND PRODUCTION	
ARTS 35310	OFF-LOOM	
ARTS 35311	PRINT FOR TEXTILES AND ALTERNATIVE SURFACES	
ARTS 35312	DIGITAL TEXTILES	
ARTS 35313	BACKSTRAP WEAVING	
ARTS 35316	DYE AND COLOR	
ARTS 45080	KENT BLOSSOM ART [1]	
ARTS 45095	SPECIAL TOPICS: STUDIO ART [1]	
ARTS 45300	JACQUARD: DIGITAL WEAVING [2]	
ARTS 45301	TEXTILES: ADVANCED STUDIO	
ARTS 45307	TEXTILES: WEAVING AND COLOR	
ARTS 45308	TEXTILE ARTS AND GENDER	
ARTS 45314	PRACTICES IN WEAVING: TAPESTRY [3]	
ARTS 45351	PRACTICES IN WEAVING: LOOM-THINKING [4]	
Minimum Total Credit Hours:		**18**

1 ARTS 45080 and ARTS 45095 may be used with approval from a faculty or academic advisor.

2 Maximum 6 credit hours of ARTS 45300 may be applied toward minor requirements.

3 Maximum 9 credit hours of ARTS 45314 may be applied toward minor requirements.

4 Maximum 9 credit hours of ARTS 45351 may be applied toward minor requirements.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Use associated materials, processes and applications in textiles.
2. Discuss the larger contemporary and historical contexts by which works of textile arts are created.
3. Demonstrate design and visual literacy in their work.

School of Fashion Design and Merchandising

College of the Arts
School of Fashion Design and Merchandising
226 Rockwell Hall
Kent Campus
330-672-3010
FashionSchool@kent.edu
www.kent.edu/fashion

Undergraduate Programs

- Fashion Design - B.A.
- Fashion Design - B.F.A.
- Fashion Merchandising - B.S.

Minors

- Fashion Media

Graduate Programs

- Fashion Industry Studies - M.F.I.S.

School of Fashion Design and Merchandising Faculty

- Arnett, Joanne M. (2011), Associate Professor, M.F.A., Kent State University, 2013
- Benitez, Margarita (2010), Professor, M.F.A., School of the Art Institute of Chicago, 2008

- Bhaduri, Gargi (2014), Associate Professor, Ph.D., University of Missouri, Columbia, 2014
- Campbell, James R. (2009), Professor, M.F.A., University of California-Davis, 1996
- Copeland, Lauren E. (2017), Associate Professor, Ph.D., Kansas State University, 2015
- Fenn, Joanne (2001), Professor, M.L.I.S., Kent State University, 2007
- Fladung, Daniel J. (2020), Assistant Professor, M.A., Academy of Art University, 2022
- Grieder, Trista L. (2010), Senior Lecturer, M.S., Purdue University Global, 2009
- Hahn, Kim H. (2011), Professor, Ph.D., University of Nebraska-Lincoln, 2005
- Hahn, David H. (2014), Lecturer, M.S., The University of Wisconsin-Stout, 2011
- Hauck, William E. (2000), Assistant Professor, M.A., Northeastern Illinois University, 1981
- Hughes, Jacqueline (2018), Lecturer, B.A., Kent State University, 1994
- Hume, Sara E. (2009), Professor, M.A., Fashion Institute of Technology, 2003
- Hwang, Ja Young (2015), Associate Professor, Ph.D., Iowa State University, 2013
- Kornel, Jasmine A. (2012), Assistant Professor, M.F.A., Kent State University, 2018
- Krifa, Mourad (2017), Associate Professor, Ph.D., University of Haute Alsace, 2001
- LaPolla, Kendra L. (2013), Associate Professor, M.F.A., The Ohio State University, 2010
- Leslie, Catherine A. (2002), Professor, Ph.D., The Ohio State University, 2002
- LoMonaco-Benzing, Rachel E. (2018), Associate Professor, M.S., University of Rhode Island, 2009
- Lou, Xingqiu (2023), Assistant Professor, Ph.D., North Carolina State University, 2020
- Mehta, Archana (2001), Associate Lecturer, B.A., Kent State University, 2002
- Novak, Kathryn E. (2016), Assistant Professor, M.F.A., Kent State University, 2021
- Ohrn, Linda M. (2004), Professor, M.F.A., University of North Texas, 2003
- Palomo-Lovinski, Noel N. (2001), Professor, M.F.A., Kent State University, 2009
- Perrine, William C. (2006), Senior Lecturer, M.A., Western Michigan University, 2004
- Pettys-Baker, Robert (2024), Assistant Professor, Ph.D., University of Minnesota, 2024
- Quevedo, Vincent (2008), Associate Professor, M.F.A., University of Nebraska-Lincoln, 2004
- Riewe, Krissi R. (2019), Assistant Professor, M.F.A., University Of North Texas, 2019
- Stone, Hillary M. (2012), Professor, M.S., School of the Art Institute of Chicago, 1999
- Troy McAndrews, Laura (2024), Associate Professor, Ph.D., University of Missouri, 2015
- Valendza, Lisa A. (2009), Associate Lecturer, M.A., Kent State University, 2015
- Vick, Jihyun (2013), Professor, Ph.D., Iowa State University, 2004
- Walter, Ann Mariko (2008), Associate Lecturer, Ed.D., Kent State University, 2024
- Xepoleas, Lynda M. (2023), Assistant Professor, Ph.D., Cornell University, 2023
- Yoder, Sue J. (2013), Associate Professor, M.F.A., Syracuse University, 2008

Fashion Design and Merchandising (FDM)

FDM 10010 FASHION FUNDAMENTALS 3 Credit Hours
Introduction to the global fashion industry. Analysis of the business of fashion and how it is conceived, marketed, sold, and consumed. Overview of important resources, companies, career options and personnel who impact the industry.
Prerequisite: Fashion design, fashion merchandising or pre-fashion design and merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 10023 FASHION VISUALS 1 Credit Hour
The study of fashion information, research sources, color theory, two-and three-dimensional design and visual presentation formats as they apply to the fashion industry.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10024.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FDM 10024 FASHION VISUALS LABORATORY 2 Credit Hours
Laboratory applications in the study of fashion information, research sources, color theory, two-and three-dimensional design and visual presentation formats as they apply to the fashion industry.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10023.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 10033 FASHION FABRICS 1 Credit Hour
Study of fabrics, from fiber through finishing processes, with a concentration on differentiating between fibers, fabric construction methods, and other processes involved in production. Emphasis is on understanding fabric properties, including environmental impact, cost, care and how they relate to textile end-usage.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10034.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FDM 10034 FASHION FABRICS LABORATORY 2 Credit Hours
Study of fabrics, from fiber through finishing processes, with a concentration on differentiating between fibers, fabric construction methods, and other processes involved in production. Emphasis is on understanding fabric properties, including environmental impact, cost, care, and how they relate to textile end-usage. Lab-specific content and assignments reinforce Lecture content.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10033.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 10043 SUSTAINABLE FASHION THINKING 1 Credit Hour
An introductory exploration of the current fashion industry and the urgent need to create sustainable change. After a survey of fashion industry functions from concept to consumer, students identify current practices and areas of concern. Course focuses on understanding how and why those practices must change and examining burgeoning ideas, methods, practices and business structures shifting to a sustainable future.
Prerequisite: Fashion Design or Fashion Merchandising majors.
Corequisite: FDM 10044.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FDM 10044 SUSTAINABLE FASHION THINKING LABORATORY 2 Credit Hours
An introductory exploration of the current fashion industry and the urgent need to create sustainable change. After a survey of fashion industry functions from concept to consumer, students identify current practices and areas of concern. Lab focuses on practicing strategies, including critical thinking, human centered design, sustainable product service systems and corporate social responsibility to influence needed change within industry. Fashion design and fashion merchandising students work collaboratively in groups to explore solutions for a sustainable future in the fashion industry.
Prerequisite: Fashion Design or Fashion Merchandising majors.
Corequisite: FDM 10043.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 10053 INTRODUCTION TO FASHION TECHNOLOGY 1 Credit Hour
Introduces students to the fundamental concepts, procedures, and techniques used in digital imaging software and information database software. A survey of current and emerging technologies used in fashion design, merchandising and production contexts is presented.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10054.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

FDM 10054 INTRODUCTION TO FASHION TECHNOLOGY LABORATORY 2 Credit Hours
Laboratory applications of fundamental concepts, procedures, and techniques used in digital imaging software and information database software. A survey of current and emerging technologies used in fashion design, merchandising, and production contexts is presented and applied.
Prerequisite: Fashion design or fashion merchandising major.
Corequisite: FDM 10053.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 15055 BASICS OF APPAREL CONSTRUCTION 3 Credit Hours
Introduction to patterns, sewing techniques and application processes using industrial sewing machines and other related equipment in basic garment construction.
Prerequisite: Fashion Design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20013 HISTORY OF FASHION 3 Credit Hours
The study of dress reveals fundamental aspects of the culture in which it is created. This course is an interdisciplinary study of the aesthetic, historical, political, economic and social roles that fashions of an era chronicle. The course includes chronological study and research of dress from the origin of clothing through the present, as studied and applied to contemporary fashion.
Prerequisite: Fashion Design major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 20030 FASHION APPAREL ANALYSIS 3 Credit Hours
Analysis and evaluation of fashion apparel; quality standards of ready-to-wear apparel and factors that influence the aesthetic and functional performance of the end product.
Prerequisite: FDM 10033 and FDM 10034; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 20050 FASHION TECHNOLOGY APPLICATIONS 3 Credit Hours
A continuation of content related to technology within the fashion industry. Pattern manipulation, basic technical packages, garment measuring specs, print design and computerized fashion illustration is addressed with the use of industry-specific and off-the-shelf software packages.
Prerequisite: FDM 10053 and FDM 10054; and fashion design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20121 FASHION DRAWING 3 Credit Hours
Study of communicating design ideas, rendered fabrics, consumer types, technical flats, and the depiction of garment construction through the use of digital toolsets and illustration technology. Emphasis will be placed on the depiction of a variety of body types, demographics (gender identity, differently-abled, race/ethnicity, age, culture), fabric types (weight, end use, pattern/print, color, etc.) on the figure.
Prerequisite: FDM 10023 and FDM 10024; and fashion design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20123 FASHION DESIGN CONCEPTS 3 Credit Hours
An introduction to the process and methodology of creating fashion products with considerations of sustainable practice and diverse consumer markets. Students will apply fashion communication skills and combine with visual thinking practices. Emphasis will be on design thinking, sustainable methodology, creative experimentation, and a variety of body types and markets.
Prerequisite: FDM 10043 and FDM 10044 and FDM 20121.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20155 MACHINE KNITTING 3 Credit Hours
Basic machine knitting techniques, including structure and shaping on industrial handflat knitting machine. Development and analysis of knitted textiles.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20156 2-D FASHION DESIGN PRACTICE 3 Credit Hours
Development of two-dimensional patterns for three-dimensional figures/shapes using digital toolsets. Execution of virtual and traditional construction of two-dimensional pattern designs. Emphasis will be placed on the techniques used to develop apparel patterns for both knit and woven textiles and how to fit garments to the body. Students will develop garments for a variety of target markets and a variety of body types. Minimizing waste in pattern layouts and yardage allocation will be addressed.
Prerequisite: FDM 10033 and FDM 10034 and FDM 15055; and fashion design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20157 3-D FASHION DESIGN PRACTICE 3 Credit Hours
Study of draping as a technique for developing two-dimensional patterns for three-dimensional shapes. The techniques used for working with woven fabric and knit fabric are addressed. Students are required to drape on dress forms representing a variety of body shapes. Minimizing waste through shape and form is addressed.
Prerequisite: FDM 10033 and FDM 10034 and FDM 15055 and FDM 20156; and Fashion Design major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 20263 FASHION RETAIL INDUSTRY 3 Credit Hours
Study of retail organizations and structures within the fashion industry. Analysis of supervision organization and operations management of fashion retail institutions.
Prerequisite: FDM 10010; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 25011 FASHION BRANDING 3 Credit Hours
An overview of branding in the fashion industry. Analysis of strategies for creating (brand awareness), maintaining (brand management) and enhancing the strength (brand asset management) of fashion brands. Class members work individual an as part of a group.
Prerequisite: FDM 10010; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30013 FASHION AND POP CULTURE 3 Credit Hours
An examination of the relationship between different types of design and popular culture in America and Europe in the 20th and 21st centuries.
Prerequisite: ARTH 22006 or ARTH 22007 or HIST 11050 or HIST 11051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30050 FASHION TECHNOLOGY: COMPUTER INTEGRATED TEXTILE DESIGN 3 Credit Hours
The use of Computer Integrated Design tools to produce textile prints, wovens and knits for professional presentation scenarios.
Prerequisite: FDM 10053 and FDM 10054.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

FDM 30083 PROFESSIONAL SEMINAR 3 Credit Hours
Professional development strategies for fashion and related careers. Emphasis is on verbal and written communication skills.
Prerequisite: FDM 20030 and fashion merchandising major; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30124 TECHNICAL DESIGN IN THE FASHION INDUSTRY 3 Credit Hours
Students learn seamstitch classifications, costing, sourcing and lab testing quality assurance. Assembly-line and modular manufacturing are discussed.
Prerequisite: FDM 10033, FDM 10034 and FDM 20050.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

FDM 30132 APPAREL CONSTRUCTION FOR SPECIALTY MARKETS 1 Credit Hour
Construction details specific to a market are researched, discussed and duplicated. Only one specialty market covered each class. Markets vary by class.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 other
Grade Mode: Standard Letter

FDM 30151 ADVANCED PATTERNMAKING 3 Credit Hours
Flat pattern assignments for advanced, complex garments. Suits, outerwear, cutsew knits will all be covered. Students will make patterns by traditional methods as well as by computer.
Prerequisite: FDM 20156 and FDM 20157.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 30154 DIGITAL MACHINE KNITTING 3 Credit Hours
Programming knitting and basics of operating an industrial knitting machine. Students will develop a sample book that includes industrial techniques, such as structure, shaping, jacquard, intarsia cables, etc. One group project to create a garment and one final project based on research of knit industry will be required.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 30155 KNITWEAR DESIGN 3 Credit Hours
Focus is on the design development of knitwear, learning about how to recognize and communicate knit design through graphs and stitch notation as well as what yarns, fibers and machines are appropriate. The students in this class also design knitwear collections.
Prerequisite: Fashion design major.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

FDM 30161 FASHION DESIGN STUDIO I 6 Credit Hours
Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons and specific construction techniques; and further develop fashion design process approaches.
Prerequisite: FDM 20050 and FDM 20123 and FDM 20156 and FDM 20157.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

FDM 30162 FASHION DESIGN STUDIO II 6 Credit Hours
A continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons and specific construction techniques and further develop fashion design process approaches.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

FDM 30189 FLORENCE FASHION DESIGN STUDIO I (DIVG) (ELR) 6 Credit Hours
Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons and specific construction techniques; and further develop fashion design process approaches. European markets and travel are incorporated.
Prerequisite: FDM 20050 and FDM 20123 and FDM 20156 and FDM 20157; and special approval.
Schedule Type: International Experience, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 30190 NEW YORK CITY FASHION DESIGN STUDIO I (ELR) 6 Credit Hours
Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons and specific construction techniques; and further develop fashion design process approaches. New York City markets and design-specific experiences are incorporated.
Prerequisite: FDM 20050 and FDM 20123 and FDM 20156 and FDM 20157; and special approval.
Schedule Type: Study Away, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 30260 PRODUCT DEVELOPMENT IN THE FASHION INDUSTRY 3 Credit Hours
Researching, planning, developing and presenting a fashion product line for an identified target market with regard to prices, styling and timing.
Prerequisite: FDM 20030; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30262 FASHION MERCHANDISE PLANNING AND BUYING 3 Credit Hours
The study of the merchandise buying process from trend analysis through execution of sourcing and delivery of product. Learning the duties of a buyer/merchant, including product planning, coordinating and control of merchandise through the use of appropriate quantitative metrics.
Prerequisite: FDM 20263 and MATH 10041; and Fashion Merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30270 TRENDS AND PREDICTIVE ANALYTICS IN FASHION 3 Credit Hours
Provides an overview of fashion forecasting principles and their application from research and analysis to the creation and development of fashion forecasts. Focuses on the role of data analytics in decision making for the fashion industry as it applies to trend forecasting, retail merchandising and product marketing.
Prerequisite: FDM 20263 and FDM 25011; and Fashion Merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 30289 FLORENCE FASHION DESIGN STUDIO II (DIVG) (ELR) 6 Credit Hours
Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons and specific construction techniques, and further develop fashion design process approaches. Content specific to the European design experience.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389; and special approval.
Schedule Type: International Experience, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 30290 NEW YORK CITY FASHION DESIGN STUDIO II (ELR) 6 Credit Hours
Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons and specific construction techniques, and further develop fashion design process approaches. Content specific to the New York City fashion design experience.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389; and special approval.
Schedule Type: Study Away, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 30389 PARIS FASHION DESIGN STUDIO I (DIVG) (ELR) 6 Credit Hours
Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons and specific construction techniques enabling personal development of the student's creative and market-ready work. Equal use of illustration, construction and fashion-industry communications such as tech packs and flats.
Prerequisite: FDM 20050 and FDM 20123 and FDM 20156 and FDM 20157; and special approval.
Schedule Type: International Experience, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 30489 PARIS FASHION DESIGN STUDIO II (DIVG) (ELR) 6 Credit Hours
Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons and specific construction techniques; and further develop fashion design process approaches. Content specific to the European design experience.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389; and special approval.
Schedule Type: International Experience, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35010 CONTEMPORARY FASHION DESIGNERS (WIC) 3 Credit Hours
Examine and analyze international fashion design and designers of the 20th and 21st centuries. Focuses on the history, development and present context of fashion. Students assemble a portfolio of fashion designers studied to include their biographies, clippings of their work and design inspirations.
Prerequisite: FDM 20013; and fashion design major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

FDM 35011 FASHION FORECASTING 3 Credit Hours
Identifying trends to develop fashion forecasts. Interrelationships of forecasting promotion, public relations, and the fashion media will be explored.
Prerequisite: FDM 25011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35012 SUSTAINABILITY IN FASHION 3 Credit Hours
Analysis and development of design process thinking through the lens of sustainability and socially responsibility in fashion. Readings, documentaries and lectures are discussed in class. Interdisciplinary teams create a product that supports sustainable fashion futures.
Prerequisite: Fashion design and fashion merchandising majors.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35013 FASHION ACCESSORIES 3 Credit Hours
The merchandising, promotion and sales of accessories. Materials production and resources are examined by category.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35060 FASHION IMAGE 3 Credit Hours
Study of fashion imagery through industry observation, analysis, and examination of fashion photo shoots and styling practices. Combines theoretical and practical approach in planning through individual and collaborative efforts resulting in a fashion industry-inspired photo shoot and styling project.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35063 VISUAL MERCHANDISING AND DISPLAY 3 Credit Hours
Theory and practice of merchandise presentation for the purpose of promotion and sales.
Prerequisite: Fashion merchandising major.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

FDM 35070 THE LUXURY MARKET 3 Credit Hours
Purpose is to learn, understand, and perceive the luxury market and its parameters. Students gain an understanding of the marketing power of luxury brands and the organization of a luxury products company.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35080 FASHION IN THE MEDIA 3 Credit Hours
Analysis of key fashion magazines and in-depth examination of how they are created. Students learn the fundamentals of different forms of communication and the contributions editors, writers, stylists and photographers make toward the finished product. Exploration of how various media interrelate and contribute to the fashion industry is included. Different forms of writing, editing and interviewing as well as the roles of photography, design and styling are examined. Online outlets, television commentary, fashion advertising and Public Relations are discussed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35089 INTERNATIONAL EXPERIENCE: THE PARISIAN LUXURY MARKET (DIVG) (ELR) 3 Credit Hours
Examination of the French fashion luxury market and industry. Students gain an understanding of the marketing power of luxury brands and the organization of a luxury products company.
Prerequisite: FDM 36900.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35260 MERCHANDISING FOR HOME FURNISHINGS 3 Credit Hours
Introduction to the various retail classifications of home furnishing merchandise to include furniture, floor coverings, window treatments, household linens, table tops, housewares and decorative accessories.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35270 COMPUTER APPLICATIONS IN RETAILING 3 Credit Hours
The application and use of the microcomputer to solve problems in assortment planning, merchandise management, trading area and site analysis, store planning, planogramming and media planning.
Prerequisite: FDM 20263; and MATH 10041 or MATH 11009 or MATH 11010 or MATH 11012; and fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35280 FASHION ENTREPRENEURSHIP 3 Credit Hours
In-depth study of entrepreneurship concepts as applied to manufacturers and retailers of apparel including product development, accounting and control merchandising and buying operation and management advertising and promotion.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 35589 INTERNATIONAL EXPERIENCE: ITALIAN FASHION AND CULTURE (DIVG) (ELR) 3 Credit Hours
Evolution of the fashion industry in post World War II Italy. Study of the creators, design and production processes creating one of the most successful unions of commercial product and cultural expression world-wide.
Prerequisite: FDM 35900.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35689 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION MARKETING (DIVG) (ELR) 3 Credit Hours
Building on the information acquired in the European Fashion Marketing Seminar lectures and visits, student complete a series of assignments designed to simulate the type of work that a merchandising professional may be asked to complete.
Corequisite: FDM 35789.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35789 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION MARKETING SEMINAR (DIVG) (ELR) 3 Credit Hours
Taken concurrently with European Fashion Marketing and uses a European city as an extended classroom, combining various field trips to directional shopping districts, fashion houses and fashion magazines. Only taught in European settings.
Corequisite: FDM 35689.
Schedule Type: International Experience, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35889 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION DESIGN (DIVG) (ELR) 3 Credit Hours
Taken concurrently with European Fashion Design Seminar and is designed to introduce couture techniques and enhance techniques of those who possess a basic to advance knowledge of sewing. Only taught in European settings.
Corequisite: FDM 35989.
Schedule Type: International Experience, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 35900 FLORENCE FASHION STUDY ORIENTATION 1 Credit Hour
Overview of Florence fashion program, the city of Florence, living and traveling in Europe as a study abroad student. Includes assistance for obtaining required documents. Students must enroll in Florence fashion program to receive credit.
Prerequisite: Minimum 2.500 overall GPA; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

FDM 35989 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION DESIGN SEMINAR (DIVG) (ELR) 3 Credit Hours
Taken concurrently with European Fashion Design and uses a European city as an extended classroom, combining various field trips to directional shopping districts, fashion houses and fashion magazines.
Corequisite: FDM 35889.
Schedule Type: International Experience, Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 36589 INTERNATIONAL EXPERIENCE: PARISIAN FASHION, CULTURE AND CRAFT (DIVG) (ELR) 3 Credit Hours
Focusing on Parisian fashion, culture and artisan tradition, this course introduces different techniques that can be used in the creation of clothing or accessories, including couture approaches. Researching the use of finishes and textiles are examined in the context of Parisian artisan cultural traditions. Students learn how high-end designers use these techniques in their lines/shows.
Prerequisite: FDM 36900.
Schedule Type: International Experience, Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

FDM 36900 PARIS FASHION STUDY ORIENTATION 1 Credit Hour
Overview of Paris fashion program, the city of Paris and living and traveling in Europe as a study abroad student. Includes assistance for obtaining required documents. Students must enroll in Paris fashion program to receive credit.
Prerequisite: Minimum 2.500 overall GPA; and special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

FDM 40050 FASHION TECHNOLOGY:TECHSTYLELAB 3 Credit Hours
Explores the historical and contemporary links between fashion and technology. Garments, artists, designers, institutions and projects relevant to technological explorations within the fashion context is discussed. Research and experiments conducted with the Fashion School's TechStyleLAB. Students acquire fundamental research skills for fashion technology and develop their own web presence.
Prerequisite: FDM 10053 and FDM 10054.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

FDM 40098 RESEARCH IN FASHION DESIGN AND MERCHANDISING (ELR) 1-3 Credit Hours
(Repeatable for credit) Research experience and investigation of a topic above the level available through coursework with an individual faculty member. This experience is designed to strengthen student's ability to synthesize different phases and methods of academic research. Students work closely with a faculty member to determine the specific nature, scope, and design of the research experience.
Prerequisite: Special approval.
Schedule Type: Research
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 40099 SENIOR FASHION DESIGN THESIS I (ELR) 6 Credit Hours
Senior fashion design thesis collection is created focused on the specialties of each student. This collection is finalized, analyzed and presented during FDM 40199. Students engage in a formalized critical development and review process with established external fashion designers.
Prerequisite: FDM 30162 or FDM 30289 or FDM 30290 or FDM 30489; and Fashion Design major.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 12 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 40121 FASHION PORTFOLIO I 3 Credit Hours
Students develop a professional design portfolio that emphasizes in-depth individual investigation of specific apparel markets, target customers and seasons, displaying various illustrative techniques. Croquis books, technical packets and line plans are used.
Prerequisite: FDM 30161 or FDM 30189 or FDM 30190 or FDM 30389; and FDM 30162 or FDM 30289 or FDM 30290 or FDM 30489.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 40122 FASHION PORTFOLIO II 3 Credit Hours
A continuation of FDM 40121. Students continue development of design portfolio that emphasizes their strengths in design and presentation. In addition, there is continued progress in croquis books and development of seasonal line plans.
Prerequisite: FDM 40121.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 40199 SENIOR FASHION DESIGN THESIS II (ELR) 3 Credit Hours
Continuation of Senior Fashion Design Thesis I. Finalize senior thesis project; critical review and reflection on outcome in a short analysis. The final thesis submission will be displayed through a juried venue.
Prerequisite: FDM 40099.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 40262 DATA-BASED DECISION-MAKING IN FASHION RETAILING 3 Credit Hours
Develops data analytics and industry-focused software skills to identify solutions related to fashion merchandising and retail business operations. Emphasis is on learning industry software from inventory location optimization to the use of communication techniques for quantitative business information within the fashion retail industry.
Prerequisite: FDM 30262.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 40270 FASHION INDUSTRY RESEARCH METHODS (WIC) 3 Credit Hours
Examination of research methods used in the fashion industry. Introduction to research methods for the analysis of consumer needs and preferences and their application to materials, design and fashion retail decision-making strategies.
Prerequisite: FDM 30270 or FDM 35011; and MATH 10041 and MKTG 25010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

FDM 40280 GLOBAL FASHION VALUE CHAIN 3 Credit Hours
Comprehensive approach to understanding the textile and apparel supply and value chain. Includes global perspectives on value-adding activities and impacts across materials sourcing, production, distribution and operations, including the related historic, geographic, economic, ethical and environmental influences.
Prerequisite: FDM 30260 and FDM 30262.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 40291 SEMINAR IN FASHION MERCHANDISING (WIC) 3 Credit Hours
(Repeatable for credit) Capstone course in Fashion Merchandising. Builds and expands on all merchandising-related coursework with the goal of integrating content and applying it to real-life scenarios through critical thinking and analysis. A coherent portfolio demonstrating student efficacy with overall program content is completed.
Prerequisite: FDM 30260, FDM 30262, FDM 35011 and FDM 35270.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

FDM 40299 APPLIED PRINCIPLES IN FASHION MERCHANDISING (ELR) 3 Credit Hours
Capstone course in fashion merchandising that expands on all merchandising-related coursework with the goal of applying program content to real-life scenarios. Focus on critical thinking and analysis to present practical business solutions for industry. Students finish by creating a coherent portfolio demonstrating their effectiveness in applying overall program content.
Prerequisite: FDM 30260 and FDM 30262; and FDM 30270 or FDM 35011.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 43292 FASHION SHOW MANAGEMENT AND PRODUCTION (ELR) 3 Credit Hours
(Repeatable for credit) This course teaches students all the basic elements and process of planning, managing and producing a fashion show. Students gain practical experience through the actual planning, management, production and delivery of the School of Fashion's annual fashion show.
Prerequisite: None.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1 lecture, 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 45012 TEXTILES AND APPAREL IN THE GLOBAL ECONOMY 3 Credit Hours
Global perspective on the production and marketing of textiles and apparel; historical geographic and economic factors that influence the world trade in soft goods.
Prerequisite: FDM 30262 and 35270.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 45035 HISTORIC TEXTILES 3 Credit Hours
(Slashed with FDM 55035) Identification and analysis of textile fabrics as the reflection of culture from ancient times to present.
Prerequisite: Fashion design or fashion merchandising major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 45045 COLLABORATIVE FASHION PRODUCTION 3 Credit Hours
Exploration of product production process from concept to a marketable product. Utilizes introductory pattern making, sewing skills, and project management to create fashion apparel products.
Prerequisite: Fashion design or fashion merchandising major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

FDM 45093 VARIABLE TITLE WORKSHOP-FASHION DESIGN AND MARKETING 1-3 Credit Hours
(Repeatable for a total of 6 hours) Special fee actual cost basis.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

FDM 45095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Variable content relevant to the field of fashion.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

FDM 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual investigation of topic above the level available through coursework. Requires submission of and approval of project proposal prior to registration.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

FDM 45192 INTERNSHIP IN FASHION MERCHANDISING (ELR) 3 Credit Hours
Supervised practical experience in the fashion industry. Eligibility requirements available from the School of Fashion Design and Merchandising field studies coordinator.
Prerequisite: FDM 30083 and 30262; and fashion merchandising major; and special approval for internship site.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 45212 FASHION SHOW PRODUCTIONS 3 Credit Hours
Analyses of fashion show formats are considered for promotion purposes. Production planning, organization and physical requirements are studied. Class produces a fashion show.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 45292 INTERNSHIP IN FASHION DESIGN (ELR) 3 Credit Hours
Supervised practical experience in the fashion industry. Eligibility requirements available from the School of Fashion Design and Merchandising field studies coordinator.
Prerequisite: FDM 20123 and FDM 20156 and FDM 20157; and Fashion Design major; and special approval for internship site.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

FDM 45392 FIELD EXPERIENCE: FASHION STUDY TOUR (ELR) 1-3 Credit Hours
(Repeatable for credit)Visit to domestic or foreign fashion markets, including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.
Prerequisite: Fashion design or fashion merchandising major; and special approval.
Schedule Type: Field Experience
Contact Hours: 12-36 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

FDM 45589 INTERNATIONAL EXPERIENCE: EUROPEAN FASHION STUDY TOUR FOR FLORENCE STUDENTS (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) Visit to European fashion markets including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.
Prerequisite: Fashion design or fashion merchandising major.
Schedule Type: International Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

FDM 45590 STUDY TOUR FOR NYC STUDIO STUDENTS (ELR) 3 Credit Hours
(Repeatable for credit) Visit to the New York fashion market including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.
Prerequisite: Fashion design or fashion merchandising major; and special approval.
Schedule Type: Study Away
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

FDM 45689 INTERNATIONAL EXPERIENCE: PARISIAN FASHION STUDY TOUR FOR PARIS STUDENTS (DIVG) (ELR) 3 Credit Hours
(Repeatable for credit) Visit to Paris fashion markets including design and fabric houses or showrooms, retail stores, buying offices, museums and other areas of the fashion industry.
Prerequisite: FDM 36900; and Fashion Design or Fashion Merchandising major.
Schedule Type: International Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Diversity Global, Experiential Learning Requirement

FDM 55035 HISTORIC TEXTILES 3 Credit Hours
(Slashed with FDM 45035) Identification and analysis of textile fabrics as the reflection of culture from ancient times to present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 55389 FASHION INDUSTRY INTERNATIONAL EXPERIENCE STUDY TOUR 3 Credit Hours
(Repeatable for credit) A Kent State faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. Visits to international fashion markets, including design or fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry. The primary benefits are the direct observation and study of how the fashion industry operates including how fashion products are created, manufactured, marketed and/or merchandised at the wholesale and retail levels. Students have a series of critical discussions and present a position paper upon completing the international experience. This course has pre- and post-travel classroom study.
Prerequisite: Graduate standing; and special approval.
Schedule Type: International Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

FDM 60005 RESEARCH METHODS IN THE FASHION INDUSTRY 3 Credit Hours
This course examines research subject areas and methods as they pertain to various stakeholders in the fashion value chain. Focus is on understanding research practices relevant to the fashion industry, accessing and critically evaluating existing research, engaging in active research and applying research through practice to expand knowledge in the field.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60010 THEORIES AS APPLIED TO THE FASHION INDUSTRY 3 Credit Hours
Focuses on the meaning, context and intent of fashion in contemporary society. Examination of seminal theories and constructs that inform understanding and ability to address complex issues derived from the fashion industry setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60011 THE FASHION INDUSTRY: A UNIFYING LENS 3 Credit Hours
This course is designed to make connections, synthesize, and develop understanding of the fashion industry. Students will participate in informed critical discussion, written, and visual work, guided by interaction with multiple stakeholders and concluded with a final paper and presentation that identifies an area where research through practice can expand knowledge in the field.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60015 FASHION SYSTEMS THINKING 3 Credit Hours
The adverse effects of the global fashion industry have become an established narrative throughout fashion academic and industry circles. This course examines economic, social and environmental impacts of the fashion value chain from a systemic perspective. Focus is on the five key components used in systems thinking approach, namely: interconnectedness, synthesis, emergence, feedback loops, causality and systems mapping to practice problem solving that views fashion industry-related problems as part of a wider, dynamic system.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60020 FASHION INDUSTRY DESIGN MANAGEMENT 3 Credit Hours
In-depth study of the relationship between creativity and efficiency in the fashion industry. Provides insight into how project managers can nurture innovation in an organizational context.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60025 GLOBAL CONSUMER IN THE FASHION INDUSTRY 3 Credit Hours
This course examines global market segments, how to reach them, the consumer buying process across countries and psychological and sociological variables that influence and motivate consumers. This course broadens the understanding and evaluation of consumer behavior concepts as they pertain to domestic and global marketing strategies. Focus is also on targeting needs of diverse consumers and marketing efforts directed at creating an inclusive environment for all consumers.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60031 FORMS OF INQUIRY IN THE FASHION INDUSTRY 3 Credit Hours
Critical evaluation of research, theoretical and scholarly review of articles related to the fashion industry. Learn and practice skills needed to understand and critically evaluate research, theory and scholarly works. Examine in-depth scholarly literature as applied to one topic within the fashion industry. Write and present a scholarly review of literature.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60050 TECHSTYLELAB: DIGITAL DESIGN AND NEW MEDIA IN THE FASHION INDUSTRY 3 Credit Hours
Exploration of the intersection of New Media and Fashion. Includes research into analog design methods and digital systems of production and the supply chain management. Topics include various research and design topics such as mass-customization, co-creation, material ecology, digital craft and future craft practices.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

FDM 60092 FASHION INDUSTRY PRACTICUM 1-3 Credit Hours
(Repeatable for credit) Practicum is an off-campus, progressive process involving a number of specific guided experiences with a fashion agency or company. This course is intended to bridge the gap between the theoretical and abstract learning gained within the classroom with real-world concrete applications. Students are required to develop a practicum analytical or reflective research paper and make an oral presentation of their practicum experiences.
Prerequisite: Fashion Industry Studies major; and graduate standing; and special approval.
Pre/corequisite: FDM 60005 and FDM 60015.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory

FDM 60093 WORKSHOPS ON CURRENT TOPICS IN THE FASHION INDUSTRY 1-3 Credit Hours
(Course is repeatable) Students will be encouraged to take advantage of courses that focus on professional renewal or mastery and application of knowledge and skills that address a range of problems or issues related to fashion industry practice. The workshops will be offered at our NYC, Florence, and Kent campuses.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

FDM 60098 RESEARCH PROJECT IN FASHION INDUSTRY 3 Credit Hours
(Repeatable for credit) Research experience with an individual faculty member designed to strengthen student's ability to synthesize different phases and methods of research. Students work closely with faculty to determine the specific nature, scope and design of the research experience. Requires submission of and approval of project proposal prior to registration.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter

FDM 60099 FASHION INDUSTRY PRACTICUM CAPSTONE 3 Credit Hours
This course combines research with pragmatic industry-facing solutions reliant on firsthand information gathering, analysis and assessment. As a capstone experience, M.F.I.S. students base their experience from the practicum with a fashion-related industry partner by creating an in-depth case study, abbreviated business plan or industry presentation resulting from the information and research gathered and reflecting student interest.
Prerequisite: FDM 60092; and graduate standing; and special approval.
Pre/corequisite: FDM 60005 and FDM 60015 and FDM 60025.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

FDM 60100 ADVANCED FASHION INDUSTRY PRACTICE 3 Credit Hours
This capstone course is centered in research as both a practice and a process. Students will pursue case studies in which they research, interpret and aim to advance fashion industry practices. Informed by industry observation and experience, utilizing and engaging with a variety of research methods, students will document findings, analyze, reflect, and present their own pragmatic implications drawn from and applied to the fashion industry. The aim of the course is to challenge students to advance their research and analytical skills, to cross disciplinary boundaries, and to develop new and original perspectives of industry research through practice.
Prerequisite: FDM 60031; and enrolled in the master of fashion industry studies (MFIS) degree; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60162 ADVANCED FASHION INDUSTRY DESIGN AND PRODUCTION 3 Credit Hours
This process-oriented course focuses on studio investigation of complex formal and spatial constructs in apparel design and production. The course will discuss and examine a variety of current approaches including those that are interdisciplinary and utilize design thinking in a fashion industry context. Students will use methods and tools for fashion research to explore new techniques in the development of design concepts that challenge current practice. Students are encouraged to think critically about design problems and processes while seeking discoveries through experimentation, resulting in a body of work examined by critique and exhibition. Examinable material includes written and visual documentation, which is then retained as the archival record of the research.
Prerequisite: Graduate standing; and special approval from the graduate studies coordinator.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 60199 THESIS I 2-6 Credit Hours
(Repeatable for credit) Thesis students must register for a maximum of 6 credit hours, 2 to 6 credit hours during a single semester, distributed over several semesters if desired.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

FDM 60299 THESIS II 2 Credit Hours
(Course is repeatable) Continuing registration required of master's students who have completed the initial 6 hours of thesis and continuing until all degree requirements are met.
Prerequisite: FDM 60199; and graduate standing; and special approval from the graduate supervisory committee.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

FDM 63011 VISUAL PRESENTATION IN THE FASHION INDUSTRY 3 Credit Hours
This course explores the multiple methods of visual presentation practiced in the fashion industry through applications of digital and physical concepts. Students will examine and discuss current fashion industry approaches utilized by creative talent, merchants, and other stakeholders. Focus will be on developing visual communicators who can convey unique brand stories and complex ideas through use of various forms of media. Students will learn to establish branding and visualization of their own work and research to help promote their professional identity.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65010 SUSTAINABLE CONCEPTS AND PRACTICES IN THE FASHION INDUSTRY 3 Credit Hours
This course will discuss and examine the most current approaches to sustainability in fashion. The different facets, benefits or shortcomings of each approach will be analyzed with an eye to researching viable solutions to future practices in manufacturing, material selection, design and business. Course embeds practice-based approaches to sustainable development.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65045 FASHION INDUSTRY MERCHANDISE MANAGEMENT 3 Credit Hours
This course provides an overview of the merchandising process - planning, developing and presenting merchandise lines within the fashion industry. Core merchandising concepts and principles taught throughout this course include merchandise performance measures, pricing mechanics, wholesale and retail pricing strategy, merchandise budgets and assortment, vendor relationships and negotiations and merchandise replenishment management. This course examines such concepts as applied to manufacturers, wholesalers and retailers of fashion merchandise.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65055 ENTREPRENEURIAL LEADERSHIP AND SUSTAINABILITY IN THE FASHION INDUSTRY 3 Credit Hours
This course discusses the importance of entrepreneurial leadership and innovation as competitive advantages within the fashion industry. Students examine the conscious leadership concepts and principles of both small/medium enterprises and large corporations of the fashion industry. By applying conscious capitalism approach, the course introduces more progressive and purposeful ways to advance sustainable practices to benefit all five stakeholders within the fashion industry - society, partners, investors, customers and employees.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Pre/corequisite: FDM 60005 and FDM 60015.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65065 SUPPLY CHAIN MANAGEMENT IN THE FASHION INDUSTRY 3 Credit Hours
This course examines supply chain within the fashion industry and basic theories and principles that guide decision-making in the supply chain. Students will learn how supply chain management can be used to gain a competitive advantage in the fashion industry, comprehend buyer-supplier relationships, supply chain transparency, product recalls, sourcing issues, and other challenges in the global fashion supply chain. Attention will be given to understanding sustainable practices and future developments within the global fashion supply chain.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65095 FASHION INDUSTRY SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Variable content relevant to the field of fashion.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

FDM 65096 INDIVIDUAL INVESTIGATION IN THE FASHION INDUSTRY 1-3 Credit Hours
(Repeatable for credit) Individual investigation of a topic that is not available through the current curriculum offerings. Requires submission of and approval of project proposal prior to registration.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

FDM 65100 SUSTAINABLE SUPPLY CHAIN AND LIFE CYCLE ASSESSMENT IN THE FASHION INDUSTRY 3 Credit Hours
This course examines the traditional and sustainable supply chain within the fashion industry. There is a focus on basic theories and principles that guide decision making, including current challenges in converting from traditional practices to environmentally and socially protective supply chains. Students learn how sustainably focused supply chain management can be used to gain a competitive advantage in the fashion industry through supply chain transparency and LCA metric development.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65110 CIRCULAR ECONOMY STRATEGIES IN THE FASHION INDUSTRY 3 Credit Hours
Throughout discussions of sustainability, a circular economy is considered the ultimate goal post by which we must measure success. To fully realize a sustainable future, we must design out waste and pollution and fundamentally rethink the fashion system that currently relies on a take/make/waste construct. This course examines what a circular economy might look like in the fashion industry, what things need to happen to get there and what initial steps look like in that direction.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65120 FIBER AND TEXTILE INNOVATION 3 Credit Hours
This course introduces current and emerging fiber and textile innovations relevant to the fashion industry and provides students an opportunity to explore the expanding potential of textiles as an adaptive and responsive interface between humans and their environment. Examples of applications are reviewed from four perspectives: (1) fiber and textile innovation with a focus on material production and selection implications; (2) manufacturing and processing basics; (3) implications for the life cycle and sustainability of the resulting textile and apparel products; and (4) human body-functional textile interactions and potential health implications.
Prerequisite: Fashion Industry Studies major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

FDM 65220 INNOVATIONS IN THE FASHION RETAIL INDUSTRY 3 Credit Hours
This course encompasses how various innovations create the optimal customer experience to gain competitive advantages in the 21st century retail environment. Using the perspective of omnichannel retailing, which is a fully integrated approach to commerce that provides shoppers a unified experience across all channels or touchpoints, students explore the various innovations relevant to the fashion retail industry. Through case study analysis and final project reports, students present pragmatic solutions to retailers of their choice.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

FDM 65300 DIGITAL KNIT DESIGN 3 Credit Hours
This course focuses on digital knitting as utilized by a designer. The students use available software for 3D development of products and stitch design. The course focuses on stitch understanding and development, as well as communication of designs both stitch and shape using 3D virtualization software and stitch development software. This course is geared toward designers with industry studio practice and is at an advanced level.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 65310 DIGITAL KNIT PROGRAMMING I 3 Credit Hours
This course focuses on digital knitting and programming of industrial knitting machines. This is one of four digital knit courses that enables students to learn proprietary software, programming and technical knit skills. The course goes through the foundational understanding of stitches and how to program them on industrial knitting machines. The course also focuses on hands-on learning on the industrial machine, including set up of the machine and machine maintenance. This course is geared toward designers with fashion industry studio practice and is at an advanced level.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 65320 DIGITAL KNIT PROGRAMMING II 3 Credit Hours
This course focuses on digital knitting and advanced programming of industrial knitting machines. This is the second of two programming courses and one of the four digital knit courses enabling students to continue to learn complex proprietary software, programming and technical knit skills. The course goes through the understanding of more complex stitch structures, as well as how to program on the machine. The course includes techniques for shaping structures to create three dimensionally knitted textile products. This course is geared toward designers with industry studio practice and is at an advanced level.
Prerequisite: FDM 65310; and graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

FDM 65330 DIGITAL KNIT APPLICATIONS 3 Credit Hours
This course focuses on the application of skills in digital knitting to develop an advanced final product line. This is one of the four digital knit courses that enables students to learn proprietary software, programming and technical knit skills. Depending on the student's focus of either technical or design, the product line can be developed in 3D virtual presentation or actual prototypes. Regardless of focus, it is expected that the student has some representation of both virtual and actual in the final presentation of the product. Along with the product line, presentation is a use case. This course is geared toward designers with industry studio practice and is at an advanced level.
Prerequisite: FDM 65300 or FDM 65310; and graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 6 lab
Grade Mode: Standard Letter

Fashion Design - B.A.

College of the Arts
School of Fashion Design and Merchandising
www.kent.edu/fashion

About This Program

Express your creativity with Kent State's Fashion Design B.A. program. Our program prepares you for a career in the fashion industry by providing a comprehensive curriculum, experienced faculty and state-of-the-art facilities. Enroll now and discover your unique design style. Read more...

Contact Information

- **Kendra Lapolla** | fashionschool@kent.edu | 330-672-3010
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- Fashion designer
- CAD designer
- Creative director
- Illustrator
- Product developer
- Print designer
- Technical designer
- Textile designer
- Product development
- Knit designer
- Knit programmer
- Sourcing

Accreditation

National Association of Schools of Art and Design (NASAD)

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Fashion Design major is selective.

First-Year Students: Prospective applicants must have a minimum 3.000 overall GPA (on a 4.000 scale)(*starting with the fall 2026 admission term, a minimum 2.750 overall GPA is required).*

Transfer Students: Prospective applicants must have a minimum 2.750 overall GPA based on minimum 24 credit hours of college-level coursework at an accredited institution. Those students meeting this GPA requirement but with fewer than 24 credit hours will be evaluated as new freshmen.

Students who do not meet the criteria for admission to the Fashion Design major may be eligible for admission to the Pre-Fashion Design and Merchandising non-degree major. *Starting with the fall 2026 admission term, students who do not meet the criteria for admission to the Fashion Design major will be admitted to the* Exploratory Program *in University College.*

In addition, students who do not meet the admission criteria may initiate the process for declaring the B.A. degree in Fashion Design after completing minimum 12 credit hours of non-developmental coursework at Kent State University and earning a minimum 2.750 overall GPA.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
FDM 10010	FASHION FUNDAMENTALS	3
FDM 10023	FASHION VISUALS	1
FDM 10024	FASHION VISUALS LABORATORY	2
FDM 10033	FASHION FABRICS	1
FDM 10034	FASHION FABRICS LABORATORY	2
FDM 10043	SUSTAINABLE FASHION THINKING	1
FDM 10044	SUSTAINABLE FASHION THINKING LABORATORY	2
FDM 10053	INTRODUCTION TO FASHION TECHNOLOGY	1
FDM 10054	INTRODUCTION TO FASHION TECHNOLOGY LABORATORY	2
FDM 15055	BASICS OF APPAREL CONSTRUCTION	3
FDM 20013	HISTORY OF FASHION	3
FDM 20050	FASHION TECHNOLOGY APPLICATIONS	3
FDM 20121	FASHION DRAWING	3
FDM 20123	FASHION DESIGN CONCEPTS	3
FDM 20156	2-D FASHION DESIGN PRACTICE	3
FDM 20157	3-D FASHION DESIGN PRACTICE	3
FDM 35010	CONTEMPORARY FASHION DESIGNERS (WIC) [1]	3
FDM 40121	FASHION PORTFOLIO I	3
FDM 40122	FASHION PORTFOLIO II	3
FDM 45292	INTERNSHIP IN FASHION DESIGN (ELR)	3
Fashion Study Away Requirement [2]		
Additional Major Electives, choose from the following: [3]		15
Any Fashion Design and Merchandising (FDM) course		
Any Accounting (ACCT) Upper-Division course (30000 or 40000 level)		
Any Architectural Studies (ARCS) Upper-Division course (30000 or 40000 level)		
Any Art History (ARTH) Upper-Division course (30000 or 40000 level)		
Any Art Studio Art (ARTS) Upper-Division course (30000 or 40000 level)		
Any Business Administration Interdisciplinary (BUS) Upper-Division course (30000 or 40000 level)		
Any Business Analytics (BA) Upper-Division course (30000 or 40000 level)		
Any Computer Information Systems (CIS) Upper-Division course (30000 or 40000 level)		
Any Design Innovation (DI) Upper-Division course (30000 or 40000 level)		
Any Economics (ECON) Upper-Division course (30000 or 40000 level)		
Any Entrepreneurship (ENTR) Upper-Division course (30000 or 40000 level)		
Any Finance (FIN) Upper-Division course (30000 or 40000 level)		
Any Management (MGMT) Upper-Division course (30000 or 40000 level)		
Any Marketing (MKTG) Upper-Division course (30000 or 40000 level)		
Any Media and Journalism (MDJ) Upper-Division course (30000 or 40000 level)		
Any Theatre (THEA) Upper-Division course (30000 or 40000 level)		
Any Visual Communication Design (VCD) Upper-Division course (30000 or 40000 level)		
Fashion Design Studio I Electives, choose from the following:		6
FDM 30161	FASHION DESIGN STUDIO I	
FDM 30189	FLORENCE FASHION DESIGN STUDIO I (DIVG) (ELR)	
FDM 30190	NEW YORK CITY FASHION DESIGN STUDIO I (ELR)	
FDM 30389	PARIS FASHION DESIGN STUDIO I (DIVG) (ELR)	
Fashion Design Studio II Electives, choose from the following:		6
FDM 30162	FASHION DESIGN STUDIO II	
FDM 30289	FLORENCE FASHION DESIGN STUDIO II (DIVG) (ELR)	
FDM 30290	NEW YORK CITY FASHION DESIGN STUDIO II (ELR)	
FDM 30489	PARIS FASHION DESIGN STUDIO II (DIVG) (ELR)	
Additional Requirements (courses do not count in major GPA)		
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Humanities		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		4
Minimum Total Credit Hours:		**120**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

2 Students are required to participate in a study away opportunity. Students must have a minimum 2.500 overall GPA to participate in this study away requirement. Choose from the following: FDM 30189; FDM 30190; FDM 30289; FDM 30290; FDM 30389; FDM 30489; FDM 35070; FDM 35080; FDM 35089; FDM 35589; FDM 35689; FDM 35789; FDM 35889; FDM 35989; FDM 36589; FDM 45392; FDM 45589; FDM 45590; FDM 45689; OGE 10095.

3 Maximum 6 credit hours of FDM 45093 can be used as an Additional Major Elective. Maximum 6 credit hours from each non-Fashion Design and Merchandising (FDM) subject area can be used as an Additional Major Elective.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Participation in a study abroad/away experience
- Minimum 2.500 overall GPA required for internship
- Minimum 2.500 overall GPA required for study away

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	FDM 10010	FASHION FUNDAMENTALS	3
	FDM 10023	FASHION VISUALS	1
	FDM 10024	FASHION VISUALS LABORATORY	2
	FDM 15055	BASICS OF APPAREL CONSTRUCTION	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	FDM 10033	FASHION FABRICS	1
!	FDM 10034	FASHION FABRICS LABORATORY	2
!	FDM 10043	SUSTAINABLE FASHION THINKING	1
!	FDM 10044	SUSTAINABLE FASHION THINKING LABORATORY	2
	FDM 10053	INTRODUCTION TO FASHION TECHNOLOGY	1
	FDM 10054	INTRODUCTION TO FASHION TECHNOLOGY LABORATORY	2
	MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	FDM 20050	FASHION TECHNOLOGY APPLICATIONS	3
!	FDM 20121	FASHION DRAWING	3
!	FDM 20156	2-D FASHION DESIGN PRACTICE	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	FDM 20013	HISTORY OF FASHION	3
!	FDM 20123	FASHION DESIGN CONCEPTS	3
!	FDM 20157	3-D FASHION DESIGN PRACTICE	3
	MKTG 25010	PRINCIPLES OF MARKETING	3
	Additional Major Elective		3
		Credit Hours	**15**
	Semester Five		
	FDM 35010	CONTEMPORARY FASHION DESIGNERS (WIC)	3
!	Fashion Design Studio I Electives		6
	Additional Major Elective		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Six		
!	Fashion Design Studio II Electives		6
	Additional Major Elective		3
	Kent Core Requirement		3
		Credit Hours	**12**
	Third Summer Term		
	FDM 45292	INTERNSHIP IN FASHION DESIGN (ELR)	3
		Credit Hours	**3**
	Semester Seven		
	ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
!	FDM 40121	FASHION PORTFOLIO I	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**15**
	Semester Eight		
	ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
!	FDM 40122	FASHION PORTFOLIO II	3
	Additional Major Electives		6
	General Elective		1
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the fashion industry, fashion markets, fashion products and services.
2. Integrate conceptual, technical and production design knowledge and skills, leading to a synthesis of the design process from concept to production.
3. Apply skills in the use of basic tools, techniques and processes sufficient to produce work from draft or specifications to finished product, including skills with portfolio preparation.
4. Use conceptual and critical thinking skills that are applicable to the fashion industry.
5. Employ research processes and practices used within the fashion industry.
6. Demonstrate professionalism and communication skills within the appropriate creative industry.

Program Policies
Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

Full Description

The Bachelor of Arts degree in Fashion Design integrates conceptual, technical and production design knowledge and skills, leading to a synthesis of the design process from concept to production. These processes include color, design and trend research; technical sketching and rendered illustration; pattern-making and garment construction; analysis of appropriate fit and fabric selection; best practices in sustainable methods and knowledge and the ability to communicate specifications for production using industry standards appropriate to specific markets.

The B.A. degree in Fashion Design promotes an emphasis on the diversity of studio practice and liberal art experiences with the most up to date technology applications. Students have the option to select coursework offerings to gain expertise in a variety of specialties that connect directly to fashion design, such as wearable technology applications, sustainable development and design, garment knitting, illustration and/or accessory design.

The degree program prepares students for professional careers by developing technical competency, creative/independent problem solving and conceptual understanding necessary for the challenges of a career in the creative industries. Students develop portfolios for presentation at industry interviews and are prepared to be strongly competitive for any entry-level design position in the industry.

Students participate in a study abroad/away experience, which includes opportunities to study for a semester in New York City; Florence, Italy; and Paris, France, as well as through collaborative partnership programs with universities in Hong Kong, South Korea and London.

While enrolled in junior-level fashion design studio courses, fashion design students may complete the application process to declare the Bachelor of Fine Arts degree or choose to continue pursuing the B.A. degree. The decision of which degree is best for a particular student depends on the student's educational and career goals, academic standing, performance in studio coursework and an approved B.F.A. proposal.

Fashion Design - B.F.A.

College of the Arts
School of Fashion Design and Merchandising
www.kent.edu/fashion

About This Program

The Fashion Design B.F.A. program offers a specialized curriculum, experienced faculty and real-world opportunities to help you develop your creative talent and succeed in the fashion industry. Enroll now and take your design skills to the next level. Read more...

Contact Information

- **Kendra Lapolla** | fashionschool@kent.edu | 330-672-3010
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers

- Fashion designer
- Creative director
- Illustrator
- Product developer
- Print designer
- Technical designer
- Textile designer
- Knit designer
- Knit programmer
- Sourcing

Accreditation

National Association of Schools of Art and Design (NASAD)

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Fashion Design - B.F.A. degree is selective and not open to new students at Kent State University. The B.F.A. degree requires applicants to have a minimum 2.750 overall Kent State GPA and the support of Fashion Design faculty. To be considered for the B.F.A. degree, students must be enrolled in junior-level fashion design studio courses and submit a letter of intent and B.F.A. proposal by the established deadlines.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
FDM 10010	FASHION FUNDAMENTALS	3
FDM 10023	FASHION VISUALS	1
FDM 10024	FASHION VISUALS LABORATORY	2
FDM 10033	FASHION FABRICS	1
FDM 10034	FASHION FABRICS LABORATORY	2
FDM 10043	SUSTAINABLE FASHION THINKING	1
FDM 10044	SUSTAINABLE FASHION THINKING LABORATORY	2
FDM 10053	INTRODUCTION TO FASHION TECHNOLOGY	1
FDM 10054	INTRODUCTION TO FASHION TECHNOLOGY LABORATORY	2
FDM 15055	BASICS OF APPAREL CONSTRUCTION	3
FDM 20013	HISTORY OF FASHION	3
FDM 20050	FASHION TECHNOLOGY APPLICATIONS	3
FDM 20121	FASHION DRAWING	3
FDM 20123	FASHION DESIGN CONCEPTS	3
FDM 20156	2-D FASHION DESIGN PRACTICE	3
FDM 20157	3-D FASHION DESIGN PRACTICE	3
FDM 35010	CONTEMPORARY FASHION DESIGNERS (WIC) [1]	3
FDM 40099	SENIOR FASHION DESIGN THESIS I (ELR)	6
FDM 40121	FASHION PORTFOLIO I	3
FDM 40122	FASHION PORTFOLIO II	3
FDM 40199	SENIOR FASHION DESIGN THESIS II (ELR)	3
FDM 45292	INTERNSHIP IN FASHION DESIGN (ELR)	3
Fashion Study Away Requirement [2]		
Additional Major Electives, choose from the following: [3]		10
Any Fashion Design and Merchandising (FDM) course		
Any Accounting (ACCT) Upper-Division course (30000 or 40000 level)		
Any Architectural Studies (ARCS) Upper-Division course (30000 or 40000 level)		
Any Art History (ARTH) Upper-Division course (30000 or 40000 level)		
Any Art Studio (ARTS) Upper-Division course (30000 or 40000 level)		
Any Business Administration Interdisciplinary (BUS) Upper-Division course (30000 or 40000 level)		
Any Business Analytics (BA) Upper-Division course (30000 or 40000 level)		
Any Computer Information Systems (CIS) Upper-Division course (30000 or 40000 level)		
Any Design Innovation (DI) Upper-Division course (30000 or 40000 level)		
Any Economics (ECON) Upper-Division course (30000 or 40000 level)		
Any Entrepreneurship (ENTR) Upper-Division course (30000 or 40000 level)		
Any Finance (FIN) Upper-Division course (30000 or 40000 level)		
Any Management (MGMT) Upper-Division course (30000 or 40000 level)		
Any Marketing (MKTG) Upper-Division course (30000 or 40000 level)		
Any Media and Journalism (MDJ) Upper-Division course (30000 or 40000 level)		
Any Theatre (THEA) Upper-Division course (30000 or 40000 level)		
Any Visual Communication Design (VCD) Upper-Division course (30000 or 40000 level)		
Fashion Design Studio I Electives, choose from the following:		6
FDM 30161	FASHION DESIGN STUDIO I	
FDM 30189	FLORENCE FASHION DESIGN STUDIO I (DIVG) (ELR)	
FDM 30190	NEW YORK CITY FASHION DESIGN STUDIO I (ELR)	
FDM 30389	PARIS FASHION DESIGN STUDIO I (DIVG) (ELR)	
Fashion Design Studio II Electives, choose from the following:		6
FDM 30162	FASHION DESIGN STUDIO II	
FDM 30289	FLORENCE FASHION DESIGN STUDIO II (DIVG) (ELR)	
FDM 30290	NEW YORK CITY FASHION DESIGN STUDIO II (ELR)	
FDM 30489	PARIS FASHION DESIGN STUDIO II (DIVG) (ELR)	
Additional Requirements (courses do not count in major GPA)		
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Humanities		3
Kent Core Additional		6
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Students are required to participate in a study away opportunity. Students must have a minimum 2.500 overall GPA to participate in this study away requirement. Choose from the following: FDM 30189; FDM 30190; FDM 30289; FDM 30290; FDM 30389; FDM 30489; FDM 35070; FDM 35080; FDM 35089; FDM 35589; FDM 35689; FDM 35789; FDM 35889; FDM 35989; FDM 36589; FDM 45392; FDM 45589; FDM 45590; FDM 45689; OGE 10095.

[3] Maximum 6 credit hours of FDM 45093 can be used as an Additional Major Elective. Maximum 6 credit hours from each non-Fashion Design and Merchandising (FDM) subject area can be used as an Additional Major Elective.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Participation in a study abroad/away experience
- Minimum 2.500 overall GPA required for internship
- Minimum 2.500 overall GPA required for study away

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	FDM 10010	FASHION FUNDAMENTALS	3
	FDM 10023	FASHION VISUALS	1
	FDM 10024	FASHION VISUALS LABORATORY	2
	FDM 15055	BASICS OF APPAREL CONSTRUCTION	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
!	FDM 10033	FASHION FABRICS	1
!	FDM 10034	FASHION FABRICS LABORATORY	2
!	FDM 10043	SUSTAINABLE FASHION THINKING	1
!	FDM 10044	SUSTAINABLE FASHION THINKING LABORATORY	2
	FDM 10053	INTRODUCTION TO FASHION TECHNOLOGY	1
	FDM 10054	INTRODUCTION TO FASHION TECHNOLOGY LABORATORY	2
	MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	FDM 20050	FASHION TECHNOLOGY APPLICATIONS	3
!	FDM 20121	FASHION DRAWING	3
!	FDM 20156	2-D FASHION DESIGN PRACTICE	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	FDM 20013	HISTORY OF FASHION	3
!	FDM 20123	FASHION DESIGN CONCEPTS	3
!	FDM 20157	3-D FASHION DESIGN PRACTICE	3
	MKTG 25010	PRINCIPLES OF MARKETING	3
	Additional Major Elective		3
		Credit Hours	**15**
	Semester Five		
	FDM 35010	CONTEMPORARY FASHION DESIGNERS (WIC)	3
!	Fashion Design Studio I Electives		6
	Additional Major Elective		2
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Six		
!	Fashion Design Studio II Electives		6
	Additional Major Elective		2
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Third Summer Term		
	FDM 45292	INTERNSHIP IN FASHION DESIGN (ELR)	3
		Credit Hours	**3**
	Semester Seven		
	ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
!	FDM 40099	SENIOR FASHION DESIGN THESIS I (ELR)	6
!	FDM 40121	FASHION PORTFOLIO I	3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Eight		
	ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
!	FDM 40122	FASHION PORTFOLIO II	3
!	FDM 40199	SENIOR FASHION DESIGN THESIS II (ELR)	3
	Additional Major Elective		3
		Credit Hours	**12**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours

Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the fashion industry, fashion markets, fashion products and services.
2. Integrate conceptual, technical and production design knowledge and skills, leading to a synthesis of the design process from concept to production.
3. Apply skills in the use of basic tools, techniques and processes sufficient to produce work from draft or specifications to finished product, including skills in portfolio preparation.
4. Use conceptual and critical thinking skills that are applicable to the fashion industry.
5. Employ research processes and practices used in the fashion industry.
6. Demonstrate professionalism and communication skills in the appropriate creative industry.

Program Policies

Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

Full Description

The Bachelor of Fine Arts degree in Fashion Design integrates conceptual, technical and production design knowledge and skills, leading to a synthesis of the design process from concept to production. These processes include color, design and trend research; technical sketching and rendered illustration; pattern-making and garment construction; analysis of appropriate fit and fabric selection; best practices in sustainable methods and knowledge and the ability to communicate specifications for production using industry standards appropriate to specific markets.

The degree program prepares students for professional careers by developing technical competency, creative/independent problem solving and conceptual understanding necessary for the challenges of a career in the creative industries. Students develop portfolios for presentation at industry interviews and are prepared to be strongly competitive for any entry-level design position in the industry.

Students participate in a study abroad/away experience, which includes opportunities to study for a semester in New York City; Florence, Italy; and Paris, France, as well as through collaborative partnership programs with universities in Hong Kong, South Korea and London.

The B.F.A. degree in Fashion Design engages students in a focused-study thesis project (collection development) as a capstone experience that results in submitting their collection for formal review by faculty and industry designer-critics, followed by public presentation in a fashion venue and completion of a thesis "magazine" (print collateral).

Fashion Industry Studies - M.F.I.S.

College of the Arts
School of Fashion Design and Merchandising
www.kent.edu/fashion

About This Program

The global fashion industry is competitive, but also offers an incredibly rewarding career. With our Master of Fashion Industry Studies degree, you can gain real-world experience, valuable connections and an in-depth understanding of fashion's global value chain to stand out and thrive in the industry. Read more...

Contact Information

- **Jihyun Kim-Vick, Ph.D.** | mfis@kent.edu | 330-672-1473
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Kent Campus

Applications to the online M.F..I. S. degree are not being accepted until the fall 2026 admission term.

Examples of Possible Careers and Salaries*

Fashion designers

- -4.4% decline
- 28,300 number of jobs
- $75,810 potential earnings

Buyers and purchasing agents

- -8.8% decline
- 449,300 number of jobs
- $66,690 potential earnings

Market research analysts and marketing specialists

- 17.7% much faster than the average
- 738,100 number of jobs
- $65,810 potential earnings

Additional Careers

- Fashion entrepreneur
- Supply chain director or manager
- Assistant buyer
- Inventory planning analyst

Accreditation

National Association of Schools of Art and Design (NASAD)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the online M.F..I. S. degree are not being accepted until the fall 2026 admission term.

- Bachelor's degree from an accredited college or university[1]
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcripts(s)
- GRE or GMAT scores if GPA is below 3.000 for conditional admission
- Résumé
- Goal statement (maximum 1,000 words) relating career/academic goals and research interests as they relate to critical issue(s) the applicant has identified in current fashion industry practice
- Supportive materials that demonstrate research and writing capabilities (e.g., significant term paper, research project report)
  - Design-focused applicants may also submit an optional visual portfolio with a minimum 5-10 examples of work in any media documenting the design process
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 94 TOEFL iBT score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 DET score

[1] Students who are expecting to pursue coursework or thesis research in a design topic are required to possess a bachelor's degree in fashion design **or** a bachelor's degree in a related field and substantial employment experience (minimum two years) in the fashion industry.

[2] International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
  - Funding deadline: February 15
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) must be submitted by this deadline to be considered for an assistantship or any other funded position.
  - Application deadline: April 15
    All application materials (including applicable fee, transcripts, recommendation letters, etc.) received after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
FDM 60005	RESEARCH METHODS IN THE FASHION INDUSTRY	3
FDM 60015	FASHION SYSTEMS THINKING	3
FDM 60025	GLOBAL CONSUMER IN THE FASHION INDUSTRY	3
FDM 60092	FASHION INDUSTRY PRACTICUM [1]	3
FDM 65055	ENTREPRENEURIAL LEADERSHIP AND SUSTAINABILITY IN THE FASHION INDUSTRY	3
FDM 65110	CIRCULAR ECONOMY STRATEGIES IN THE FASHION INDUSTRY	3
Major Electives, choose from the following: [2]		3-6
FDM 65045	FASHION INDUSTRY MERCHANDISE MANAGEMENT	
FDM 65096	INDIVIDUAL INVESTIGATION IN THE FASHION INDUSTRY	
FDM 65100	SUSTAINABLE SUPPLY CHAIN AND LIFE CYCLE ASSESSMENT IN THE FASHION INDUSTRY	
FDM 65120	FIBER AND TEXTILE INNOVATION	
FDM 65220	INNOVATIONS IN THE FASHION RETAIL INDUSTRY	
Non-Fashion Elective from Cognate Area:		3
Any Africana Studies (AFS) Graduate course (50000 or 60000 level)		
Any Anthropology (ANTH) Graduate course (50000 or 60000 level)		
Any Architecture (ARCH) Graduate course (50000 or 60000 level)		
Any Art History (ARTH) Graduate course (50000 or 60000 level)		
Any Art Studio Art (ARTS) Graduate course (50000 or 60000 level)		

Any Athletic Training (ATTR) Graduate course (50000 or 60000 level)		
Any Business Analytics (BA) Graduate course (50000 or 60000 level)		
Any Communication Studies (COMM) Graduate course (50000 or 60000 level)		
Any Computer Science (CS) Graduate course (50000 or 60000 level)		
Any Economics (ECON) Graduate course (50000 or 60000 level)		
Any Emerging Media and Technology (EMAT) Graduate course (50000 or 60000 level)		
Any Exercise Physiology (EXPH) Graduate course (50000 or 60000 level)		
Any Gerontology (GERO) Graduate course (50000 or 60000 level)		
Any Health Informatics (HI) Graduate course (50000 or 60000 level)		
Any Human Development and Family Science (HDF) Graduate course (50000 or 60000 level)		
Any Human Resource Management (HRM) Graduate course (50000 or 60000 level)		
Any Knowledge Management (KM) Graduate course (50000 or 60000 level)		
Any Management (MGMT) Graduate course (50000 or 60000 level)		
Any Marketing (MKTG) Graduate course (50000 or 60000 level)		
Any Mathematics (MATH) Graduate course (50000 or 60000 level)		
Any Media and Journalism (MDJ) Graduate course (50000 or 60000 level)		
Any Peace and Conflict Studies (PACS) Graduate course (50000 or 60000 level)		
Any Political Science (POL) Graduate course (50000 or 60000 level)		
Any Psychology (PSYC) Graduate course (50000 or 60000 level)		
Any Research, Measurement and Statistics (RMS) Graduate course (50000 or 60000 level)		
Any Social and Behavioral Sciences (SBS) Graduate course (50000 or 60000 level)		
Any Sociology (SOC) Graduate course (50000 or 60000 level)		
Any Sports Administration (SPAD) Graduate course (50000 or 60000 level)		
Any User Experience (UX) Graduate course (50000 or 60000 level)		
Any Visual Communication Design (VCD) Graduate course (50000 or 60000 level)		
Culminating Requirement		
FDM 60099 or FDM 60199	FASHION INDUSTRY PRACTICUM CAPSTONE [3] THESIS I	3-6
Minimum Total Credit Hours:		**30**

1 Maximum 6 credit hours of FDM 60092 may be applied toward major requirements.

2 Students who select FDM 60099 as their culminating requirement must complete 6 credit hours of major electives to graduate with 30 credit hours for the degree.

3 Students must complete a capstone report or written thesis accompanied by a visual presentation or representation that is successfully defended and approved by a committee of faculty with feedback from an industry partner. The capstone or thesis outcome must demonstrate an innovative and pragmatic research-based solution applicable to the fashion industry.

Progression Requirements

- Good academic standing (minimum 3.000 GPA)

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Students in the M.F.I.S. degree are required to complete 24 credit hours of graded graduate coursework and minimum of 6 credit hours of thesis I **or** 27 credit hours of graded graduate coursework and minimum of 3 credit hours of practicum capstone.
- Students without a fashion background may be required to complete foundational coursework (FDM 10033 and FDM 10034) concurrently during the first semester and either FDM 20030 or FDM 30262. Students must complete these courses within the first 18 credit hours of graduate study. These undergraduate credit hours are in addition to the 30 graduate credit hours required for the M.F.I.S. degree.
- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

First Year			
	Fall Semester		**Credits**
!	FDM 60005	RESEARCH METHODS IN THE FASHION INDUSTRY	3
!	FDM 60015	FASHION SYSTEMS THINKING	3
	Major Elective		3
		Credit Hours	**9**
	Spring Semester		
!	FDM 60025	GLOBAL CONSUMER IN THE FASHION INDUSTRY	3
!	FDM 65110	CIRCULAR ECONOMY STRATEGIES IN THE FASHION INDUSTRY	3
	Major Elective or Non-Fashion Elective from Cognate Area		3
		Credit Hours	**9**
Second Year			
	Fall Semester		
!	FDM 60092	FASHION INDUSTRY PRACTICUM	3
!	FDM 60199	THESIS I	0-3
!	FDM 65055	ENTREPRENEURIAL LEADERSHIP AND SUSTAINABILITY IN THE FASHION INDUSTRY	3
	Major Elective or Non-Fashion Elective from Cognate Area		0-3
		Credit Hours	**9**
	Spring Semester		
!	FDM 60099 or FDM 60199	FASHION INDUSTRY PRACTICUM CAPSTONE or THESIS I	3
		Credit Hours	**3**
		Minimum Total Credit Hours:	**30**

Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze the elements of a fashion industry problem and identify pertinent issues. (Critical Thinking)
2. Employ research methods with appropriate knowledge and technologies to solve industry problems. (Analytical Skills)
3. Analyze and synthesize collected data to generate pragmatic solutions through testing and experimentation that connect fashion history, theory and/or practice(s). (Problem-Solving Skills)
4. Use suitable technologies to make effective visual, spoken and written communications. (Professionalism and Communication)
5. Analyze the complex issues confronting organizations and generate solutions to industry problems that create long-term value and shared prosperity for the broad array of stakeholders. (Environmental and Social Responsibility)
6. Appraise the diverse viewpoints and various cultural factors to draw solutions for fashion industry problems. (Global Mindset)

Full Description

The Master of Fashion Industry Studies degree in Fashion Industry Studies addresses the highly interdisciplinary character of practice within fashion as an industry.

The Fashion Industry Studies major leads to an initial master's degree for the academic advancement of students to engage in learning and experiences applicable to the fashion industry. The degree program prepares professionals who intentionally use cross-disciplinary and applied research methods to address complex issues and provide impactful solutions for the fashion industry.

The curriculum prepares students with critical and analytical skills to address fashion industry challenges, integrating historical and theoretical knowledge while emphasizing effective communication, environmental responsibility and a global perspective.

Fashion Media - Minor

College of the Arts
School of Fashion Design and Merchandising
College of Communication and Information
School of Media and Journalism
www.kent.edu/fashion

About This Program

The Fashion Media minor offers a unique blend of coursework in fashion, journalism and multimedia. Media and journalism students can enroll in the fashion track to learn about the fashion branding and publishing industry. Fashion merchandising students take the media track to learn about fashion media and storytelling. Read more...

Contact Information

- FashionSchool@kent.edu | 330-672-3010
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to the minor is selective, open only to students declared in the Fashion Merchandising major or in a major in the School of Media and Journalism.

To declare the Fashion Media minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
or FDM 35280	FASHION ENTREPRENEURSHIP	
FDM 10010	FASHION FUNDAMENTALS	3
MDJ 41111	FASHION PUBLISHING	3
Media Track or Fashion Track, choose from the following:		15
Media Track for Students Declared in Fashion Merchandising Major		
EMAT 10310	MY STORY ON THE WEB	
FDM 35080	FASHION IN THE MEDIA [1]	
or MDJ 46020	MAGAZINE DESIGN	
MDJ 21008	SOCIAL MEDIA STRATEGIES	
MDJ 26001	WRITING FOR MEDIA	
VCD 47000	VISUAL DESIGN FOR MEDIA	
Fashion Track for Students Declared in Major in School of Media and Journalism		
FDM 25011	FASHION BRANDING	
FDM 35010	CONTEMPORARY FASHION DESIGNERS (WIC)	
FDM 35011	FASHION FORECASTING	
FDM 35080	FASHION IN THE MEDIA [1]	
FDM 45590	STUDY TOUR FOR NYC STUDIO STUDENTS (ELR)	
Minimum Total Credit Hours:		**24**

[1] FDM 35080 must be taken in New York City only.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

For fashion merchandising students, the minor better prepares them to understand their industry from the media perspective. For media and

journalism, the minor exposes them to the fashion publishing industry to better prepare them for work in this business.

Full Description

The Fashion Media minor is for students studying either fashion merchandising or a major in the school of media and journalism.

Fashion merchandising students take the Media Track to learn about the fashion media and better prepare them to understand this industry. The track includes a trip to New York City as a requirement.

Media and Journalism students take the Fashion Track to learn about the fashion publishing industry to better prepare them for work in this business. The track includes the possibility of a trip to New York City to study fashion media.

Fashion Merchandising - B.S.

College of the Arts
School of Fashion Design and Merchandising
www.kent.edu/fashion

About This Program

Earn your degree in Fashion Merchandising and gain the business expertise to thrive in the fashion industry. You will develop skills in retail management, buying, fashion forecasting, promotion and merchandising for apparel manufacturing. Expand your global perspective with study experiences in fashion capitals like New York, Paris and Florence, or through partnerships in Hong Kong, South Korea and London. Read more...

Contact Information

- **Gargi Bhaduri** | fashionschool@kent.edu | 330-672-3010
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Buyers and purchasing agents

- -8.8% decline
- 449,300 number of jobs
- $66,690 potential earnings

Sales representatives, wholesale and manufacturing, except technical and scientific products

- 0.9% little or no change
- 1,399,700 number of jobs
- $62,070 potential earnings

Additional Careers

- Supply chain manager
- Inventory planner
- Merchant
- Sourcing
- Product development
- Public relations
- Social media
- E-commerce specialist
- Visual merchandiser
- Merchandise analyst
- Allocation analyst
- Supply chain management
- Creative director
- Event planner
- Stylist
- Logistics
- Retail management
- Marketing (mall & shopping centers)
- Trend forecasters
- Museum
- Procurement (buyer & planner) - government, health, entertainment, non-profit, fashion media, editorial

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Fashion Merchandising major is selective.

First-Year Students: Prospective applicants must have a minimum 3.000 overall GPA (on a 4.000 scale)(*starting with the fall 2026 admission term, a minimum 2.750 overall GPA is required).*

Transfer Students: Prospective applicants must have a minimum 2.750 overall GPA based on minimum 24 credit hours of college-level coursework at an accredited institution. Those students meeting this GPA requirement but with fewer than 24 credit hours will be evaluated as new freshmen.

Students who do not meet the criteria for admission to the Fashion Merchandising major may be eligible for admission to the Pre-Fashion Design and Merchandising non-degree major. *Starting with the fall 2026 admission term, students who do not meet the criteria for admission to the Fashion Merchandising major will be admitted to the* Exploratory Program *in University College.*

In addition, students who do not meet the admission criteria may initiate the process for declaring the B.S. degree in Fashion Merchandising after

completing minimum 12 credit hours of non-developmental coursework at Kent State University and earning a minimum 2.750 overall GPA.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
FDM 10010	FASHION FUNDAMENTALS	3
FDM 10023	FASHION VISUALS	1
FDM 10024	FASHION VISUALS LABORATORY	2
FDM 10033	FASHION FABRICS	1
FDM 10034	FASHION FABRICS LABORATORY	2
FDM 10043	SUSTAINABLE FASHION THINKING	1
FDM 10044	SUSTAINABLE FASHION THINKING LABORATORY	2
FDM 10053	INTRODUCTION TO FASHION TECHNOLOGY	1
FDM 10054	INTRODUCTION TO FASHION TECHNOLOGY LABORATORY	2
FDM 20030	FASHION APPAREL ANALYSIS	3
FDM 20263	FASHION RETAIL INDUSTRY	3
FDM 25011	FASHION BRANDING	3
FDM 30083	PROFESSIONAL SEMINAR	3
FDM 30260	PRODUCT DEVELOPMENT IN THE FASHION INDUSTRY	3
FDM 30262	FASHION MERCHANDISE PLANNING AND BUYING	3
FDM 30270	TRENDS AND PREDICTIVE ANALYTICS IN FASHION	3
FDM 40262	DATA-BASED DECISION-MAKING IN FASHION RETAILING	3
FDM 40270	FASHION INDUSTRY RESEARCH METHODS (WIC) [1]	3
FDM 40280	GLOBAL FASHION VALUE CHAIN	3
FDM 40299	APPLIED PRINCIPLES IN FASHION MERCHANDISING (ELR)	3
FDM 45192	INTERNSHIP IN FASHION MERCHANDISING (ELR)	3
Fashion Study Away Requirement [2]		
Additional Major Electives, choose from the following: [3]		9
Any Fashion Design and Merchandising (FDM) course		
Any Accounting (ACCT) Upper-Division course (30000 or 40000 level)		
Any Architectural Studies (ARCS) Upper-Division course (30000 or 40000 level)		
Any Art History (ARTH) Upper-Division course (30000 or 40000 level)		
Any Art Studio Art (ARTS) Upper-Division course (30000 or 40000 level)		
Any Business Administration Interdisciplinary (BUS) Upper-Division course (30000 or 40000 level)		
Any Business Analytics (BA) Upper-Division course (30000 or 40000 level)		
Any Computer Information Systems (CIS) Upper-Division course (30000 or 40000 level)		
Any Design Innovation (DI) Upper-Division course (30000 or 40000 level)		
Any Economics (ECON) Upper-Division course (30000 or 40000 level)		
Any Entrepreneurship (ENTR) Upper-Division course (30000 or 40000 level)		
Any Finance (FIN) Upper-Division course (30000 or 40000 level)		
Any Management (MGMT) Upper-Division course (30000 or 40000 level)		
Any Marketing (MKTG) Upper-Division course (30000 or 40000 level)		
Any Media and Journalism (MDJ) Upper-Division course (30000 or 40000 level)		
Any Theatre (THEA) Upper-Division course (30000 or 40000 level)		
Any Visual Communication Design (VCD) Upper-Division course (30000 or 40000 level)		
Additional Requirements (courses do not count in major GPA)		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
Minor Requirement and General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [4]		19
Minimum Total Credit Hours:		**120**

1. A minimum C grade must be earned to fulfill the writing-intensive requirement.
2. Students are required to participate in a study away opportunity. Students must have a minimum 2.500 overall GPA to participate in this study away requirement. Choose from the following: FDM 35070; FDM 35080; FDM 35089; FDM 35589; FDM 35689; FDM 35789; FDM 35889; FDM 35989; FDM 36589; FDM 45392; FDM 45589; FDM 45590; FDM 45689; OGE 10095.
3. Maximum 6 credit hours of FDM 45093 can be used as an Additional Major Elective. Maximum 6 credit hours from each non-Fashion Design and Merchandising (FDM) subject area can be used as an Additional Major Elective.
4. Students are required to declare and complete a minor as part of the fashion merchandising program. Students may select any minor available at Kent State, but it should be aligned with the student's overall educational and career goals. Number of credit hours depends on the minor selected.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Participation in a study abroad/away experience
- Minimum 2.500 overall GPA required for study away
- Minimum 2.500 overall GPA required for internship

- Students must declare and graduate with a minor to earn the B.S. degree in Fashion Merchandising.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	FDM 10010	FASHION FUNDAMENTALS	3
	FDM 10023	FASHION VISUALS	1
	FDM 10024	FASHION VISUALS LABORATORY	2
	FDM 10043	SUSTAINABLE FASHION THINKING	1
	FDM 10044	SUSTAINABLE FASHION THINKING LABORATORY	2
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	FDM 10053	INTRODUCTION TO FASHION TECHNOLOGY	1
	FDM 10054	INTRODUCTION TO FASHION TECHNOLOGY LABORATORY	2
	MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
!	FDM 10033	FASHION FABRICS	1
!	FDM 10034	FASHION FABRICS LABORATORY	2
	FDM 20263	FASHION RETAIL INDUSTRY	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	FDM 20030	FASHION APPAREL ANALYSIS	3
	FDM 25011	FASHION BRANDING	3
	MKTG 25010	PRINCIPLES OF MARKETING	3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
	FDM 30083	PROFESSIONAL SEMINAR	3
	FDM 30262	FASHION MERCHANDISE PLANNING AND BUYING	3
	FDM 30270	TRENDS AND PREDICTIVE ANALYTICS IN FASHION	3
	Kent Core Requirement		3
	Minor Requirement and/or General Elective		3
		Credit Hours	**15**
	Semester Six		
	FDM 30260	PRODUCT DEVELOPMENT IN THE FASHION INDUSTRY	3
	Additional Major Electives		6
	Minor Requirements and/or General Electives		6
		Credit Hours	**15**
	Third Summer Term		
	FDM 45192	INTERNSHIP IN FASHION MERCHANDISING (ELR)	3
		Credit Hours	**3**
	Semester Seven		
	FDM 40262	DATA-BASED DECISION-MAKING IN FASHION RETAILING	3
	FDM 40270	FASHION INDUSTRY RESEARCH METHODS (WIC)	3
	Additional Major Elective		3
	Minor Requirement and/or General Elective		3
		Credit Hours	**12**
	Semester Eight		
	FDM 40280	GLOBAL FASHION VALUE CHAIN	3
!	FDM 40299	APPLIED PRINCIPLES IN FASHION MERCHANDISING (ELR)	3
	Minor Requirements and/or General Electives		7
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Explain the components and processes of the fashion industry, fashion markets, fashion products and services to meet consumer needs.
2. Integrate knowledge of the fashion industry into real world scenarios through a variety of reflective, industry-focused experiential learning opportunities.
3. Apply critical thinking skills to various segments of the fashion value chain in forming strategic business decisions.
4. Apply research practices and systematic analyses to solve problems within the fashion industry.
5. Demonstrate professionalism and communication skills required within the fashion industry through visual, oral and written forms.

Program Policies
Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

Full Description

The Bachelor of Science degree in Fashion Merchandising allows for students to acquire a thorough background in the business aspects of the fashion industry, whereby they develop competencies in fashion theory, retail operations, management and buying, fashion forecasting and promotion, the merchandising for apparel manufacturing and the development and marketing of fashion goods.

Students participate in a study abroad/away experience, which includes opportunities to study for a semester in New York City; Florence, Italy; and Paris, France, as well as through collaborative partnership programs with universities in Hong Kong, South Korea and London.

Students in the Fashion Merchandising major must declare a minor at Kent State.

In addition, students in the Fashion Merchandising major have the opportunity to enroll in the combined degree program with the Master of Business Administration degree. The combined B.S./M.B.A. degree program allows high-achieving undergraduate students early admission into graduate school. Students enrolled in the combined degree program complete a maximum of 9 credit hours of graduate-level coursework for the M.B.A. degree during their senior year. This allows a student to accelerate their completion of the M.B.A degree after being awarded their undergraduate degree. Students complete a minimum of 150 credit hours (120 representing the B.S. degree in Fashion Merchandising and at least an additional 30 representing the M.B.A. degree). To be eligible for the combined degree program, students must first complete a minimum of 90 credit hours in the Fashion Merchandising major with at least a 3.300 overall grade point average. Upon achieving these requirements, students submit an admissions application to the M.B.A. program by the set application deadline. Students need to satisfy all requirements for the graduate admissions application.

Students in the Fashion Merchandising major can also pursue the B.S. Fashion Merchandising to Juris Doctor (JD) 3+3 degree pathway through Kent State University's partnership with three Northeast Ohio law schools (Case Western Reserve University School of Law, Cleveland State University College of Law and the University of Akron School of Law). Interested students follow a three-year set degree plan and work closely with Kent State University's Pre-Law Center. During the first three years, students complete almost all their general education and major requirements. During year four, students begin their first year of law school courses. Upon successful completion of the first year of law school courses, these credit hours are transferred back to Kent State University to complete the bachelor's degree. After graduating, students complete their last two years of law school to earn their Juris Doctor.

School of Music

College of the Arts
School of Music
E101 Center for the Performing Arts
Kent Campus
330-672-2172
schoolofmusic@kent.edu
www.kent.edu/music

Undergraduate Programs

- Music - B.A.
- Music - B.M.
- Music Education - B.M.
- Music Technology - B.S.

Minors

- Jazz Studies
- Music
- Music in Audio Recording
- Music Technology
- World Music

Graduate Programs

-
- Ethnomusicology - M.A.
- Music Education - M.M.
- Music Education - Ph.D.
- Music Theory - M.A.
- Music Theory - Composition - Ph.D.
- Performance - M.M.

School of Music Faculty

- Anderson, Ian (2015), Associate Professor, M.F.A., Middle Tennessee State University, 2009
- Bagwell, Dawn M. (2011), Assistant Professor, M.M., Kent State University, 2012
- Berg, Marla (2009), Associate Professor, M.M., Cleveland Institute of Music, 1983
- Birch, Sebastian A. (2002), Associate Professor, D.M.A., Cleveland Institute of Music, 1997
- Culver, Timothy M. (1999), Professor, M.M., Kent State University, 2002
- Dorfman, Jay (2006), Professor, Ph.D., Northwestern University, 2006
- Fucci, Melissa D. (2002), Professor, M.M., Kent State University, 2009
- Holm, Matthew D. (2017), Associate Professor, Ph.D., Arizona State University, 2006
- Johnstone, Jennifer L. (2002), Associate Professor, Ph.D., Kent State University, 2012
- Ko, Suyeon (2024), Assistant Professor, D.M., Indiana University, 2019
- Labovitz, Sarah J. (2023), Professor, D.M.A., University of Kansas, 2012
- Lee, Donna (1999), Professor, Ph.D., The Johns Hopkins University, 1999
- Lorenzo, Benjamin (2022), Associate Professor, D.M.A., University of Texas at Austin, 2012
- Marshall, Herbert D. (2019), Associate Professor, Ph.D., Temple University, 2002
- Matthews, Wendy K. (2018), Professor, Ph.D., George Mason University, 2007
- McPherson, Eve (2011), Professor, Ph.D., University of California, Santa Barbara, 2009
- McWilliams, Kent M. (2019), Professor
- Mitchell, David E. (2001), Associate Professor, M.M., University of Akron, 1989
- Nanongkham, Priwan (1998), Assistant Professor, Ph.D., Kent State University, 2011
- Noh, Hyunjoo G. (1998), Associate Professor, Ph.D., Kent State University , 2013
- Nowakowski, Mark (2016), Associate Professor, D.M.A., University of Maryland-College Park, 2013
- Olson, Darin K. (2020), Assistant Professor, D.M.A., The Ohio State University, 2011
- Petrella, Diane H. (2021), Professor
- Petrella, Nicholas E. (2021), Assistant Professor, D.M.A., The University of Iowa, 1998
- Resta, Craig M. (2008), Professor, Ph.D., University of Maryland, University College, 2008
- Roberts, Adam (2018), Associate Professor, Ph.D., Harvard University, 2010
- Seachrist, Denise A. (1988), Professor, Ph.D., Kent State University, 1993
- Selvaggio, Robert (2010), Associate Professor, M.M., Manhattan School of Music, 1995
- Sepulveda, Ricardo A. (2003), Associate Professor, M.M., Kent State University, 2008
- Shahriari, Andrew C. (1993), Professor, Ph.D., Kent State University, 2001
- Sundet, Danna S. (2002), Professor, M.M., Kent State University, 2002
- Swope, Matthew B. (2024), Assistant Professor, D.M.A., University of Cincinnati, 2024
- Terceros, Isaac (2024), Assistant Professor, D.M., Indiana University, 2024
- Tiffe, Janine L. (2011), Associate Professor, Ph.D., Florida State University, 2015
- Vardi, Amitai (2012), Associate Professor, M.M., Cleveland Institute of Music, 2002
- Vaughn, Erin M. (2006), Associate Lecturer, M.M., Kent State University, 2015
- Warsaw, Benjamin (2015), Assistant Professor, B.S., Kent State University, 2017
- White, Jay G. (2011), Professor, D.M.A., University of Maryland-College Park, 2005

Kent Blossom Music (KBM)

KBM 40026 ACCOMPANYING PROJECTS 2-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation master classes and instrumental private lessons. Individual responsibilities change weekly.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 40031 CHAMBER MUSIC 1-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) rehearsal, coaching and performance of representative chamber repertoire from the baroque era through the twentieth century. Woodwinds horn strings and piano. Intensive daily rehearsal and coaching.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 40032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds horn and strings.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 40093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 50026 ACCOMPANYING PROJECTS 2-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) Rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation, master classes and instrumental private lessons. Individual responsibilities change weekly.
Prerequisite: Graduate standing; and audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 50031 CHAMBER MUSIC 1-4 Credit Hours
(Repeatable for credit) Rehearsal, coaching and performance of representative chamber repertoire from the Baroque Era through the twentieth century. Woodwinds, horn, strings and piano. Intensive daily rehearsal and coaching.
Prerequisite: Graduate standing; and audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 50032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds, horn and strings.
Prerequisite: Graduate standing; and audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 50093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Workshop
Contact Hours: 4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 70026 ACCOMPANYING PROJECTS 2-4 Credit Hours
(Repeatable for a maximum of 8 credit hours) Rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation, master classes and instrumental private lessons. Individual responsibilities change weekly.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 70031 CHAMBER MUSIC 1-4 Credit Hours
(Repeatable for credit) Rehearsal, coaching and performance of representative chamber repertoire from the Baroque era through the twentieth century. Woodwinds, brass, strings and piano. Intensive daily rehearsal and coaching.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 70032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour
(Repeatable for a maximum of 2 credit hours) Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds, horn and strings.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

KBM 70093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Workshop
Contact Hours: 4 other
Grade Mode: Satisfactory/Unsatisfactory

Music (MUS)

MUS 11110 MUSIC FUNDAMENTALS 3 Credit Hours
Introduction to the pitch and rhythmic aspects of music. Emphasis on aural skills and music notation. Prepares students for MUS 11111. No credit toward graduation for music majors or minors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 11111 MUSIC RUDIMENTS 3 Credit Hours
Introduction to the pitch and rhythmic aspects of music. Emphasis on aural/oral skills and music notation.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MUS 11121 THEORY I 4 Credit Hours
Basic elements of music--harmonic, melodic, rhythmic--studied through analysis, composition, keyboard and ear training. Diatonic materials emphasized.
Prerequisite: Music Theory Placement Test, score of 02.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 11122 THEORY II 4 Credit Hours
Continuation of basic elements of music--harmonic, melodic, rhythmic--studied through analysis, composition, keyboard, singing and ear training. Chromatic materials emphasized.
Prerequisite: MUS 11121 with a C grade.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 16000 APPLIED MUSIC 1 Credit Hour
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower-division study. Individual study.
An audition is required. This course is not part of the ODHE Transfer Assurance guides.
Prerequisite: Music major or minor; and special approval.
Schedule Type: Private Lesson
Contact Hours: .5 other
Grade Mode: Standard Letter

MUS 16001 APPLIED MUSIC JAZZ 1 Credit Hour
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower-division jazz study. Individual study.
An audition is required. This course is not part of the ODHE Transfer Assurance Guides.
Prerequisite: Jazz Studies minor or non-music major; and special approval.
Schedule Type: Private Lesson
Contact Hours: .5 other
Grade Mode: Standard Letter

MUS 16914 ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles.
Prerequisite: None.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 16915 ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles.
Prerequisite: None.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 17011 PIANO CLASS FOR NONMUSIC STUDENTS 2 Credit Hours
Development of basic skills required in playing piano, including familiarity with the keyboard and music notation.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 17012 PIANO CLASS FOR NONMUSIC STUDENTS 2 Credit Hours
Development of basic skills required in playing piano, including familiarity with the keyboard and music notation.
Prerequisite: MUS 17011.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 17013 FUNDAMENTALS OF JAZZ PIANO 1 Credit Hour
Focus on the fundamentals of jazz piano chord voicings and accompanying, playing scales related to jazz theory and learning jazz repertoire on the piano. Additional skills related to becoming a well-rounded jazz improviser, composer and educator.
Prerequisite: MUS 17111 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 17111 PIANO CLASS I 1 Credit Hour
Preparatory piano. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 17112 PIANO CLASS II 1 Credit Hour
Preparatory piano. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation.
Prerequisite: MUS 17111 with a minimum C grade; and special approval.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 17512 WIND TECHNIQUES I 1 Credit Hour
Study of fundamental performance and pedagogical aspects of woodwind instruments. Content includes performance skill development and exposure to materials suitable for class and private instruction at the elementary and secondary school levels.
Prerequisite: Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 18611 SINGER'S DICTION I 1 Credit Hour
Foundational training and performance practice in phonetics and singing diction for the vocal repertoire of English, Italian and selected other languages.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 18612 SINGER'S DICTION II 1 Credit Hour
Foundational training and performance practice in phonetics and singing diction for the vocal repertoire of French, German and selected other languages.
Prerequisite: MUS 18611 with a C grade; and music major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 20295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours
(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MUS 21111 THEORY III 4 Credit Hours
Study of Western art music from the sixteenth through eighteenth centuries. Emphasis on analytical, aural, compositional, and keyboard components of music theory.
Prerequisite: MUS 11122 with a minimum C grade.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 21112 THEORY IV 4 Credit Hours
Study of Western art music from the nineteenth and early twentieth centuries. Emphasis on analytical, aural, compositional and keyboard components of music theory.
Prerequisite: MUS 21111 with a minimum C grade.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 21113 MUSIC PRODUCTION I 3 Credit Hours
A practical introduction to digital audio production, study of basic computer assisted recording, editing and music production.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 21114 MUSIC PRODUCTION II 3 Credit Hours
A practical study of computer-assisted composition and arranging covering MIDI, sequencing, synthesis, sampling and video synchronization.
Prerequisite: MUS 21113 and MUS 21221 with a minimum C grade; and Music Technology major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 21213 CLASS COMPOSITION I 2 Credit Hours
Introduction to beginning concepts involved with composing. Students in non-music majors may register for the course with departmental approval.
Prerequisite: Music major, Music Education major or Music Technology major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 other
Grade Mode: Standard Letter

MUS 21214 CLASS COMPOSITION II 2 Credit Hours
Application of beginning concepts involved with composing.
Prerequisite: Minimum C grade in MUS 21213.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 other
Grade Mode: Standard Letter

MUS 21221 AUDIO RECORDING I 3 Credit Hours
A study of fundamental studio recording technology, theory and techniques, including signal flow, microphone theory, the human auditory system, analog audio consoles and standard industry digital audio workstations (DAWs).
Prerequisite: MUS 21113 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 21222 AUDIO RECORDING II 3 Credit Hours
A continuation of audio theory and techniques addressed during MUS 21221. This includes study of the decibel, digital audio theory, microphone techniques and fundamental multitrack recording techniques, as well as DAW session setup, file management and recording session etiquette.
Prerequisite: MUS 21221 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 21341 CONTEMPORARY POPULAR MUSIC THEORY 3 Credit Hours
Application of the knowledge gained from music theory (MUS 11121 and MUS 11122) to the study of popular music through practical applications, particularly with regard to composition and improvisation.
Prerequisite: MUS 11122 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 22111 UNDERSTANDING WESTERN MUSIC (KFA) 3 Credit Hours
A listening approach for the understanding of Western art music, folk and jazz. Particular attention is paid to musical style forms and compositional techniques as related to music history.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Fine Arts, Transfer Module Fine Arts

MUS 22121 MUSIC AS A WORLD PHENOMENON (DIVG) (KFA) 3 Credit Hours
An introduction to music as a world phenomenon. Study of selected art, folk and popular music from world cultures through live performances, tapes, films, video tapes and readings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

MUS 22131 SURVEY OF ROCK MUSIC HISTORY (DIVD) 3 Credit Hours
A survey of Rock Music History from the 1950s through the twentieth century to today. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Modern media, especially the Internet, is an integral component of the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

MUS 23241 MUSIC TEACHING AS A PROFESSION 2 Credit Hours
Basic teaching strategies and techniques; an overview of music teaching as a career; diversity, integration, curriculum technology, classroom management, legal issues, personal skills and portfolio. Twenty (20) field hours required.
Prerequisite: Music or music education major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 25011 UNIVERSITY CHORUS 1 Credit Hour
(Repeatable for credit) Choral ensemble which studies and performs sacred and secular music for mixed voices. Activities include performance on and off campus.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 25225 UNIVERSITY BAND 1 Credit Hour
(Repeatable for credit) Study and performance of music literature for wind band appropriate for music majors and non-majors.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

MUS 25311 CHAMBER MUSIC 1 Credit Hour
(Repeatable for credit) The study and performance of music for small ensembles.
Prerequisite: Permission.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

MUS 26111 APPLIED MUSIC PIANO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Must Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 26311 APPLIED MUSIC VOICE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 26411 APPLIED MUSIC - VIOLIN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26412 APPLIED MUSIC - VIOLA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26413 APPLIED MUSIC - CELLO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26414 APPLIED MUSIC DOUBLE BASS 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 26511 APPLIED MUSIC - FLUTE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26512 APPLIED MUSIC - OBOE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26513 APPLIED MUSIC - CLARINET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26514 APPLIED MUSIC - BASSOON 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26515 APPLIED MUSIC - SAXOPHONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26611 APPLIED MUSIC - TRUMPET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26612 APPLIED MUSIC - HORN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26613 APPLIED MUSIC - TROMBONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26614 APPLIED MUSIC - EUPHONIUM 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26615 APPLIED MUSIC - TUBA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 26711 APPLIED MUSIC PERCUSSION 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 26912 APPLIED MUSIC GUITAR 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.
Prerequisite: 26000 Applied Music Test - audition.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 27111 PIANO CLASS III 2 Credit Hours
Continuation of piano classes. Credit acceptable on music major and minor sequences.
Prerequisite: MUS 17112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 27112 PIANO CLASS IV 2 Credit Hours
Continuation of piano classes. Credit acceptable on music major and minor sequences.
Prerequisite: MUS 27111 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 27512 WIND TECHNIQUES II 1 Credit Hour
Study of fundamental performance and pedagogical aspects of brass instruments. Content includes performance skill development and exposure to materials suitable for class and private instruction at the elementary and secondary school levels.
Prerequisite: Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 27513 PERCUSSION TECHNIQUES 1 Credit Hour
Study of various percussion instruments (mallets, snare drum, timpani and auxiliary) and techniques of performance. Designed for music educators with no previous percussion experience.
Prerequisite: Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 31113 MUSIC PRODUCTION III 3 Credit Hours
Continuation of MUS 21114. Advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on arranging.
Prerequisite: Minimum C grade in the following courses: MUS 11121 and MUS 21114 and MUS 21222.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 31114 MUSIC PRODUCTION IV 3 Credit Hours
Continuation of Music Production III. Arranging for acoustic and electronic instruments as applied to music production. Development of MIDI programming skills and use of sample sets.
Prerequisite: MUS 31113 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 31211 COMPOSITION 2-4 Credit Hours
(Repeatable for credit) Original composition for instrumental and vocal solos and small ensembles using shorter musical forms.
Prerequisite: MUS 21214 with a minimum C grade; and Music major or Music Education major.
Schedule Type: Private Lesson, Studio
Contact Hours: 7.5-15 other
Grade Mode: Standard Letter

MUS 31221 AUDIO RECORDING III 3 Credit Hours
A study of advanced recording and record production techniques. Topics include pre-production planning, instrument-specific single and multi-mic techniques, re-amping and other techniques.
Prerequisite: Minimum C grade in the following courses: MUS 11121 and MUS 21114 and MUS 21222.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 31222 AUDIO RECORDING IV 3 Credit Hours
A detailed study of the tools, techniques and critical listening decisions required in creating a professional audio mx.
Prerequisite: MUS 31221 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 31230 GUITAR TECHNOLOGY 2 Credit Hours
Lectures, demonstrations and hands-on assignments geared to develop basic maintenance skills and an understanding of the different types of amps and common outboard effects.
Prerequisite: MUS 21114.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 31260 VOCAL PERFORMANCE TECHNIQUES 2 Credit Hours
Students will learn to use technology to explore their personal artistic creativity and design and market themselves as a performer. Students will have the opportunity to practice and perform with various accompaniments in all current genres and styles. Microphone techniques will also be studied.
Prerequisite: MUS 21114.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 32211 WESTERN MUSIC HISTORY I 3 Credit Hours
A study of Western music history from the early Christian chants through early classical style.
Prerequisite: MUS 11122 with a minimum C grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 32212 WESTERN MUSIC HISTORY II (WIC) 3 Credit Hours
A study of Western music history from the classical style period to the present.
Prerequisite: MUS 32211 with a minimum C grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

MUS 32230 NAVIGATING THE MUSIC INDUSTRY 3 Credit Hours
An overview and study of the music industry. Current practices are examined including artist contracts, music copyright and licensing, and revenue flow from music consumers to content creators. Special emphasis is placed on entrepreneurial activity within the music industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 33211 ELEMENTARY AND SECONDARY GENERAL MUSIC 4 Credit Hours
Kodaly, Orff, Dalcroze and current strategies appropriate for early childhood K-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience in the teaching of general music in the schools. Forty (40) field hours required.
Prerequisite: Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and junior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 1 lab
Grade Mode: Standard Letter

MUS 33214 MUSIC EDUCATION TECHNOLOGY TECHNIQUES 1 Credit Hour
The application of technologies specific to music instruction and learning for music education majors. Emphasis is placed on project-based instruction focusing on the practical uses of technology in school settings. Engagement in standard arranging practices and arranging music for various school settings.
Prerequisite: Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 33231 ELEMENTARY AND SECONDARY CHORAL MUSIC 4 Credit Hours
Methods, materials, and literature used in elementary and secondary choral music programs; designing a choral curriculum, advocacy and assessment, lesson planning, program organization, budget. Clinical experience in the teaching of choral music. Forty (40) field hours required.
Prerequisite: Admission to advanced study; and MUS 23241 and 34111 with a minimum C grade; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

MUS 33314 PROGRESSIVE AND VERNACULAR MUSIC METHODS 2 Credit Hours
Elementary through secondary instruction of music methods related to vernacular and popular music styles. Students gain experience with lesson planning, program organization, recruiting and performing with ensembles that exist outside the band-orchestra-chorus model including, but not limited to, rock bands, technology-based ensembles and other non-traditional ensembles. Experiences focus on popular and vernacular music-making techniques, facilitating small- and large-group instruction and incorporating these experiences within the traditional school music setting.
Prerequisite: MUS 23241 with a minimum C grade; and admission to advanced study; and completion of the music education professional evaluation; and Music Education major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 33315 GENERAL MUSIC METHODS 2 Credit Hours
Kodály, Orff, Dalcroze, Music Learning Theory and current strategies appropriate for early childhood and P-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience for the teaching of general music in schools. 30 field hours required. A current FBI/BCI background check is required.
Prerequisite: MUS 23241 with a minimum C grade; and admission to advanced study; and completion of the music education professional evaluation; and Music or Music Education major; and junior standing.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

MUS 33316 CHORAL MUSIC METHODS 2 Credit Hours
Study and practice of implementing traditional and contemporary choral methods, materials and literature within elementary and secondary choral music programs. Course includes, but is not limited to, experiencing designing a K-12 vocal and choral curriculum, advocacy and assessment specific to choral music, lesson planning, program organization, budget and exposure to philosophical perspectives toward teaching P-12 choral music. 20 clinical field experience hours within choral music teaching are required. Pre/corequisites:
Prerequisite: MUS 11122 and MUS 17111 and MUS 23241; and admission to advanced study; and Music Education major.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

MUS 34111 INTRODUCTION TO CONDUCTING 1 Credit Hour
Introduction to and study of conducting: beat patterns, baton techniques, score reading, analysis and interpretive elements.
Prerequisite: MUS 11122 with a minimum C grade; and junior standing.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 34121 CONDUCTING AND LEADERSHIP IN SCHOOLS 1 Credit Hour
Advanced study of and practice with instrumental and choral conducting, guiding general music environments and leadership of K-12 music classrooms and related settings. Skills and knowledge include conducting gesture, running rehearsals, score study and arranging, working with groups of students, understanding the young mindset of school-based musical groups, listening and responding to musical activities and navigating musical experiences in schools. The course includes additional work with leading groups other than secondary choral and instrumental groups, such as elementary ensembles, modern bands, non-Western ensembles and other ensemble leadership that falls outside of traditional band, orchestra and choir models.
Prerequisite: MUS 21111; and Music or Music Education major; and junior standing.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 34211 ELEMENTARY AND SECONDARY GENERAL MUSIC 2 Credit Hours
Kodaly, Orff, Dalcroze, and current strategies appropriate for early childhood K-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience in the teaching of general music in the schools. Thirty (30) field hours required.
Prerequisite: Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and completion of the music education professional evaluation; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

MUS 34212 ELEMENTARY AND SECONDARY CHORAL MUSIC 2 Credit Hours
Methods, materials, and literature used in elementary and secondary choral music programs; designing a choral curriculum, advocacy and assessment, lesson planning, program organization, budget. Clinical experience in the teaching of choral music. Thirty (30) field hours required.
Prerequisite: Admission to advanced study; and MUS 23241 and 34111 with a minimum C grade; and completion of the music education professional evaluation; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

MUS 35213 STUDIO ENSEMBLE 1 Credit Hour
(Repeatable for a maximum of 16 credit hours) Development of ensemble skills through small group experience performing diverse popular styles from notation, developing improvisation skills and creating arrangements from lead charts. Students must audition for the director prior to registration for the course.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 36011 APPLIED MUSIC JAZZ 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 36111 APPLIED MUSIC PIANO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36311 APPLIED MUSIC VOICE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36411 APPLIED MUSIC VIOLIN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36412 APPLIED MUSIC VIOLA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36413 APPLIED MUSIC CELLO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36414 APPLIED MUSIC DOUBLE BASS 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36511 APPLIED MUSIC FLUTE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36512 APPLIED MUSIC OBOE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36513 APPLIED MUSIC CLARINET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36514 APPLIED MUSIC BASSOON 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36515 APPLIED MUSIC SAXOPHONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36611 APPLIED MUSIC TRUMPET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36612 APPLIED MUSIC HORN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36613 APPLIED MUSIC TROMBONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36614 APPLIED MUSIC EUPHONIUM 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36615 APPLIED MUSIC TUBA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36711 APPLIED MUSIC PERCUSSION 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36912 APPLIED MUSIC GUITAR 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 36913 APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours
(Repeatable for a maximum of 16 credit hours) Development of performance proficiency in contemporary popular music styles appropriate for the performance idiom through individual instruction. Students must audition for the director prior to registration for the course.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36914 ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music and music technology majors; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36915 ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles.
Prerequisite: Music and music technology majors.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36916 DRUM SET PERCUSSION APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music and music technology majors; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36917 KEYBOARD APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music and music technology majors; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36918 CONTEMPORARY VOICE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music and music technology majors; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 36919 FLUTE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36920 CLARINET APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36921 SAXOPHONE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36922 TRUMPET APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36923 HORN APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 36924 TROMBONE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours
(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.
Prerequisite: Music major or music technology major.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 37111 CONTEMPORARY POPULAR PIANO 2 Credit Hours
Development of keyboard applications in contemporary popular music styles with a focus on music theory.
Prerequisite: MUS 17112 with a minimum C grade.
Corequisite: MUS 21341.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 37113 PIANO SKILLS FOR THE CHORAL/GENERAL MUSIC EDUCATOR 2 Credit Hours
Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals.
Prerequisite: MUS 11121 and MUS 17111 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 37114 PIANO SKILLS FOR THE INSTRUMENTAL MUSIC EDUCATOR 1 Credit Hour
Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals.
Prerequisite: MUS 11121 and MUS 17111 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 37512 STRING TECHNIQUES 1 Credit Hour
Discussion and practice of basic principles surrounding classroom string playing, instrumental pedagogy and group process as applied to public school music settings. This course is devoted to string teaching and learning for pre-service music education training.
Prerequisite: Music or Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 37514 VOICE TECHNIQUES 1 Credit Hour
Class instruction covering the fundamentals of singing including breathing, tone, posture, resonance, diction and vocal health. Other topics include anatomy and physiology of the voice.
Prerequisite: Music or Music Education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 38599 RECITAL (ELR) 1 Credit Hour
A culminating educational experience for students to demonstrate their musical understanding and application of ideas, techniques and musical interpretation. This course focuses on the study of a wide range of repertoire and public performance within the student's chosen performing medium.
Prerequisite: Junior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

MUS 40092 MUSIC TECHNOLOGY INTERNSHIP (ELR) 2 Credit Hours
(Repeatable for a maximum of 4 credit hours) On-the-job experience with cooperating business in the field of music technology and preparation of a final report or an applicable project. Students must have a minimum 2.250 major GPA to register for the course.
Prerequisite: MUS 31114 or MUS 31222 with a minimum C grade; and Music Technology major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 8 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

MUS 40295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours
(Slashed with MUS 50295 and MUS 70295)(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MUS 40296 INDEPENDENT STUDY:MUSIC 1-3 Credit Hours
(Repeatable for credit)Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses.
Prerequisite: Music or music education major; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 41010 DOUBLE REED DESIGN AND PRODUCTION 1 Credit Hour
(Slashed with MUS 51010)(Repeatable for credit) This course is an in-depth study of double reed design and production. This course is designed for double reed oboe students and music education students who have completed the woodwind technique course. The students of this course learn to grow and harvest the raw material (Arundo-Donax cane) and age the raw material in a climate-controlled area. The students learn to design and craft double reeds and produce marketable products to meet the highest performance standards.
Prerequisite: Music major or Music minor or Music Education major or Music Technology major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41091 MUSIC LEARNING THEORY APPROACH 3 Credit Hours
(Slashed with MUS 51091 and MUS 71091)(Repeatable for credit) Through the lens of Gordon's Music Learning Theory, the course is focused on P-6 general music and developing effective strategies for learner-centered growth, musicianship, movement, curriculum, inclusion and assessment. This course is offered in conjunction with the Gordon Institute for Music Learning (GIML) and satisfies requirements for GIML PDLC EGM level 1.
Prerequisite: None.
Schedule Type: Laboratory, Seminar
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 41112 WESTERN MUSIC SINCE 1945 1 Credit Hour
The study of Western art music since 1945 from historical and theoretical viewpoints. Emphasis on analysis, composition, listening and intellectual understanding.
Prerequisite: MUS 21112 and MUS 32212 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41113 MUSIC PRODUCTION V 3 Credit Hours
Continuation of Music Production IV, create music to accompany a visual medium by learning fundamental to more advanced film scoring techniques.
Prerequisite: MUS 31114 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41114 MUSIC PRODUCTION VI 3 Credit Hours
Continuation of Music Production V, advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on original music.
Prerequisite: MUS 41113 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41131 KEYBOARD HARMONY 3 Credit Hours
Theoretical skills demonstrated at the keyboard: harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41141 SIXTEENTH-CENTURY COUNTERPOINT 3 Credit Hours
Two-, three -and four part vocal counterpoint in 16th century style.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41151 EIGHTEENTH-CENTURY COUNTERPOINT 3 Credit Hours
Technique of writing counterpoint in 18th-century style, especially that of J. S. Bach.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41161 ADVANCED MUSICAL ANALYSIS 3 Credit Hours
A study of recent approaches to tonal and nontonal musical analysis. Emphasis on familiarity with styles, nomenclature and appropriate graphic techniques.
Prerequisite: MUS 41112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41181 ACOUSTICS AND TECHNOLOGY IN MUSIC 2 Credit Hours
An introduction to acoustics and psychoacoustics in direct relationship to music, and an introduction to uses of technology in music composition, performance, notation, theory, history and pedagogy.
Prerequisite: Music technology major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 41211 COMPOSITION 2,4 Credit Hours
(Repeatable for credit) Study of the materials and techniques of musical composition culminating in original works based upon observable principles of unity and variety.
Prerequisite: Composition or music or music education major.
Schedule Type: Private Lesson, Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 41221 AUDIO RECORDING V 3 Credit Hours
A continuation of Audio Recording IV. Covered topics include advanced mixing techniques using analog console automation, mixing for surround sound, and fundamentals of audio mastering.
Prerequisite: MUS 31222 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41222 AUDIO RECORDING VI 3 Credit Hours
A comprehensive record production experience from pre-production through recording, editing, mixing and mastering a complete audio project. Alternatively, students may opt to complete a research-based thesis document.
Prerequisite: MUS 41221 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41240 AUDIO ELECTRONICS I 3 Credit Hours
This course grants students the opportunity to explore electronics with a focus on applications in audio. Fundamental concepts like Ohm's Law, Joule's Law, resistance, capacitance and AC rectification will be covered, followed by basic transistor, operational amplifier (op amp) and vacuum tube circuits. The course will also visit resonant circuits and filters, transformers, and impedance. Hands-on skills like soldering, breadboarding and circuit simulation will culminate in an individual project in which students will assemble a microphone cable or instrument cable and their choice of microphone or guitar effects pedal from a kit.
Prerequisite: MUS 31221.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MUS 41250 LIVE SOUND PRODUCTION 2 Credit Hours
Students will learn how to spec, assemble, operate and maintain small-to-medium-scale professional public address systems for live concert audio production. The course will culminate in the class providing sound reinforcement for Kent State University at Stark's end-of-semester ensemble concerts.
Prerequisite: MUS 21222.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 41255 MUSIC PRODUCTION SEMINAR 1 Credit Hour
Required for students in the music production sequence, this is a traditional weekly one credit hour seminar course where students will workshop and share their projects, see faculty projects in process, familiarize themselves with vital recent historical works in their area and analyze and discuss fascinating new efforts in the realm of music production and composition.
Prerequisite: MUS 21114.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41291 SEMINAR IN POST-TONAL AND RECENT MUSIC 3 Credit Hours
(Slashed with MUS 51291 and MUS 71291) Seminar covering selected topics about music theory from the early 20th century to recent decades, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 41299 SENIOR PROJECT:MUSIC COMPOSITION (ELR) 2 Credit Hours
(Repeatable for credit)The final composition experience prior to graduation: a recital of individually composed works must be presented.
Prerequisite: MUS 41211 with a minimum C grade.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MUS 41321 ORCHESTRATION 3 Credit Hours
Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 41341 JAZZ IMPROVISATION I 1 Credit Hour
(Slashed with MUS 51341) A beginner's introduction to jazz improvisation. Theory and daily playing are enhanced by ear training.
Prerequisite: Music major or minor.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41342 JAZZ COMPOSING AND ARRANGING 2 Credit Hours
(Slashed with MUS 51342) Composing and arranging for the large and small jazz ensemble.
Prerequisite: Jazz Studies concentration within the Music major or Jazz Studies minor.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 41351 JAZZ IMPROVISATION II 1 Credit Hour
(Slashed with MUS 51351) The presentation of a methodical approach to learning standard jazz repertoire.
Prerequisite: MUS 41341 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 41391 SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY 3 Credit Hours
(Slashed with MUS 51391 and MUS 71391) Seminar covering selected topics about music theory from the high Renaissance to late Romantic period, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: MUS 21112 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 42101 ROOTS OF ROCK 3 Credit Hours
Roots of Rock is a comprehensive survey of the various genres of American music in the 20th century that contributed to the development of rock music. Important performers in various styles and their contributions to the art form are explored. Pioneers in the fields of recording, artist management and production are studied. Rock music's contributions to the emergence of American culture are viewed in the context of social, racial and political changes. The impact of technological advances in radio, recording and television are also studied.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42111 AFRICAN MUSIC AND CULTURES 3 Credit Hours
African music as related to social sciences and humanities. Oral traditions. Use of music recordings, tapes, musical instruments, participation in performance and group work involvement.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42131 MUSIC OF THE UNITED STATES 3 Credit Hours
(Slashed with MUS 52131 and MUS 72131) Historical survey of music in the United States including Native American music, minstrelsy, New England psalmody, jazz and Latin American influences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42141 FOLK MUSIC OF EUROPE AND NORTH AMERICA 3 Credit Hours
(Slashed with MUS 52141) Study of selected music cultures of Eastern and Western Europe, and South, Central and North America.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42151 ASIAN MUSICS 3 Credit Hours
Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42161 HISTORY OF JAZZ (DIVD) 3 Credit Hours
(Slashed with MUS 52161 and MUS 72161) The evolution of jazz from its origin to present.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

MUS 42162 JAZZ STYLES AND ANALYSIS 3 Credit Hours
(Slashed with MUS 52162) An approach to jazz history from the perspective of major artists such as: Louis Armstrong, Duke Ellington, Charlie Parker, Miles Davis and John Coltrane.
Prerequisite: Jazz Studies concentration within the Music major or Jazz Studies minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42165 HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC) 3 Credit Hours
A study of popular music from the 1950s to the present. Course content will highlight significant artists, examine important style elements, and expose students to a variety of repertoire. This course will emphasize music theory and orchestration to understand and differentiate style. An overview of the history and development of recording technology is an important component of this course.
Prerequisite: MUS 21341.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Writing Intensive Course

MUS 42181 POPULAR WORLD MUSIC (DIVG) 3 Credit Hours
(Slashed with MUS 52181 and MUS 72181) A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Modern media, especially the Internet, is an integral component of the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

MUS 42221 SYMPHONIC LITERATURE 3 Credit Hours
(Slashed with MUS 52221) Historical and stylistic survey of music for large instrumental ensemble.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42227 WIND BAND LITERATURE 3 Credit Hours
(Slashed with MUS 52227 and MUS 72227) Historical survey of wind band literature and the development of the ensemble.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42232 PIANO LITERATURE I 2 Credit Hours
Survey of keyboard suites, sonatas and concerti from the 16th century to the present. Emphasis on performing, listening, and analysis.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 42241 PIANO LITERATURE 3 Credit Hours
(Slashed with MUS 52241) Survey of keyboard and piano literature from the 16th century to the present; study of related forms and styles. Emphasis on performing, listening and analysis.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42242 PIANO LITERATURE II 2 Credit Hours
Survey of character pieces and variations from the 16th century to the present. Emphasis on performing, listening, and analysis.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 42251 SONG LITERATURE 3 Credit Hours
A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.
Prerequisite: MUS 22111 with a minimum C grade; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42261 VOCAL LITERATURE 3 Credit Hours
(Slashed with MUS 52261) The historical development of opera from the 17th century to the present. Detailed analysis of representative works.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42271 CHORAL LITERATURE 3 Credit Hours
(Slashed with MUS 52271 and MUS 72271) Study of Western European choral literature from approximately 1450 to the early 19th century, i.e., Renaissance, Baroque and Classical periods.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42272 CHORAL LITERATURE II 3 Credit Hours
(Slashed with MUS 52272) Continuation of Choral Literature I. A study of Western European and North American choral music of the early 19th century to the present (roughly 1830 to the present).
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 42291 SEMINAR IN MUSIC HISTORY AND LITERATURE 3 Credit Hours
(Slashed with MUS 52291 and MUS 72291)(Repeatable for credit) Selected problems of research for music history and literature. Each student is responsible for presenting papers for discussion.
Prerequisite: MUS 32212 with a minimum C grade.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 42345 ORFF SCHULWERK TEACHER EDUCATION LEVEL I 3 Credit Hours
(Slashed with MUS 52345 and MUS 72345)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level I is designed as an introductory experience to Orff Schulwerk pedagogy and is appropriate for anyone with a music degree.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 42346 ORFF SCHULWERK TEACHER EDUCATION LEVEL II 3 Credit Hours
(Slashed with MUS 52346 and MUS 72346)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level II is designed as an intermediate experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level I at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 42345.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 42347 ORFF SCHULWERK TEACHER EDUCATION LEVEL III 3 Credit Hours
(Slashed with MUS 52347 and MUS 72347)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level III is designed as an advanced experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level II at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 42346.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 42392 STUDENT TEACHING (ELR) 9 Credit Hours
Provides a 16-week student teaching experience. Off-campus arrangements are handled by the College of Education, Health and Human Services and the School of Music.
Prerequisite: Music education major; official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching; and special approval.
Corequisite: MUS 49525.
Schedule Type: Practical Experience
Contact Hours: 9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

MUS 43241 MARCHING BAND TECHNIQUES AND LITERATURE 1 Credit Hour
Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles, literature and show design.
Prerequisite: Music education major; and sophomore standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lab
Grade Mode: Standard Letter

MUS 43242 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 2 Credit Hours
Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation jazz styles and rehearsal techniques taught through laboratory experience.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 43243 CONTEMPORARY CHORAL METHODS IN THE SCHOOLS 3 Credit Hours
(Slashed with MUS 53243) Basic techniques and materials for teaching vocal jazz and musical theatre in the schools. Administration, organization and publicity for productions as well as literature for these performing groups will be explored.
Prerequisite: Music education major or music major; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 43245 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 1 Credit Hour
(Slashed with MUS 53245) Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation of jazz styles and rehearsal techniques taught through laboratory experiences. One hour of field observation is required.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 43264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 53264 and MUS 73264) In this course, students participate in small rock ensembles and examine the pedagogy of that type of ensemble. Lectures and demonstrations include topics such as equipment selection, repertoire selection and performance techniques. The course also emphasizes techniques for amplifying rock ensembles, and students learn fundamental techniques for recording rock ensembles.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 43265 METHODS IN JAZZ PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 53265) In this course, students will participate in immersive experiences in various aspects of vocal and instrumental jazz: solo performing, ensemble rehearsal techniques, repertoire selection and sources, jazz theory, improvisation, working with a rhythm section, and sound reinforcement. Students will also participate in a workshop ensemble to experience the art form as a member of a jazz ensemble.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 44111 ADVANCED CHORAL CONDUCTING 2 Credit Hours
Continued development of conducting technique, score reading analysis, styles, interpretation, rehearsal procedure, diction issues as they relate to conducting and pedagogy.
Prerequisite: Minimum C grade in MUS 21111, MUS 34111 and MUS 37113.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 44121 ADVANCED INSTRUMENTAL CONDUCTING 2 Credit Hours
Continued development of conducting technique, score reading analysis, styles, interpretation and rehearsal procedures.
Prerequisite: MUS 21111 and MUS 34111 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MUS 44210 INSTRUMENTAL MUSIC METHODS 2 Credit Hours
Study and practice of traditional and contemporary instrumental methods, materials and literature within elementary and secondary band and orchestra programs. The course includes, but is not limited to, experience designing a K-12 instrumental music curriculum, advocacy and assessment, lesson planning, program organization, budget and exposure to philosophical perspectives toward teaching P-12 instrumental music. 20 clinical field hours within instrumental music teaching are required.
Prerequisite: MUS 11122 and MUS 17111 and MUS 23241; and admission to advanced study; and Music Education major.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

MUS 44211 INSTRUMENTAL METHODS I 2 Credit Hours
Elementary and middle school instrumental instruction, program organization, rehearsal teaching techniques, lesson plans, literature, assessment, scheduling, recruiting, modeling and interactive teaching. Clinical experience in the teaching of music. Thirty (30) field hours required.
Prerequisite: MUS 23241 with a minimum C grade; and minimum C grade in and 2 credit hours of the following courses: MUS 37512 or MUS 47512 or MUS 47513 or MUS 47612 or MUS 47712; and admission to advanced study; and completion of the music education professional evaluation; and Music or Music Education major; and junior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

MUS 44212 INSTRUMENTAL METHODS II 2 Credit Hours
Secondary instrumental instruction; program organization, budget, advocacy, assessment, rehearsal planning, literature and teaching techniques. Clinical experience in the teaching of music. Thirty (30) field hours required.
Prerequisite: Minimum C grade in the following courses: MUS 23241 and MUS 34111 and MUS 44211; and MUS 37512 or MUS 47512 or MUS 47612 or MUS 47712; and admission to advanced study; and completion of the music education professional evaluation; and junior standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

MUS 45121 KENT CHORUS 1 Credit Hour
(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45131 KENT STATE OPERA THEATRE WORKSHOP 1 Credit Hour
(Repeatable for credit) Training in methods and skills necessary to the art of the singer-actor. Opera performed and prepared via study, observation and rehearsal.
Prerequisite: Audition.
Schedule Type: Studio
Contact Hours: 9.5 other
Grade Mode: Standard Letter

MUS 45141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour
(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles with appropriate accompaniment sung in the original language. An audition is required before registering for this course.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4.5 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45142 CORO CANTARE 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 55142) A chorus of tenor, baritone and bass voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for tenor, baritone and bass voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45143 CANTIQUE 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 55143) A chorus of soprano and alto voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for soprano and alto voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45151 KENT STATE UNIVERSITY GOSPEL CHOIR 1 Credit Hour
(Repeatable for credit) Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45212 ORCHESTRA 1 Credit Hour
(Slashed with MUS 55212 and MUS 75212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45221 SYMPHONY BAND 1 Credit Hour
(Repeatable for credit) Study and performance of music literature for wind band.
Prerequisite: Audition.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45222 MARCHING BAND 1 Credit Hour
(Repeatable for credit) Study and performance of literature and maneuvers for marching band.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45223 WIND ENSEMBLE 1 Credit Hour
(Slashed with MUS 55223 and MUS 75223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45224 FLASHER BRASS 1 Credit Hour
(Repeatable for credit) Study and performance of music for Flasher Brass.
Prerequisite: Audition.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

MUS 45225 UNIVERSITY BAND 1 Credit Hour
(Repeatable for credit) Study and performance of music literature for wind band appropriate for non-music majors, and for music education majors performing on secondary instruments.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

MUS 45231 JAZZ ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music literature in the jazz idiom.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 7.5 other
Grade Mode: Standard Letter

MUS 45241 TROMBONE ENSEMBLE 1 Credit Hour
(Repeatable for credit) A thorough study of trombone performance in various sized ensembles. Emphasis on original literature from over four centuries.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 45251 PERCUSSION ENSEMBLE 1 Credit Hour
(Repeatable for credit) A comprehensive study of percussion performance in various-sized ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature.
Prerequisite: Audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

MUS 45261 BASSOON ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing interpretation leadership skills and arranging techniques.
Prerequisite: Permission audition.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 45271 NEW MUSIC ENSEMBLE 1 Credit Hour
(Repeatable for credit)(Slashed with MUS 55271 and MUS 75271) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 45301 AFRICAN ENSEMBLE (DIVG) 1 Credit Hour
(Slashed with MUS 55301 and MUS 75301)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with traditional and popular music and dance from Africa and the African diaspora. Specific traditions studied may include, but are not limited to, Ghana, Guinea, Senegal, Nigeria, Haiti, Cuba, Puerto Rico, Trinidad and Tobago and the United States. This course is performance and community focused.
Prerequisite: None.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Diversity Global

MUS 45302 CARIBBEAN STEELBAND (DIVG) 1 Credit Hour
(Slashed with MUS 55302 and MUS 75302)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with steelband traditions of Trinidad and Tobago. Specific traditions and genres studied may include, but are not limited to, pan, calypso, soca, Latin, bomb tunes, carnival and tamboo-bamboo. This ensemble is performance and community focused.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Diversity Global

MUS 45311 CHAMBER MUSIC 1,2 Credit Hour
(Repeatable for credit) The study and performance of music for small ensembles. Music minors and other non-music majors may take this course with permission.
Prerequisite: Music major or music education major.
Schedule Type: Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 45312 JAZZ COMBO DEVELOPMENT 1 Credit Hour
(Repeatable for a total of 8 credit hours) The study of Jazz combo performance through rehearsal.
Prerequisite: Special approval.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

MUS 45313 NOVA JAZZ SINGERS 1 Credit Hour
(Repeatable for credit) The Kent State Nova Jazz Singers is a select vocal jazz ensemble. Repertoire consists of arrangements of American popular music from the 1930s to today, covering all contemporary styles. Nova Jazz Singers is open to all Kent State students by audition.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 45314 WORLD MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 55314 and MUS 75314)(Repeatable for maximum of 8 credit hours) This course teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming, Thai Piphat. Specific traditions studied include areas of specialization of instructors and/or advanced student participants.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 45315 ASIAN MUSIC ENSEMBLE (DIVG) 1 Credit Hour
(Slashed with MUS 55315 and MUS 75315)(Repeatable for credit) This course teaches performance practice and cultural etiquette associated with traditional and popular Asian music genres, e.g., Thai, Chinese and Indian classical music.
Prerequisite: None.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter
Attributes: Diversity Global

MUS 45321 ACCOMPANYING 1,2 Credit Hour
(Repeatable for credit) Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly.
Prerequisite: Permission.
Schedule Type: Private Lesson, Studio
Contact Hours: 1-2 other
Grade Mode: Standard Letter

MUS 46111 APPLIED MUSIC PIANO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46311 APPLIED MUSIC VOICE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46411 APPLIED MUSIC VIOLIN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46412 APPLIED MUSIC VIOLA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46413 APPLIED MUSIC CELLO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46414 APPLIED MUSIC DOUBLE BASS 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46511 APPLIED MUSIC FLUTE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46512 APPLIED MUSIC OBOE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46513 APPLIED MUSIC CLARINET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46514 APPLIED MUSIC BASSOON 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46515 APPLIED MUSIC SAXOPHONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46611 APPLIED MUSIC TRUMPET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46612 APPLIED MUSIC HORN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46613 APPLIED MUSIC TROMBONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46614 APPLIED MUSIC EUPHONIUM 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46615 APPLIED MUSIC TUBA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 46711 APPLIED MUSIC PERCUSSION 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors. Individual study. Standard-based expectations for two vs. four credit hours are differentiated in the School of Music applied lesson/applied studio musicianship standard tables found in the student handbook. An audition is required prior to registration.
Prerequisite: Music or Music Education major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 47012 CLASS GUITAR I 2 Credit Hours
Development of basic guitar performance skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 47013 CLASS GUITAR II 2 Credit Hours
Continued development of acoustic guitar performance skills, study of performance related theory and related topics.
Prerequisite: MUS 47012.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 47311 VOICE CLASS FOR THE INSTRUMENTALIST 1 Credit Hour
Class instruction in the fundamentals of correct breathing, tone production and diction.
Prerequisite: Music or music education major.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 47312 VOICE CLASS FOR NON-MUSIC STUDENTS 1 Credit Hour
Class instruction in the fundamentals of correct breathing, tone production and diction.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 47512 WIND TECHNIQUES - FRENCH HORN AND DOUBLE REEDS 1 Credit Hour
The study of the fundamental principles of playing and teaching French horn, oboe, and bassoon. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary levels.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 47513 WIND TECHNIQUES - FLUTE, CLARINET, SAXOPHONE 1 Credit Hour
The study of the fundamental principles of playing and teaching flute, clarinet, and saxophone. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary levels.
Prerequisite: Music or music education.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 47612 WIND TECHNIQUES - TRUMPET AND LOW BRASS 1 Credit Hour
The study of the fundamental principles of playing trumpet, trombone, tuba, and euphonimum. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary school levels.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 47712 PERCUSSION CLASS 1 Credit Hour
Study of various percussion instruments (mallets, snare drum, timpani and auxiliary) and techniques of performance. Designed for music educator with no previous percussion experience.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 47811 INSTRUMENT CLASS FOR THE CHORAL/GENERAL MUSIC EDUCATOR 1 Credit Hour
Class instruction in the basic playing skills of band and orchestral instruments intended to provide familiarity with the common school instruments for the choral-general music major. Ten (10) hours of field experience required.
Prerequisite: Music or music education major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 48221 ELEMENTS OF ACCOMPANYING I 2 Credit Hours
Techniques of accompanying; selected overview of art song literature including Italian, German, French and English songs development of playing at sight skills.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48222 ELEMENTS OF ACCOMPANYING II 2 Credit Hours
Continuation of accompanying techniques including opera accompanying, orchestral reductions and selected overview of literature for solo instrument and piano; continuation of playing-at-sight skills.
Prerequisite: MUS 48221 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48231 INSTRUMENTAL PEDAGOGY FOR THE CHORAL GENERAL MUSIC EDUCATOR 2 Credit Hours
Knowledge and techniques for building and maintaining an instrumental music program within the K-12 school setting for the choral general music education major. Ten (10) hours of field experience required.
Prerequisite: MUS 47811 with a minimum C grade; and music education major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48232 GENERAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST 1 Credit Hour
General music pedagogy techniques for the instrumental music education major. Clinical experiences in the teaching of general music. Ten (10) field hours required.
Prerequisite: MUS 37114 with a minimum C grade; and music education major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 48233 CHORAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST 1 Credit Hour
Choral pedagogy techniques and choral program development for the instrumental music education major. Clinical experiences in the teaching of choral music. Ten (10) field hours required.
Prerequisite: MUS 47311 with a minimum C grade; and music education major.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 48241 VOICE PEDAGOGY 2 Credit Hours
Survey of techniques, practices and materials of teaching voice.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48250 PEDAGOGY OF MUSIC 3 Credit Hours
Study of pedagogical methodologies and practices. Drawing on discoveries in cognitive neuroscience, this course explores the connection between the human brain and music making, teaching and learning. The course content covers a range of topics, such as the ways that the brain processes musical learning, practical approaches to music teaching, pedagogical challenges in the digital age, understanding emotion and empathy and developing interdisciplinary teaching strategies.
Prerequisite: MUS 11122 with a minimum C grade.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

MUS 48251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours
(Slashed with MUS 58251 and MUS 78251) The principles and techniques of teaching music theory.
Prerequisite: MUS 21112 with a minimum C grade; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48257 PEDAGOGY-INSTRUMENTAL 2 Credit Hours
Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice. Offered as needed for strings woodwinds brass percussion organ, or guitar.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48311 PIANO PEDAGOGY I 2 Credit Hours
Individual and group piano teaching including teaching methods and the history of piano pedagogy.
Prerequisite: Music or music education major; and junior standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48312 PIANO PEDAGOGY II 2 Credit Hours
Individual and group piano teaching. Building an independent studio and career networking.
Prerequisite: MUS 48311 with a minimum C grade; and music major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 48393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Permission.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 48512 IMPROVISATION 1 Credit Hour
The development of musical improvisation skills not tied to any particular music style. Students will perform on their own applied instrument(s).
Prerequisite: MUS 21111 with a minimum C grade.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 48598 MUSIC RESEARCH (ELR) 2,3 Credit Hours
(Repeated registration permitted) Research or individual investigation for undergraduate students.
Prerequisite: Permission.
Schedule Type: Research
Contact Hours: 2-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

MUS 48599 CAPSTONE RECITAL (ELR) 1 Credit Hour
A culminating educational experience for students to demonstrate their musical understanding and application of ideas, techniques and musical interpretation. This course focuses on the study of a wide range of repertoire and public performance within the student's chosen performing medium.
Prerequisite: Senior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

MUS 48610 SINGER'S DICTION 3 Credit Hours
(Slashed with MUS 58610) Foundational training and performance practice with phonetics and lyric diction for English, Italian, German and French vocal repertoire.
Prerequisite: Music major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 48699 COMPOSITION RECITAL (ELR) 2 Credit Hours
A culminating educational experience for students to demonstrate the application of ideas, performance and composition techniques, focusing on the creation of original musical works, presentation of the works during a short lecture and public performance. The student presenter must participate in the performance of at least one of the works.
Prerequisite: Senior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

MUS 49525 SEMINAR FOR STUDENT TEACHING (ELR) 3 Credit Hours
(Slashed with MUS 59525) A capstone discussion of principles of music teaching and pragmatic understanding of school music settings. Seminar serves as the companion course to Student Teaching for the purpose of self-observation, reflection, and analysis. Development of edTPA and portfolio.
Prerequisite: Music education major; and senior standing; and special approval.
Corequisite: MUS 42392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

MUS 50295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours
(Slashed with MUS 40295 and MUS 70295)(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.
Prerequisite: Music major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MUS 50296 INDEPENDENT STUDY:MUSIC 1-3 Credit Hours
(Repeatable for credit) Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses.
Prerequisite: Music major; and graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 51010 DOUBLE REED DESIGN AND PRODUCTION 1 Credit Hour
(Slashed with MUS 41010)(Repeatable for credit) This course is an in-depth study of double reed design and production. This course is designed for double reed oboe students and music education students who have completed the woodwind technique course. The students of this course learn to grow and harvest the raw material (Arundo-Donax cane) and age the raw material in a climate-controlled area. The students learn to design and craft double reeds and produce marketable products to meet the highest performance standards.
Prerequisite: School of Music major; and graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 51011 INTRODUCTION TO TONAL AURAL SKILLS 1 Credit Hour
Focus on solfege singing, ear training and aural analysis in preparation for graduate level music theory coursework.
Prerequisite: Music major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MUS 51012 INTRODUCTION TO TONAL MUSIC ANALYSIS 1 Credit Hour
Focus on harmony, counterpoint and written analysis in preparation for graduate level music theory coursework.
Prerequisite: Music major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

MUS 51091 MUSIC LEARNING THEORY APPROACH 3 Credit Hours
(Slashed with MUS 41091 and MUS 71091)(Repeatable for credit) Through the lens of Gordon's Music Learning Theory, the course is focused on P-6 general music and developing effective strategies for learner-centered growth, musicianship, movement, curriculum, inclusion and assessment. This course is offered in conjunction with the Gordon Institute for Music Learning (GIML) and satisfies requirements for GIML PDLC EGM level 1.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Seminar
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 51131 KEYBOARD HARMONY 3 Credit Hours
Theoretical skills demonstrated at the keyboard. Harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 51141 16TH-CENTURY COUNTERPOINT 3 Credit Hours
Two-, three- and four-part vocal counterpoint in 16th century style.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 51151 18TH-CENTURY COUNTERPOINT 3 Credit Hours
Technique of writing counterpoint in 18th-century style especially that of J. S. Bach.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 51211 COMPOSITION 2 Credit Hours
(Repeatable for credit) Study of the materials and techniques of composition culminating in original compositions based upon observable principles of unity and variety.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 51291 SEMINAR IN POST-TONAL AND RECENT MUSIC 3 Credit Hours
(Slashed with MUS 41291 and MUS 71291) Seminar covering selected topics about music theory from the early 20th century to recent decades, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 51321 ORCHESTRATION 3 Credit Hours
Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 51341 JAZZ IMPROVISATION I 1 Credit Hour
(Slashed with MUS 41341) A beginner's introduction to jazz improvisation. Theory and daily playing are enhanced by ear training.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 51342 JAZZ COMPOSING AND ARRANGING 2 Credit Hours
(Slashed with MUS 41342) Composing and arranging for the large and small jazz ensemble.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 51351 JAZZ IMPROVISATION II 1 Credit Hour
(Slashed with MUS 41351) The presentation of a methodical approach to learning standard jazz repertoire.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 51391 SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY 3 Credit Hours
(Slashed with MUS 41391 and MUS 71391) Seminar covering selected topics about music theory from the high Renaissance to late Romantic period, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 52111 AFRICAN MUSIC AND CULTURES 3 Credit Hours
African music as related to social sciences and humanities. Oral traditions. Use of music recordings, tapes, musical instruments. Participation in performance and group work involvement.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52131 MUSIC OF THE UNITED STATES 3 Credit Hours
(Slashed with MUS 42131 and MUS 72131) Historical survey of music in the United States including Native American music, minstrelsy, New England psalmody, jazz and Latin American influences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52141 FOLK MUSIC OF EUROPE AND NORTH AMERICA 3 Credit Hours
(Slashed with MUS 42141) Study of selected music cultures of Eastern and Western Europe, and South, Central and North America.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52151 ASIAN MUSICS 3 Credit Hours
Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52161 HISTORY OF JAZZ 3 Credit Hours
(Slashed with MUS 42161 and MUS 72161) The evolution of jazz from its origin to present.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52162 JAZZ STYLES AND ANALYSIS 3 Credit Hours
(Slashed with MUS 42162) An approach to jazz history from the perspective of major artists such as: Louis Armstrong, Duke Ellington, Charlie Parker, Miles Davis and John Coltrane.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52181 POPULAR WORLD MUSIC 3 Credit Hours
(Slashed with MUS 42181 and MUS 72181) A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Graduate level introduces cultural theory related to popular studies. Modern media, especially the Internet, is an integral component of the course.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52221 SYMPHONIC LITERATURE 3 Credit Hours
(Slashed with MUS 42221) Historical and stylistic survey of music for large instrumental ensemble.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52227 WIND BAND LITERATURE 3 Credit Hours
(Slashed with MUS 42227 and MUS 72227) Historical survey of wind band literature and the development of the ensemble.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52241 PIANO LITERATURE 3 Credit Hours
(Slashed with MUS 42241) Survey of keyboard and piano literature from the 16th century to the present; study of related forms and styles. Emphasis on performing, listening and analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52242 PIANO LITERATURE II 2 Credit Hours
Survey of character pieces and variations from the 16th century to the present. Emphasis on performing, listening and analysis.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 52251 SONG LITERATURE 3 Credit Hours
A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52261 VOCAL LITERATURE 3 Credit Hours
(Slashed with MUS 42261) The historical development of opera from the 17th century to the present. Detailed analysis of representative works.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52271 CHORAL LITERATURE 3 Credit Hours
(Slashed with MUS 42271 and MUS 72271) Study of Western European choral literature from approximately 1450 to the early 19th century, i.e., Renaissance, Baroque and Classical periods.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52272 CHORAL LITERATURE II 3 Credit Hours
(Slashed with MUS 42272) Continuation of Choral Literature I. A study of Western European and North American choral music of the early 19th century to the present (roughly 1830 to present).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 52291 SEMINAR IN MUSIC HISTORY AND LITERATURE 3 Credit Hours
(Slashed with MUS 42291 and MUS 72291)(Repeatable for credit) Selected problems of research for music history and literature. Each student is responsible for presenting papers for discussion.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 52345 ORFF SCHULWERK TEACHER EDUCATION LEVEL I 3 Credit Hours
(Slashed with MUS 42345 and MUS 72345)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level I is designed as an introductory experience to Orff Schulwerk pedagogy and is appropriate for anyone with a music degree.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 52346 ORFF SCHULWERK TEACHER EDUCATION LEVEL II 3 Credit Hours
(Slashed with MUS 42346 and MUS 72346)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level II is designed as an intermediate experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level I at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 52345; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 52347 ORFF SCHULWERK TEACHER EDUCATION LEVEL III 3 Credit Hours
(Slashed with MUS 42347 and MUS 72347)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level III is designed as an advanced experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level II at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 52346; and graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 52392 STUDENT TEACHING 9 Credit Hours
Provides a 16-week student teaching experience. Off-campus arrangements are handled by the College of Education, Health and Human Services and the School of Music and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE. Training must be presented to the campus office of clinical experience as prerequisite for student teaching.
Prerequisite: Graduate standing; and special approval.
Corequisite: MUS 59525.
Schedule Type: Practical Experience
Contact Hours: 35 other
Grade Mode: Standard Letter

MUS 53241 MARCHING BAND TECHNIQUES AND LITERATURE 1 Credit Hour
Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles, literature and show design.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 1 lab
Grade Mode: Standard Letter

MUS 53242 JAZZ ENSEMBLE TECHNIQUES 2 Credit Hours
Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation, jazz styles and rehearsal techniques taught through laboratory experience.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 53243 CONTEMPORARY CHORAL METHODS IN THE SCHOOLS 3 Credit Hours
(Slashed with MUS 43243) Basic techniques and materials for teaching vocal jazz and musical theatre in the schools. Administration, organization and publicity for productions as well as literature for these performing groups will be explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 53245 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 1 Credit Hour
(Slashed with MUS 43245) Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation, jazz styles, and rehearsal techniques taught through laboratory experience. One hour of field observation is required.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 53264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 43264 and MUS 73264) In this course, students participate in small rock ensembles and examine the pedagogy of that type of ensemble. Lectures and demonstrations include topics such as equipment selection, repertoire selection and performance techniques. The course also emphasizes techniques for amplifying rock ensembles, and students learn fundamental techniques for recording rock ensembles.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 53265 METHODS IN JAZZ PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 43265) In this course, students will participate in immersive experiences in various aspects of vocal and instrumental jazz: solo performing, ensemble rehearsal techniques, repertoire selection and sources, jazz theory, improvisation, working with a rhythm section, and sound reinforcement. Students will also participate in a workshop ensemble to experience the art form as a member of a jazz ensemble.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 55121 KENT CHORUS 1 Credit Hour
(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 other
Grade Mode: Standard Letter

MUS 55131 KENT STATE OPERA THEATRE WORKSHOP 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 45131 and MUS 75131) A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 9.5 other
Grade Mode: Standard Letter

MUS 55141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour
(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. An audition in required before registering for this course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4.5 other
Grade Mode: Standard Letter

MUS 55142 CORO CANTARE 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 54142) A chorus of tenor, baritone and bass voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for tenor, baritone and bass voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 55143 CANTIQUE 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 45143) A chorus of soprano and alto voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for soprano and alto voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

MUS 55151 KENT STATE UNIVERSITY GOSPEL CHOIR 1 Credit Hour
(Repeatable for credit) Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55212 ORCHESTRA 1 Credit Hour
(Slashed with MUS 45212 and MUS 75212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

MUS 55221 SYMPHONY BAND 1 Credit Hour
(Repeatable for credit) Study and performance of music literature for wind band.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

MUS 55222 MARCHING BAND 1 Credit Hour
(Repeatable for a maximum of 6 credit hours) Study and performance of literature and maneuvers for marching band.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

MUS 55223 WIND ENSEMBLE 1 Credit Hour
(Slashed with MUS 45223 and MUS 75223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. An audition in required before registering for this course.
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

MUS 55231 JAZZ ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music literature in the jazz idiom.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 7.5 other
Grade Mode: Standard Letter

MUS 55241 TROMBONE ENSEMBLE 1 Credit Hour
(Repeatable for credit) A thorough study of trombone performance in various size ensembles. Emphasis on original literature from over four centuries.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55251 PERCUSSION ENSEMBLE 1 Credit Hour
(Repeatable for credit) A comprehensive study of percussion performance in various size ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

MUS 55261 BASSOON ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing, interpretation, leadership skills and arranging techniques.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55271 NEW MUSIC ENSEMBLE 1 Credit Hour
(Repeatable for credit)(Slashed with MUS 45271 and MUS 75271) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 55301 AFRICAN ENSEMBLE 1 Credit Hour
(Slashed with MUS 45301 and MUS 75301)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with traditional and popular music and dance from Africa and the African diaspora. Specific traditions studied may include, but are not limited to, Ghana, Guinea, Senegal, Nigeria, Haiti, Cuba, Puerto Rico, Trinidad and Tobago and the United States. This course is performance and community focused.
Prerequisite: Graduate standing.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55302 CARIBBEAN STEELBAND 1 Credit Hour
(Slashed with MUS 45302 and MUS 75302)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with steelband traditions of Trinidad and Tobago. Specific traditions and genres studied may include, but are not limited to, pan, calypso, soca, Latin, bomb tunes, carnival and tamboo-bamboo. This ensemble is performance and community focused.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55311 CHAMBER MUSIC 1,2 Credit Hour
(Repeatable for credit) The study and performance of music for small ensembles.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 55314 WORLD MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 45314 and MUS 75314)(Repeatable for maximum of 8 credit hours) This course teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming, Thai Piphat. Specific traditions studied include areas of specialization of instructors and/or advanced student participants.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55315 ASIAN MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 45315 and MUS 75315)(Repeatable for credit) This course teaches performance practice and cultural etiquette associated with traditional and popular Asian music genres, e.g., Thai, Chinese and Indian classical music.
Prerequisite: Graduate standing.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 55321 ACCOMPANYING 1,2 Credit Hour
(Repeatable for credit) Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1-2 other
Grade Mode: Standard Letter

MUS 58241 VOICE PEDAGOGY 2 Credit Hours
Survey of techniques, practices and materials of teaching voice.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 58251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours
(Slashed with MUS 48251 and MUS 78251) The principles and techniques of teaching music theory.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 58257 PEDAGOGY-INSTRUMENTAL 2 Credit Hours
Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice. Offered as needed for strings, woodwinds, brass, percussion, organ or guitar.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 58393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 58610 SINGER'S DICTION 3 Credit Hours
(Slashed with MUS 48610) Foundational training and performance practice with phonetics and lyric diction for English, Italian, German and French vocal repertoire.
Prerequisite: Performance major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 58611 ADVANCED SINGER'S DICTION I 1 Credit Hour
Advanced training and performance practice in phonetics and singing diction for English and Italian vocal repertoire. Emphasis on learning and application of International Phonetic Alphabet symbols.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 58612 ADVANCED SINGER'S DICTION II 1 Credit Hour
Advanced training and performance practice in phonetics and singing diction for German and French vocal repertoire. Emphasis on learning and application of International Phonetic Alphabet symbols.
Prerequisite: Graduate standing.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

MUS 59525 SEMINAR FOR STUDENT TEACHING 3 Credit Hours
(Slashed with MUS 49525) A capstone discussion of principles of music teaching and pragmatic understanding of school music settings. Seminar serves as the companion course to Student Teaching for the purpose of self-observation, reflection, and analysis. Development of edTPA and portfolio.
Prerequisite: Graduate standing; and special approval.
Corequisite: MUS 52392.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61121 HISTORY OF MUSIC THEORY 3 Credit Hours
(Slashed with MUS 71121) A study of the history of Western music theory from the ancient Greeks to the twentieth century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61131 SCHENKERIAN ANALYSIS 3 Credit Hours
An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61170 MUSIC ANALYSIS 3 Credit Hours
Selected analytical techniques applied to music from the tonal and post-tonal repertoire. Emphasis on the development of harmonic language and overall formal structures.
Prerequisite: Music education major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61173 WORLD MUSIC ANALYSIS 3 Credit Hours
Analysis of world music traditions. Analyze and articulate knowledge regarding musical elements, such as timbre, tuning, improvisation, sound patterns, compositional form, and performance techniques of music genres studied. Development of listening and transcription skills as they relate to world music.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61174 ANALYSIS OF WESTERN ART MUSIC 3 Credit Hours
(Slashed with MUS 71174) Application of standard analytical techniques to Western art music of Baroque, Classical, Romantic and early 20th - century period music. Analytical focus given to study of the standard musical forms and compositional procedures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61181 POST-TONAL THEORY 3 Credit Hours
A study of the analysis, theories, and compositional strategies applied to the music composed after 1900.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 61191 SEMINAR IN MUSIC SINCE 1900 3 Credit Hours
(Slashed with MUS 71191) (Repeatable for a maximum of 6 credit hours) Study of analytical techniques and procedures appropriate for the major musical styles of the period. Study of representative compositions through applied analysis. Individual projects in areas of particular interest to the student.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 61211 APPLIED MUSIC - GRADUATE COMPOSITION 2,4 Credit Hours
(Repeatable for credit) Original composition using longer forms of music for diverse media, including multimedia and electronic composition.
Prerequisite: Composition concentration within the Performance major; and graduate standing.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 61331 BAND ARRANGING 2 Credit Hours
Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62171 MUSIC FROM WORLD CULTURES 3 Credit Hours
(Slashed with MUS 82171) Study of selected art, folk and popular music from world cultures with emphasis on listening skills, cultural context, function, organology and technical matters of style.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62411 MUSIC BIBLIOGRAPHY AND RESEARCH METHODS 2 Credit Hours
(Slashed with MUS 82411) Study of techniques of music research and creative musical writing including special projects, reports and readings. This is a hybrid course consisting of both in-class meetings and discussions, as well as online interaction and discussion boards.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 62412 INTRODUCTION TO ETHNOMUSICOLOGY 3 Credit Hours
A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription, analysis and bibliography.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62414 ISSUES AND TRENDS IN ETHNOMUSICOLOGY 3 Credit Hours
This course studies various issues and trends in the field of ethnomusicology, from its inception to present. The focus centers on intensive discussion of theories, philosophies and paradigms that have dominated the scrutiny of music over the decades and their application in analysis, fieldwork and lab method.
Prerequisite: MUS 62412; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62511 MUSIC HISTORY I 2 Credit Hours
A study of Western music history from Jewish and medieval Roman practices through Josquin, as well as selected common-practice period applications.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62521 MUSIC HISTORY II 2 Credit Hours
A study of Western music history from the Reformation and Counter-Reformation through Bach and Handel.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62531 MUSIC HISTORY III 2 Credit Hours
A study of Western music history in the Rococo, Classical, and Romantic periods through Brahms and Wagner.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62541 MUSIC HISTORY IV 2 Credit Hours
A study of Western music from Debussy and Mahler through the major trends and composers of the recent past.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 62601 SEMINAR IN MUSICS OF AFRICA 3 Credit Hours
(Slashed with MUS 72601) Specialized investigations of music cultures of Africa.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 62602 SEMINAR IN MUSICS OF THE AMERICAS 3 Credit Hours
Specialized investigation of music cultures of the Americas.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 62603 SEMINAR IN MUSICS OF THE MIDDLE EAST 3 Credit Hours
(Slashed with MUS 72603) Specialized investigation of music cultures of the Middle East.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 62604 SEMINAR IN MUSICS OF EAST ASIA 3 Credit Hours
Specialized investigation of music cultures of East Asia.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 62606 SEMINAR IN MUSICS OF SOUTHEAST ASIA 3 Credit Hours
(Slashed with MUS 72606) Specialized investigation of music cultures in Southeast Asia.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 63099 CAPSTONE PROJECT 4 Credit Hours
(Repeatable for credit) Working under the supervision of a capstone advisor, students demonstrate synthesis of knowledge through the development of curricular project applicable to student's area of teaching.
Prerequisite: Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

MUS 63241 INQUIRY IN MUSIC TEACHING I 3 Credit Hours
Conducting and presenting assessment, evaluation, and research of music teaching and learning with emphasis on quantitative methodologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63242 INQUIRY IN MUSIC TEACHING AND LEARNING II 3 Credit Hours
Conducting and presenting assessment, evaluation and research of music teaching and learning with emphasis on qualitative methodologies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63261 ADVANCED STUDIES IN TEACHING CHORAL MUSIC 3 Credit Hours
Development of teaching materials, an annotated choral repertory list and instructional strategies for choral music with emphasis on rehearsal procedures and analytical techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63262 ADVANCED STUDIES IN TEACHING INSTRUMENTAL MUSIC 3 Credit Hours
Development of teaching materials, an annotated instrumental repertory list and instructional strategies for instrumental music with emphasis on rehearsal procedures and analytical techniques.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63263 ADVANCED STUDIES IN TEACHING GENERAL MUSIC 3 Credit Hours
Program development, inclusion, instructional materials and innovative teaching techniques for general music programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63272 LEARNING THEORIES IN MUSIC 3 Credit Hours
Application of current theories of learning to the teaching and learning of music.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63273 PSYCHOLOGY OF MUSIC 3 Credit Hours
The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63274 FOUNDATIONS OF MUSIC EDUCATION 3 Credit Hours
Study of the field of music education from perspectives of sociology, psychology, philosophy, curriculum, history and comparative curricula.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63283 RESEARCH IN MUSIC EDUCATION 3 Credit Hours
Introduction to research techniques in music education including topic selection, data collection analysis and interpretation, and presentation of information in written form.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63284 HISTORY OF MUSIC EDUCATION 3 Credit Hours
Study of historical approaches to music education with emphasis on significant people, places and events that have influenced music teaching and learning music.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63285 PHILOSOPHY OF MUSIC EDUCATION 3 Credit Hours
(Slashed with MUS 73285) Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 63286 SOCIOLOGY OF MUSIC EDUCATION 3 Credit Hours
Sociology in Music Education focuses on sociocultural issues in music teaching and learning. Students consider contexts of society, background, race, ethnicity, culture, diversity, and pluralism as applicable in music education situations.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 64111 CONDUCTING PROJECTS:CHORAL 2 Credit Hours
(Repeatable for credit) Choral conducting techniques, score analysis, rehearsal procedures and study of musical style.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 64121 CONDUCTING PROJECTS:BAND 2 Credit Hours
(Repeatable for credit) Band conducting techniques, score analysis rehearsal procedures and study of musical style.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 64131 CONDUCTING PROJECTS:ORCHESTRA 2 Credit Hours
(Repeatable for credit) Orchestra conducting techniques, score analysis, rehearsal procedures and study of musical style. The course will focus on score study, advanced conducting technique and preparations for graduate school conducting programs around the county.
Prerequisite: Graduate standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66111 APPLIED MUSIC-GRADUATE PIANO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1.5-2 other
Grade Mode: Standard Letter

MUS 66191 SEMINAR IN ACCOMPANYING 2 Credit Hours
(Repeatable for credit) Studio performances of standard repertoire for piano and voice or instruments; investigation of other topics relating to the accompanying of the repertoire.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 66311 APPLIED MUSIC-GRADUATE VOICE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66411 APPLIED MUSIC-GRADUATE VIOLIN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66412 APPLIED MUSIC-GRADUATE VIOLA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66413 APPLIED MUSIC-GRADUATE CELLO 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66414 APPLIED MUSIC-GRADUATE DOUBLE BASS 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing; and special approval.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66511 APPLIED MUSIC-GRADUATE FLUTE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66512 APPLIED MUSIC-GRADUATE OBOE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66513 APPLIED MUSIC-GRADUATE CLARINET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66514 APPLIED MUSIC-GRADUATE BASSOON 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66515 APPLIED MUSIC-GRADUATE SAXOPHONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66611 APPLIED MUSIC-GRADUATE TRUMPET 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66612 APPLIED MUSIC-GRADUATE HORN 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66613 APPLIED MUSIC-GRADUATE TROMBONE 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66615 APPLIED MUSIC-GRADUATE TUBA 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66711 APPLIED MUSIC-GRADUATE PERCUSSION 2,4 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.
Prerequisite: Music major; and graduate standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 66811 APPLIED MUSIC - GRADUATE CONDUCTING 2,4 Credit Hours
(Repeatable for credit) This course is designed to provide graduate students with advanced training in the art of conducting. Building upon foundational conducting techniques, students delve deeper into repertoire analysis, score study, rehearsal strategies and performance practice. Emphasis is placed on developing a refined conducting style, effective communication with musicians and a comprehensive understanding of the unique challenges and opportunities presented by this medium.
Prerequisite: Conducting concentration within the Performance major; and graduate standing.
Schedule Type: Private Lesson
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 67243 TECHNOLOGY FOR MUSIC TEACHING 3 Credit Hours
Study of a variety of music software and hardware; students design and implement a project pertaining to their professional interest.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 68092 GRADUATE INTERNSHIP 2-6 Credit Hours
(Repeatable for credit) The culminating experience for students in the ethnomusicology graduate program. Students pursue an internship with area organizations focused on cultural studies where music is a fundamental component. Entrepreneurial projects associated with ethnomusicological research and activities may substitute for the internship experience. Students submit a substantial written report associated with the internship/project and complete a final oral exam.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68099 CAPSTONE PROJECT 2-6 Credit Hours
(Repeatable for credit) The culminating experience for students in the ethnomusicology graduate program. Students complete a curricular project focusing on world music or a series of papers focusing on performance practices of varying world musics. Students complete a final oral exam covering their research. Students pursuing the performance focus will also complete a lecture recital.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68199 THESIS I 2-6 Credit Hours
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68214 PIANO PEDAGOGY I 2 Credit Hours
Individual and group piano teaching, including teaching methods and the history of piano pedagogy.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 68215 PIANO PEDAGOGY II 2 Credit Hours
Individual and group piano teaching. Building an independent studio and career networking.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 68299 THESIS II 2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: MUS 68199; and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68598 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for master's level graduate students.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

MUS 68687 RECITAL 1-3 Credit Hours
(Repeatable for credit) The culminating experience required of all performance and conducting majors.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 68698 ESSAY 1-3 Credit Hours
(Repeatable for credit)Required of performance majors and music education majors who choose the recital and essay option.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 70295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours
(Slashed with MUS 40295 and MUS 50295)(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.
Prerequisite: Music major; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MUS 71091 MUSIC LEARNING THEORY APPROACH 3 Credit Hours
(Slashed with MUS 41091 and MUS 51091)(Repeatable for credit) Through the lens of Gordon's Music Learning Theory, the course is focused on P-6 general music and developing effective strategies for learner-centered growth, musicianship, movement, curriculum, inclusion and assessment. This course is offered in conjunction with the Gordon Institute for Music Learning (GIML) and satisfies requirements for GIML PDLC EGM level 1.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Seminar
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 71121 HISTORY OF MUSIC THEORY 3 Credit Hours
A study of the history of Western music theory from the ancient Greeks to the twentieth century.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71131 SCHENKERIAN ANALYSIS 3 Credit Hours
An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71141 16TH-CENTURY COUNTERPOINT 3 Credit Hours
Two-, three- and four-part vocal counterpoint in 16th century style.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71151 18TH-CENTURY COUNTERPOINT 3 Credit Hours
Technique of writing counterpoint in 18th-century style especially that of J. S. Bach.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71171 ANALYTICAL TECHNIQUES I 2 Credit Hours
The application of standard analytical techniques to works of various style periods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71172 ANALYTICAL TECHNIQUES II 2 Credit Hours
The application of standard analytical techniques to works of various style periods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71181 POST-TONAL THEORY 3 Credit Hours
A study of the analysis, theories, and compositional strategies applied to the music composed after 1900.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71191 SEMINAR IN MUSIC SINCE 1900 3 Credit Hours
(Slashed with MUS 61191) (Repeatable for a maximum of 6 credit hours) Study of analytical techniques and procedures appropriate for the major musical styles of the period. Study of representatives compositions through applied analysis. Individual projects in areas of particular interest to the student.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 71195 SPECIAL PROJECTS IN THEORETICAL STUDIES 3 Credit Hours
(Repeatable for credit) Individual and class investigation into specific methods of analysis and their application to music in various styles.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71291 SEMINAR IN POST-TONAL AND RECENT MUSIC 3 Credit Hours
(Slashed with MUS 41291 and MUS 51291) Seminar covering selected topics about music theory from the early 20th century to recent decades, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 71331 BAND ARRANGING 2 Credit Hours
Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 71391 SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY 3 Credit Hours
(Slashed with MUS 41391 and MUS 51391) Seminar covering selected topics about music theory from the high Renaissance to late Romantic period, focusing on analytical techniques, compositional procedures and study of representative compositions through applied analysis.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72131 MUSIC OF THE UNITED STATES 3 Credit Hours
(Slashed with MUS 42131 and MUS 52131) Historical survey of music in the United States including Native American music, minstrelsy, New England psalmody, jazz and Latin American influences.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72161 HISTORY OF JAZZ 3 Credit Hours
(Slashed with MUS 42161 and MUS 52161) The evolution of jazz from its origin to present.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72181 POPULAR WORLD MUSIC 3 Credit Hours
(Slashed with MUS 42181 and MUS 52181) A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Graduate level introduces cultural theory related to popular studies. Modern media, especially the Internet, is an integral component of the course.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72227 WIND BAND LITERATURE 3 Credit Hours
(Slashed with MUS 42227 and MUS 52227) Historical survey of wind band literature and the development of the ensemble.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72271 CHORAL LITERATURE 3 Credit Hours
(Slashed with MUS 42271 and MUS 52271) Study of Western European choral literature from approximately 1450 to the early 19th century, i.e., Renaissance, Baroque and Classical periods.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72291 SEMINAR IN MUSIC HISTORY AND LITERATURE 3 Credit Hours
(Slashed with MUS 42291 and MUS 52291)(Repeatable for credit) Selected problems of research for music history and literature. Each student is responsible for presenting papers for discussion.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72345 ORFF SCHULWERK TEACHER EDUCATION LEVEL I 3 Credit Hours
(Slashed with MUS 42345 and MUS 52345)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level I is designed as an introductory experience to Orff Schulwerk pedagogy and is appropriate for anyone with a music degree.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 72346 ORFF SCHULWERK TEACHER EDUCATION LEVEL II 3 Credit Hours
(Slashed with MUS 42346 and MUS 52346)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level II is designed as an intermediate experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level I at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 72345; and doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 72347 ORFF SCHULWERK TEACHER EDUCATION LEVEL III 3 Credit Hours
(Slashed with MUS 42347 and MUS 52347)(Repeatable for credit) This course is designed to develop a teacher's pedagogical skills, musicianship and creative potential by using the materials and procedures that are part of the active, experience-based Orff Schulwerk instructional and learning model. Orff Schulwerk represents a synthesis of music and movement, as developed within the three inter-related components of the course, namely the experiential, the conceptual and the pedagogical. Curricular content and sequence and development and application of basic skills in movement, speech, singing and instrumental skills unfold through joyous and interactive participation in music and movement activities. Level III is designed as an advanced experience in Orff Schulwerk pedagogy and is appropriate for anyone who has completed level II at an American Orff Schulwerk Association (AOSA)-approved institution.
Prerequisite: MUS 72346; and doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

MUS 72412 INTRODUCTION TO ETHNOMUSICOLOGY 3 Credit Hours
A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription analysis and bibliography.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72511 MUSIC HISTORY I 2 Credit Hours
A study of Western music history from Jewish and medieval Roman practices through Josquin, as well as selected common-practice period applications.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72521 MUSIC HISTORY II 2 Credit Hours
A study of Western music history from the Reformation and Counter-Reformation through Bach and Handel.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72531 MUSIC HISTORY III 2 Credit Hours
A study of Western music history in the Rococo, Classical, and Romantic periods through Brahms and Wagner.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72541 MUSIC HISTORY IV 2 Credit Hours
A study of Western music from Debussy and Mahler through the major trends and composers of the recent past.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 72601 SEMINAR IN MUSICS OF AFRICA 3 Credit Hours
(Slashed with MUS 62601) Specialized investigations of music cultures of Africa.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72602 SEMINAR IN MUSICS OF THE AMERICAS 3 Credit Hours
Specialized investigation of music cultures of the Americas.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72603 SEMINAR IN MUSICS OF THE MIDDLE EAST 3 Credit Hours
(Slashed with MUS 62603) Specialized investigation of music cultures of the Middle East.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72604 SEMINAR IN MUSICS OF EAST ASIA 3 Credit Hours
Specialized investigation of music cultures of East Asia.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72606 SEMINAR IN MUSICS OF SOUTHEAST ASIA 3 Credit Hours
(Slashed with MUS 62606) Specialized investigation of music cultures in Southeast Asia.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 72691 SEMINAR IN ETHNOMUSICOLOGY 3 Credit Hours
(Repeatable for credit)Specialized topics in ethnomusicology for advanced students.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 73261 ADVANCED STUDIES IN SECONDARY CHORAL AND GENERAL MUSIC 3 Credit Hours
Review curriculum in secondary general music and development of innovative teaching materials and strategies. Analytical techniques, rehearsal procedures, repertory suitable for secondary school choral ensembles.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73262 ADVANCED STUDIES IN INSTRUMENTAL MUSIC 3 Credit Hours
Study of curriculum, method techniques and materials in school instrumental music education.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73263 ADVANCED STUDIES IN GENERAL MUSIC FOR CHILDREN 3 Credit Hours
Study of trends in philosophy, curriculum and program development, instructional materials and innovative teaching techniques for elementary school and early childhood general music.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours
(Slashed with MUS 43264 and MUS 53264) In this course, students participate in small rock ensembles and examine the pedagogy of that type of ensemble. Lectures and demonstrations include topics such as equipment selection, repertoire selection and performance techniques. The course also emphasizes techniques for amplifying rock ensembles, and students learn fundamental techniques for recording rock ensembles.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73272 LEARNING THEORIES IN MUSIC 3 Credit Hours
Application of current theories of learning to the teaching and learning of music.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73273 PSYCHOLOGY OF MUSIC 3 Credit Hours
The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73274 FOUNDATIONS OF MUSIC EDUCATION 3 Credit Hours
Study of the influences on the field of music education, including sociology, psychology, philosophy, curriculum and history.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73283 RESEARCH IN MUSIC EDUCATION 3 Credit Hours
Introduction to research techniques in music education including topic selection, data collection analysis and interpretation and presentation of information in written form.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73284 HISTORY OF MUSIC EDUCATION 3 Credit Hours
Study of historical approaches to music education with emphasis on significant people, places and events that have influenced teaching and learning music.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73285 PHILOSOPHY OF MUSIC EDUCATION 3 Credit Hours
(Slashed with MUS 63285) Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73286 SOCIOLOGY OF MUSIC EDUCATION 3 Credit Hours
Sociology in Music Education focuses on sociocultural issues in music teaching and learning. Students consider contexts of society, background, race, ethnicity, culture, diversity and pluralism as applicable in music education situations.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 73295 SPECIAL TOPICS IN MUSIC EDUCATION 3 Credit Hours
(Repeatable for credit)Advanced study in selected topics that will vary from semester to semester depending on needs and interests of students.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 74111 CONDUCTING PROJECTS:CHORAL 2 Credit Hours
(Repeatable for credit) Choral conducting techniques, score analysis, rehearsal procedures and study of musical style.
Prerequisite: Doctoral standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 74121 CONDUCTING PROJECTS:BAND 2 Credit Hours
(Repeatable for credit) Band conducting techniques, score analysis, rehearsal procedures and study of musical style.
Prerequisite: Doctoral standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 74131 CONDUCTING PROJECTS:ORCHESTRA 2 Credit Hours
(Repeatable for credit) Orchestra conducting techniques, score analysis rehearsal procedures and study of musical style.
Prerequisite: Doctoral standing.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 75131 KENT STATE OPERA THEATRE WORKSHOP 1 Credit Hour
(Repeatable for credit) (Slashed with MUS 43131 and MUS 53131) A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 9.5 other
Grade Mode: Standard Letter

MUS 75141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour
(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. An audition in required before registering for this course.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4.5 other
Grade Mode: Standard Letter

MUS 75212 ORCHESTRA 1 Credit Hour
(Slashed with MUS 45212 and MUS 55212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

MUS 75223 WIND ENSEMBLE 1 Credit Hour
(Slashed with MUS 45223 and MUS 55223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. Open to all KSU students, regardless of major. An audition is required.
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

MUS 75231 JAZZ ENSEMBLE 1 Credit Hour
(Repeatable for credit) Study and performance of music literature in the jazz idiom.
Prerequisite: Doctoral standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 7.5 other
Grade Mode: Standard Letter

MUS 75271 NEW MUSIC ENSEMBLE 1 Credit Hour
(Repeatable for credit)(Slashed with MUS 45271 and MUS 55271) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 75301 AFRICAN ENSEMBLE 1 Credit Hour
(Slashed with MUS 45301 and MUS 55301)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with traditional and popular music and dance from Africa and the African diaspora. Specific traditions studied may include, but are not limited to, Ghana, Guinea, Senegal, Nigeria, Haiti, Cuba, Puerto Rico, Trinidad and Tobago and the United States. This course is performance and community focused.
Prerequisite: Doctoral standing.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 75302 CARIBBEAN STEELBAND 1 Credit Hour
(Slashed with MUS 45302 and MUS 55302)(Repeatable for credit) This course teaches performance and cultural etiquettes associated with steelband traditions of Trinidad and Tobago. Specific traditions and genres studied may include, but are not limited to, pan, calypso, soca, Latin, bomb tunes, carnival and tamboo-bamboo. This ensemble is performance and community focused.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 75311 CHAMBER MUSIC 1,2 Credit Hour
(Repeatable for credit) (Slashed with MUS 45311 and MUS 55311) The study and performance of music for small ensembles.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 2-4 other
Grade Mode: Standard Letter

MUS 75314 WORLD MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 45314 and MUS 55314)(Repeatable for maximum of 8 credit hours) This course teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming, Thai Piphat. Specific traditions studied include areas of specialization of instructors and/or advanced student participants.
Prerequisite: Doctoral standing.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 75315 ASIAN MUSIC ENSEMBLE 1 Credit Hour
(Slashed with MUS 45315 and MUS 55315)(Repeatable for credit) This course teaches performance practice and cultural etiquette associated with traditional and popular Asian music genres, e.g., Thai, Chinese and Indian classical music.
Prerequisite: Doctoral standing.
Schedule Type: Ensemble
Contact Hours: 2 other
Grade Mode: Standard Letter

MUS 78251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours
(Slashed with MUS 48251 and MUS 58251) The principles and techniques of teaching music theory.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 78393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours
(Repeatable for credit)Offered for specific professional needs. Emphasis on performance and pedagogical skills.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 81174 ANALYSIS OF WESTERN ART MUSIC 3 Credit Hours
Applicaon of standard analycal techniques to Western art music of Baroque, Classical, Romanc and early 20th -century period music. Analycal focus given to study of the standard musical forms and composional procedures.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 81196 INDIVIDUAL INVESTIGATION IN MUSIC THEORY 1-6 Credit Hours
(Repeatable for credit)Intensive research or readings on selected topic beyond normal course coverage.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 81211 COMPOSITION 2,4 Credit Hours
(Repeatable for credit) Refinement of compositional techniques culminating in large-scale works for media of student's choice.
Prerequisite: Doctoral standing.
Schedule Type: Private Lesson, Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

MUS 82171 MUSIC FROM WORLD CULTURES 3 Credit Hours
(Slashed with MUS 62171) Study of selected art, folk and popular music from world cultures with emphasis on listening skills, cultural context, function, organology and technical matters of style.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 82291 SEMINAR IN MUSICOLOGY 3 Credit Hours
(Repeatable for credit) Examination into primary sources, treatises and writings in selected areas in Western music. Topics selected range from medieval period to present.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

MUS 82396 INDIVIDUAL INVESTIGATION IN MUSICOLOGY 1-6 Credit Hours
(Repeatable for credit)Intensive research or readings on selected topic beyond normal course coverage.
Prerequisite: Doctoral standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 82411 MUSIC BIBLIOGRAPHY AND RESEARCH METHODS 2 Credit Hours
(Slashed with MUS 62411) Study of techniques of music research and creative musical writing including special projects, reports and readings. This is a hybrid course consisting of both in-class meetings and discussions, as well as online interaction and discussion boards.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

MUS 82696 INDIVIDUAL INVESTIGATION IN ETHNOMUSICOLOGY 1-6 Credit Hours
(Repeatable for credit) Intensive research or readings on selected topic beyond normal course coverage.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 83196 INDIVIDUAL INVESTIGATION IN MUSIC EDUCATION 1-6 Credit Hours
(Repeatable for credit)Intensive research or readings on selected topic beyond normal course coverage.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

MUS 86001 SEMINAR IN MUSIC EDUCATION I 3 Credit Hours
This courses prepares students for doctoral study in music education. Topics include understanding tasks and skills necessary for PhD study in music education, along with navigating this study at Kent State. Students interact in seminar format as part of a cohort of students pursuing the study of music teaching and learning.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 86002 SEMINAR IN MUSIC EDUCATION II 3 Credit Hours
This doctoral level course is designed to ready students for final activities of PhD study in music education. Goals include preparation for qualifying exams, understanding of the research proposal process, and exploration of advanced research methodologies and protocols necessary to undertake a dissertation and or significant research project.
Prerequisite: CI 87000 and MUS 86001 and RMS 75510; and doctoral standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MUS 88199 DISSERTATION I 15 Credit Hours
(Repeatable for credit)Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.
Prerequisite: Pass candidacy examination; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 88299 DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.
Prerequisite: MUS 88199; and doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

MUS 88598 RESEARCH 1-15 Credit Hours
(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy examinations.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-IP

Ethnomusicology - M.A.

College of the Arts
School of Music
www.kent.edu/music

About This Program

Immerse yourself in the rich cultural associations of music with our Ethnomusicology graduate program. Gain global coverage, theoretical perspectives and opportunities to communicate effectively within and outside the field. Enroll now to start your journey toward a career in world music or continued doctoral studies. Read more...

Contact Information

- **Andrew Shahriari** | ashahria@kent.edu | 330-672-2830
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the M.A. in Ethnomusicology are not being accepted at this time.

Examples of Possible Careers and Salaries*

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Archivists

- 7.9% faster than the average
- 8,100 number of jobs
- $56,760 potential earnings

Curators

- 12.6% much faster than the average
- 14,500 number of jobs
- $56,990 potential earnings

Musicians and singers

- 0.9% little or no change
- 175,600 number of jobs
- $N/A potential earnings

Music directors and composers

- 1.7% slower than the average
- 58,000 number of jobs
- $52,250 potential earnings

Museum technicians and conservators

- 11.6% much faster than the average
- 14,800 number of jobs
- $45,710 potential earnings

Accreditation

National Association of Schools of Music

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at

which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.A. in Ethnomusicology are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement(s)
- Academic paper written in English
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
MUS 55314	WORLD MUSIC ENSEMBLE (taken three times for 1 credit hour each)	3
MUS 61173	WORLD MUSIC ANALYSIS	3
MUS 62411	MUSIC BIBLIOGRAPHY AND RESEARCH METHODS	2
MUS 62412	INTRODUCTION TO ETHNOMUSICOLOGY	3
MUS 62414	ISSUES AND TRENDS IN ETHNOMUSICOLOGY	3
Major Electives, choose from the following:		6
MUS 52111	AFRICAN MUSIC AND CULTURES	
MUS 52131	MUSIC OF THE UNITED STATES	
MUS 52141	FOLK MUSIC OF EUROPE AND NORTH AMERICA	
MUS 52151	ASIAN MUSICS	
MUS 52161	HISTORY OF JAZZ	
MUS 52181	POPULAR WORLD MUSIC	
MUS 62171	MUSIC FROM WORLD CULTURES	
Seminar Elective, choose from the following:		3
MUS 52291	SEMINAR IN MUSIC HISTORY AND LITERATURE	
MUS 62601	SEMINAR IN MUSICS OF AFRICA	
MUS 62602	SEMINAR IN MUSICS OF THE AMERICAS	
MUS 62603	SEMINAR IN MUSICS OF THE MIDDLE EAST	
MUS 62604	SEMINAR IN MUSICS OF EAST ASIA	
MUS 62606	SEMINAR IN MUSICS OF SOUTHEAST ASIA	
Non-Ethnomusicology-Focused Course [1]		3
Culminating Requirement		
Choose from the following: [2]		6
MUS 68092	GRADUATE INTERNSHIP	
MUS 68099	CAPSTONE PROJECT	
MUS 68199	THESIS I	
Minimum Total Credit Hours:		**32**

[1] Students are expected to take a non-ethnomusicology focused course from an outside discipline (e.g. anthropology, music education) approved by the ethnomusicology faculty.

[2] For the culminating experience, all students selecting must pass a final oral examination.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Recognize, identify, interpret and discuss theoretical concerns and important contributions of historical figures in the field of ethnomusicology, as well as representative music styles from different historical periods, countries and ethnic populations.
2. Demonstrate and apply fieldwork techniques including proficiency with photography, videography and audio recording, interviewing and participant-observation research.
3. Demonstrate the ability to plan and execute an efficient and productive lecture presentation in an academic setting for use at professional conferences, concert performances and classroom teaching that includes time management, clear and effective explanation, efficient use of multi-media and successful question and answer interactions.
4. Utilize and discuss theoretical issues related to ethnomusicology and related disciplines, such as socio-cultural identity, semiotics, gender studies, politics and power, ritual studies, globalization and hybridity.
5. Identify, explain and utilize performance pedagogy.
6. Analyze compositional forms, appropriate to the specific vocal or instrumental areas of study.
7. Display performance and interpretation skills in music.

School of Music Graduate Study

Program Requirements

Each student will be accepted as a major in a specific curricular area. It may be necessary for the student to complete Kent State University requirements for the appropriate undergraduate degree. Students' academic requirements are based on the catalog in effect during their first semester at Kent State University. Students may elect to complete their degrees under the most recent catalog, but must comply with all the new requirements relevant to their program under the new catalog.

Master's Thesis, Essay, Recital and Final Oral Examination

All Master of Music degree candidates in Performance must perform two recitals or one recital and write an essay depending on their specific degree requirements. Final oral examinations are required for all masters programs. The final oral examination may be attempted two times.

Research Tool Requirement

Candidates for the Master of Arts degree in Ethnomusicology must demonstrate a reading and understanding knowledge of one foreign language. Credit hours earned in meeting this requirement are not applied toward the credit hour requirement for the program.

For Ph.D. degree candidates in Music Theory - Composition, this requirement may be either a reading translating knowledge of one foreign language or demonstrated competence in an area of research specified by the doctoral advisory committee and approved by the Graduate Studies Committee. Credit hours earned in meeting this requirement are not applied toward the credit hour requirement for the program. For Ph.D. degree candidates in Music Education, this requirement is MUS 73283 and related research methods courses in the College of Education, Health and Human Services. These courses are applied toward the credit hour requirement for the program.

Ph.D. Candidacy Exams, Dissertation and Dissertation Defense

Doctoral candidates will take a comprehensive examination upon completion of their coursework and research tool requirement. This candidacy exam normally takes place within four years of beginning coursework. All doctoral candidates write and defend a dissertation via a final oral examination. The dissertation phase normally is completed within five years of passing the candidacy exams.

Time Limits

Master of Arts and Master of Music degree candidates must complete their degree within six calendar years after their first graduate registration at Kent State University. Any credit transferred for meeting degree requirements must also have been earned within the six-year period.

Ph.D. degree candidates must complete their degree within nine calendar years after their first doctoral registration at Kent State University. Any credit transferred for meeting degree requirements must also have been earned within the nine-year period.

Workshop Credit

A maximum 4 credit hours of workshop credit may be applied toward certain graduate degrees. The credit hours must pertain to the degree emphasis. Only workshop credits earned with a B grade or higher may be transferred into a program.

Full Description

The Master of Arts degree in Ethnomusicology is designed to offer students a solid foundation in regional studies of music style, performance practice, history and cultural associations in order to prepare students for continued graduate studies at the doctoral level and/or public sector careers in world music. The program integrates theoretical perspectives relevant to the discipline with these practical aims, so that students can communicate effectively with persons within and outside the field of ethnomusicology.

While a balanced global coverage is emphasized, Kent State music faculty focus on studies in Central Africa, mainland Southeast Asia, East Asia, the Caribbean, North and South America and the Middle East, as well as popular music studies. Theoretical concerns include sociocultural identity, semiotics, gender studies, politics and power, ritual studies, globalization and hybridity, as well as studies in inter-related arts (e.g., dance and theatre).

Jazz Studies - Minor

College of the Arts
School of Music
www.kent.edu/music

About This Program

The Jazz Studies minor allows student to explore the medium of jazz through individual and ensemble performance and creative learning activities.

Contact Information

- **Bobby Selvaggio** | rselvagg@kent.edu | 330-672-2965
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to this minor is selective. Students are required to do a program/scholarship audition. Information regarding audition days and requirements can be found at www.kent.edu/music/undergraduate-audition, or inquiries can be sent to musicadmission@kent.edu.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements (min C grade required in all courses)		
MUS 41341	JAZZ IMPROVISATION I	1
MUS 42162	JAZZ STYLES AND ANALYSIS	3
MUS 45231	JAZZ ENSEMBLE (taken twice)	2
or MUS 45313	NOVA JAZZ SINGERS	
Minor Electives, choose from the following:		6
MUS 16001	APPLIED MUSIC JAZZ [1]	
MUS 17013	FUNDAMENTALS OF JAZZ PIANO	
MUS 41342	JAZZ COMPOSING AND ARRANGING	
MUS 41351	JAZZ IMPROVISATION II	
MUS 42161	HISTORY OF JAZZ (DIVD)	
MUS 45231	JAZZ ENSEMBLE	
MUS 45312	JAZZ COMBO DEVELOPMENT	

MUS 45313	NOVA JAZZ SINGERS	
Minimum Total Credit Hours:		**12**

[1] Repeatable for up to two semesters.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- A minimum C grade is required for all minor courses.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Create music that is informed by the study of the history, theory and performance practice of jazz.
2. Analyze music that is informed by the study of the history, theory and performance practice of jazz.
3. Perform music that is informed by the study of the history, theory and performance practice of jazz.

Music - B.A.

College of the Arts
School of Music
www.kent.edu/music

About This Program

The Bachelor of Arts in Music program provides students with a well-rounded education in music theory, history and performance. With a variety of performance opportunities and experienced faculty, this program prepares graduates for careers in music and beyond. Read more...

Contact Information

- **Gerrey Noh** | hnoh@kent.edu
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Musicians and singers

- 0.9% little or no change
- 175,600 number of jobs
- $N/A potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Additional Careers

- Music and singing teachers at community colleges, colleges and universities and art institutes

Accreditation

National Association of Schools of Music

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this major is selective. Students are required to do a program/scholarship audition. Information regarding audition days and requirements can be found at https://www.kent.edu/music/undergraduate-audition, or inquiries can be sent to musicadmission@kent.edu.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) (min C grade required in all courses)		
MUS 11121	THEORY I [1]	4
MUS 11122	THEORY II	4
MUS 17013	FUNDAMENTALS OF JAZZ PIANO	1
or MUS 17112	PIANO CLASS II	
MUS 17111	PIANO CLASS I [2]	1
MUS 21111	THEORY III	4

MUS 21112	THEORY IV	4
MUS 32211	WESTERN MUSIC HISTORY I	3
MUS 32212	WESTERN MUSIC HISTORY II (WIC) [3]	3
MUS 38599	RECITAL (ELR) [4]	1
or MUS 48598	MUSIC RESEARCH (ELR)	
Music Elective, choose from the following:		3
MUS 41291	SEMINAR IN POST-TONAL AND RECENT MUSIC	
MUS 41391	SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY	
MUS 42131	MUSIC OF THE UNITED STATES	
MUS 42221	SYMPHONIC LITERATURE	
MUS 42227	WIND BAND LITERATURE	
MUS 42241	PIANO LITERATURE	
MUS 42261	VOCAL LITERATURE	
MUS 42271	CHORAL LITERATURE	
MUS 42291	SEMINAR IN MUSIC HISTORY AND LITERATURE	
MUS 48610	SINGER'S DICTION	
Non-Western and Small Ensemble Electives, choose from the following:		3
MUS 45131	KENT STATE OPERA THEATRE WORKSHOP	
MUS 45151	KENT STATE UNIVERSITY GOSPEL CHOIR	
MUS 45231	JAZZ ENSEMBLE	
MUS 45251	PERCUSSION ENSEMBLE	
MUS 45271	NEW MUSIC ENSEMBLE	
MUS 45301	AFRICAN ENSEMBLE (DIVG)	
MUS 45302	CARIBBEAN STEELBAND (DIVG)	
MUS 45311	CHAMBER MUSIC	
MUS 45313	NOVA JAZZ SINGERS	
MUS 45315	ASIAN MUSIC ENSEMBLE (DIVG)	
Additional Requirements (courses do not count in major GPA)		
CA 20005	INNOVATIVE APPLICATIONS IN THE ARTS	2
or CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
Minor and Non-Music Electives (total credit hours depends on earning 121 credit hours, including 39 upper-division credit hours) [5]		27
Additional Requirements or Concentration		
Choose from the following:		23
Additional Requirements for Students Not Declaring a Concentration		
Jazz Studies Concentration		
Minimum Total Credit Hours:		**120**

1 Music Theory Placement Test score of 02 is required.

2 Placement test required. Students who pass the placement exam will replace MUS 17111 with a 1-credit hour music (MUS) elective.

3 A minimum C grade must be earned to fulfill the writing-intensive requirement.

4 Students must complete six semesters of applied music in their auditioned area before taking MUS 38599 or MUS 48598.

5 Students in the B.A Music program are required to declare and complete a minor. The number of credit hours required to complete the minor depends on the minor selected.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Additional Requirements (courses count in major GPA) (min C grade required in all courses)		
Applied Music Electives, choose from the following: [1]		12
MUS 31211	COMPOSITION	
MUS 36111	APPLIED MUSIC PIANO	
MUS 36311	APPLIED MUSIC VOICE	
MUS 36411	APPLIED MUSIC VIOLIN	
MUS 36412	APPLIED MUSIC VIOLA	
MUS 36413	APPLIED MUSIC CELLO	
MUS 36414	APPLIED MUSIC DOUBLE BASS	
MUS 36511	APPLIED MUSIC FLUTE	
MUS 36512	APPLIED MUSIC OBOE	
MUS 36513	APPLIED MUSIC CLARINET	
MUS 36514	APPLIED MUSIC BASSOON	
MUS 36515	APPLIED MUSIC SAXOPHONE	
MUS 36611	APPLIED MUSIC TRUMPET	
MUS 36612	APPLIED MUSIC HORN	
MUS 36613	APPLIED MUSIC TROMBONE	
MUS 36614	APPLIED MUSIC EUPHONIUM	
MUS 36615	APPLIED MUSIC TUBA	
MUS 36711	APPLIED MUSIC PERCUSSION	
MUS 36912	APPLIED MUSIC GUITAR	
Creative Music Elective, choose from the following:		3
MUS 21113	MUSIC PRODUCTION I	
MUS 21213	CLASS COMPOSITION I	
MUS 34111	INTRODUCTION TO CONDUCTING	
MUS 41341	JAZZ IMPROVISATION I	
MUS 41351	JAZZ IMPROVISATION II	
Large Ensemble Electives, choose from the following: [2]		8
MUS 45141	KENT STATE UNIVERSITY CHORALE	
MUS 45142	CORO CANTARE	
MUS 45143	CANTIQUE	
MUS 45212	ORCHESTRA	
MUS 45221	SYMPHONY BAND	
MUS 45223	WIND ENSEMBLE	
Minimum Total Credit Hours:		**23**

1 Bachelor of Arts students are restricted to taking 2-credit hour applied music sections, which include a 60-minute group practice and 60-minute private lesson. Students not declaring a concentration will need to take a total of six semesters and 12 credit hours of applied music in the auditioned area. Students must meet the B.A. Applied Music Proficiency Threshold by the end of the sixth semester of applied music.

2 Students must enroll in a large ensemble appropriate to their performance area.

Jazz Studies Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
MUS 34111	INTRODUCTION TO CONDUCTING	1
MUS 36011	APPLIED MUSIC JAZZ (taken three times)	6
MUS 41341	JAZZ IMPROVISATION I	1
MUS 41342	JAZZ COMPOSING AND ARRANGING	2
MUS 41351	JAZZ IMPROVISATION II	1
MUS 42162	JAZZ STYLES AND ANALYSIS	3
Applied Music Elective, choose from the following: [1]		2
MUS 36111	APPLIED MUSIC PIANO	
MUS 36311	APPLIED MUSIC VOICE	
MUS 36411	APPLIED MUSIC VIOLIN	
MUS 36412	APPLIED MUSIC VIOLA	
MUS 36413	APPLIED MUSIC CELLO	
MUS 36414	APPLIED MUSIC DOUBLE BASS	
MUS 36511	APPLIED MUSIC FLUTE	
MUS 36512	APPLIED MUSIC OBOE	
MUS 36513	APPLIED MUSIC CLARINET	
MUS 36514	APPLIED MUSIC BASSOON	
MUS 36515	APPLIED MUSIC SAXOPHONE	
MUS 36611	APPLIED MUSIC TRUMPET	
MUS 36612	APPLIED MUSIC HORN	
MUS 36613	APPLIED MUSIC TROMBONE	
MUS 36614	APPLIED MUSIC EUPHONIUM	
MUS 36615	APPLIED MUSIC TUBA	
MUS 36711	APPLIED MUSIC PERCUSSION	
MUS 36912	APPLIED MUSIC GUITAR	
Ensemble Electives, choose from the following:		7
MUS 45231	JAZZ ENSEMBLE	
MUS 45312	JAZZ COMBO DEVELOPMENT	
MUS 45313	NOVA JAZZ SINGERS	
Minimum Total Credit Hours:		**23**

[1] Bachelor of Arts students are restricted to taking 2-credit hour applied music sections, which include a 60-minute group practice and 60-minute private lesson. Students declaring the Jazz Studies concentration must take one semester and 2 credit hours of applied music in the auditioned area during their freshman year.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- Minimum C grade required in all music (MUS) courses
- Students in the B.A Music program are required to declare and complete a minor. The number of credit hours required to complete the minor depends on the minor selected. Students may select any minor available at Kent State University. However, the following minors are strongly recommended:
  - Arts Entrepreneurship
  - Audio Recording
  - Digital Media and Production
  - Entrepreneurship for Non-Business Majors
  - Game Design
  - Psychology
  - Speech Pathology and Audiology

Roadmaps

Music Major (No Concentration)

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MUS 11121	THEORY I	4
UC 10001	FLASHES 101	1
Applied Music Elective		2
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Two		
MUS 11122	THEORY II	4
MUS 17111	PIANO CLASS I	1
Applied Music Elective		2
Large Ensemble Elective		1
Non-Western and Small Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
MUS 17013 or MUS 17112	FUNDAMENTALS OF JAZZ PIANO or PIANO CLASS II	1
MUS 21111	THEORY III	4
Applied Music Elective		2
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Four		
MUS 21112	THEORY IV	4
Applied Music Elective		2
Large Ensemble Elective		1
Non-Western and Small Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
Minor or Non-Music Elective		1
	Credit Hours	**15**
Semester Five		
MUS 32211	WESTERN MUSIC HISTORY I	3
Applied Music Elective		2
Creative Music or Minor Elective		3
Large Ensemble Elective		1
Music or Minor Elective		3
Non-Western and Small Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**16**
Semester Six		
MUS 32212	WESTERN MUSIC HISTORY II (WIC)	3
MUS 38599 or MUS 48598	RECITAL (ELR) or MUSIC RESEARCH (ELR)	1
Applied Music Elective		2
Creative Music or Minor Elective		3
Large Ensemble Elective		1
Music or Minor Elective		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Seven		
CA 20005 or CA 31300	INNOVATIVE APPLICATIONS IN THE ARTS or MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	2
or Non-Music Elective		
Creative Music or Minor Elective		3
Large Ensemble Elective		1
Music or Minor Elective		3
Kent Core Requirement		3
Minor or Non-Music Elective		3
	Credit Hours	**15**
Semester Eight		
CA 20005 or CA 31300	INNOVATIVE APPLICATIONS IN THE ARTS or MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	2
or Non-Music Elective		
Creative Music or Minor Elective		3
Large Ensemble Elective		1
Music or Minor Elective		3
Kent Core Requirement		3
Minor or Non-Music Elective		3
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

Jazz Studies Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MUS 11121	THEORY I	4
MUS 41341	JAZZ IMPROVISATION I	1
UC 10001	FLASHES 101	1
Applied Music Elective		2
Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Two		
MUS 11122	THEORY II	4
MUS 17111	PIANO CLASS I	1
MUS 36011	APPLIED MUSIC JAZZ	2
MUS 41351	JAZZ IMPROVISATION II	1
or Non-Western and Small Ensemble Elective		
Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
MUS 17013 or MUS 17112	FUNDAMENTALS OF JAZZ PIANO or PIANO CLASS II	1
MUS 21111	THEORY III	4
MUS 36011	APPLIED MUSIC JAZZ	2
Ensemble Elective		1
Non-Western and Small Ensemble Elective		1

Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
MUS 21112	THEORY IV	4
MUS 36011	APPLIED MUSIC JAZZ	2
MUS 41351	JAZZ IMPROVISATION II	1
or Non-Western and Small Ensemble Elective		
Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
Minor or Non-Music Elective		1
	Credit Hours	**15**
Semester Five		
MUS 32211	WESTERN MUSIC HISTORY I	3
MUS 34111	INTRODUCTION TO CONDUCTING	1
MUS 41342	JAZZ COMPOSING AND ARRANGING	2
or Non-Music Elective		
Ensemble Elective		1
Music or Minor Elective		3
Non-Western and Small Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**14**
Semester Six		
MUS 32212	WESTERN MUSIC HISTORY II (WIC)	3
MUS 42162	JAZZ STYLES AND ANALYSIS	3
or Non-Music Elective		
Creative Music or Minor Elective		1
Ensemble Elective		1
Music or Minor Elective		3
Non-Music Elective		1
Kent Core Requirement		3
	Credit Hours	**15**
Semester Seven		
CA 20005 or CA 31300	INNOVATIVE APPLICATIONS IN THE ARTS or MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	2
or Non-Music Elective		
MUS 41342	JAZZ COMPOSING AND ARRANGING	2
or Non-Music Elective		
Ensemble Elective		1
Music or Minor Elective		3
Kent Core Requirement		3
Minor or Non-Music Electives		4
	Credit Hours	**15**
Semester Eight		
CA 20005 or CA 31300	INNOVATIVE APPLICATIONS IN THE ARTS or MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	2
or Non-Music Elective		
MUS 38599 or MUS 48598	RECITAL (ELR) or MUSIC RESEARCH (ELR)	1
MUS 42162	JAZZ STYLES AND ANALYSIS	3
or Non-Music Elective		
Music or Minor Electives		4
Kent Core Requirement		3
Minor or Non-Music Elective		3
	Credit Hours	**16**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Work conceptually, aurally and creatively with elements of music such as melody, harmony, form, rhythm and texture.
2. Interpret and perform music from a multitude of diverse musical styles, composers and eras through solo, small group and large group performances.
3. Apply their musical knowledge/skills in an interdisciplinary fashion with an area/areas of their choice.

Program Policies
Dual Degree/Double Major
School of Art

Students are permitted to double major in more than one division of the School of Art or complete more than one concentration in the same division.

1. Students enrolling in more than one major within the school must complete all course requirements in each major. If the two majors represent different degree programs, a minimum of 140 credit hours must be completed.
2. Students enrolling in a double concentration within the B.F.A. program must complete at least 12 upper-division credit hours within each concentration. In addition, all reviews must be passed and a senior project must be completed in each concentration.

A student taking a second major in art history must complete the language requirement. The program requirements for a double major must be approved in advance in writing by either the director or the division coordinator and become a part of the student's permanent file.

The Hugh A. Glauser School of Music

The Bachelor of Music, Bachelor of Arts degree in Music and the Bachelor of Science degree in Music Technology programs can be combined with approval by the faculty and director of the School of Music. In addition, double majors and more than one concentration within a major can be approved by the faculty and director of the School of Music.

Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

School of Music Undergraduate Professional Standards

1. **Ensemble Requirements**
   Ensemble participation is an integral part of every music major's program. All full-time music majors must enroll for credit and participate in an ensemble appropriate to their major performance area until the number of semesters required in the program are completed. Music minors in the College of the Arts must enroll in a major ensemble for a minimum of two semesters. Transfer music minors must enroll in a major ensemble for a minimum of one semester.
2. **Recital Attendance**
   Required recital attendance is intended to enhance the musical perspective of all music majors and give them exposure to a sampling of various genres and performing media. Transfer students must attend a minimum of 10 recitals per semester. Other undergraduate music majors are required to attend a minimum four-year total of 84 concerts or recitals. Attendance at an average of 10-12 School of Music concerts per semester is recommended. Students will be notified of their status in regard to this policy once per semester. Appropriate information for all students will be sent to the college office prior to graduation. Further information is available in the School of Music office.
3. **Applied Music Requirement for the Bachelor of Music**
   a. **36000-level requirements:** All freshmen enter at the 36000-level of applied study. A minimum of four semesters of enrollment are required in the number of applied credit hours as prescribed by the degree program. A jury is performed at the end of each semester. At entrance, all students are informed of the performance standards necessary to advance to the 46000-level as determined by the faculty of each applied area. Transfer students with a minimum of four semesters of applied study (or equivalent) may enter at the 46000-level as determined by the entrance audition.
   b. **46000-level evaluation:** Students in the Bachelor of Music degree program will be evaluated during juries to determine if they meet the 46000-level entrance standard. The results of the 46000-level entry evaluation are:
      i. **Pass to the 46000-level**.
      ii. **Probation for one semester:** The students will register at the 46000-level and retake the upper-level entrance jury at the end of the probationary semester. If the 46000-level entrance standard is not achieved, the students return to the 36000-level, repeating as needed.
      iii. **Failure to pass the entry-level evaluation:** The students remain at the 36000-level of applied study until the 46000-level entrance standard is met.
   c. **Required accumulation of 46000-level applied credits**
      i. **Performance concentration:** four semesters (16 credit hours)
      ii. **Education majors:** three semesters (6 credit hours)
      iii. **Composition concentration:** must pass the 46000-level entry evaluation prior to graduation.
   d. **46000-level outcome assessment/recital**
      i. **Performance requirement***:* All Bachelor of Music performance degree candidates (piano, voice, instrumental) must perform both a one-half junior and a full senior recital; all other Bachelor of Music majors (composition, music education) must perform a half recital. Students who do not pass the recital must repeat 46000-level lessons until the recital is acceptable. Composition students may fulfill the one-half recital requirement in several ways.
   e. **Applied music requirements for the Bachelor of Arts in Music**
      Students in the Bachelor of Arts in Music program must meet the 46000-level as a graduation requirement and are not required to enroll at the 46000-level. Bachelor of Arts degree candidates are

required to perform a half or full senior recital if approved by the faculty while enrolled in applied music or complete MUS 48598.

f. **Applied music requirements for the B.S. in Music Technology**
   i. Music technology majors are required to complete a total of six semesters (12 credit hours) of Applied Studio Musicianship. A jury is performed at the end of each semester of study.
   ii. Students must meet the Sophomore Proficiency requirement after two semesters and the Senior Proficiency requirement prior to graduation.

4. **Advanced Study Admission Requirements**
   All Bachelor of Music degree majors must fulfill certain requirements to enter appropriate advanced standing for program specific upper-division coursework in the School of Music. These requirements are as follows:
   a. **Performance concentrations:** All students must meet the requirements for admission to 46000-level applied study as stated above.
   b. **Composition concentration:** The composition faculty will evaluate each student's work during the semester in which MUS 21112 is taken to determine if the student should continue to pursue the concentration. A 3.000 GPA is required in music theory classes. A skills test and composition portfolio are required. Specific information may be obtained from the coordinator of theory and composition.
   c. **Music Education concentration:** Music education majors must apply for admission into advanced study in the College of Education, Health, and Human Services prior to junior year. Music education majors must also pass the music education professional evaluation in the music education division limited to two attempts of the entire evaluation. Specific information may be obtained from the coordinator of music education.
5. **Grade Standard**
   Music majors and minors must earn a grade of C or better in all music courses in order to count them toward graduation and meet prerequisites for subsequent courses. Music courses required to meet the Writing-Intensive Course requirement must be passed with a C or better.
6. **Outcomes Assessment**
   Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

To graduate from Kent State University with the B.S. In music technology, students must have successfully completed a music technology Internship through an evaluation by the Music Technology Committee.

Full Description

The Bachelor of Arts degree in Music gives students an opportunity to earn a degree in music that aligns with their future musical and career goals and explore interdisciplinary opportunities by declaring a minor of their choice.

The Music major includes the following optional concentration:

- The **Jazz Studies concentration** provides students who are focused on jazz the opportunity to take coursework in improvisation, composing and arranging, and fully explore their creativity in music making.

Students in this program are encouraged to craft their major to serve their professional futures. Musicians may pair this major with a minor in areas that include, but are not limited to, media, digital music production, psychology, audiology, entrepreneurship, music technology and more.

Music - B.M.

College of the Arts
School of Music
www.kent.edu/music

About This Program

Earn your Bachelor of Music degree and turn your passion into a career! Specialize in voice, piano, composition or instrumental while gaining hands-on experience through ensembles, chamber music, conducting and more. Showcase your talent in two public recitals and prepare for a future in professional music or graduate study. Read more...

Contact Information

- **Gerrey Noh** | hnoh@kent.edu
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Additional Careers

- Instrumentalists and singers

Accreditation

The B.M. degree in Music is approved by the National Association of Schools of Music.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this major is selective. Students are required to do a program/scholarship audition. Information regarding audition days and requirements can be found on the school website, and inquiries can be sent to musicadmission@kent.edu.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) (min C grade required in all courses)		
MUS 11121	THEORY I [1]	4
MUS 11122	THEORY II	4
MUS 21111	THEORY III	4
MUS 21112	THEORY IV	4
MUS 32211	WESTERN MUSIC HISTORY I	3
MUS 32212	WESTERN MUSIC HISTORY II (WIC) [2]	3
MUS 34111	INTRODUCTION TO CONDUCTING	1
MUS 41341	JAZZ IMPROVISATION I	1
MUS 48250	PEDAGOGY OF MUSIC	3
Applied Music Electives (36000 level), choose from the following: [3]		16
MUS 31211	COMPOSITION	
MUS 36111	APPLIED MUSIC PIANO	
MUS 36311	APPLIED MUSIC VOICE	
MUS 36411	APPLIED MUSIC VIOLIN	
MUS 36412	APPLIED MUSIC VIOLA	
MUS 36413	APPLIED MUSIC CELLO	
MUS 36414	APPLIED MUSIC DOUBLE BASS	
MUS 36511	APPLIED MUSIC FLUTE	
MUS 36512	APPLIED MUSIC OBOE	
MUS 36513	APPLIED MUSIC CLARINET	
MUS 36514	APPLIED MUSIC BASSOON	
MUS 36515	APPLIED MUSIC SAXOPHONE	
MUS 36611	APPLIED MUSIC TRUMPET	
MUS 36612	APPLIED MUSIC HORN	
MUS 36613	APPLIED MUSIC TROMBONE	
MUS 36614	APPLIED MUSIC EUPHONIUM	
MUS 36615	APPLIED MUSIC TUBA	
MUS 36711	APPLIED MUSIC PERCUSSION	
Applied Music Electives (46000 level), choose from the following: [4]		16
MUS 41211	COMPOSITION	
MUS 46111	APPLIED MUSIC PIANO	
MUS 46311	APPLIED MUSIC VOICE	
MUS 46411	APPLIED MUSIC VIOLIN	
MUS 46412	APPLIED MUSIC VIOLA	
MUS 46413	APPLIED MUSIC CELLO	
MUS 46414	APPLIED MUSIC DOUBLE BASS	
MUS 46511	APPLIED MUSIC FLUTE	
MUS 46512	APPLIED MUSIC OBOE	
MUS 46513	APPLIED MUSIC CLARINET	
MUS 46514	APPLIED MUSIC BASSOON	
MUS 46515	APPLIED MUSIC SAXOPHONE	
MUS 46611	APPLIED MUSIC TRUMPET	
MUS 46612	APPLIED MUSIC HORN	
MUS 46613	APPLIED MUSIC TROMBONE	
MUS 46614	APPLIED MUSIC EUPHONIUM	
MUS 46615	APPLIED MUSIC TUBA	
MUS 46711	APPLIED MUSIC PERCUSSION	
Large Ensemble Electives, choose from the following: [5]		8
MUS 45121	KENT CHORUS	
MUS 45141	KENT STATE UNIVERSITY CHORALE	
MUS 45142	CORO CANTARE	
MUS 45143	CANTIQUE	
MUS 45212	ORCHESTRA	
MUS 45221	SYMPHONY BAND	
MUS 45223	WIND ENSEMBLE	
Non-Western and Small Ensemble Electives, choose from the following:		2
MUS 45131	KENT STATE OPERA THEATRE WORKSHOP	
MUS 45151	KENT STATE UNIVERSITY GOSPEL CHOIR	
MUS 45231	JAZZ ENSEMBLE	
MUS 45251	PERCUSSION ENSEMBLE	
MUS 45271	NEW MUSIC ENSEMBLE	
MUS 45301	AFRICAN ENSEMBLE (DIVG)	
MUS 45302	CARIBBEAN STEELBAND (DIVG)	
MUS 45313	NOVA JAZZ SINGERS	
MUS 45315	ASIAN MUSIC ENSEMBLE (DIVG)	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
Concentrations		
Choose from the following:		14
Composition		
Instrumental Performance		
Piano Performance		
Voice Performance		
Minimum Total Credit Hours:		**120**

1. Music Theory Placement Test score of 02 is required.
2. A minimum C grade must be earned to fulfill the writing-intensive requirement.
3. Students must complete 16 credit hours at the 36000 level. Applied music courses are based on instrument of acceptance into the appropriate concentration. The 46000 level may be taken following the 36000-level Applied Music Proficiency Threshold evaluation, which takes place during the fourth semester final jury exam.

[4] Students must complete 16 credit hours at the 46000 level. Applied music courses are based on instrument of acceptance into the appropriate concentration.

[5] Students must enroll in a major ensemble appropriate to their major performance area.

Composition Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
MUS 16000	APPLIED MUSIC [1]	3
MUS 17013	FUNDAMENTALS OF JAZZ PIANO	1
or MUS 17112	PIANO CLASS II	
MUS 17111	PIANO CLASS I [2]	1
MUS 41291	SEMINAR IN POST-TONAL AND RECENT MUSIC	3
MUS 41391	SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY	3
MUS 45271	NEW MUSIC ENSEMBLE	1
MUS 48699	COMPOSITION RECITAL (ELR)	2
Minimum Total Credit Hours:		**14**

[1] Students may not take additional composition lessons to satisfy this requirement.

[2] Placement test required. Students who pass the placement exam will replace MUS 17111 with a 1-credit hour music (MUS) elective.

Instrumental Performance Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
MUS 17013	FUNDAMENTALS OF JAZZ PIANO	1
or MUS 17112	PIANO CLASS II	
MUS 17111	PIANO CLASS I [1]	1
MUS 38599	RECITAL (ELR)	1
MUS 42221	SYMPHONIC LITERATURE	3
or MUS 42227	WIND BAND LITERATURE	
MUS 45311	CHAMBER MUSIC (taken three times)	3
MUS 48599	CAPSTONE RECITAL (ELR)	1
Music Elective, choose from the following:		3
MUS 41291	SEMINAR IN POST-TONAL AND RECENT MUSIC	
MUS 41391	SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY	
MUS 42221	SYMPHONIC LITERATURE	
MUS 42227	WIND BAND LITERATURE	
MUS 42241	PIANO LITERATURE	
MUS 42261	VOCAL LITERATURE	
MUS 42271	CHORAL LITERATURE	
MUS 42291	SEMINAR IN MUSIC HISTORY AND LITERATURE	
MUS 48610	SINGER'S DICTION	
Non-Western and Small Ensemble Elective, choose from the following:		1
MUS 45131	KENT STATE OPERA THEATRE WORKSHOP	
MUS 45151	KENT STATE UNIVERSITY GOSPEL CHOIR	
MUS 45231	JAZZ ENSEMBLE	
MUS 45251	PERCUSSION ENSEMBLE	
MUS 45271	NEW MUSIC ENSEMBLE	
MUS 45301	AFRICAN ENSEMBLE (DIVG)	
MUS 45302	CARIBBEAN STEELBAND (DIVG)	
MUS 45313	NOVA JAZZ SINGERS	
MUS 45315	ASIAN MUSIC ENSEMBLE (DIVG)	
Minimum Total Credit Hours:		**14**

[1] Placement test required. Students who pass the placement exam will replace MUS 17111 with a 1-credit hour music (MUS) elective.

Piano Performance Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
MUS 38599	RECITAL (ELR)	1
MUS 42241	PIANO LITERATURE	3
MUS 45311	CHAMBER MUSIC (taken three times)	3
MUS 45321	ACCOMPANYING (taken twice)	3
MUS 48599	CAPSTONE RECITAL (ELR)	1
Music Elective, choose from the following:		3
MUS 41291	SEMINAR IN POST-TONAL AND RECENT MUSIC	
MUS 41391	SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY	
MUS 42221	SYMPHONIC LITERATURE	
MUS 42227	WIND BAND LITERATURE	
MUS 42261	VOCAL LITERATURE	
MUS 42271	CHORAL LITERATURE	
MUS 42291	SEMINAR IN MUSIC HISTORY AND LITERATURE	
MUS 48610	SINGER'S DICTION	
Minimum Total Credit Hours:		**14**

Voice Performance Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
MUS 17013	FUNDAMENTALS OF JAZZ PIANO	1
or MUS 17112	PIANO CLASS II	
MUS 17111	PIANO CLASS I [1]	1
MUS 38599	RECITAL (ELR)	1
MUS 45131	KENT STATE OPERA THEATRE WORKSHOP	1
MUS 42261	VOCAL LITERATURE	3
MUS 48599	CAPSTONE RECITAL (ELR)	1
MUS 48610	SINGER'S DICTION	3
Music Elective, choose from the following:		3
MUS 41291	SEMINAR IN POST-TONAL AND RECENT MUSIC	
MUS 41391	SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY	
MUS 42131	MUSIC OF THE UNITED STATES	
MUS 42221	SYMPHONIC LITERATURE	
MUS 42227	WIND BAND LITERATURE	
MUS 42241	PIANO LITERATURE	
MUS 42271	CHORAL LITERATURE	

MUS 42291	SEMINAR IN MUSIC HISTORY AND LITERATURE	
Minimum Total Credit Hours:		**14**

[1] Placement test required. Students who pass the placement exam will replace MUS 17111 with a 1-credit hour music (MUS) elective.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- Minimum C grade required in all music (MUS) courses
- Students in the Composition concentration must earn a minimum 3.000 GPA in MUS 11121, MUS 11122, MUS 21111 and MUS 21112.

Roadmaps

Composition Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MUS 11121	THEORY I	4
UC 10001	FLASHES 101	1
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
MUS 11122	THEORY II	4
MUS 17111	PIANO CLASS I	1
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
MUS 17013 or MUS 17112	FUNDAMENTALS OF JAZZ PIANO or PIANO CLASS II	1
MUS 21111	THEORY III	4
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
MUS 21112	THEORY IV	4
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Five		
MUS 16000	APPLIED MUSIC	1
MUS 32211	WESTERN MUSIC HISTORY I	3
MUS 34111	INTRODUCTION TO CONDUCTING	1
MUS 48250	PEDAGOGY OF MUSIC	0-3
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**13**
Semester Six		
MUS 16000	APPLIED MUSIC	1
MUS 32212	WESTERN MUSIC HISTORY II (WIC)	3
MUS 41291 or MUS 41391	SEMINAR IN POST-TONAL AND RECENT MUSIC or SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY	3
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**15**
Semester Seven		
MUS 16000	APPLIED MUSIC	1
MUS 41341	JAZZ IMPROVISATION I	1
MUS 45271	NEW MUSIC ENSEMBLE	1
MUS 48250	PEDAGOGY OF MUSIC	0-3
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Non-Western and Small Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**15**
Semester Eight		
MUS 41291 or MUS 41391	SEMINAR IN POST-TONAL AND RECENT MUSIC or SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY	3
MUS 48699	COMPOSITION RECITAL (ELR)	2
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Non-Western and Small Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

Instrumental Performance Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MUS 11121	THEORY I	4
UC 10001	FLASHES 101	1
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
MUS 11122	THEORY II	4

MUS 17111	PIANO CLASS I	1
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
MUS 17013 or MUS 17112	FUNDAMENTALS OF JAZZ PIANO or PIANO CLASS II	1
MUS 21111	THEORY III	4
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
MUS 21112	THEORY IV	4
MUS 45311	CHAMBER MUSIC	1
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Five		
MUS 32211	WESTERN MUSIC HISTORY I	3
MUS 34111	INTRODUCTION TO CONDUCTING	1
MUS 42221 or MUS 48250	SYMPHONIC LITERATURE or PEDAGOGY OF MUSIC	0-3
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**15**
Semester Six		
MUS 32212	WESTERN MUSIC HISTORY II (WIC)	3
MUS 38599	RECITAL (ELR)	1
MUS 42227	WIND BAND LITERATURE	0-3
or Music Elective		
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Non-Western and Small Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**13**
Semester Seven		
MUS 41341	JAZZ IMPROVISATION I	1
MUS 42221 or MUS 48250	SYMPHONIC LITERATURE or PEDAGOGY OF MUSIC	0-3
MUS 45311	CHAMBER MUSIC	1
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Non-Western and Small Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**14**
Semester Eight		
MUS 42227	WIND BAND LITERATURE	0-3
or Music Elective		
MUS 45311	CHAMBER MUSIC	1
MUS 48599	CAPSTONE RECITAL (ELR)	1
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Non-Western and Small Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

Piano Performance Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
MUS 11121	THEORY I	4
UC 10001	FLASHES 101	1
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
MUS 11122	THEORY II	4
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
MUS 21111	THEORY III	4
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Four		
MUS 21112	THEORY IV	4
MUS 45311	CHAMBER MUSIC	1
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Five		
MUS 32211	WESTERN MUSIC HISTORY I	3
MUS 34111	INTRODUCTION TO CONDUCTING	1
MUS 42241 or MUS 48250	PIANO LITERATURE or PEDAGOGY OF MUSIC	3
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**15**

Semester Six		
MUS 32212	WESTERN MUSIC HISTORY II (WIC)	3
MUS 38599	RECITAL (ELR)	1
MUS 45321	ACCOMPANYING	2-4
or Music Elective		
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**14**
Semester Seven		
MUS 41341	JAZZ IMPROVISATION I	1
MUS 42241 or MUS 48250	PIANO LITERATURE or PEDAGOGY OF MUSIC	3
MUS 45311	CHAMBER MUSIC	1
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Non-Western and Small Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**14**
Semester Eight		
MUS 45311	CHAMBER MUSIC	1
MUS 45321	ACCOMPANYING	2-4
or Music Elective		
MUS 48599	CAPSTONE RECITAL (ELR)	1
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Non-Western and Small Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

Voice Performance Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
MUS 11121	THEORY I	4
UC 10001	FLASHES 101	1
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
MUS 11122	THEORY II	4
MUS 17111	PIANO CLASS I	1
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
MUS 17013 or MUS 17112	FUNDAMENTALS OF JAZZ PIANO or PIANO CLASS II	1
MUS 21111	THEORY III	4
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
MUS 21112	THEORY IV	4
MUS 45131	KENT STATE OPERA THEATRE WORKSHOP	1
Applied Music Elective (36000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Five		
MUS 32211	WESTERN MUSIC HISTORY I	3
MUS 34111	INTRODUCTION TO CONDUCTING	1
MUS 48250 or MUS 48610	PEDAGOGY OF MUSIC or SINGER'S DICTION	3
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**15**
Semester Six		
MUS 32212	WESTERN MUSIC HISTORY II (WIC)	3
MUS 38599	RECITAL (ELR)	1
MUS 42261	VOCAL LITERATURE	3
or Music Elective		
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**15**
Semester Seven		
MUS 41341	JAZZ IMPROVISATION I	1
MUS 48250 or MUS 48610	PEDAGOGY OF MUSIC or SINGER'S DICTION	3
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Non-Western and Small Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**13**
Semester Eight		
MUS 42261	VOCAL LITERATURE	3
or Music Elective		
MUS 48599	CAPSTONE RECITAL (ELR)	1
Applied Music Elective (46000 level)		4
Large Ensemble Elective		1
Non-Western and Small Ensemble Elective		1

Kent Core Requirement	3
Credit Hours	**13**
Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Work conceptually, aurally and creatively with elements of music such as melody, harmony, form, rhythm and texture.
2. Interpret and perform music from a multitude of diverse musical styles, composers and eras through solo, small group and large group performances.
3. Work independently to prepare performances of the highest level as a performer or composer in their area of specialization.

Program Policies

Dual Degree/Double Major

School of Art

Students are permitted to double major in more than one division of the School of Art or complete more than one concentration in the same division.

1. Students enrolling in more than one major within the school must complete all course requirements in each major. If the two majors represent different degree programs, a minimum of 140 credit hours must be completed.
2. Students enrolling in a double concentration within the B.F.A. program must complete at least 12 upper-division credit hours within each concentration. In addition, all reviews must be passed and a senior project must be completed in each concentration.

A student taking a second major in art history must complete the language requirement. The program requirements for a double major must be approved in advance in writing by either the director or the division coordinator and become a part of the student's permanent file.

The Hugh A. Glauser School of Music

The Bachelor of Music, Bachelor of Arts degree in Music and the Bachelor of Science degree in Music Technology programs can be combined with approval by the faculty and director of the School of Music. In addition, double majors and more than one concentration within a major can be approved by the faculty and director of the School of Music.

Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

School of Music Undergraduate Professional Standards

1. **Ensemble Requirements**
   Ensemble participation is an integral part of every music major's program. All full-time music majors must enroll for credit and participate in an ensemble appropriate to their major performance

area until the number of semesters required in the program are completed. Music minors in the College of the Arts must enroll in a major ensemble for a minimum of two semesters. Transfer music minors must enroll in a major ensemble for a minimum of one semester.

2. **Recital Attendance**
   Required recital attendance is intended to enhance the musical perspective of all music majors and give them exposure to a sampling of various genres and performing media. Transfer students must attend a minimum of 10 recitals per semester. Other undergraduate music majors are required to attend a minimum four-year total of 84 concerts or recitals. Attendance at an average of 10-12 School of Music concerts per semester is recommended. Students will be notified of their status in regard to this policy once per semester. Appropriate information for all students will be sent to the college office prior to graduation. Further information is available in the School of Music office.
3. **Applied Music Requirement for the Bachelor of Music**
   a. **36000-level requirements:** All freshmen enter at the 36000-level of applied study. A minimum of four semesters of enrollment are required in the number of applied credit hours as prescribed by the degree program. A jury is performed at the end of each semester. At entrance, all students are informed of the performance standards necessary to advance to the 46000-level as determined by the faculty of each applied area. Transfer students with a minimum of four semesters of applied study (or equivalent) may enter at the 46000-level as determined by the entrance audition.
   b. **46000-level evaluation:** Students in the Bachelor of Music degree program will be evaluated during juries to determine if they meet the 46000-level entrance standard. The results of the 46000-level entry evaluation are:
      i. **Pass to the 46000-level**.
      ii. **Probation for one semester:** The students will register at the 46000-level and retake the upper-level entrance jury at the end of the probationary semester. If the 46000-level entrance standard is not achieved, the students return to the 36000-level, repeating as needed.
      iii. **Failure to pass the entry-level evaluation:** The students remain at the 36000-level of applied study until the 46000-level entrance standard is met.
   c. **Required accumulation of 46000-level applied credits**
      i. **Performance concentration:** four semesters (16 credit hours)
      ii. **Education majors:** three semesters (6 credit hours)
      iii. **Composition concentration:** must pass the 46000-level entry evaluation prior to graduation.
   d. **46000-level outcome assessment/recital**
      i. **Performance requirement***:* All Bachelor of Music performance degree candidates (piano, voice, instrumental) must perform both a one-half junior and a full senior recital; all other Bachelor of Music majors (composition, music education) must perform a half recital. Students who do not pass the recital must repeat 46000-level lessons until the recital is acceptable. Composition students may fulfill the one-half recital requirement in several ways.
   e. **Applied music requirements for the Bachelor of Arts in Music**
      Students in the Bachelor of Arts in Music program must meet the 46000-level as a graduation requirement and are not required to enroll at the 46000-level. Bachelor of Arts degree candidates are required to perform a half or full senior recital if approved by the faculty while enrolled in applied music or complete MUS 48598.
   f. **Applied music requirements for the B.S. in Music Technology**
      i. Music technology majors are required to complete a total of six semesters (12 credit hours) of Applied Studio Musicianship. A jury is performed at the end of each semester of study.
      ii. Students must meet the Sophomore Proficiency requirement after two semesters and the Senior Proficiency requirement prior to graduation.
4. **Advanced Study Admission Requirements**
   All Bachelor of Music degree majors must fulfill certain requirements to enter appropriate advanced standing for program specific upper-division coursework in the School of Music. These requirements are as follows:
   a. **Performance concentrations:** All students must meet the requirements for admission to 46000-level applied study as stated above.
   b. **Composition concentration:** The composition faculty will evaluate each student's work during the semester in which MUS 21112 is taken to determine if the student should continue to pursue the concentration. A 3.000 GPA is required in music theory classes. A skills test and composition portfolio are required. Specific information may be obtained from the coordinator of theory and composition.
   c. **Music Education concentration:** Music education majors must apply for admission into advanced study in the College of Education, Health, and Human Services prior to junior year. Music education majors must also pass the music education professional evaluation in the music education division limited to two attempts of the entire evaluation. Specific information may be obtained from the coordinator of music education.
5. **Grade Standard**
   Music majors and minors must earn a grade of C or better in all music courses in order to count them toward graduation and meet prerequisites for subsequent courses. Music courses required to meet the Writing-Intensive Course requirement must be passed with a C or better.
6. **Outcomes Assessment**
   Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

To graduate from Kent State University with the B.S. In music technology, students must have successfully completed a music technology Internship through an evaluation by the Music Technology Committee.

Full Description

The Bachelor of Music degree in Music is a performance degree. Students develop the skills and knowledge essential to begin their professional careers.

The Music major comprises the following concentrations:

- The **Composition** concentration provides preparation for graduate study in the field, a credential for private instruction and the ability to compose and use technology in a variety of musical styles.

- The **Instrumental Performance** concentration provides preparation for graduate study in the field; a credential for private instruction; and the ability to perform as a soloist, in chamber music and in large ensembles. This program is available on the following instruments: violin, viola, violoncello, double bass, flute, oboe, clarinet, bassoon, saxophone, trumpet, horn, trombone, euphonium, tuba and percussion.
- The **Piano Performance** concentration provides preparation for graduate study in the field; a credential for private instruction; and the ability to perform as a soloist, as an accompanist, in chamber music and in large ensembles.
- The **Voice Performance** concentration provides preparation for graduate study in the field; a credential for private instruction; and the ability to perform as a soloist, in opera, in chamber music and in large ensembles.

All students have the opportunity to explore non-western and western musical ensembles, chamber music, improvisation, conducting, pedagogy and additional music electives, and demonstrate their acquired skills in two public recitals.

Music - Minor

College of the Arts
School of Music
www.kent.edu/music

About This Program

The Music minor allows students with a passion for music to select the coursework that best aligns with their interests and talents. Students select from a wide variety of courses and ensembles to create an individualized course combination that allows them to explore music performance in solo, chamber, small group and large ensembles; music history and literature; music theory and analysis; jazz; world music; and more.

Contact Information

- **Gerrey Noh** | hnoh@kent.edu
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Students with a solo performance focus are required to do a program/scholarship audition to participate in applied lessons and select ensembles.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements (min C grade required in all courses)		
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
Minor Electives, choose from the following:		6
MUS 11121	THEORY I	
MUS 11122	THEORY II	
MUS 16000	APPLIED MUSIC	
MUS 17013	FUNDAMENTALS OF JAZZ PIANO	
MUS 17111	PIANO CLASS I	
MUS 17112	PIANO CLASS II	
MUS 21113	MUSIC PRODUCTION I	
MUS 21213	CLASS COMPOSITION I	
MUS 22111	UNDERSTANDING WESTERN MUSIC (KFA)	
MUS 22131	SURVEY OF ROCK MUSIC HISTORY (DIVD)	
MUS 34111	INTRODUCTION TO CONDUCTING	
MUS 35213	STUDIO ENSEMBLE [1]	
MUS 41341	JAZZ IMPROVISATION I	
MUS 41351	JAZZ IMPROVISATION II	
MUS 42131	MUSIC OF THE UNITED STATES	
MUS 42161	HISTORY OF JAZZ (DIVD)	
MUS 42162	JAZZ STYLES AND ANALYSIS	
MUS 42181	POPULAR WORLD MUSIC (DIVG)	
MUS 42221	SYMPHONIC LITERATURE	
MUS 42227	WIND BAND LITERATURE	
MUS 42241	PIANO LITERATURE	
MUS 42261	VOCAL LITERATURE	
MUS 42271	CHORAL LITERATURE	
MUS 42291	SEMINAR IN MUSIC HISTORY AND LITERATURE	
MUS 45121	KENT CHORUS [2,3]	
MUS 45131	KENT STATE OPERA THEATRE WORKSHOP [2,3]	
MUS 45141	KENT STATE UNIVERSITY CHORALE [3]	
MUS 45142	CORO CANTARE [2,3]	
MUS 45143	CANTIQUE [2,3]	
MUS 45212	ORCHESTRA [2,3]	
MUS 45221	SYMPHONY BAND [2,3]	
MUS 45222	MARCHING BAND [2]	
MUS 45223	WIND ENSEMBLE [2,3]	
MUS 45224	FLASHER BRASS [2]	
MUS 45225	UNIVERSITY BAND [2]	
MUS 45231	JAZZ ENSEMBLE [2]	
MUS 45251	PERCUSSION ENSEMBLE	
MUS 45301	AFRICAN ENSEMBLE (DIVG) [2]	
MUS 45302	CARIBBEAN STEELBAND (DIVG) [2]	
MUS 45311	CHAMBER MUSIC	
MUS 45312	JAZZ COMBO DEVELOPMENT [2]	
MUS 45313	NOVA JAZZ SINGERS [2]	
MUS 45315	ASIAN MUSIC ENSEMBLE (DIVG)	
MUS 48610	SINGER'S DICTION	

Minor Upper-Division Electives, choose from the following:		6
MUS 34111	INTRODUCTION TO CONDUCTING	
MUS 35213	STUDIO ENSEMBLE [1]	
MUS 41341	JAZZ IMPROVISATION I	
MUS 41351	JAZZ IMPROVISATION II	
MUS 42131	MUSIC OF THE UNITED STATES	
MUS 42161	HISTORY OF JAZZ (DIVD)	
MUS 42162	JAZZ STYLES AND ANALYSIS	
MUS 42181	POPULAR WORLD MUSIC (DIVG)	
MUS 42221	SYMPHONIC LITERATURE	
MUS 42227	WIND BAND LITERATURE	
MUS 42241	PIANO LITERATURE	
MUS 42261	VOCAL LITERATURE	
MUS 42271	CHORAL LITERATURE	
MUS 42291	SEMINAR IN MUSIC HISTORY AND LITERATURE	
MUS 45121	KENT CHORUS [2,3]	
MUS 45131	KENT STATE OPERA THEATRE WORKSHOP [2,3]	
MUS 45141	KENT STATE UNIVERSITY CHORALE [3]	
MUS 45142	CORO CANTARE [2,3]	
MUS 45143	CANTIQUE [2,3]	
MUS 45212	ORCHESTRA [2,3]	
MUS 45221	SYMPHONY BAND [2,3]	
MUS 45222	MARCHING BAND [2]	
MUS 45223	WIND ENSEMBLE [2,3]	
MUS 45224	FLASHER BRASS [2]	
MUS 45225	UNIVERSITY BAND [2]	
MUS 45231	JAZZ ENSEMBLE [2]	
MUS 45251	PERCUSSION ENSEMBLE	
MUS 45301	AFRICAN ENSEMBLE (DIVG) [2]	
MUS 45302	CARIBBEAN STEELBAND (DIVG) [2]	
MUS 45311	CHAMBER MUSIC	
MUS 45312	JAZZ COMBO DEVELOPMENT [2]	
MUS 45313	NOVA JAZZ SINGERS [2]	
MUS 45315	ASIAN MUSIC ENSEMBLE (DIVG)	
MUS 48610	SINGER'S DICTION	
Minimum Total Credit Hours:		**15**

1 Course is only offered at the Stark campus.
2 Repeatable for up to eight semesters.
3 An audition is required.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- A minimum C grade is required for all minor courses.
- Transfer students must complete a minimum 11 credit hours of music (MUS) courses at Kent State University, including one semester of applied music and one semester of a major ensemble.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Perform from a variety of musical styles, composers and eras based on their area of musical interest.
2. Analyze music from a variety of musical styles, composers and eras based on their area of musical interest.
3. Create music from a variety of musical styles, composers and eras based on their area of musical interest.

Music Education - B.M.

College of the Arts
School of Music
www.kent.edu/music

About This Program

Inspire the next generation of musicians with the Music Education B.M. program. Learn how to become a skilled music educator and empower your students to unleash their musical potential. Read more...

Contact Information

- **Jay Dorfman** | jdorfma2@kent.edu | 330-672-3871
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/ technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

The B.M. degree in Music Education is approved by the National Association of Schools of Music (NASM).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this major is selective. Students are required to do a program/scholarship audition. Information regarding audition days and requirements can be found on the school website, and inquiries can be sent to musicadmission@kent.edu.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) (min C grade required in all courses)		
MUS 11121	THEORY I [1]	4
MUS 11122	THEORY II [1]	4
MUS 17111	PIANO CLASS I [2]	1
MUS 17112	PIANO CLASS II	1
MUS 17512	WIND TECHNIQUES I	1
MUS 21111	THEORY III	4
MUS 21112	THEORY IV	4
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA) (music major section)	3
MUS 23241	MUSIC TEACHING AS A PROFESSION [3]	2
MUS 27512	WIND TECHNIQUES II	1
MUS 27513	PERCUSSION TECHNIQUES [4]	1
MUS 32211	WESTERN MUSIC HISTORY I	3
MUS 32212	WESTERN MUSIC HISTORY II (WIC) [5]	3
MUS 33214	MUSIC EDUCATION TECHNOLOGY TECHNIQUES	1
MUS 33314	PROGRESSIVE AND VERNACULAR MUSIC METHODS [4,6]	2
MUS 33315	GENERAL MUSIC METHODS [3,6]	2
MUS 33316	CHORAL MUSIC METHODS [3,6]	2
MUS 34111	INTRODUCTION TO CONDUCTING	1
MUS 34121	CONDUCTING AND LEADERSHIP IN SCHOOLS	1
MUS 37512	STRING TECHNIQUES	1
MUS 37514	VOICE TECHNIQUES	1
or MUS 43241	MARCHING BAND TECHNIQUES AND LITERATURE	
MUS 42392	STUDENT TEACHING (ELR) [6]	9
MUS 43245	JAZZ ENSEMBLE TECHNIQUES AND LITERATURE	1
MUS 44210	INSTRUMENTAL MUSIC METHODS [3,6]	2
MUS 45222	MARCHING BAND	1
MUS 49525	SEMINAR FOR STUDENT TEACHING (ELR) [3,6]	3
Applied Music Electives (MUS 36000 level) [7]		8
Applied Music Electives (MUS 46000 level) [7]		6
Large Ensemble Electives, choose from the following:		6
MUS 45141	KENT STATE UNIVERSITY CHORALE	
MUS 45142	CORO CANTARE	
MUS 45143	CANTIQUE	
MUS 45212	ORCHESTRA	
MUS 45221	SYMPHONY BAND	
MUS 45223	WIND ENSEMBLE	
Large Ensemble or Jazz Ensemble Elective, choose from the following:		1
MUS 45141	KENT STATE UNIVERSITY CHORALE	
MUS 45142	CORO CANTARE	
MUS 45143	CANTIQUE	
MUS 45212	ORCHESTRA	
MUS 45221	SYMPHONY BAND	
MUS 45223	WIND ENSEMBLE	
MUS 45231	JAZZ ENSEMBLE	
MUS 45313	NOVA JAZZ SINGERS	
Non-Western and Other Ensemble Elective, choose from the following: [8]		1
MUS 45121	KENT CHORUS	
MUS 45131	KENT STATE OPERA THEATRE WORKSHOP	
MUS 45151	KENT STATE UNIVERSITY GOSPEL CHOIR	
MUS 45224	FLASHER BRASS	
MUS 45225	UNIVERSITY BAND	
MUS 45251	PERCUSSION ENSEMBLE	
MUS 45271	NEW MUSIC ENSEMBLE	
MUS 45301	AFRICAN ENSEMBLE (DIVG)	
MUS 45302	CARIBBEAN STEELBAND (DIVG)	
MUS 45312	JAZZ COMBO DEVELOPMENT	
MUS 45313	NOVA JAZZ SINGERS	
MUS 45315	ASIAN MUSIC ENSEMBLE (DIVG)	
Additional Requirements (courses do not count in major GPA)		
CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD [6]	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
or PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10001	FLASHES 101	1

Kent Core Composition (min C grade)	6
Kent Core Mathematics and Critical Reasoning	3
Kent Core Humanities and Fine Arts (minimum one course from each)	3
Kent Core Social Sciences (must be from two disciplines)	3
Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Additional	6
Minimum Total Credit Hours:	**127**

1 Music Theory Placement Test score of 02 is required.
2 Students who pass the placement exam will replace MUS 17111 with a 1-credit hour music (MUS) elective.
3 Includes 20 field hours.
4 Includes 10 field hours.
5 A minimum C grade must be earned to fulfill the writing-intensive requirement.
6 Course requires admission to advanced study through the College of Education, Health and Human Services (EHHS).
7 B.M. in Music Education students are restricted to taking 2-credit hour applied music sections, which include a 60-minute group practice and 60-minute private lesson. Course selection is based on instrument of acceptance into the Music Education major. The 46000-level may be taken following the 36000-level Applied Music Proficiency Threshold evaluation, which takes place during the fourth semester final jury exam.
8 Wind, brass and percussion primaries may substitute this requirement with MUS 45222.

Progression Requirements

Students must meet all professional requirements to be admitted to advanced study and enroll in upper-division coursework:

- Minimum 2.750 major GPA and 2.500 overall GPA
- Students are required to pass the Music Education Professional Evaluation (MEPE), and pass all sections and be admitted to advanced study through the College of Education, Health and Human Services in order to continue in the Music Education major with CI 47330, MUS 33314, MUS 33315, MUS 33316, MUS 42392, MUS 44210 and MUS 49525. Information about the MEPE is distributed by the coordinator of music education.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.750	2.500

- Minimum C grade required in all music (MUS) courses
- Minimum 3.000 GPA required in MUS 11121, MUS 11122, MUS 21111 and MUS 21112
- Attendance at minimum eight concerts or recitals during semesters of applied music registration
- Completion of one-half senior recital, which may not be performed during the student teaching period, and registration in applied music courses (46000 level) during a degree recital semester
- MUS 11110, MUS 11111, MUS 16914 and MUS 16915 will not count as credit for graduation in this program

Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See the Ohio Department of Education-Educator Preparation website for more information about assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged, but not required.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MUS 11121	THEORY I	4
MUS 23241	MUSIC TEACHING AS A PROFESSION	2
MUS 45222	MARCHING BAND	1
UC 10001	FLASHES 101	1
Applied Music Elective (MUS 36000 level)		2
Large Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**17**
Semester Two		
MUS 11122	THEORY II	4
MUS 17111	PIANO CLASS I	1
MUS 17512	WIND TECHNIQUES I	1
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
Applied Music Elective (MUS 36000 level)		2
Large Ensemble Elective		1
Non-Western and Other Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
MUS 17112	PIANO CLASS II	1
MUS 21111	THEORY III	4
MUS 27513	PERCUSSION TECHNIQUES	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Applied Music Elective (MUS 36000 level)		2
Large Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**18**
Semester Four		
EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
MUS 21112	THEORY IV	4
MUS 27512	WIND TECHNIQUES II	1
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Applied Music Elective (MUS 36000 level)		2
Large Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**17**
Semester Five		
MUS 32211	WESTERN MUSIC HISTORY I	3
MUS 33315	GENERAL MUSIC METHODS	2
MUS 34111	INTRODUCTION TO CONDUCTING	1
MUS 37512	STRING TECHNIQUES	1
Applied Music Elective (MUS 46000 level)		2
Large Ensemble Elective		1
Kent Core Requirement		3

Kent Core Requirement		3
	Credit Hours	**16**
Semester Six		
MUS 32212	WESTERN MUSIC HISTORY II (WIC)	3
MUS 33214	MUSIC EDUCATION TECHNOLOGY TECHNIQUES	1
MUS 33316	CHORAL MUSIC METHODS	2
MUS 34121	CONDUCTING AND LEADERSHIP IN SCHOOLS	1
MUS 43245	JAZZ ENSEMBLE TECHNIQUES AND LITERATURE	1
PHIL 11001 or PHIL 21001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) or INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
Applied Music Elective (MUS 46000 level)		2
Large Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**17**
Semester Seven		
CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD	3
MUS 33314	PROGRESSIVE AND VERNACULAR MUSIC METHODS	2
MUS 37514 or MUS 43241	VOICE TECHNIQUES or MARCHING BAND TECHNIQUES AND LITERATURE	1
MUS 44210	INSTRUMENTAL MUSIC METHODS	2
Applied Music Elective (MUS 46000 level)		2
Large Ensemble or Jazz Ensemble Elective		1
Kent Core Requirement		3
	Credit Hours	**14**
Semester Eight		
MUS 42392	STUDENT TEACHING (ELR)	9
MUS 49525	SEMINAR FOR STUDENT TEACHING (ELR)	3
	Credit Hours	**12**
	Minimum Total Credit Hours:	**127**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Plan and implement instruction in a variety of music pedagogy settings that is rooted in musical development and equity for all students.
2. Demonstrate broad knowledge and skills with music theory, music history and musicianship.
3. Acquire music K-12 licensure in the state of Ohio by successfully completing all requirements in music and general education.

Program Policies

Dual Degree/Double Major

School of Art

Students are permitted to double major in more than one division of the School of Art or complete more than one concentration in the same division.

1. Students enrolling in more than one major within the school must complete all course requirements in each major. If the two majors represent different degree programs, a minimum of 140 credit hours must be completed.
2. Students enrolling in a double concentration within the B.F.A. program must complete at least 12 upper-division credit hours within each concentration. In addition, all reviews must be passed and a senior project must be completed in each concentration.

A student taking a second major in art history must complete the language requirement. The program requirements for a double major must be approved in advance in writing by either the director or the division coordinator and become a part of the student's permanent file.

The Hugh A. Glauser School of Music

The Bachelor of Music, Bachelor of Arts degree in Music and the Bachelor of Science degree in Music Technology programs can be combined with approval by the faculty and director of the School of Music. In addition, double majors and more than one concentration within a major can be approved by the faculty and director of the School of Music.

Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

Requirements for Admission to Advanced Study for Art Education and Music Education

Admission to advanced study is required of all art education and music education majors and minors prior to enrolling in upper-division education courses. Upon completion of coursework, as determined by program area, students should have satisfied the prerequisites for admission to advanced study. Students must submit an application for advanced study by the second Friday of the term during which all prerequisites for advanced study will be completed, and at least one semester prior to beginning any coursework for which "Admission to Advanced Study" is a prerequisite. Students at the Kent Campus apply for Advanced Study through the College of Education, Health and Human Services Student Portal, which can be accessed through the Vacca Office of Student Services web page. Students completing a licensure program at a regional campus should check with that campus for instructions on how to apply for "Advanced Study." Please note: Admission to advanced study is required for students pursuing an undergraduate major that leads to teacher licensure. Please be aware that reapplication may be necessary if postponing advanced study coursework or if withdrawn for one year or more.

Requirements for Admission to Advanced Study for Art Education and Music Education

- College Writing: Students are required to attain a minimum C grade in each writing courses (ENG 11011 and ENG 21011 or equivalent).
- Pre-Advanced Study Coursework: To be eligible for advanced study, students must earn a minimum C grade in CULT 29535 and a minimum C grade in one of the following courses (please note that a minimum C grade must be earned in all of the four courses for teacher licensure programs):
  - EPSY 29525
  - SPED 23000
- Grade Point Average:
  - Art Education majors must have earned a minimum 2.500 cumulative GPA in order to be admitted to Advanced Study.
  - Music Education majors must have earned a minimum 2.500 cumulative GPA and a minimum 2.750 major GPA at the time of application in order to be admitted to Advanced Study.
- Disposition Assessment/Professional Disposition Plans (PDPs): Students are required to have completed all professional dispositions plan (PDPs) at the time of application to be eligible for advanced study.
- Advising Appointment: Art Education and Music Education students should make an advising appointment with a professional advisor in the Vacca Office of Student Services (or Regional Campus advising office if completing the program at that campus) for information about applying for Advanced Study and educator licensure. Advising appointments at the Kent Campus are made through the Vacca Office of Student Services' website at www.kent.edu/ehhs/services/voss.
- Teacher Candidate Acknowledgments and Legal Questions for Licensure: Candidates are required to electronically sign four statements acknowledging that they have read and understand the following areas: background check requirements; professional dispositions; licensure application information; legal questions asked on the licensure application. Statements can be found on the student portal.

School of Music Undergraduate Professional Standards

1. **Ensemble Requirements**
   Ensemble participation is an integral part of every music major's program. All full-time music majors must enroll for credit and participate in an ensemble appropriate to their major performance area until the number of semesters required in the program are completed. Music minors in the College of the Arts must enroll in a major ensemble for a minimum of two semesters. Transfer music minors must enroll in a major ensemble for a minimum of one semester.
2. **Recital Attendance**
   Required recital attendance is intended to enhance the musical perspective of all music majors and give them exposure to a sampling of various genres and performing media. Transfer students must attend a minimum of 10 recitals per semester. Other undergraduate music majors are required to attend a minimum four-year total of 84 concerts or recitals. Attendance at an average of 10-12 School of Music concerts per semester is recommended. Students will be notified of their status in regard to this policy once per semester. Appropriate information for all students will be sent to the college office prior to graduation. Further information is available in the School of Music office.
3. **Applied Music Requirement for the Bachelor of Music**
   a. **36000-level requirements:** All freshmen enter at the 36000-level of applied study. A minimum of four semesters of enrollment are required in the number of applied credit hours as prescribed by the degree program. A jury is performed at the end of each semester. At entrance, all students are informed of the performance standards necessary to advance to the 46000-level as determined by the faculty of each applied area. Transfer students with a minimum of four semesters of applied study (or equivalent) may enter at the 46000-level as determined by the entrance audition.

b. **46000-level evaluation:** Students in the Bachelor of Music degree program will be evaluated during juries to determine if they meet the 46000-level entrance standard. The results of the 46000-level entry evaluation are:
   i. **Pass to the 46000-level**.
   ii. **Probation for one semester:** The students will register at the 46000-level and retake the upper-level entrance jury at the end of the probationary semester. If the 46000-level entrance standard is not achieved, the students return to the 36000-level, repeating as needed.
   iii. **Failure to pass the entry-level evaluation:** The students remain at the 36000-level of applied study until the 46000-level entrance standard is met.

c. **Required accumulation of 46000-level applied credits**
   i. **Performance concentration:** four semesters (16 credit hours)
   ii. **Education majors:** three semesters (6 credit hours)
   iii. **Composition concentration:** must pass the 46000-level entry evaluation prior to graduation.

d. **46000-level outcome assessment/recital**
   i. **Performance requirement***:* All Bachelor of Music performance degree candidates (piano, voice, instrumental) must perform both a one-half junior and a full senior recital; all other Bachelor of Music majors (composition, music education) must perform a half recital. Students who do not pass the recital must repeat 46000-level lessons until the recital is acceptable. Composition students may fulfill the one-half recital requirement in several ways.

e. **Applied music requirements for the Bachelor of Arts in Music**
   Students in the Bachelor of Arts in Music program must meet the 46000-level as a graduation requirement and are not required to enroll at the 46000-level. Bachelor of Arts degree candidates are required to perform a half or full senior recital if approved by the faculty while enrolled in applied music or complete MUS 48598.

f. **Applied music requirements for the B.S. in Music Technology**
   i. Music technology majors are required to complete a total of six semesters (12 credit hours) of Applied Studio Musicianship. A jury is performed at the end of each semester of study.
   ii. Students must meet the Sophomore Proficiency requirement after two semesters and the Senior Proficiency requirement prior to graduation.

4. **Advanced Study Admission Requirements**
   All Bachelor of Music degree majors must fulfill certain requirements to enter appropriate advanced standing for program specific upper-division coursework in the School of Music. These requirements are as follows:
   a. **Performance concentrations:** All students must meet the requirements for admission to 46000-level applied study as stated above.
   b. **Composition concentration:** The composition faculty will evaluate each student's work during the semester in which MUS 21112 is taken to determine if the student should continue to pursue the concentration. A 3.000 GPA is required in music theory classes. A skills test and composition portfolio are required. Specific information may be obtained from the coordinator of theory and composition.
   c. **Music Education concentration:** Music education majors must apply for admission into advanced study in the College of Education, Health, and Human Services prior to junior year. Music education majors must also pass the music education professional evaluation in the music education division limited to two attempts of the entire evaluation. Specific information may be obtained from the coordinator of music education.
5. **Grade Standard**
   Music majors and minors must earn a grade of C or better in all music courses in order to count them toward graduation and meet prerequisites for subsequent courses. Music courses required to meet the Writing-Intensive Course requirement must be passed with a C or better.
6. **Outcomes Assessment**
   Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

To graduate from Kent State University with the B.S. In music technology, students must have successfully completed a music technology Internship through an evaluation by the Music Technology Committee.

Full Description

The Bachelor of Music degree in Music Education prepares students to teach grades K-12. Students develop teaching and learning skills; gain experience in conducting, instrumental and choral techniques and methods, jazz, folk and rock; and have the opportunity to explore world music and develop their individual musicianship through private lessons, recitals and small and large ensemble performance.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.

Music Education - M.M.

College of the Arts
School of Music
www.kent.edu/music

About This Program

The Master of Music degree in Music Education is designed to offer teachers of choral, instrumental and general music the opportunity to develop and refine their professional skills. The degree program allows for enhancement and specialization relative to music teaching and learning in contemporary school contexts. The program is not intended to provide licensure and is constructed for those who have a music education background with the desire to improve the student and teacher experience in music classroom settings.

Contact Information

- **Jennelizabeth Sepúlveda** | jbice@kent.edu | 330-672-2418

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - Fully online

Examples of Possible Careers and Salaries*

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

National Association of Schools of Music; National Council for Accreditation of Teacher Education

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree in music education from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Current and valid state teaching license earned from an accredited U.S. university program
- One year of full-time teaching completed before beginning coursework
- Résumé
- Goal Statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
MUS 52131	MUSIC OF THE UNITED STATES	3
MUS 61170	MUSIC ANALYSIS	3
MUS 62171	MUSIC FROM WORLD CULTURES	3
MUS 63241	INQUIRY IN MUSIC TEACHING I	3
MUS 63242	INQUIRY IN MUSIC TEACHING AND LEARNING II	3
MUS 67243	TECHNOLOGY FOR MUSIC TEACHING	3
MUS 63274	FOUNDATIONS OF MUSIC EDUCATION	3
Pedagogy Specialization Electives, choose from the following:		6
MUS 63261	ADVANCED STUDIES IN TEACHING CHORAL MUSIC	
MUS 63262	ADVANCED STUDIES IN TEACHING INSTRUMENTAL MUSIC	
MUS 63263	ADVANCED STUDIES IN TEACHING GENERAL MUSIC	
Culminating Requirement		
MUS 63099	CAPSTONE PROJECT [1]	4
Minimum Total Credit Hours:		**31**

[1] With the capstone project, students complete a 12-week, individual research investigation comparable to a master's thesis. Under the supervision of a capstone advisor, students synthesize knowledge through the development of a curricular project applicable to the student's specific area of teaching. A prescribed description outlines requirements, goals, objectives, procedures and assessment. Activities include student reading-research-writing, preparation of a project outline and drafts, regular interaction with a research mentor and evaluation of conclusions for the final submission. The project's goal is to support students to critically analyze and improve their own music teaching and learning skills in classroom settings. The project is

reviewed and evaluated by a graduate committee of music education faculty.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Develop and apply knowledge of foundational principles of music education (history, philosophy, sociology, psychology); research methods and practices; music technology; methods of music education in instrumental, choral and general music contexts; western music theory and history; and world music.
2. Exhibit scholarly writing skills focusing on comprehensive knowledge of research methodology.
3. Demonstrate reading, research, writing and critical-thinking skills related to contemporary music education contexts.

School of Music Graduate Study

Program Requirements

Each student will be accepted as a major in a specific curricular area. It may be necessary for the student to complete Kent State University requirements for the appropriate undergraduate degree. Students' academic requirements are based on the catalog in effect during their first semester at Kent State University. Students may elect to complete their degrees under the most recent catalog, but must comply with all the new requirements relevant to their program under the new catalog.

Master's Thesis, Essay, Recital and Final Oral Examination

All Master of Music degree candidates in Performance must perform two recitals or one recital and write an essay depending on their specific degree requirements. Final oral examinations are required for all masters programs. The final oral examination may be attempted two times.

Research Tool Requirement

Candidates for the Master of Arts degree in Ethnomusicology must demonstrate a reading and understanding knowledge of one foreign language. Credit hours earned in meeting this requirement are not applied toward the credit hour requirement for the program.

For Ph.D. degree candidates in Music Theory - Composition, this requirement may be either a reading translating knowledge of one foreign language or demonstrated competence in an area of research specified by the doctoral advisory committee and approved by the Graduate Studies Committee. Credit hours earned in meeting this requirement are not applied toward the credit hour requirement for the program. For Ph.D. degree candidates in Music Education, this requirement is MUS 73283 and related research methods courses in the College of Education, Health and Human Services. These courses are applied toward the credit hour requirement for the program.

Ph.D. Candidacy Exams, Dissertation and Dissertation Defense

Doctoral candidates will take a comprehensive examination upon completion of their coursework and research tool requirement. This candidacy exam normally takes place within four years of beginning coursework. All doctoral candidates write and defend a dissertation via a final oral examination. The dissertation phase normally is completed within five years of passing the candidacy exams.

Time Limits

Master of Arts and Master of Music degree candidates must complete their degree within six calendar years after their first graduate registration at Kent State University. Any credit transferred for meeting degree requirements must also have been earned within the six-year period.

Ph.D. degree candidates must complete their degree within nine calendar years after their first doctoral registration at Kent State University. Any credit transferred for meeting degree requirements must also have been earned within the nine-year period.

Workshop Credit

A maximum 4 credit hours of workshop credit may be applied toward certain graduate degrees. The credit hours must pertain to the degree emphasis. Only workshop credits earned with a B grade or higher may be transferred into a program.

Music Education - Ph.D.

College of the Arts
School of Music
www.kent.edu/music/

About This Program

Embark on a transformative journey in music education with our Ph.D. degree. Dive deep into innovative research, refine your teaching methodologies and become a trailblazer in the field. Join us at Kent State University and shape the future of music educators.

Contact Information

- **Jay Dorfman** | jdorfma2@kent.edu | 330-672-3871
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Education teachers, postsecondary

- 4.8% about as fast as the average
- 77,300 number of jobs
- $65,440 potential earnings

Middle school teachers, except special and career/technical education

- 3.6% about as fast as the average
- 627,100 number of jobs
- $60,810 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- $62,870 potential earnings

Accreditation

National Association of Schools of Music (NASM) and Council for the Accreditation of Educator Preparation (CAEP)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Master's degree from an accredited college or university
- Bachelor's or master's degree in music education
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Current and valid state teaching license earned from an accredited U.S. university program
- Minimum three years of successful teaching experience at elementary and/or secondary levels
- Video/DVD sample of school music teaching
- Résumé or curriculum vitae of professional musical and teaching work
- Goal statement
- Scholarly writing sample of related discipline
- Three letters of reference (professional and pedagogical)
- Interview with music education faculty (via voice, video or personal campus visit)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CI 77001	FUNDAMENTALS OF CURRICULUM	3
CI 87000	THEORY AND RESEARCH IN TEACHING	3
MUS 73261	ADVANCED STUDIES IN SECONDARY CHORAL AND GENERAL MUSIC	3
or MUS 73262	ADVANCED STUDIES IN INSTRUMENTAL MUSIC	
or MUS 73263	ADVANCED STUDIES IN GENERAL MUSIC FOR CHILDREN	
MUS 73283	RESEARCH IN MUSIC EDUCATION	3
MUS 86001	SEMINAR IN MUSIC EDUCATION I	3
MUS 86002	SEMINAR IN MUSIC EDUCATION II	3
RMS 75510	STATISTICS I FOR EDUCATIONAL SERVICES	3
RMS 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	3
or RMS 85516	QUALITATIVE RESEARCH DESIGN	
Musical Literacy Electives [1]		6
Music Education Electives, choose from the following:		12
MUS 73272	LEARNING THEORIES IN MUSIC	
MUS 73273	PSYCHOLOGY OF MUSIC	
MUS 73274	FOUNDATIONS OF MUSIC EDUCATION	
MUS 73284	HISTORY OF MUSIC EDUCATION	
MUS 73285	PHILOSOPHY OF MUSIC EDUCATION	
MUS 73286	SOCIOLOGY OF MUSIC EDUCATION	
MUS 73295	SPECIAL TOPICS IN MUSIC EDUCATION	
Curriculum and Instruction Elective, choose from the following:		3
CI 71130	MULTICULTURAL EDUCATION: STRATEGIES	
CI 77002	CURRICULUM LEADERSHIP	
CI 77003	TEACHER EDUCATION	
CI 77004	PROFESSIONAL DEVELOPMENT IN TEACHING	
CI 77010	CURRICULUM EVALUATION	
CI 87000	THEORY AND RESEARCH IN TEACHING	
CI 87001	THEORY AND RESEARCH IN CURRICULUM	

CI 87002	FORMS OF INQUIRY IN CURRICULUM AND INSTRUCTION	
Culminating Requirement		
MUS 88199	DISSERTATION I [2]	30
Minimum Total Credit Hours:		**75**

[1] Students may be required to take courses in music theory, which will be applied toward the Musical Literacy requirement of the degree. Requirements will be determined based on the results of a diagnostic exam as stated in the Music Graduate Handbook. Remaining Musical Literacy credit hours are fulfilled by taking courses in music theory, music history, ethnomusicology, composition, conducting, music performance or other related topics of student interest as approved by the academic advisor.

[2] Upon successful completion of the candidacy examination, students take a dissertation topic from the proposal stage through approval, writing, submission and an oral defense process with a faculty committee comprised of the music education advisor, one additional music education faculty member, one representative from music education or education, a member from another music discipline area or education and an appointed graduate faculty representative. Each doctoral candidate, upon admission to candidacy, must register for MUS 88199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter MUS 88299, each semester, until all requirements for the degree have been met.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Residency Requirements

Student must complete a residency requirement of minimum 9 credit hours each year until qualifying exams.

Candidacy Requirements

For the Ph.D. a comprehensive, qualifying, candidacy examination is taken when the student has substantially completed his/her coursework and has received the consent of the advisor committee to attempt the examination. The examination includes an extensive written section consisting of proctored and non-proctored questions, and an oral section taken before a faculty committee. Material for both written and oral sections is drawn from the coursework taken during the degree program, current professional research literature, and current topics in music education. Students who fail the candidacy examination two times will be dismissed from the doctoral program.

Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate knowledge of music education research and practice relative to primary, secondary, undergraduate, masters and doctoral levels through writing and oral communication.
2. Engage in research activities appropriate to doctoral and professional level practice in music education.
3. Demonstrate active involvement at local, national and global levels through diverse professional activities, including but not limited to scholarly publications and presentations, collaborative research and engagement with other scholars in order to share knowledge in music and related fields.
4. Communicate a comprehensive and sophisticated knowledge of music education through the lens of history, philosophy, psychology, sociology, research methodologies, advanced pedagogy, learning theories and methods of curricular structure.
5. Demonstrate reading, research, writing and critical-thinking skills related to contemporary music education contexts.

School of Music Graduate Study

Program Requirements

Each student will be accepted as a major in a specific curricular area. It may be necessary for the student to complete Kent State University requirements for the appropriate undergraduate degree. Students' academic requirements are based on the catalog in effect during their first semester at Kent State University. Students may elect to complete their degrees under the most recent catalog, but must comply with all the new requirements relevant to their program under the new catalog.

Master's Thesis, Essay, Recital and Final Oral Examination

All Master of Music degree candidates in Performance must perform two recitals or one recital and write an essay depending on their specific degree requirements. Final oral examinations are required for all masters programs. The final oral examination may be attempted two times.

Research Tool Requirement

Candidates for the Master of Arts degree in Ethnomusicology must demonstrate a reading and understanding knowledge of one foreign language. Credit hours earned in meeting this requirement are not applied toward the credit hour requirement for the program.

For Ph.D. degree candidates in Music Theory - Composition, this requirement may be either a reading translating knowledge of one foreign language or demonstrated competence in an area of research specified by the doctoral advisory committee and approved by the Graduate Studies Committee. Credit hours earned in meeting this requirement are not applied toward the credit hour requirement for the program. For Ph.D. degree candidates in Music Education, this requirement is MUS 73283 and related research methods courses in the College of Education, Health and Human Services. These courses are applied toward the credit hour requirement for the program.

Ph.D. Candidacy Exams, Dissertation and Dissertation Defense

Doctoral candidates will take a comprehensive examination upon completion of their coursework and research tool requirement. This candidacy exam normally takes place within four years of beginning coursework. All doctoral candidates write and defend a dissertation via a final oral examination. The dissertation phase normally is completed within five years of passing the candidacy exams.

Time Limits

Master of Arts and Master of Music degree candidates must complete their degree within six calendar years after their first graduate registration at Kent State University. Any credit transferred for meeting degree requirements must also have been earned within the six-year period.

Ph.D. degree candidates must complete their degree within nine calendar years after their first doctoral registration at Kent State University. Any

credit transferred for meeting degree requirements must also have been earned within the nine-year period.

Workshop Credit

A maximum 4 credit hours of workshop credit may be applied toward certain graduate degrees. The credit hours must pertain to the degree emphasis. Only workshop credits earned with a B grade or higher may be transferred into a program.

Full Description

The Ph.D. degree in Music Education integrates teaching, theory and research in inquiry about music teaching and learning. Through a collaboration with Kent State's College of Education, Health and Human Services, the degree program allows for emerging scholars to engage in coursework and research in areas connecting musical and educational pedagogies. Students pursuing the Ph.D. degree are interested in preparing music teacher educators at institutions of higher learning; engaging in arts education activities; and exploring emerging practices in curriculum, artistic instruction and educational thought.

Music Technology - B.S.

College of the Arts
School of Music
www.kent.edu/music

About This Program

Explore the intersection of music and technology and master the tools shaping today's music industry with the Music Technology B.S. program. Specialize in audio recording, music production or performance while gaining hands-on experience in recording, engineering and digital music creation. Whether you are producing, performing or composing, this program equips you with the skills to thrive in studios, live events, film, TV and beyond. Read more...

Contact Information

- **Michelle Bagwell, Ph.D.** | dbagwel1@kent.edu | 330-244-3358
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Stark Campus

Examples of Possible Careers and Salaries*

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Music directors and composers

- 1.7% slower than the average
- 58,000 number of jobs
- $52,250 potential earnings

Sound engineering technicians

- 6.0% faster than the average
- 15,800 number of jobs
- $53,520 potential earnings

Accreditation

The B.S. degree in Music Technology is approved by the National Association of Schools of Music.

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this major is selective. To be admitted to the Music Technology major, students audition their primary instrument and/or with a portfolio and complete theory and keyboard placement tests.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA) (min C grade required in all courses)		
MUS 11121	THEORY I	4
MUS 11122	THEORY II	4
MUS 21113	MUSIC PRODUCTION I	3
MUS 21114	MUSIC PRODUCTION II	3
MUS 21221	AUDIO RECORDING I	3
MUS 21222	AUDIO RECORDING II	3
MUS 21341	CONTEMPORARY POPULAR MUSIC THEORY	3
MUS 22111	UNDERSTANDING WESTERN MUSIC (KFA)	3
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
MUS 32211	WESTERN MUSIC HISTORY I	3
or MUS 42131	MUSIC OF THE UNITED STATES	
or MUS 42161	HISTORY OF JAZZ (DIVD)	
MUS 32230	NAVIGATING THE MUSIC INDUSTRY	3
MUS 40092	MUSIC TECHNOLOGY INTERNSHIP (ELR)	2

MUS 42165	HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC) [1]	3
Music (MUS) Elective		3
Major Ensemble, choose from the following: [2]		8
MUS 45141	KENT STATE UNIVERSITY CHORALE	
MUS 45142	CORO CANTARE	
MUS 45143	CANTIQUE	
MUS 45212	ORCHESTRA	
MUS 45221	SYMPHONY BAND	
MUS 45223	WIND ENSEMBLE	
Applied Studio Musicianship, choose from the following: [3]		8
MUS 36913	APPLIED STUDIO MUSICIANSHIP [4]	
MUS 36914	ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP	
MUS 36915	ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP	
MUS 36916	DRUM SET PERCUSSION APPLIED STUDIO MUSICIANSHIP	
MUS 36917	KEYBOARD APPLIED STUDIO MUSICIANSHIP	
MUS 36918	CONTEMPORARY VOICE APPLIED STUDIO MUSICIANSHIP	
MUS 36919	FLUTE APPLIED STUDIO MUSICIANSHIP	
MUS 36920	CLARINET APPLIED STUDIO MUSICIANSHIP	
MUS 36921	SAXOPHONE APPLIED STUDIO MUSICIANSHIP	
MUS 36922	TRUMPET APPLIED STUDIO MUSICIANSHIP	
MUS 36923	HORN APPLIED STUDIO MUSICIANSHIP	
MUS 36924	TROMBONE APPLIED STUDIO MUSICIANSHIP	
Piano Class or Applied Music Piano, choose from the following: [5]		2
MUS 17111	PIANO CLASS I	
MUS 17112	PIANO CLASS II	
MUS 27111	PIANO CLASS III	
MUS 27112	PIANO CLASS IV	
Additional Requirements (courses do not count in major GPA)		
BUS 10123	EXPLORING BUSINESS	3
or ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
or MGMT 24163	PRINCIPLES OF MANAGEMENT	
CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	4
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Elective (total credit hours depends on earning 120 credits hour, including 39 upper-division credit hours)		1
Concentrations		**23**
Choose from the following:		
Audio Recording		
Music Production		
Performance		
Minimum Total Credit Hours:		**120**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

2 Major ensemble (eight separate semesters): All music technology majors must enroll in an ensemble appropriate to their major performance area. Two credit hours must be taken in major ensemble. Major ensemble credit can be earned for MUS 25011 and MUS 25225, as approved by faculty. Students may choose to complete the remaining 6 credit hours with MUS 35213, or 4 credit hours with MUS 35213 or major ensemble and 2 credit hours with ensemble electives (such as MUS 25311 and MUS 45231 for students whose instrument is guitar) as approved by faculty.

3 Applied studio musicianship (four semesters and 8 credit hours): Students must meet the Sophomore Proficiency requirement after two semesters and the Senior Proficiency requirement for graduation.

4 Students register for MUS 36913 for all other popular music instruments not listed.

5 Students who have completed the Applied Studio Musicianship and Applied Music requirement on piano may replace requirement with Music (MUS) electives.

Audio Recording Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
MUS 31221	AUDIO RECORDING III	3
MUS 31222	AUDIO RECORDING IV	3
MUS 41181	ACOUSTICS AND TECHNOLOGY IN MUSIC	2
MUS 41221	AUDIO RECORDING V	3
MUS 41222	AUDIO RECORDING VI	3
MUS 41240	AUDIO ELECTRONICS I	3
MUS 41250	LIVE SOUND PRODUCTION	2
Applied Studio Musicianship, choose from the following: [1,2]		4
MUS 36913	APPLIED STUDIO MUSICIANSHIP	
MUS 36914	ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP	
MUS 36915	ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP	
MUS 36916	DRUM SET PERCUSSION APPLIED STUDIO MUSICIANSHIP	
MUS 36917	KEYBOARD APPLIED STUDIO MUSICIANSHIP	
MUS 36918	CONTEMPORARY VOICE APPLIED STUDIO MUSICIANSHIP	
MUS 36919	FLUTE APPLIED STUDIO MUSICIANSHIP	
MUS 36920	CLARINET APPLIED STUDIO MUSICIANSHIP	
MUS 36921	SAXOPHONE APPLIED STUDIO MUSICIANSHIP	
MUS 36922	TRUMPET APPLIED STUDIO MUSICIANSHIP	
MUS 36923	HORN APPLIED STUDIO MUSICIANSHIP	
MUS 36924	TROMBONE APPLIED STUDIO MUSICIANSHIP	
Minimum Total Credit Hours:		**23**

1 Applied studio musicianship (four semesters and 8 credit hours): Students must pass the Sophomore Proficiency Threshold after two semesters and the Senior Proficiency Threshold for graduation.

2 Students who choose to complete more than one concentration may apply Applied Studio Musicianship hours toward all concentrations.

Music Production Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
MUS 21213	CLASS COMPOSITION I	2
MUS 21214	CLASS COMPOSITION II	2

MUS 31113	MUSIC PRODUCTION III	3
MUS 31114	MUSIC PRODUCTION IV	3
MUS 41113	MUSIC PRODUCTION V	3
MUS 41114	MUSIC PRODUCTION VI	3
MUS 41181	ACOUSTICS AND TECHNOLOGY IN MUSIC	2
MUS 41255	MUSIC PRODUCTION SEMINAR	1
Applied Studio Musicianship, choose from the following: [1,2]		4
MUS 36913	APPLIED STUDIO MUSICIANSHIP	
MUS 36914	ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP	
MUS 36915	ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP	
MUS 36916	DRUM SET PERCUSSION APPLIED STUDIO MUSICIANSHIP	
MUS 36917	KEYBOARD APPLIED STUDIO MUSICIANSHIP	
MUS 36918	CONTEMPORARY VOICE APPLIED STUDIO MUSICIANSHIP	
MUS 36919	FLUTE APPLIED STUDIO MUSICIANSHIP	
MUS 36920	CLARINET APPLIED STUDIO MUSICIANSHIP	
MUS 36921	SAXOPHONE APPLIED STUDIO MUSICIANSHIP	
MUS 36922	TRUMPET APPLIED STUDIO MUSICIANSHIP	
MUS 36923	HORN APPLIED STUDIO MUSICIANSHIP	
MUS 36924	TROMBONE APPLIED STUDIO MUSICIANSHIP	
Minimum Total Credit Hours:		**23**

1 Applied studio musicianship (four semesters and 8 credit hours): Students must pass the Sophomore Proficiency Threshold after two semesters and the Senior Proficiency Threshold for graduation.

2 Students who choose to complete more than one concentration may apply Applied Studio Musicianship hours toward all concentrations.

Performance Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA) (min C grade required in all courses)		
MUS 41250	LIVE SOUND PRODUCTION	2
Applied Studio Musicianship, choose from the following: [1,2]		16
MUS 36913	APPLIED STUDIO MUSICIANSHIP	
MUS 36914	ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP	
MUS 36915	ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP	
MUS 36916	DRUM SET PERCUSSION APPLIED STUDIO MUSICIANSHIP	
MUS 36917	KEYBOARD APPLIED STUDIO MUSICIANSHIP	
MUS 36918	CONTEMPORARY VOICE APPLIED STUDIO MUSICIANSHIP	
MUS 36919	FLUTE APPLIED STUDIO MUSICIANSHIP	
MUS 36920	CLARINET APPLIED STUDIO MUSICIANSHIP	
MUS 36921	SAXOPHONE APPLIED STUDIO MUSICIANSHIP	
MUS 36922	TRUMPET APPLIED STUDIO MUSICIANSHIP	
MUS 36923	HORN APPLIED STUDIO MUSICIANSHIP	
MUS 36924	TROMBONE APPLIED STUDIO MUSICIANSHIP	
Concentration Electives, choose from the following:		5
MUS 20295	SPECIAL TOPICS IN MUSIC [3]	
MUS 31113	MUSIC PRODUCTION III	
MUS 31114	MUSIC PRODUCTION IV	
MUS 31221	AUDIO RECORDING III	
MUS 31222	AUDIO RECORDING IV	
MUS 31230	GUITAR TECHNOLOGY	
MUS 31260	VOCAL PERFORMANCE TECHNIQUES	
MUS 41341	JAZZ IMPROVISATION I	
Minimum Total Credit Hours:		**23**

1 Students must take four semesters of 4 credit hours of Applied Studio Musicianship courses. Students must meet the Senior ASM Proficiency Threshold and complete one full senior recital and register for applied music courses during a degree recital semester.

2 Students who choose to complete more than one concentration may apply Applied Studio Musicianship hours toward all concentrations.

3 Integrated study and special topic courses may be applied toward concentration electives with approval.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- Minimum C grade required in all music (MUS) courses
- Minimum eight semesters of major ensemble courses and six semesters of applied studio musicianship and applied music courses. Applied music courses are available during the summer on selected instruments. Composition may also be taken during the summer.
- Attendance at minimum 84 concerts or recitals for students who begin the program as first-semester freshmen (students who transferred from a non-music program or university must attend an average of 10 music concerts or recitals for semesters of full-time enrollment)
- Students pursuing the Audio Recording and Music Production concentration simultaneously can take the Audio Recording and Music Production III, IV, V, and VI classes concurrently.

Roadmaps

Audio Recording Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	4
!	MUS 11121	THEORY I	4
!	MUS 21113	MUSIC PRODUCTION I	3
	UC 10001	FLASHES 101	1
!	Applied Studio Musicianship		2
!	Major Ensemble		1
!	Piano Class or Applied Music Piano		1-2
		Credit Hours	**16**
	Semester Two		
	MUS 11122	THEORY II	4
	MUS 21221	AUDIO RECORDING I	3
	Applied Studio Musicianship		2
	Major Ensemble		1
	Piano Class or Applied Music Piano		0-1

	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Three		
	MUS 21222	AUDIO RECORDING II	3
	MUS 21341	CONTEMPORARY POPULAR MUSIC THEORY	3
	MUS 22111	UNDERSTANDING WESTERN MUSIC (KFA)	3
	Applied Studio Musicianship		2
	Major Ensemble		1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	MUS 21114	MUSIC PRODUCTION II	3
	MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
	MUS 32230	NAVIGATING THE MUSIC INDUSTRY	3
!	Applied Studio Musicianship		2
!	Major Ensemble		1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
!	MUS 31221	AUDIO RECORDING III	3
!	MUS 32211 or MUS 42131 or MUS 42161	WESTERN MUSIC HISTORY I or MUSIC OF THE UNITED STATES or HISTORY OF JAZZ (DIVD)	3
	MUS 41250	LIVE SOUND PRODUCTION	2
	Applied Studio Musicianship		2
!	Major Ensemble		1
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Six		
!	MUS 31222	AUDIO RECORDING IV	3
!	MUS 41181	ACOUSTICS AND TECHNOLOGY IN MUSIC	2
!	MUS 41240	AUDIO ELECTRONICS I	3
!	Applied Studio Musicianship		2
!	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Seven		
	BUS 10123 or ENTR 27056 or MGMT 24163	EXPLORING BUSINESS or INTRODUCTION TO ENTREPRENEURSHIP or PRINCIPLES OF MANAGEMENT	3
	MUS 41221	AUDIO RECORDING V	3
	MUS 42165	HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC)	3
	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Eight		
!	MUS 40092	MUSIC TECHNOLOGY INTERNSHIP (ELR)	2
!	MUS 41222	AUDIO RECORDING VI	3
!	Major Ensemble		1
	Music (MUS) Elective		3
	Kent Core Requirement		3
	General Elective		1
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

Music Production Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
!	CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	4
!	MUS 11121	THEORY I	4
!	MUS 21113	MUSIC PRODUCTION I	3
	UC 10001	FLASHES 101	1
!	Applied Studio Musicianship		2
!	Major Ensemble		1
!	Piano Class or Applied Music Piano		1-2
		Credit Hours	**16**
	Semester Two		
!	MUS 11122	THEORY II	4
!	MUS 21221	AUDIO RECORDING I	3
!	Applied Studio Musicianship		2
!	Major Ensemble		1
!	Piano Class or Applied Music Piano		0-1
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Three		
!	MUS 21222	AUDIO RECORDING II	3
!	MUS 21341	CONTEMPORARY POPULAR MUSIC THEORY	3
	MUS 22111	UNDERSTANDING WESTERN MUSIC (KFA) (music major section)	3
!	Applied Studio Musicianship		2
!	Major Ensemble		1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	MUS 21114	MUSIC PRODUCTION II	3
	MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA) (music major section)	3
	MUS 32230	NAVIGATING THE MUSIC INDUSTRY	3
!	Applied Studio Musicianship		2
!	Major Ensemble		1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
!	MUS 21213	CLASS COMPOSITION I	2
!	MUS 31113	MUSIC PRODUCTION III	3
!	MUS 32211 or MUS 42131 or MUS 42161	WESTERN MUSIC HISTORY I or MUSIC OF THE UNITED STATES or HISTORY OF JAZZ (DIVD)	3
!	Applied Studio Musicianship		2
	Major Ensemble		1
	Kent Core Requirement		3
		Credit Hours	**14**

	Semester Six		
!	MUS 21214	CLASS COMPOSITION II	2
!	MUS 31114	MUSIC PRODUCTION IV	3
!	MUS 41181	ACOUSTICS AND TECHNOLOGY IN MUSIC	2
!	Applied Studio Musicianship		2
!	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Seven		
	BUS 10123 or ENTR 27056 or MGMT 24163	EXPLORING BUSINESS or INTRODUCTION TO ENTREPRENEURSHIP or PRINCIPLES OF MANAGEMENT	3
!	MUS 41113	MUSIC PRODUCTION V	3
!	MUS 41255	MUSIC PRODUCTION SEMINAR	1
!	MUS 42165	HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC)	3
!	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**17**
	Semester Eight		
!	MUS 40092	MUSIC TECHNOLOGY INTERNSHIP (ELR)	2
!	MUS 41114	MUSIC PRODUCTION VI	3
!	Major Ensemble		1
	Music (MUS) Elective		3
	Kent Core Requirement		3
	General Elective		1
		Credit Hours	**13**
		Minimum Total Credit Hours:	**120**

Performance Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	CS 10051	COMPUTER SCIENCE PRINCIPLES (KMCR)	4
!	MUS 11121	THEORY I	4
!	MUS 21113	MUSIC PRODUCTION I	3
	UC 10001	FLASHES 101	1
!	Applied Studio Musicianship		2
!	Major Ensemble		1
!	Piano Class or Applied Music Piano		1-2
		Credit Hours	**16**
	Semester Two		
!	MUS 11122	THEORY II	4
	MUS 21221	AUDIO RECORDING I	3
	Applied Studio Musicianship		2
!	Major Ensemble		1
!	Piano Class or Applied Music Piano		0-1
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Three		
!	MUS 21222	AUDIO RECORDING II	3
!	MUS 21341	CONTEMPORARY POPULAR MUSIC THEORY	3
	MUS 22111	UNDERSTANDING WESTERN MUSIC (KFA)	3
!	Applied Studio Musicianship		2
!	Major Ensemble		1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Four		
!	MUS 21114	MUSIC PRODUCTION II	3
	MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
	MUS 32230	NAVIGATING THE MUSIC INDUSTRY	3
!	Applied Studio Musicianship		2
!	Major Ensemble		1
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Five		
!	MUS 32211 or MUS 42131 or MUS 42161	WESTERN MUSIC HISTORY I or MUSIC OF THE UNITED STATES or HISTORY OF JAZZ (DIVD)	3
	MUS 41250	LIVE SOUND PRODUCTION	2
	Applied Studio Musicianship		4
!	Major Ensemble		1
	Concentration Elective		1
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Six		
	Applied Studio Musicianship		4
!	Major Ensemble		1
	Concentration Elective		2
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**13**
	Semester Seven		
	BUS 10123 or ENTR 27056 or MGMT 24163	EXPLORING BUSINESS or INTRODUCTION TO ENTREPRENEURSHIP or PRINCIPLES OF MANAGEMENT	3
	MUS 42165	HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC)	3
!	Applied Studio Musicianship		4
!	Major Ensemble		1
	Concentration Elective		2
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Eight		
	MUS 40092	MUSIC TECHNOLOGY INTERNSHIP (ELR)	2
!	Applied Studio Musicianship		4
!	Major Ensemble		1
	Music (MUS) Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3

General Elective	1
Credit Hours	**17**
Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Function as competent and versatile professional studio musicians who perform in diverse commercial music venues.
2. Compose and arrange music.
3. Create appropriate sound for visual media.
4. Create music productions of professional quality.
5. Produce professional audio recordings, both live and in studio, from start to finish.

Program Policies

Dual Degree/Double Major

School of Art

Students are permitted to double major in more than one division of the School of Art or complete more than one concentration in the same division.

1. Students enrolling in more than one major within the school must complete all course requirements in each major. If the two majors represent different degree programs, a minimum of 140 credit hours must be completed.
2. Students enrolling in a double concentration within the B.F.A. program must complete at least 12 upper-division credit hours within each concentration. In addition, all reviews must be passed and a senior project must be completed in each concentration.

A student taking a second major in art history must complete the language requirement. The program requirements for a double major must be approved in advance in writing by either the director or the division coordinator and become a part of the student's permanent file.

The Hugh A. Glauser School of Music

The Bachelor of Music, Bachelor of Arts degree in Music and the Bachelor of Science degree in Music Technology programs can be combined with approval by the faculty and director of the School of Music. In addition, double majors and more than one concentration within a major can be approved by the faculty and director of the School of Music.

Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

School of Music Undergraduate Professional Standards

1. **Ensemble Requirements**
   Ensemble participation is an integral part of every music major's program. All full-time music majors must enroll for credit and participate in an ensemble appropriate to their major performance

area until the number of semesters required in the program are completed. Music minors in the College of the Arts must enroll in a major ensemble for a minimum of two semesters. Transfer music minors must enroll in a major ensemble for a minimum of one semester.

2. **Recital Attendance**
   Required recital attendance is intended to enhance the musical perspective of all music majors and give them exposure to a sampling of various genres and performing media. Transfer students must attend a minimum of 10 recitals per semester. Other undergraduate music majors are required to attend a minimum four-year total of 84 concerts or recitals. Attendance at an average of 10-12 School of Music concerts per semester is recommended. Students will be notified of their status in regard to this policy once per semester. Appropriate information for all students will be sent to the college office prior to graduation. Further information is available in the School of Music office.
3. **Applied Music Requirement for the Bachelor of Music**
   a. **36000-level requirements:** All freshmen enter at the 36000-level of applied study. A minimum of four semesters of enrollment are required in the number of applied credit hours as prescribed by the degree program. A jury is performed at the end of each semester. At entrance, all students are informed of the performance standards necessary to advance to the 46000-level as determined by the faculty of each applied area. Transfer students with a minimum of four semesters of applied study (or equivalent) may enter at the 46000-level as determined by the entrance audition.
   b. **46000-level evaluation:** Students in the Bachelor of Music degree program will be evaluated during juries to determine if they meet the 46000-level entrance standard. The results of the 46000-level entry evaluation are:
      i. **Pass to the 46000-level**.
      ii. **Probation for one semester:** The students will register at the 46000-level and retake the upper-level entrance jury at the end of the probationary semester. If the 46000-level entrance standard is not achieved, the students return to the 36000-level, repeating as needed.
      iii. **Failure to pass the entry-level evaluation:** The students remain at the 36000-level of applied study until the 46000-level entrance standard is met.
   c. **Required accumulation of 46000-level applied credits**
      i. **Performance concentration:** four semesters (16 credit hours)
      ii. **Education majors:** three semesters (6 credit hours)
      iii. **Composition concentration:** must pass the 46000-level entry evaluation prior to graduation.
   d. **46000-level outcome assessment/recital**
      i. **Performance requirement***:* All Bachelor of Music performance degree candidates (piano, voice, instrumental) must perform both a one-half junior and a full senior recital; all other Bachelor of Music majors (composition, music education) must perform a half recital. Students who do not pass the recital must repeat 46000-level lessons until the recital is acceptable. Composition students may fulfill the one-half recital requirement in several ways.
   e. **Applied music requirements for the Bachelor of Arts in Music**
      Students in the Bachelor of Arts in Music program must meet the 46000-level as a graduation requirement and are not required to enroll at the 46000-level. Bachelor of Arts degree candidates are required to perform a half or full senior recital if approved by the faculty while enrolled in applied music or complete MUS 48598.
   f. **Applied music requirements for the B.S. in Music Technology**
      i. Music technology majors are required to complete a total of six semesters (12 credit hours) of Applied Studio Musicianship. A jury is performed at the end of each semester of study.
      ii. Students must meet the Sophomore Proficiency requirement after two semesters and the Senior Proficiency requirement prior to graduation.
4. **Advanced Study Admission Requirements**
   All Bachelor of Music degree majors must fulfill certain requirements to enter appropriate advanced standing for program specific upper-division coursework in the School of Music. These requirements are as follows:
   a. **Performance concentrations:** All students must meet the requirements for admission to 46000-level applied study as stated above.
   b. **Composition concentration:** The composition faculty will evaluate each student's work during the semester in which MUS 21112 is taken to determine if the student should continue to pursue the concentration. A 3.000 GPA is required in music theory classes. A skills test and composition portfolio are required. Specific information may be obtained from the coordinator of theory and composition.
   c. **Music Education concentration:** Music education majors must apply for admission into advanced study in the College of Education, Health, and Human Services prior to junior year. Music education majors must also pass the music education professional evaluation in the music education division limited to two attempts of the entire evaluation. Specific information may be obtained from the coordinator of music education.
5. **Grade Standard**
   Music majors and minors must earn a grade of C or better in all music courses in order to count them toward graduation and meet prerequisites for subsequent courses. Music courses required to meet the Writing-Intensive Course requirement must be passed with a C or better.
6. **Outcomes Assessment**
   Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

To graduate from Kent State University with the B.S. In music technology, students must have successfully completed a music technology Internship through an evaluation by the Music Technology Committee.

Full Description

The Bachelor of Science degree in Music Technology prepares students as musicians within a broad field of constantly changing technology. Students study in courses that develop expertise in music computer technology for application in the recording industry, audio-engineering and music production.

The development of music technology has had an enormous impact on the music industry. There are many career opportunities for talented musicians in music technology. Skilled musicians can apply formal

training to recording careers, studio performance, arranging or producing and live performances. Opportunities are also available in non-traditional, contemporary popular music venues, the movie industry, television, multi-media events and music for advertising, as well as traditional performing arts venues. The growth of music technology has made knowledge and experience in this area a necessity for all students preparing for a career in any area of the music industry. To compete effectively in the contemporary music world, one must possess a strong traditional music background, plus the technical expertise required to make the most of a rapidly changing and developing technology.

The Music Technology major comprises the following concentrations:

- The **Audio Recording** concentration provides students the opportunity to learn advanced audio recording techniques.
- The **Music Production** concentration provides students the opportunity to learn how to use technology to realize creative work such as original music, arranging and production.
- The **Performance** concentration provides students who want to perform the necessary technological tools to succeed in the modern music industry.

Music Technology - Minor

College of the Arts
School of Music
www.kent.edu/music

About This Program

The Music Technology minor is designed to give students a strong foundation in the rapidly developing field of music production and audio recording technologies. Coupled with courses in applied music, the minor provides students with the necessary tools to be successful in studio equipment, techniques and standards.

Contact Information

- **Michelle Bagwell** | dbagwel1@kent.edu | 330-244-3358
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
MUS 11111	MUSIC RUDIMENTS	3
MUS 21113	MUSIC PRODUCTION I	3
MUS 21114	MUSIC PRODUCTION II	3
Minor Electives, choose from the following:		6
MUS 31113	MUSIC PRODUCTION III	
MUS 31114	MUSIC PRODUCTION IV	
MUS 35213	STUDIO ENSEMBLE	
MUS 41181	ACOUSTICS AND TECHNOLOGY IN MUSIC	
MUS 42161	HISTORY OF JAZZ (DIVD)	
MUS 42165	HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC)	
Minimum Total Credit Hours:		**15**

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Be proficient in using music production software, digital audio workstations (DAWs) and other relevant music technology tools.
2. Have the ability to critically listen to and analyze various genres of music, identifying production techniques and sonic characteristics.

Music Theory - M.A.

College of the Arts
School of Music
www.kent.edu/music

About This Program

The Master of Arts degree in Music Theory is designed to enhance music theory abilities of advanced students and prepare them for admission to doctoral study. Based on a solid undergraduate music degree, the master's degree further develops abilities in music theory, including analytical, aural, written, keyboard and pedagogical skills. The program further develops breadth and depth in the area of music history and literature.

Contact Information

- **Gerrey Noh** | hnoh@kent.edu

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the M.A. in Music Theory are not being accepted at this time.

Examples of Possible Careers and Salaries*

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Music directors and composers

- 1.7% slower than the average
- 58,000 number of jobs
- $52,250 potential earnings

Accreditation

National Association of Schools of Music

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.A. in Music Theory are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Three letters of recommendation
- Résumé
- Goal statement
- Academic paper written in English
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
MUS 58251	PEDAGOGY OF MUSIC THEORY	2
MUS 62411	MUSIC BIBLIOGRAPHY AND RESEARCH METHODS	2
Advisor-Approved Music (MUS) Elective		3
Advisor-Approved Music Ensemble		2
Music Theory Electives, choose from the following: [1]		9
MUS 51141	16TH-CENTURY COUNTERPOINT	
MUS 51151	18TH-CENTURY COUNTERPOINT	
MUS 61121	HISTORY OF MUSIC THEORY	
MUS 61131	SCHENKERIAN ANALYSIS	
MUS 61173	WORLD MUSIC ANALYSIS	
MUS 61174	ANALYSIS OF WESTERN ART MUSIC	
MUS 61181	POST-TONAL THEORY	
MUS 61191	SEMINAR IN MUSIC SINCE 1900	
Music History Electives, choose from the following:		6
MUS 52131	MUSIC OF THE UNITED STATES	
MUS 52161	HISTORY OF JAZZ	
MUS 52181	POPULAR WORLD MUSIC	
MUS 52291	SEMINAR IN MUSIC HISTORY AND LITERATURE	
MUS 62171	MUSIC FROM WORLD CULTURES	
Culminating Requirement		
MUS 68199	THESIS I [2]	6
Minimum Total Credit Hours:		**30**

[1] Selection of music theory course is based on students' result from the theory placement exam. In the case of the exam results placing a student into MUS 51011 and/or MUS 51012, these courses will not count towards the M.A. degree and must be taken in addition to the music theory requirements.

[2] All students writing a thesis must pass a final oral examination covering the thesis and the student's major area of study. The final oral examination may be attempted two times.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze music from a wide range of styles and style periods, and communicate results in written and oral formats.

2. Demonstrate and apply functional aural, written and keyboard skills.
3. Recognize, identify and analyze representative literature from different historical periods, countries and composers.
4. Communicate knowledge of music theory and other aspects of music as would be done in classroom and private teaching.

School of Music Graduate Study

Program Requirements

Each student will be accepted as a major in a specific curricular area. It may be necessary for the student to complete Kent State University requirements for the appropriate undergraduate degree. Students' academic requirements are based on the catalog in effect during their first semester at Kent State University. Students may elect to complete their degrees under the most recent catalog, but must comply with all the new requirements relevant to their program under the new catalog.

Master's Thesis, Essay, Recital and Final Oral Examination

All Master of Music degree candidates in Performance must perform two recitals or one recital and write an essay depending on their specific degree requirements. Final oral examinations are required for all masters programs. The final oral examination may be attempted two times.

Research Tool Requirement

Candidates for the Master of Arts degree in Ethnomusicology must demonstrate a reading and understanding knowledge of one foreign language. Credit hours earned in meeting this requirement are not applied toward the credit hour requirement for the program.

For Ph.D. degree candidates in Music Theory - Composition, this requirement may be either a reading translating knowledge of one foreign language or demonstrated competence in an area of research specified by the doctoral advisory committee and approved by the Graduate Studies Committee. Credit hours earned in meeting this requirement are not applied toward the credit hour requirement for the program. For Ph.D. degree candidates in Music Education, this requirement is MUS 73283 and related research methods courses in the College of Education, Health and Human Services. These courses are applied toward the credit hour requirement for the program.

Ph.D. Candidacy Exams, Dissertation and Dissertation Defense

Doctoral candidates will take a comprehensive examination upon completion of their coursework and research tool requirement. This candidacy exam normally takes place within four years of beginning coursework. All doctoral candidates write and defend a dissertation via a final oral examination. The dissertation phase normally is completed within five years of passing the candidacy exams.

Time Limits

Master of Arts and Master of Music degree candidates must complete their degree within six calendar years after their first graduate registration at Kent State University. Any credit transferred for meeting degree requirements must also have been earned within the six-year period.

Ph.D. degree candidates must complete their degree within nine calendar years after their first doctoral registration at Kent State University. Any credit transferred for meeting degree requirements must also have been earned within the nine-year period.

Workshop Credit

A maximum 4 credit hours of workshop credit may be applied toward certain graduate degrees. The credit hours must pertain to the degree emphasis. Only workshop credits earned with a B grade or higher may be transferred into a program.

Music Theory - Composition - Ph.D.

College of the Arts
School of Music
www.kent.edu/music

About This Program

The Ph.D. degree in Music Theory–Composition prepares composers, research scholars and college/university teachers in the areas of music theory and composition. This degree program is based on the premise that original composition of high quality requires a strong background in theory, and that significant scholarship in theory requires experience in original composition.

Contact Information

- **Adam Roberts** | arober86@kent.edu | 330-672-4741

- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Applications to the Ph.D. in Music Theory-Composition are not being accepted at this time.

Examples of Possible Careers and Salaries*

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Music directors and composers

- 1.7% slower than the average
- 58,000 number of jobs
- $52,250 potential earnings

Accreditation

National Association of Schools of Music

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at

which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the Ph.D. in Music Theory-Composition are not being accepted at this time.

- Master's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal Statement
- Three letters of recommendation
- Substantial term paper on a theoretical topic or a master's thesis in music theory written in English
- Minimum three scores of original compositions demonstrating a variety of genres (chamber, orchestral, piano, choral, etc.)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
MUS 71121	HISTORY OF MUSIC THEORY	3
MUS 71131	SCHENKERIAN ANALYSIS	3
MUS 71181	POST-TONAL THEORY	3
MUS 71191	SEMINAR IN MUSIC SINCE 1900	3
MUS 78251	PEDAGOGY OF MUSIC THEORY	2
MUS 81211	COMPOSITION (course is repeatable)	8
Music History Electives		6
Music (MUS) Electives or Related Studies [1]		2
Culminating Requirement		
MUS 88199	DISSERTATION I [2]	30
Minimum Total Credit Hours:		**60**

[1] Electives must have been approved in student's prospectus.

[2] Each doctoral candidate, upon admission to candidacy, must register for MUS 88199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter MUS 88299, each semester, until all requirements for the degree have been met. All students writing a dissertation must pass a dissertation defense. Dissertation defense may be attempted two times.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

Program Learning Outcomes

Graduates of this program will be able to:

1. Compile a body of completed compositions.
2. Demonstrate and apply compositional techniques for creation of new works, including musical style and structure.
3. Analyze music from a wide range of styles and style periods and communicate results in written and oral formats.
4. Recognize, identify and analyze representative literature from different historical periods, countries and composers.
5. Communicate knowledge of composition, theory and other aspects of music in classroom and private teaching.

School of Music Graduate Study

Program Requirements

Each student will be accepted as a major in a specific curricular area. It may be necessary for the student to complete Kent State University requirements for the appropriate undergraduate degree. Students' academic requirements are based on the catalog in effect during their first semester at Kent State University. Students may elect to complete their degrees under the most recent catalog, but must comply with all the new requirements relevant to their program under the new catalog.

Master's Thesis, Essay, Recital and Final Oral Examination

All Master of Music degree candidates in Performance must perform two recitals or one recital and write an essay depending on their specific degree requirements. Final oral examinations are required for all masters programs. The final oral examination may be attempted two times.

Research Tool Requirement

Candidates for the Master of Arts degree in Ethnomusicology must demonstrate a reading and understanding knowledge of one foreign language. Credit hours earned in meeting this requirement are not applied toward the credit hour requirement for the program.

For Ph.D. degree candidates in Music Theory - Composition, this requirement may be either a reading translating knowledge of one foreign language or demonstrated competence in an area of research specified by the doctoral advisory committee and approved by the Graduate Studies Committee. Credit hours earned in meeting this requirement are not applied toward the credit hour requirement for the program. For Ph.D. degree candidates in Music Education, this requirement is MUS 73283 and related research methods courses in the College of Education, Health and Human Services. These courses are applied toward the credit hour requirement for the program.

Ph.D. Candidacy Exams, Dissertation and Dissertation Defense

Doctoral candidates will take a comprehensive examination upon completion of their coursework and research tool requirement. This

candidacy exam normally takes place within four years of beginning coursework. All doctoral candidates write and defend a dissertation via a final oral examination. The dissertation phase normally is completed within five years of passing the candidacy exams.

Time Limits

Master of Arts and Master of Music degree candidates must complete their degree within six calendar years after their first graduate registration at Kent State University. Any credit transferred for meeting degree requirements must also have been earned within the six-year period.

Ph.D. degree candidates must complete their degree within nine calendar years after their first doctoral registration at Kent State University. Any credit transferred for meeting degree requirements must also have been earned within the nine-year period.

Workshop Credit

A maximum 4 credit hours of workshop credit may be applied toward certain graduate degrees. The credit hours must pertain to the degree emphasis. Only workshop credits earned with a B grade or higher may be transferred into a program.

Performance - M.M.

College of the Arts
School of Music
www.kent.edu/music

About This Program

Turn your passion for music performance into a fulfilling career as a solo performer, orchestral musician or studio teacher with the Master of Music degree. With a focus on literature, repertoire, performance skills and historical performance practices, our program prepares you for a wide range of professional music activities, as well as further study at the doctoral level. Read more...

Contact Information

- **Matthew Holm | mholm2@kent.edu**
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Music directors and composers

- 1.7% slower than the average
- 58,000 number of jobs
- $52,250 potential earnings

Musicians and singers

- 0.9% little or no change
- 175,600 number of jobs
- $N/A potential earnings

Accreditation

National Association of Schools of Music

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation
- Audition
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
MUS 52291	SEMINAR IN MUSIC HISTORY AND LITERATURE	3
MUS 62411	MUSIC BIBLIOGRAPHY AND RESEARCH METHODS	2
Applied Music Electives, choose from the following: [1]		8
MUS 61211	APPLIED MUSIC - GRADUATE COMPOSITION	
MUS 66111	APPLIED MUSIC-GRADUATE PIANO	
MUS 66311	APPLIED MUSIC-GRADUATE VOICE	
MUS 66411	APPLIED MUSIC-GRADUATE VIOLIN	
MUS 66412	APPLIED MUSIC-GRADUATE VIOLA	
MUS 66413	APPLIED MUSIC-GRADUATE CELLO	
MUS 66414	APPLIED MUSIC-GRADUATE DOUBLE BASS	
MUS 66511	APPLIED MUSIC-GRADUATE FLUTE	
MUS 66512	APPLIED MUSIC-GRADUATE OBOE	
MUS 66513	APPLIED MUSIC-GRADUATE CLARINET	
MUS 66514	APPLIED MUSIC-GRADUATE BASSOON	
MUS 66515	APPLIED MUSIC-GRADUATE SAXOPHONE	
MUS 66611	APPLIED MUSIC-GRADUATE TRUMPET	
MUS 66612	APPLIED MUSIC-GRADUATE HORN	
MUS 66613	APPLIED MUSIC-GRADUATE TROMBONE	
MUS 66615	APPLIED MUSIC-GRADUATE TUBA	
MUS 66711	APPLIED MUSIC-GRADUATE PERCUSSION	
MUS 66811	APPLIED MUSIC - GRADUATE CONDUCTING	
Ensemble Electives, choose from the following:		4
MUS 55131	KENT STATE OPERA THEATRE WORKSHOP	
MUS 55141	KENT STATE UNIVERSITY CHORALE	
MUS 55142	CORO CANTARE	
MUS 55143	CANTIQUE	
MUS 55212	ORCHESTRA	
MUS 55221	SYMPHONY BAND	
MUS 55223	WIND ENSEMBLE	
MUS 55231	JAZZ ENSEMBLE	
MUS 55271	NEW MUSIC ENSEMBLE	
MUS 55301	AFRICAN ENSEMBLE	
MUS 55302	CARIBBEAN STEELBAND	
MUS 55311	CHAMBER MUSIC	
MUS 55315	ASIAN MUSIC ENSEMBLE	
MUS 55321	ACCOMPANYING	
Additional Requirements or Concentrations		
Choose from the following:		17
Additional Requirements for Students Not Declaring a Concentration		
Composition Concentration		
Conducting Concentration		
Minimum Total Credit Hours:		**34**

[1] Students register for 4 credit hours of applied music throughout two semesters.

Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Requirements		
MUS 51291	SEMINAR IN POST-TONAL AND RECENT MUSIC [1]	3
or MUS 51391	SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY	
or MUS 61174	ANALYSIS OF WESTERN ART MUSIC	
MUS 68687	RECITAL (taken twice) [2]	4
Applied Music Electives, choose from the following: [3]		4
MUS 61211	APPLIED MUSIC - GRADUATE COMPOSITION	
MUS 66111	APPLIED MUSIC-GRADUATE PIANO	
MUS 66311	APPLIED MUSIC-GRADUATE VOICE	
MUS 66411	APPLIED MUSIC-GRADUATE VIOLIN	
MUS 66412	APPLIED MUSIC-GRADUATE VIOLA	
MUS 66413	APPLIED MUSIC-GRADUATE CELLO	
MUS 66414	APPLIED MUSIC-GRADUATE DOUBLE BASS	
MUS 66511	APPLIED MUSIC-GRADUATE FLUTE	
MUS 66512	APPLIED MUSIC-GRADUATE OBOE	
MUS 66513	APPLIED MUSIC-GRADUATE CLARINET	
MUS 66514	APPLIED MUSIC-GRADUATE BASSOON	
MUS 66515	APPLIED MUSIC-GRADUATE SAXOPHONE	
MUS 66611	APPLIED MUSIC-GRADUATE TRUMPET	
MUS 66612	APPLIED MUSIC-GRADUATE HORN	
MUS 66613	APPLIED MUSIC-GRADUATE TROMBONE	
MUS 66615	APPLIED MUSIC-GRADUATE TUBA	
MUS 66711	APPLIED MUSIC-GRADUATE PERCUSSION	
Music Electives, choose from the following: [4]		6
MUS 51291	SEMINAR IN POST-TONAL AND RECENT MUSIC	
MUS 51391	SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY	
MUS 52221	SYMPHONIC LITERATURE	
MUS 52227	WIND BAND LITERATURE	
MUS 52241	PIANO LITERATURE	
MUS 52261	VOCAL LITERATURE	
MUS 52271	CHORAL LITERATURE	
MUS 52291	SEMINAR IN MUSIC HISTORY AND LITERATURE	
MUS 58610	SINGER'S DICTION [5]	
Minimum Total Credit Hours:		**17**

[1] MUS 61174 requires a Graduate Theory Placement score of 03. Students who earn a Graduate Theory Placement score of 01 and/or 02 will be required to take independent study on Written Theory Review and/or independent study on Aural Theory Review.

[2] MUS 68687 is taken twice for 2 credit hours each time.

[3] Students register for 2 credit hours of applied music during the two semesters in which they register for MUS 68687.

[4] All elective courses require special approval.

[5] Students with voice specialization must take MUS 58610.

Composition Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
MUS 51291	SEMINAR IN POST-TONAL AND RECENT MUSIC	3

MUS 51391	SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY	3
MUS 61174	ANALYSIS OF WESTERN ART MUSIC [1]	3
MUS 61211	APPLIED MUSIC - GRADUATE COMPOSITION (taken twice) [2]	6
MUS 68687	RECITAL	2
Minimum Total Credit Hours:		**17**

1 MUS 61174 requires a Graduate Theory Placement score of 03. Students who earn a Graduate Theory Placement score of 01 and/or 02 will be required to take independent study on Written Theory Review and/or independent study on Aural Theory Review.

2 Students register for 2 credit hours of applied music during the semester in which they register for MUS 68687 and 4 credit hours during one other semester.

Conducting Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
MUS 52221	SYMPHONIC LITERATURE	3
or MUS 52227	WIND BAND LITERATURE	
or MUS 58610	SINGER'S DICTION	
MUS 66811	APPLIED MUSIC - GRADUATE CONDUCTING [1]	4
MUS 68687	RECITAL [2]	2
Concentration Electives, choose from the following:		6
MUS 51291	SEMINAR IN POST-TONAL AND RECENT MUSIC	
MUS 51391	SEMINAR IN TONAL AND PRE-TONAL MUSIC THEORY	
MUS 52271	CHORAL LITERATURE	
MUS 61174	ANALYSIS OF WESTERN ART MUSIC [3]	
Applied Music Elective, choose from the following:		2
MUS 66111	APPLIED MUSIC-GRADUATE PIANO	
MUS 66311	APPLIED MUSIC-GRADUATE VOICE	
MUS 66411	APPLIED MUSIC-GRADUATE VIOLIN	
MUS 66412	APPLIED MUSIC-GRADUATE VIOLA	
MUS 66413	APPLIED MUSIC-GRADUATE CELLO	
MUS 66414	APPLIED MUSIC-GRADUATE DOUBLE BASS	
MUS 66511	APPLIED MUSIC-GRADUATE FLUTE	
MUS 66512	APPLIED MUSIC-GRADUATE OBOE	
MUS 66513	APPLIED MUSIC-GRADUATE CLARINET	
MUS 66514	APPLIED MUSIC-GRADUATE BASSOON	
MUS 66515	APPLIED MUSIC-GRADUATE SAXOPHONE	
MUS 66611	APPLIED MUSIC-GRADUATE TRUMPET	
MUS 66612	APPLIED MUSIC-GRADUATE HORN	
MUS 66613	APPLIED MUSIC-GRADUATE TROMBONE	
MUS 66615	APPLIED MUSIC-GRADUATE TUBA	
MUS 66711	APPLIED MUSIC-GRADUATE PERCUSSION	
Minimum Total Credit Hours:		**17**

1 Students register for 2 credit hours of applied music during the semester in which they register for MUS 68687.

2 In MUS 68687, conductors will do their recital in conducting.

3 MUS 61174 requires a Graduate Theory Placement score of 03. Students who earn a Graduate Theory Placement score of 01 and/or 02 will be required to take independent study on Written Theory Review and/or independent study on Aural Theory Review.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes

Graduates of this program will be able to:

1. Work independently and make effective artistic, intellectual and professional decisions in their area of specialization.
2. Prepare and communicate their artistic choices and musical research through oral/written means.
3. Use knowledge and skills in music theory/history to service their interpretation and performance in the area of specialization.

School of Music Graduate Study

Program Requirements

Each student will be accepted as a major in a specific curricular area. It may be necessary for the student to complete Kent State University requirements for the appropriate undergraduate degree. Students' academic requirements are based on the catalog in effect during their first semester at Kent State University. Students may elect to complete their degrees under the most recent catalog, but must comply with all the new requirements relevant to their program under the new catalog.

Master's Thesis, Essay, Recital and Final Oral Examination

All Master of Music degree candidates in Performance must perform two recitals or one recital and write an essay depending on their specific degree requirements. Final oral examinations are required for all masters programs. The final oral examination may be attempted two times.

Research Tool Requirement

Candidates for the Master of Arts degree in Ethnomusicology must demonstrate a reading and understanding knowledge of one foreign language. Credit hours earned in meeting this requirement are not applied toward the credit hour requirement for the program.

For Ph.D. degree candidates in Music Theory - Composition, this requirement may be either a reading translating knowledge of one foreign language or demonstrated competence in an area of research specified by the doctoral advisory committee and approved by the Graduate Studies Committee. Credit hours earned in meeting this requirement are not applied toward the credit hour requirement for the program. For Ph.D. degree candidates in Music Education, this requirement is MUS 73283 and related research methods courses in the College of Education, Health and Human Services. These courses are applied toward the credit hour requirement for the program.

Ph.D. Candidacy Exams, Dissertation and Dissertation Defense

Doctoral candidates will take a comprehensive examination upon completion of their coursework and research tool requirement. This candidacy exam normally takes place within four years of beginning coursework. All doctoral candidates write and defend a dissertation via

a final oral examination. The dissertation phase normally is completed within five years of passing the candidacy exams.

Time Limits

Master of Arts and Master of Music degree candidates must complete their degree within six calendar years after their first graduate registration at Kent State University. Any credit transferred for meeting degree requirements must also have been earned within the six-year period.

Ph.D. degree candidates must complete their degree within nine calendar years after their first doctoral registration at Kent State University. Any credit transferred for meeting degree requirements must also have been earned within the nine-year period.

Workshop Credit

A maximum 4 credit hours of workshop credit may be applied toward certain graduate degrees. The credit hours must pertain to the degree emphasis. Only workshop credits earned with a B grade or higher may be transferred into a program.

Full Description

The Master of Music degree in Performance is designed to prepare students for professional careers in music.

The Performance major includes the following optional concentrations:

- The **Composition** concentration provides students the opportunity to compose works for various mediums and see them through to performance.
- The **Conducting** concentration provides students the opportunity to develop advanced competencies in musicianship and analysis and a broad gestural vocabulary, building on their baccalaureate training.

Voice, instrumental and piano performance students who do not declare a concentration have the opportunity to build their technical and interpretive skills to prepare informed and artistic performances.

World Music - Minor

College of the Arts
School of Music
www.kent.edu/music

About This Program

The World Music minor provides concentrated study of traditional and popular world music (style, performance, history, cultural associations and related arts). Students of any major can pursue this minor as part of their degree program.

Contact Information

- **Andrew Shahriari** | ashahria@kent.edu | 330-672-2830
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
MUS 45301	AFRICAN ENSEMBLE (DIVG)	1
or MUS 45302	CARIBBEAN STEELBAND (DIVG)	
or MUS 45315	ASIAN MUSIC ENSEMBLE (DIVG)	
Minor Electives, choose from the following:		8
MUS 22131	SURVEY OF ROCK MUSIC HISTORY (DIVD)	
MUS 42131	MUSIC OF THE UNITED STATES	
MUS 42161	HISTORY OF JAZZ (DIVD)	
MUS 42181	POPULAR WORLD MUSIC (DIVG)	
MUS 45301	AFRICAN ENSEMBLE (DIVG) [1]	
MUS 45302	CARIBBEAN STEELBAND (DIVG) [1]	
MUS 45315	ASIAN MUSIC ENSEMBLE (DIVG)	
Minimum Total Credit Hours:		**12**

[1] Repeatable for up to eight semesters.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Create music that is informed by the study of ethnomusicology.
2. Analyze music that is informed by the study of ethnomusicology.
3. Perform music that is informed by the study of ethnomusicology.

School of Theatre and Dance

College of the Arts
School of Theatre and Dance
Center for the Performing Arts
Kent Campus
www.kent.edu/theatredance

Dance Division
D101 Center for the Performing Arts
330-672-2069
dance@kent.edu

Theatre Division
B141 Center for the Performing Arts
330-672-2082
theatre@kent.edu

Undergraduate Programs

- Dance - B.F.A.
- Dance Studies - B.A.
- Musical Theatre - B.F.A.
- Theatre Design, Technology and Production - B.F.A.
- Theatre Studies - B.A.

Minors

- Dance
- Theatre Design, Technology and Production
- Theatre Performance
- Theatre Studies

Graduate Programs

- Acting - M.F.A.
- Theatre Design and Technology - M.F.A.

School of Theatre and Dance Faculty

- Black, Jennifer (2019), Assistant Professor, B.F.A., University of Akron, 1996
- Brown, Courtney (2014), Associate Professor, M.F.A., University of Southern Mississippi, 2008
- Emory-Maier, Ambre G. (2022), Assistant Professor, M.F.A., Ohio State University , 2019
- Fritsche, Amy (2013), Associate Professor, M.F.A., San Diego State University, 2010
- Hardin, Albert A. (2022), Professor, M.F.A., University of Virginia, 1999
- Humes, Thomas W. (2019), Assistant Professor, B.A., Bowling Green State University, 2007
- Hurley, Paul (2018), Associate Professor, M.F.A., University of Delaware, 2007
- Huya, Natalie J. (2003), Senior Lecturer, M.A., Villanova University, 2001
- Kane, Caitlin (2022), Assistant Professor, Ph.D., Cornell University, 2022
- Keenan, Grace A. (2004), Associate Professor, M.F.A., Penn State University, 2012
- Kent, Therese J. (1991), Professor, M.F.A., Michigan State University, 1987
- Kildow, Eric S. (2015), Associate Professor, M.F.A., Savannah College of Art and Design, 2009
- Korecki, Jennifer S. (2012), Associate Professor, M.M., Kent State University, 1996
- Meredith, Catherine E. (2019), Assistant Professor, M.F.A., Hollins University, 2011
- Neuman Lambert, Gennie L. (2023), Assistant Professor, M.F.A., Rutgers University, 2023
- Pauna, Steven R. (2013), Professor, M.F.A., Kent State University, 2000
- Polanco, Fabio J. (2009), Professor, M.F.A., Case Western Reserve University, 1997
- Polunas, Jeffrey W. (2022), Assistant Professor, M.F.A., University of California-Irvine, 2012
- Rockland, Jeffrey M. (2015), Associate Professor, M.F.A., University of California-Irvine, 1992
- Seo, Jakyung (2009), Professor, M.F.A., University of Illinois-Urbana, Champaign, 2004
- Souza, Michelle H. (2019), Assistant Professor, M.F.A., University of San Diego, 2007
- Swoboda, Jonathan F. (2008), Associate Professor, M.M., University of Nebraska, Omaha, 1997
- Wenger, Baz (2009), Assistant Professor, M.F.A., Ohio University, 2022

Dance (DAN)

DAN 17001 INTRODUCTION TO MODERN 1 Credit Hour
(Repeatable for credit) Introduction to the foundations of modern dance, which includes correct alignment; use of rotation; exploration of floorwork; and development of flexibility, coordination and strength. Use of terminology and movement developmentally appropriate for the beginner. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17002 MODERN 1 1-3 Credit Hours
(Repeatable for credit) Development of the basics of modern dance technique foundations and improvisation with emphasis on the movement and performing qualities of modern dance.
Prerequisite: DAN 17001.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 17004 INTRODUCTION TO JAZZ 1 Credit Hour
(Repeatable for credit) Introduction to the practice of basic jazz techniques. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17005 JAZZ 1 2 Credit Hours
(Repeatable for credit) Continuation of beginner and advanced beginner jazz dance technique foundations with emphasis on more challenging dance combinations.
Prerequisite: DAN 17004.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 17007 TAP 1 1 Credit Hour
(Repeatable for credit) Basic tap steps and combinations with varying sound intensities and rhythms. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17008 TAP 2 1 Credit Hour
(Repeatable for credit) Continuation of tap dance technique foundations with emphasis on more advanced dance combinations.
Prerequisite: DAN 17007.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17009 TAP 3 1 Credit Hour
(Repeatable for a maximum of 8 credit hours) Advanced tap dance techniques with emphasis on clarity, speed and performance skills.
Prerequisite: DAN 17008.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

DAN 17010 INTRODUCTION TO BALLET 1 Credit Hour
(Repeatable for credit) Introduction to the foundations of ballet, which includes correct alignment, safe external rotation, development of flexibility, coordination and strength, through the use of terminology and movement developmentally appropriate for the beginner. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17011 BALLET 1 1-3 Credit Hours
(Repeatable for credit) Continued study and practice of the foundations of ballet, which include correct alignment, safe external rotation, development of flexibility, coordination, placement, vocabulary and strength through movement for the use of terminology and movement developmentally appropriate for the advanced beginner.
Prerequisite: DAN 17010.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 17012 BALLET 3 1 Credit Hour
(Repeatable for credit) This course presents high intermediate ballet techniques for the serious non-major dance student. Students will apply the principles of body alignment to an ever expanding movement vocabulary. Intricate combinations in adagio, petite and grand allegro and turns will be offered. Focus will be on the strength, flexibility and endurance required to master movements at this more advanced level.
Prerequisite: DAN 17011.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17013 AFRICAN DANCE 1 1 Credit Hour
(Repeatable for credit) Designed to acquaint students with basic elements of African dance. Open to all university students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17016 SWING DANCE 1 1 Credit Hour
(Repeatable for credit) Practice of basic swing dance movements with emphasis on social partnering skills. Open to all students.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

DAN 17019 HIP HOP 1 1 Credit Hour
(Repeatable for credit) Introduction to Hip Hop dance including warm-up techniques, movement across the floor and dance combinations. Open to all university students. No previous experience is necessary.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17020 HIP HOP 2 1 Credit Hour
(Repeatable for credit) Hip Hop II is for students with previous experience in hip hop and will explore in greater depth fundamentals, history, technique and personal style.
Prerequisite: DAN 17019.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17049 FUNDAMENTALS OF DANCE AND MOVEMENT 2 Credit Hours
(Repeatable for credit) Introduction to an intensive exploration of dance and movement techniques for majors and non-majors with special emphasis on alignment, body awareness, and movement vocabulary.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

DAN 17055 MEN'S BALLET 1 Credit Hour
(Repeatable for credit) Men's Ballet allows male- identifying students to receive training to enhance their ballet skills. Goals include improving overall placement and ballet technique while focusing on style and movements particular to the male danseur.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17080 MUSICAL THEATRE RUDIMENTS OF JAZZ AND TAP 1 Credit Hour
(Repeatable for credit) This course lays the foundation of beginning musical theatre jazz and tap. The beginning student learns proper vocabulary and alignment for both mediums of dance.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 17101 MODERN 1A 1 Credit Hour
(Repeatable for credit) The practice of basic modern dance technique, vocabulary, and movement for the beginner. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17102 MODERN 2A 1 Credit Hour
(Repeatable for credit) Further practice of modern dance vocabulary and movement. This course is geared toward the dance majors or minor seeking to raise their level of ability, knowledge, and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17104 JAZZ 1A 1 Credit Hour
(Repeatable for credit) Introduction to jazz dance vocabulary and movement. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17105 JAZZ 2A 1 Credit Hour
(Repeatable for credit) Further studies in jazz dance vocabulary and movement. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their chosen field of study and professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17110 BALLET 1A 1 Credit Hour
(Repeatable for credit) Introduction to the foundations of ballet placement, vocabulary and movement for the beginner. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17111 BALLET 2A 1 Credit Hour
(Repeatable for credit) Further practice with ballet placement, vocabulary, and movement. This course is geared toward the dance major or minor seeking to raise their level of ability, knowledge and understanding in order to progress in their professional development.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 17151 MODERN 3B 3 Credit Hours
(Repeatable for credit) Continued exploration of basic modern dance technique and improvisation begun in DAN 27051. Continued study of dance innovators and their historical significance.
Prerequisite: DAN 27051; and Dance major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 17154 BALLET 3B 3 Credit Hours
(Repeatable for credit) A continuation from Ballet 3A, students learn and perfect Beginning/Intermediate -Intermediate Ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 27050 BALLET 2 1-3 Credit Hours
(Repeatable for credit) Course focuses on ballet placement, vocabulary and movement for the intermediate dancer. Students wishing to advance to a higher level are encouraged to repeat the course.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 27051 MODERN 2 1-3 Credit Hours
(Repeatable for credit) Course focuses on low-intermediate modern dance fundamentals, vocabulary and movement for the low-intermediate dancer.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 27070 JAZZ 2 2 Credit Hours
(Repeatable for credit) Development of low-intermediate jazz dance skills.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 27074 DANCE COMPOSITION I 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Movement exploration and improvisation including developing the body as an instrument of expression.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

DAN 27076 DANCE AS AN ART FORM (DIVG) (KFA) 3 Credit Hours
Survey of the various types, styles and functions of dance with emphasis on understanding dance as an art form and an expression of culture.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

DAN 27080 MUSICAL THEATRE JAZZ AND TAP I 2 Credit Hours
This course serves the advanced beginner to intermediate level musical theatre dance student. Students will build on the foundation of Rudiments of Jazz and Tap. They will learn more difficult concepts and steps and work to apply those concepts and steps in their dancing.
Prerequisite: DAN 17080; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 27150 KINESIOLOGY FOR DANCERS 3 Credit Hours
This course presents the basic anatomy and kinesiology of the key body joints of the spine, shoulder, hip, knee, ankle and foot. The fundamental bone structure, muscles and ligaments of these joints are discussed as they relate to movement capacity, mechanics and injury risk. This basic knowledge of these joints is combined with movement analysis to help students better understand alignment and selected dance vocabulary.
Prerequisite: NUTR 23511; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 27171 MODERN 4B 3 Credit Hours
(Repeatable for credit) Continuation of intermediate level dance styles with emphasis on complex movement phrases.
Prerequisite: DAN 37051; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 27173 BALLET 4B 3 Credit Hours
(Repeatable for credit) Students learn and perfect intermediate to advanced-intermediate ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 28010 DANCE ACCOMPANIMENT LABORATORY I 2 Credit Hours
(Course is repeatable for a maximum of 4 credit hours) Students will be introduced to the techniques and strategies of modern dance and ballet technique class accompaniment. Emphasis is placed on supervised student accompaniment and acquiring familiarity with dance class protocols, procedures, and the accompanist-instructor relationship. Course meets concurrently with one of the professional-level modern dance or ballet technique classes offered by the Dance Division.
Prerequisite: None.
Schedule Type: Laboratory
Contact Hours: 4 lab
Grade Mode: Standard Letter

DAN 37010 DANCE PEDAGOGY 3 Credit Hours
This course brings together the theory and practice of dance pedagogy as applied in various settings including preschools; elementary, middle and high schools; private studios; universities; and professional settings. Students learn to develop lesson, unit and yearly learning and assessment plans. Specific developmental attributes and age-appropriate approaches as well as best business practices for teachers and studio owners are also addressed.
Prerequisite: Dance or Education major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 37020 TEACHING DANCE AND MOVEMENT FOR NONTRADITIONAL POPULATIONS 3 Credit Hours
This course focuses on the theories, content and pedagogical methods for teaching dance and movement for nontraditional populations. Nontraditional populations include individuals with physical, sensory and/or developmental/intellectual disabilities; persons living with chronic illness; and senior adults. Further, the course addresses best practices for integrated classes that are inclusive of individuals with and without disabilities. Finally, the course addresses related topics including aspects of civil rights, disability culture and aesthetics and professional applications beyond instruction.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 37035 DANCE COMPOSITION II 2 Credit Hours
Basic principles of dance composition with attention to design, thematic material, structure, form and small groups.
Prerequisite: DAN 27074; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

DAN 37051 MODERN 3 1-3 Credit Hours
(Repeatable for credit) Course focuses on modern dance principles and techniques, vocabulary and movement for the intermediate dancer. Students wishing to advance to a higher level are encouraged to repeat the course.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 37069 BALLET 3 1-3 Credit Hours
(Repeatable for credit) Course focuses on ballet placement, vocabulary and movement for the intermediate-advanced dancer. Students wishing to advance to a higher level are encouraged to repeat the course.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 37070 DANCE COMPOSITION III 2 Credit Hours
(Repeatable for a maximum of 8 credit hours) Development of individual movement style through improvisational studies and movement manipulation exercises of structure and form resulting in a substantial solo modern dance work.
Prerequisite: DAN 37035; and special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 37072 DANCE AND TECHNOLOGY 2 Credit Hours
This course introduces students to new technologies as resources for creative expression, performance and documentation of dance. Students will learn a brief history of screen dance, techniques for archiving dance, shooting and editing video with dance as the subject and approaches to interactive performance. Students will gain a basic understanding of how new media interacts with current practice in dance creation, production, education and research.
Prerequisite: Dance major or minor; and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture
Grade Mode: Standard Letter

DAN 37080 MUSICAL THEATRE JAZZ AND TAP II 2 Credit Hours
This class is a continuation of the building of jazz and tap skills, as the steps increase in difficulty. Course will incorporate sequencing of transition steps which smoothly connect one set of steps to another.
Prerequisite: DAN 27080; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 37081 MUSICAL THEATRE JAZZ AND TAP III 2 Credit Hours
Continuation of Jazz and Tap techniques building on skills suitable for and required in professional audition circumstances. Course will assist advanced student to fine tune jazz and tap skills for auditions.
Prerequisite: DAN 37080; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 37092 KENT DANCE ENSEMBLE (ELR) 1 Credit Hour
(Repeatable for credit) Participation in rehearsal, preparation and performance of public dance concerts in an established dance ensemble.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

DAN 37100 POINTE 1 1 Credit Hour
(Repeatable for credit) Allows intermediate to advanced ballet dancers with some previous experience dancing on pointe to continue their pointe studies. The class explores ballet vocabulary and repertory at the barre, center, and travelling across the space, specifically in pointe shoes. Dancers must demonstrate sufficient strength, alignment, flexibility and prior ballet training required to safely dance on pointe prior to receiving approval for participation in a university pointe class.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 37148 JAZZ 3 2 Credit Hours
(Repeatable for credit) Development of intermediate to advanced-intermediate jazz dance skills.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 37150 POINTE 2 1 Credit Hour
(Repeatable for credit) Allows advanced ballet dancers with previous experience dancing on pointe to continue studies to include classical variations. The class explores ballet vocabulary and repertory at the barre, center and traveling across space, specifically in pointe shoes. Dancers are expected to have achieved the strength, alignment, flexibility and prior ballet training in order for a faculty member to approve participation in a university pointe class. Dancers taking Pointe 2 are expected to have reached an advanced level of ballet technique.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 37168 MODERN 5B 3 Credit Hours
(Repeatable for credit) Continuation of advanced modern dance technique.
Prerequisite: DAN 47051; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 37169 BALLET 5B 3 Credit Hours
(Repeatable for credit) A continuation from Ballet 5A, students learn advanced ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 37170 DANCE COMPOSITION IV 1 Credit Hour
Exploration of advanced composition skills in preparation for the B.F.A. senior choreography project and future choreographic endeavors.
Prerequisite: DAN 37070; and special approval.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

DAN 37192 DANCE PRACTICUM - PERFORMANCE (ELR) 1 Credit Hour
(Repeatable for credit) This course provides students practical experience related to the creation of a dance performance. Students complete work as assigned by a faculty member, contributing as directed, cast or assigned. The faculty mentor provides instruction, specifies expectations and assesses the student's contribution to the related performance.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

DAN 37292 DANCE PRACTICUM - TEACHING (ELR) 1 Credit Hour
(Repeatable for credit) This course provides students practical experience related to teaching dance. Students complete work as assigned under the tutelage of a dance faculty member. While teaching theory is addressed, this course provides mentored practical experience observing, demonstrating and student teaching other dance students as assigned. Additional homework related to teacher preparation and planning completes student coursework.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

DAN 37310 MUSIC FOR DANCERS 3 Credit Hours
Students will build theoretical, analytical and performance skills in music specific to the needs of dancers, dance teachers and choreographers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 37392 DANCE PRACTICUM - CHOREOGRAPHY (ELR) 1 Credit Hour
(Repeatable for credit) This course provides students practical experience creating dance under the mentorship of a faculty advisor for a specific performance, as assigned. Students receive specific instructions and feedback as they are guided to complete a work of choreography that is then presented for an audience. Faculty mentors for this course have extensive teaching and choreography experience.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

DAN 38001 APPLIED SKILLS FOR DANCE ACCOMPANIMENT 2 Credit Hours
(Course is repeatable for a maximum of 8 credit hours) Private applied music instruction in performance skills necessary to accompany a modern dance or ballet class. Emphasis is placed on hand drum and frame drum technique, keyboard repertoire, and keyboard improvisation skills.
Prerequisite: DAN 28010.
Schedule Type: Private Lesson
Contact Hours: 1.5 other
Grade Mode: Standard Letter

DAN 47050 BALLET 4 1-3 Credit Hours
(Repeatable for credit) Course focuses on ballet alignment, physicality, vocabulary and movement for the advanced-intermediate dancer.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 47051 MODERN 4 1-3 Credit Hours
(Repeatable for credit) Course focuses on advanced modern dance techniques, vocabulary and movement for the advanced dancer.
Prerequisite: Instructor approval.
Schedule Type: Studio
Contact Hours: 3-9 other
Grade Mode: Standard Letter

DAN 47054 MODERN 6A 3 Credit Hours
(Repeatable for credit) Advanced technique integrating previously learned modern dance techniques and developing advanced movement phrasing.
Prerequisite: DAN 37168 and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 47060 PROFESSIONAL ASPECTS IN DANCE 2 Credit Hours
Development of pragmatic skills for entrance into professional dance careers. Emphasis on resume writing, preparation for auditions and economic survival.
Prerequisite: DAN 37148; and special approval.
Schedule Type: Studio
Contact Hours: 2 other
Grade Mode: Standard Letter

DAN 47063 DANCE HISTORY I 3 Credit Hours
History of dance from antiquity to 1900.
Prerequisite: Dance major; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

DAN 47069 BALLET 6A 3 Credit Hours
(Repeatable for credit) Pre-professional Ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 47070 JAZZ 4 2 Credit Hours
(Repeatable for credit) Jazz style for students with advanced dance technique.
Prerequisite: DAN 37148.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 47080 MUSICAL THEATRE DANCE STYLES I 2 Credit Hours
Advanced Jazz and Tap class for Musical Theatre students to develop the stylization skills of musical theatre dance and performance. Students will work on stylization of movement by learning three different production numbers. One of a vernacular style, one classic style, and one involving partnering.
Prerequisite: DAN 37081; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 47081 MUSICAL THEATRE DANCE STYLES II 2 Credit Hours
Students will work to prepare a professional dance reel (a video record of their skills and accomplishments). The student's skills will include various media (jazz, tap, ballet, gymnastics, partnering, etc.) and styles (Charleston, Swing, Waltz, dances of the 50s, 60s, 70s, etc.). Students will be ready to submit dance reels, which they will prepare in the course of the semester. Provisions will be made for those students who do not desire or require a dance reel.
Prerequisite: DAN 47080; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

DAN 47095 SPECIAL TOPICS IN DANCE 1-3 Credit Hours
(Repeatable for a total of 24 hours) offered when resources permit a topic different from existing courses. Topic to be announced when scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

DAN 47154 MODERN 6B 3 Credit Hours
(Repeatable for credit) Continuation of advanced technique integrating previously learned modern dance techniques and developing advanced movement phrasing with special emphasis on performing quality and movement range.
Prerequisite: DAN 47054; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 47156 DANCE PRODUCTION 3 Credit Hours
Study of elements involved in planning and implementing a concert. Experiential work in technical and management components.
Prerequisite: Dance major; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DAN 47163 DANCE HISTORY II (WIC) 3 Credit Hours
History of the development of concert and theatrical dance forms from 1900 to present day.
Prerequisite: DAN 47063; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

DAN 47169 BALLET 6B 3 Credit Hours
(Repeatable for credit) A continuation from Ballet 6A, students learn pre-professional Ballet techniques: pre-barre; barre and center work.
Prerequisite: Dance major or minor or dance studies major; and special approval.
Schedule Type: Studio
Contact Hours: 9 other
Grade Mode: Standard Letter

DAN 47170 JAZZ STYLES IV 2 Credit Hours
(Repeatable for credit) Continuation of DAN 47070.
Prerequisite: DAN 47070; and special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

DAN 47192 INTERNSHIP IN DANCE (ELR) 1 Credit Hour
(Repeatable for credit)Supervised dance apprenticeship in an approved educational setting.
Prerequisite: Dance major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

DAN 47196 INDIVIDUAL INVESTIGATION IN DANCE 1-3 Credit Hours
(Repeatable for credit) Individual projects for dance majors.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

DAN 47199 BACHELOR OF ARTS CAPSTONE (ELR) 1-3 Credit Hours
(Repeatable for credit) The capstone project represents a culminating event for the Dance Studies student. Capstone projects can be taken in the junior or senior year and are identified in consultation with a faculty advisor. Honors students may combine the capstone project with an Honors thesis.
Prerequisite: Junior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

DAN 47299 BACHELOR OF FINE ARTS CAPSTONE (ELR) 1-3 Credit Hours
(Repeatable for credit) The B.F.A. Capstone Project consists of choreography and/or performance with full production values in an approved setting, along with the written and/or digital record of the production and creative process. It should be of significant scope and substance that will demonstrate excellence in the conscious artistry acquired through formal training. The project is generally accomplished within the last semester of the student's program. Students must present choreography in a Student Dance Festival prior to the presentation of their Senior Projects Concert (BFA Senior Dance Concert), i.e., during sophomore or junior year.
Prerequisite: DAN 37170; and sophomore standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

Kent Blossom Theatre (KBT)

KBT 22092 PRACTICUM I:DESIGN/TECHNOLOGY (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours)Practical experience in theatre production under faculty supervision. Available for lower division students only.
Prerequisite: Freshman and sophomore standing only.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 22192 PRACTICUM I:PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for a total of 12 hours) practical experience in theatre performance under faculty supervision. Available for lower division students only. Repeatable for a total of 12 hours.
Prerequisite: Freshman and sophomore standing only.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 41096 INDIVIDUAL STUDY:THEATRE 1-3 Credit Hours
(Repeatable for a total of 12 hours) Selected research topics in theatre.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

KBT 41992 THEATRE PRODUCTION INTERNSHIP (ELR) 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours)Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.
Prerequisite: Junior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 42092 PRACTICUM II: DESIGN/TECHNOLOGY (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre production under faculty supervision. Available for upper division students only.
Prerequisite: Junior and senior standing only.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 42192 PRACTICUM II:PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre performance under faculty supervision. Available for upper division students only.
Prerequisite: Junior and senior standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

KBT 60199 M.F.A.. THESIS 3 Credit Hours
(Repeatable for credit) Students must register for course during the semester of their MFA thesis project.
Prerequisite: Graduate standing; and special approval of adviser.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

KBT 60992 PROFESSIONAL THEATRE INTERNSHIP I 1,6 Credit Hour
(Cross-listed with THEA 60992) (Repeatable once for credit) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre Company.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 61096 INDIVIDUAL INVESTIGATION:THEATRE AND DRAMA 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

KBT 61992 PROFESSIONAL THEATRE INTERNSHIP II 1,6 Credit Hour
Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 62092 PRACTICUM: DESIGN/TECHNOLOGY 3 Credit Hours
(Repeatable for credit)Practical experience for the graduate student in theatre design and technology under faculty supervision.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 62192 PRACTICUM:PERFORMANCE 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) (Cross-listed with THEA 62192)Practical experience for the graduate student in theatre performance under faculty supervision.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 62992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours)Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.
Prerequisite: Graduate standing; and special approval of adviser.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

KBT 72992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours)Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.
Prerequisite: Doctoral standing; and special approval of adviser.
Schedule Type: Practical Experience
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

Theatre (THEA)

THEA 11000 THE ART OF THE THEATRE (DIVG) (KFA) 3 Credit Hours
Using the life-centered nature of theatre as a medium of analysis, this course is designed to develop critically engaged audience members who are aware of the impact, significance and historical relevance of the interconnection between culture and theatre performance.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

THEA 11002 MUSICAL THEATRE PERFORMANCE I 3 Credit Hours
Course focuses on the foundational skills of acting and singing in musical theatre. Students study and practice beginning-level character development, vocal technique, song interpretation and audition skill in a supportive environment.
Prerequisite: Musical Theatre major.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 11100 MAKING THEATRE: CULTURE AND PRACTICE 2 Credit Hours
Overview of theatre practices through creative experiential learning. The focus and course content combines practical and cultural experiences and culminates with a performance event that provides a solid foundation in the artistic process and an identity for the first-year theatre student.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

THEA 11303 THE ART OF ACTING 3 Credit Hours
General introduction to acting: the actor's instrument, sensory awareness, personal and group response, objectives and tactics. Basic scene work.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

THEA 11521 GRAPHICS FOR THE THEATRE 3 Credit Hours
An introduction to computer software currently used by professional theatre designers and technicians. These applications include image processing software, computer-aided design software and 3D visualization software.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 11722 FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND 2 Credit Hours
An introduction to professional theatre production principles and practices in the areas of scenery, stagecraft and sound.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: CTAG Performing Arts, TAG Arts and Humanities

THEA 11723 FUNDAMENTALS OF PRODUCTION LABORATORY I: SCENERY 1 Credit Hour
Practice in theatre production techniques in the area of scenery.
Prerequisite: Special approval.
Corequisite: THEA 11722.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

THEA 11724 FUNDAMENTALS OF PRODUCTION LABORATORY II: PROPS AND SCENIC ART 1 Credit Hour
Practice in theatre production techniques in the area of properties and scenic art.
Prerequisite: Special approval.
Corequisite: THEA 11722.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Performing Arts, TAG Arts and Humanities

THEA 11725 FUNDAMENTALS OF THEATRE DESIGN AND PRODUCTION 3 Credit Hours
Course introduces students to the fundamental concepts and practices of theatre design and production. Students explore various areas of design, including scenic, costume, lighting and sound design, as well as the process of bringing these elements together in a production. Through lectures, hands-on projects and collaboration, students gain an understanding of how design enhances storytelling in theatre and how technical elements contribute to the overall production.
Prerequisite: Major or minor in School of Theatre and Dance.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 11732 FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS 2 Credit Hours
An introduction to professional theatre production principles and practices in the areas of costumes, lighting and projections.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
Attributes: CTAG Performing Arts

THEA 11733 FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES 1 Credit Hour
Practice in theatre production techniques in the area of costumes.
Prerequisite: Special approval.
Corequisite: THEA 11732.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

THEA 11734 FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS 1 Credit Hour
Practice in theatre production techniques in the area of lighting, sound and projections.
Prerequisite: Special approval.
Corequisite: THEA 11732.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

THEA 14092 BACHELOR OF FINE ARTS INTRODUCTORY PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1 Credit Hour
(Repeatable for credit) Practical experience in theatre and dance production. Foundational training for work in various production contexts.
Prerequisite: Theatre Design, Technology and Production major.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 20102 MUSIC THEORY FOR MUSICAL THEATRE I 2 Credit Hours
Study the basic principles and applications of music theory as it may apply to the work of a professional singing actor. It will begin by gaining a thorough understanding of the rudiments of music and progress to studying the objective and subjective aspects of music and its structure, principally pertaining to the world of musical theatre. The course is intended to establish fundamental concepts to be further explored in THEA 20103.
Prerequisite: Musical Theatre major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

THEA 20103 MUSIC THEORY FOR MUSICAL THEATRE II 2 Credit Hours
Study the basic principles and applications of music theory as it may apply to the work of a professional singing actor. Course focuses on the interpretation of music for musical theater and serves as a continuation of the material presented in THEA 20102.
Prerequisite: Musical Theatre major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

THEA 20204 EAR TRAINING AND SIGHT SINGING FOR MUSICAL THEATRE I 1 Credit Hour
Course concentrates on the foundational aural skills needed in the study and application of music theory and performance. Students focus on basic interval, harmonic and rhythmic identification. Course also addresses beginning-level melodic dictation and sight singing of beginning-level diatonic melodies.
Prerequisite: Musical Theatre major.
Pre/corequisite: THEA 20102.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

THEA 20205 EAR TRAINING AND SIGHT SINGING FOR MUSICAL THEATRE II 1 Credit Hour
Course continues the development of skills begun in THEA 20204. Students focus on identifying and singing intermediate to advanced diatonic and chromatic melodies and harmonies.
Prerequisite: THEA 20204.
Pre/corequisite: THEA 20103.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

THEA 21002 MUSICAL THEATRE PERFORMANCE II 3 Credit Hours
Course builds on the foundational skills studied in THEA 11002. Emphasis is placed on music analysis and interpretation as it pertains to musical theatre song. Students engage in preliminary scene study and analysis.
Prerequisite: THEA 11002.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 21016 MAKEUP FOR STAGE AND SCREEN 3 Credit Hours
Study of stage, TV and photographic makeup techniques and materials. Four lecture demonstration laboratory hours per week; special projects as assigned.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21095 SPECIAL TOPICS IN THEATRE 1-3 Credit Hours
(Repeatable for credit) Offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

THEA 21111 SCRIPT ANALYSIS 3 Credit Hours
Principles, theories and techniques of play script analysis for theatrical production.
Prerequisite: THEA 11100; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Arts and Humanities

THEA 21303 ACTING PROCESS 3 Credit Hours
Fundamentals of naturalistic acting and interaction; development of spontaneity, believability and a sense of truth; game playing and basic stage technique.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 2 lecture, 1 lab
Grade Mode: Standard Letter

THEA 21306 MUSICAL THEATRE PERFORMANCE I 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Performance-oriented class that will focus on techniques and styles of performance in musical theatre and cabaret from Gilbert and Sullivan to present.
Prerequisite: Musical theatre major.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 21501 SOPHOMORE PORTFOLIO REVIEW 1 Credit Hour
Preparation and review of a portfolio of work, judged by the design technology faculty at the beginning of the spring semester. Student must pass to remain in the BFA design technology program.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 21521 THEATRICAL DRAFTING 3 Credit Hours
Drafting techniques for all design and technology students. Includes plans, elevations, sections, detailed drawings light plots.
Prerequisite: THEA 11521 and THEA 11722 and THEA 11723; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21522 LIGHTING DESIGN 3 Credit Hours
Exploration of the tools of the lighting designer applied to design choices; frequent paper design projects.
Prerequisite: THEA 11732 and THEA 11734; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21523 COSTUME TECHNOLOGY 3 Credit Hours
Study of the basics of costume construction, pattern drafting, tailoring and millinery for costumes in the performing arts. A variety of historical periods and styles are covered. Students create portfolio-quality projects.
Prerequisite: THEA 11732; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21524 COSTUME DESIGN 3 Credit Hours
Theory and practice of costume design. Emphasis on play text analysis, formation of concepts, use of design elements and principles, period styles.
Prerequisite: THEA 11732; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21526 BASIC COSTUME CONSTRUCTION 3 Credit Hours
Course is designed to provide the student with a more advanced set of sewing skills in preparation for stitcher positions in the entertainment field. Prepares students for more advanced costume technology courses.
Prerequisite: THEA 11732; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21528 SOUND AND PROJECTION DESIGN AND TECHNOLOGY 3 Credit Hours
Studies in sound design and projection design with emphasis on practical application and specific processes related to designing for theatre and dance.
Prerequisite: THEA 11521; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21621 SCENE PAINTING 3 Credit Hours
Techniques of scene painting; emphasis on a variety of techniques through practical projects.
Prerequisite: THEA 11722 and THEA 11724; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21622 SCENE DESIGN 3 Credit Hours
Theory and practice of scene design; emphasis on script analysis, formation of concepts, use of design elements and principles in period styles and genres.
Prerequisite: THEA 11722 and THEA 11723; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21700 MOVEMENT I 3 Credit Hours
Beginning exploration of technical skills emphasizing the physical components of expressive action through integration of breath, text and body conditioning.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 21736 STAGE MANAGEMENT 3 Credit Hours
Introduction to the skills and techniques necessary to stage manage a theatrical production. Focus on the production process, preparing for and running rehearsals and performances, paperwork and communication skills.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 21800 VOICE I 3 Credit Hours
Breathing, physical alignment, sound and text explorations designed to develop relaxed, free and fully connected voice production for the actor. Proper use and care of the voice.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 22092 PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Practical experience in theatre production under faculty supervision. Available for lower-division students only. Required of all theatre majors.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement, TAG Arts and Humanities

THEA 22192 PRACTICUM I: PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for credit) Practical experience in theatre performance under faculty supervision. Available for lower-division students only.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement, TAG Arts and Humanities

THEA 22292 PRACTICUM I:THEATRE MANAGEMENT (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Practical experience in theatre management under faculty supervision.
Prerequisite: Freshmen or sophomore only; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

THEA 23092 BACHELOR OF FINE ARTS SOPHOMORE PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1 Credit Hour
(Repeatable for credit) Practical experience at the sophomore level in theatre and dance production.
Prerequisite: Theatre design, technology and production major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 31030 GLOBAL THEATRE HISTORIES 3 Credit Hours
Theatre creates meaning within the particular historical and cultural contexts in which it is created and received. In this course, students are introduced to several key moments, figures, productions and styles; they explore how primary and secondary research can be used to understand those works within the contexts of their creation and illuminate their ongoing relevance to contemporary artists and audiences today. Students practice engaging with the conventions of various cultural performances. They develop skills in finding, reading, interpreting, summarizing and applying cultural and historical research to understand and explain performances.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31110 HISTORY OF THEATRE AND DRAMA I 3 Credit Hours
Theatre history and drama in Europe from antiquity through the renaissance.
Prerequisite: THEA 21111; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31111 HISTORY OF THEATRE AND DRAMA II 3 Credit Hours
Theatre history and drama in Europe and the United States from 1700 to the present.
Prerequisite: THEA 21111; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31200 APPLIED VOICE FOR MUSICAL THEATRE 2 Credit Hours
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors or musical theatre majors. Individual study. An audition is required. This course is not part of the ODHE Transfer Assurance Guides.
Prerequisite: Musical Theatre major; and special approval.
Schedule Type: Private Lesson
Contact Hours: 1.5 other
Grade Mode: Standard Letter

THEA 31303 CHARACTER AND SCENE STUDY I 3 Credit Hours
The development of character in the realistic scene.
Prerequisite: THEA 21303; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31304 CHARACTER AND SCENE STUDY II 3 Credit Hours
Further character and scene exploration; spontaneity and creative choice making.
Prerequisite: THEA 31303; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31401 DIRECTING 3 Credit Hours
Theoretical and practical work in the process of play direction; the director's mission; play analysis and design collaboration; the rehearsal process.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31526 FLAT PATTERNING FOR THEATRE 3 Credit Hours
The course is designed to provide the student with a basic set of skills in flat patterning techniques, using the sloper (a basic fitted pattern from which patterns for different styles can be developed) and individualizing patterns to meet the actors costume needs. This class is also preparatory for more advanced costume technology courses.
Prerequisite: THEA 21526.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 31701 MOVEMENT II 3 Credit Hours
Development of movement exploration and improvisation skills which focus on physical relationships in performance and utilize the components of energy, space and time.
Prerequisite: THEA 11303 or THEA 21306; and special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 31801 VOICE II 3 Credit Hours
Continuation of THEA 21800. Explorations involve various texts and incorporation of voice principles at a more detailed level.
Prerequisite: THEA 21800; and special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 32000 BACHELOR OF FINE ARTS PORTFOLIO REVIEW 1 Credit Hour
(Repeatable for credit) Review of a portfolio of theatre and related work, and a review of the student's academic progress and coursework judged by the design/technology faculty at the beginning of the spring semester. Student must pass to remain in the B.F.A. degree.
Prerequisite: Theatre Design, Production and Technology major; and junior standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 32002 MUSICAL THEATRE PERFORMANCE III 3 Credit Hours
Course focuses on the performance aspects of musical theatre while emphasizing the professional practices necessary for a successful career in the industry. Students continue to develop their acting and vocal skills while exploring the business side of musical theatre, including audition techniques, marketing and networking.
Prerequisite: THEA 21002.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 33092 BACHELOR OF FINE ARTS JUNIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 2 Credit Hours
(Repeatable for credit) Practical experience at the junior level in theatre and dance production.
Prerequisite: Theatre design, technology and production major; and special approval.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 34092 BACHELOR OF FINE ARTS ADVANCED PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1-2 Credit Hours
(Repeatable for credit) Practical experience at an advanced level in theatre and dance production.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 40091 VARIABLE TOPICS SEMINAR: DEVISING THEATRE 3 Credit Hours
(Slashed with THEA 50091) A devised theatre event is work that has emerged and been generated by a group of people working in collaboration. Devising Theatre explores the processes of creating original performances defined and determined by its makers. Process and product originate from stimuli other than traditional play scripts. Students learn specialist techniques by developing solo and group performance pieces. Alternative modes of making theatre performances are considered.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 41010 THEATRE AND SOCIAL CHANGE 3 Credit Hours
(Slashed with THEA 51010) This course interweaves the history, theory, practice and play text development in the field of theatre and social change.
Prerequisite: THEA 11000 or THEA 11100.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41026 PLAYWRITING (WIC) 3 Credit Hours
(Repeatable for a total of 6 credit hours)(Slashed with THEA 51026) Principles underlying playwriting for the contemporary theatre; analysis of short play form.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

THEA 41027 ADVANCED PLAYWRITING 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51026) Application of principles of playwriting to the longer play and to variations from traditional realism; play analysis and composition.
Prerequisite: THEA 41026; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41089 INTERNATIONAL EXPERIENCE: THEATRE AND SOCIAL CHANGE IN CZECHIA (DIVG) (ELR) 3 Credit Hours
(Slashed with THEA 51089)(Repeatable for credit) Using a combination of in-depth research and direct learning experiences, this course explores the intersection between theatre and socio-political change through the example of Czechoslovakia's history from the 1968 Prague Spring to the Velvet Revolution of 1989/90 and on through today's concerns of Western late-stage capitalism. Students study both historical and contemporary texts, as well as view productions while on a study abroad program.
Prerequisite: ENG 21011.
Schedule Type: International Experience, Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter
Attributes: Diversity Global, Experiential Learning Requirement

THEA 41095 SPECIAL TOPICS IN THEATRE 1-3 Credit Hours
(Repeatable for credit)(Slashed with THEA 51095) Course offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

THEA 41096 INDEPENDENT STUDY IN THEATRE 1-3 Credit Hours
(repeatable for a total of 6 hours) selected research topics in theatre; to be elected only after all coursework in study area completed.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

THEA 41113 THEATRE IN A MULTICULTURAL AMERICA (DIVD) 3 Credit Hours
(Slashed with THEA 51113) A study of theatre and drama in the Native American, Hispanic-American, African-American and Asian-American communities in the United States from 1980 to the present.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

THEA 41115 LGBTQ THEATRE (DIVD) 3 Credit Hours
(Slashed with THEA 51115) Studies of various theatrical representations of Lesbian, Gay, Bisexual, Transgender and Queer people as seen through the frameworks of history, gender theory, identity, politics, psychology, law and justice.
Prerequisite: Junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic

THEA 41130 THEATRE AND DRAMA IN AMERICA 3 Credit Hours
(Slashed with THEA 51130) The history of theatre and drama in America from their beginnings to the present.
Prerequisite: THEA 21111; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41140 AMERICAN MUSICAL THEATRE HISTORY (WIC) 3 Credit Hours
Comprehensively examines the history of American musical theater and incorporates the exploration of musical literature in production and performance.
Prerequisite: Theatre major; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

THEA 41191 VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY 3 Credit Hours
(Repeatable for credit)(Slashed with THEA 51191) Seminar in theatre history and literature providing an in-depth focus on selected topics such as: African-American theatre, women in theatre, politics and theatre, theatre in a multicultural society, costume history on stage and screen.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 41301 ACTING FOR THE CAMERA I 3 Credit Hours
(Slashed with THEA 51301) Introduction to the specific techniques used in film acting. The course provides students with the necessary tools to make the transition from stage acting to camera acting.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41302 ACTING FOR THE CAMERA II 3 Credit Hours
(Slashed with THEA 51302) Further development on the specific techniques used in film acting. The course continues to assist students in making the transition from stage acting to camera acting.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41304 ACTING II-SCENE STUDY-MODERN AMERICAN REALISM 3 Credit Hours
(Slashed with THEA 51304) The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 41305 PROFESSIONAL ASPECTS: PERFORMANCE 3 Credit Hours
(Slashed with THEA 51305) A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered: pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41306 PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY 3 Credit Hours
A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects. Use of computers as a resource and tool emphasized.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41307 MUSICAL THEATRE PERFORMANCE II 3 Credit Hours
Repeatable for credit. Advanced work in musical theatre performance techniques for junior- and senior-level students. Course content includes selecting appropriate musical theatre audition material and developing contrasting selections from the musical theatre repertory. Preparation for musical theatre auditions is included.
Prerequisite: THEA 21306; and special approval.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 41308 MUSICAL THEATRE AUDITION 3 Credit Hours
(Repeatable for credit) Course explore the various genres and styles of American musical theatre songs with specific emphasis on finding practical audition repertoire for each student. Performance and research are the primary activities in the class.
Prerequisite: Major or minor in School of Theatre and Dance.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 41401 ADVANCED DIRECTING 3 Credit Hours
(Slashed with THEA 51401) Advanced work in directing for the theatre. Topics include the director as creative/interpretative artist and the director and the actor; students direct individual projects.
Prerequisite: THEA 11303 and THEA 31401; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41420 THEATRICAL DRAFTING II 3 Credit Hours
(Slashed with THEA 51420) Advanced 2D and 3D drafting techniques for technical directors and theatre designers. Representation of scenery through drafting using current AutoCAD software.
Prerequisite: THEA 21521.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41430 ADVANCED CONSTRUCTION THEORY 3 Credit Hours
(Slashed with THEA 51430) The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop, including reliably predicting the performance of untraditional, unusual or unfamiliar structures and use of mathematical models, formulas, and representative diagrams.
Prerequisite: THEA 11722 and THEA 41560; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41440 SHOP MANAGEMENT 3 Credit Hours
(Slashed with THEA 51440) Study of resource management, both human and non-human, for professional and academic shops. Topics include scheduling, budgeting, health and safety, interactions with other theatre workers and leadership development.
Prerequisite: THEA 11722; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41499 MUSICAL THEATRE SHOWCASE (ELR) 2 Credit Hours
(Repeatable for credit) (Slashed with THEA 51499) Development, promotion, and presentation of a Musical Theatre showcase for industry casting personnel in New York City. Audition required prior to registration for this course.
Prerequisite: Senior standing; and special approval.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

THEA 41501 SENIOR PORTFOLIO REVIEW 1 Credit Hour
Review of a portfolio of theatre and related work, and a review of the student's academic progress coursework and professional potential judged by the design technology faculty at the end of the fall semester. Student must pass to remain eligible for the bfa design technology degree.
Prerequisite: Theatre design, production and technology major; senior standing and; special approval.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 41521 ADVANCED LIGHTING TECHNOLOGY I 3 Credit Hours
(Slashed with THEA 51521) Advanced study of the technologies used in lighting design; conventional and intelligent fixtures, electricity, projection techniques and special effects.
Prerequisite: THEA 11732 and THEA 11734; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41522 DESIGN STUDIO: LIGHTING 3 Credit Hours
(Slashed with THEA 51522) Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems.
Prerequisite: THEA 21522; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41523 SOUND DESIGN AND TECHNOLOGY I 3 Credit Hours
(Slashed with THEA 51523) Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment mixing consoles amplifiers speakers.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41524 DESIGN STUDIO: COSTUME 3 Credit Hours
(Slashed with THEA 51524) Advanced study in costume design. Genres styles in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer shop/personnel and designer director.
Prerequisite: THEA 21524; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41525 PROPS AND CRAFTS 3 Credit Hours
(Slashed with THEA 51525) Examination of the processes related to the creation and procurement of scenic and costume props.
Prerequisite: THEA 11722 and THEA 11732; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41526 ADVANCED LIGHTING TECHNOLOGY II 3 Credit Hours
(Slashed with THEA 51526) Course focuses on the practice of intelligent lighting programming and the technology of intelligent lighting fixtures.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41527 SOUND DESIGN AND TECHNOLOGY II 3 Credit Hours
(Slashed with THEA 51527) Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored.
Prerequisite: THEA 41523; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41528 THEATRE SOUND REINFORCEMENT 3 Credit Hours
(Slashed with THEA 51528) Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real time digital processing of audio.
Prerequisite: THEA 41523; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41529 ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN 3 Credit Hours
(Slashed with THEA 51529) Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required.
Prerequisite: Junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41531 THEATRICAL RIGGING 3 Credit Hours
(Slashed with THEA 51531) Course is designed to teach students the principles of stage rigging, knot tying and counterweight rigging systems used in theatrical and other live entertainment situations. Students examine the process involved in overhead applications for the theatre industry. Students learn the proper method to design and rig in theatrical environments through the explanation of tools, equipment, hardware and safety practices.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41540 DRAPING FOR THE THEATRE I 3 Credit Hours
(Slashed with THEA 51540) The course is designed to provide an introduction to the basics of draping and building flat patterning techniques from this knowledge as they apply to theatre.
Prerequisite: THEA 31526; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41541 DRAPING FOR THE THEATRE II 3 Credit Hours
(Slashed with THEA 51541) Course is designed to build upon skills developed in Draping for the Theatre I. Emphasis is placed on learning to drape over period undergarments such as corsetry, panniers, bustles, etc.
Prerequisite: THEA 31526; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41560 THEATRE FABRICATION TECHNOLOGY 3 Credit Hours
(Slashed with THEA 51560) History of technical production practice, materials theory and application in scenic construction technology.
Prerequisite: THEA 21521; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41562 ADVANCED PROJECTION DESIGN 3 Credit Hours
(Slashed with THEA 51562) Studies in projection design, digital media, and related technologies. Advanced software applications will be explored.
Prerequisite: THEA 11521; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41620 HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) 3 Credit Hours
Students explore the way in which theatre designers approach period style in their own creative work.
Prerequisite: Theatre design, technology and production major; and junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

THEA 41621 PRESENTATION MEDIA 3 Credit Hours
(Slashed with THEA 51621) Advanced process techniques in rendering, model building and design presentation for the scenic costume and lighting designer in traditional and new media.
Prerequisite: THEA 11722 and THEA 11732 and THEA 21521; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41622 DESIGN STUDIO: SCENERY 3 Credit Hours
(Slashed with THEA 51622) Advanced study in scenic design. Explores genres styles performance spaces, including practical considerations.
Prerequisite: THEA 21622; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41625 HISTORY OF COSTUME AND TEXTILES FOR THEATRE 3 Credit Hours
(Slashed with THEA 51625) This class is designed to give a global overview of the history of period costume and textiles from 1500 to 1990, a span of time that is most often used in theatrical production and broken down into commonly regarded “time periods” in the history of costume as well as looking at clothing history across various continents and regions. Emphasis is placed on how, as theatre practitioners, we can recreate the silhouettes of these periods and regions in ways that make sense to our audience using the textiles available today. We will also look at the social and cultural influences of clothing, recognition of historic silhouette, and focus how to utilize various tools needed to accurately research any given period or region.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41702 MOVEMENT AND DANCE FOR ACTORS 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51702) Designed to acquaint actors with theatre dance techniques and choreographic styles by concentrating on vernacular dances used throughout musical theatre. Course combines basic ballet, jazz and tap terminology.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 41703 STAGE COMBAT 3 Credit Hours
(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51703) Introductory course focuses on creating the illusion of violence for the stage and screen. Basic instruction is given in unarmed and armed stage combat. Emphasis is on the development of technique; the process of the work; and the performance, with a focus on safety, accuracy and the fundamental techniques recognized by the Society of American Fight Directors (SAFD). Basic techniques are incorporated into short scenes to provide experience performing fights in production.
Prerequisite: Special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 41726 THEATRE MANAGEMENT 3 Credit Hours
Principles and practices of managing theatrical-producing organizations. Problems of finance, personnel, policy, program building and public relations. Production participation as assigned.
Prerequisite: Junior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41734 COSTUME PRODUCTION MANAGEMENT 3 Credit Hours
(Slashed with THEA 51734) The course is designed to provide an introduction to managerial processes as they apply to costume production; the role of a shop manager, the roles of a wardrobe supervisor and wardrobe crew, and the running of a smooth technical rehearsal and production.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41736 PRODUCTION AND STAGE MANAGEMENT 3 Credit Hours
(Slashed with THEA 51736) Advanced investigation of the methodology used in stage managing professional theatrical productions and production management processes. Focus on production processes for various theatre, dance, opera and entertainment genres.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 41804 MILLINERY TECHNIQUES 3 Credit Hours
(Slashed with THEA 51804) This course is designed to provide an introduction to the basics of millinery techniques. Emphasis is placed on essential millinery principles, quality millinery supplies and finishing techniques, as well as the design and patterning of a variety of hat wear.
Prerequisite: Junior standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

THEA 41808 ACTING STYLES I: SHAKESPEARE 3 Credit Hours
(Slashed with THEA 51808) The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies and scenes from Shakespeare.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 41999 CAPSTONE PROJECT (ELR) 1-3 Credit Hours
The capstone project represents a culminating event for the student. Capstone projects can be undertaken in the junior or senior year and are identified in consultation with a faculty advisor. Honor students may combine the capstone project with an Honors thesis.
Prerequisite: Junior standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 42002 MUSICAL THEATRE PERFORMANCE IV 3 Credit Hours
Course focuses on synthesizing the multiple aspects of musical theatre performance. Solo and ensemble work are emphasized with special concentration on scene work specific to musical theatre. This course is the culmination of the four-course sequence in musical theatre performance.
Prerequisite: THEA 32002.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 1.5 lecture, 3 other
Grade Mode: Standard Letter

THEA 42040 SHOP MANAGEMENT 3 Credit Hours
(Slashed with THEA 52040) Course provides an in-depth exploration of the principles and practices of shop management specific to scenic and costume design, integrating foundational concepts of managerial science. Students learn about production processes, resource management, budgeting, organizational behavior, safety practices/OSHA requirements and strategic planning. The course emphasizes both theoretical frameworks and practical applications, preparing students for successful careers in theatrical production and management.
Prerequisite: THEA 11725 and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 42062 PRESENTATION MEDIA 3 Credit Hours
(Slashed with THEA 52062) Course explores the fundamental skills in drawing, painting, drafting and model building specifically designed for theatre production. Students develop techniques in visualizing and constructing set and costume designs. Emphasis is placed on artistic interpretation, spatial understanding and technical skills needed to communicate design concepts effectively for stage productions.
Prerequisite: THEA 11725 and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 42092 PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1-3 Credit Hours
(Repeatable for credit) Practical experience in theatre production under faculty supervision.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 42101 DYE TECHNIQUES AND FABRIC MODIFICATION 3 Credit Hours
(Slashed with THEA 52101) This course is designed to enable the artisan to identify fiber content and determine appropriate mediums for fabric dyeing. The course explores various techniques such as shabori, stamping, rubbing, and surface lifting in order to create special effects on fabrics. A collection of dye fabric samples and information will be created so student may use as a reference book.
Prerequisite: Junior standing; and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

THEA 42150 3D CHARACTERS: FOAM FABRICATION AND FIGURE FINISHING TECHNIQUES 3 Credit Hours
(Slashed with THEA 52150) This course provides knowledge and application of the different types of plastics/foams used for 3D character building. This course is designed to enable the artisan to work with a range of materials when building atypical pieces for costumes or props.
Prerequisite: Junior standing; and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

THEA 42192 PRACTICUM II: PERFORMANCE (ELR) 3 Credit Hours
(Repeatable for credit) Advanced practical experience in theatre performance under faculty supervision. Available for upper division students only.
Prerequisite: Junior or senior standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 42292 PRACTICUM II: THEATRE MANAGEMENT (ELR) 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre management under faculty/staff supervision. Available for upper division students only.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

THEA 42999 PORTHOUSE PERFORMANCE EXPERIENCE (ELR) 3 Credit Hours
(Repeatable for credit) Intensive advanced training in practical aspects of production at Porthouse Theatre. Periodic seminars, research, written work and laboratory sessions in preparation for performance in a theatre company.
Prerequisite: Major or minor in the School of Theatre and Dance.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

THEA 50091 VARIABLE TOPIC SEMINAR: DEVISING THEATRE 3 Credit Hours
A devised theatre event is work that has emerged and been generated by a group of people working in collaboration. Devising Theatre explores the processes of creating original performances defined and determined by its makers. Process and product originate from stimuli other than traditional play scripts. Students learn specialist techniques by developing solo and group performance pieces. Alternative modes of making theatre performances are considered.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 51010 THEATRE AND SOCIAL CHANGE 3 Credit Hours
(Slashed with THEA 41010) This course interweaves the history, theory, practice and play text development in the field of theatre and social change.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51026 PLAYWRITING 3 Credit Hours
(Repeatable once for credit) Principles underlying playwriting for the contemporary theatre; analysis of short play form.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51027 ADVANCED PLAYWRITING 3 Credit Hours
(Repeatable once for credit)(Slashed with THEA 41027) Application of principles of playwriting to the longer play and to variations from traditional realism;play analysis and composition.
Prerequisite: THEA 51026; and graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51089 INTERNATIONAL EXPERIENCE: THEATRE AND SOCIAL CHANGE IN CZECHIA 3 Credit Hours
(Slashed with THEA 41089)(Repeatable for credit) Using a combination of in-depth research and direct learning experiences, this course explores the intersection between theatre and socio-political change through the example of Czechoslovakia's history from the 1968 Prague Spring to the Velvet Revolution of 1989/90 and on through today's concerns of Western late-stage capitalism. Students study both historical and contemporary texts, as well as view productions while on a study abroad program.
Prerequisite: Graduate standing.
Schedule Type: International Experience, Lecture
Contact Hours: 2 lecture, 1 other
Grade Mode: Standard Letter

THEA 51095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit)Offered irregularly when unusual resources permit a topic.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

THEA 51113 THEATRE IN A MULTICULTURAL AMERICA 3 Credit Hours
A study of theatre and drama in the Native American, Hispanic American, African-American, and Asian American communities in the United States from 1980 to the present.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51115 LGBTQ THEATRE 3 Credit Hours
Studies of various theatrical representations of Lesbian, Gay, Bisexual, Transgender and Queer people as seen through the frameworks of history, gender theory, identity, politics, psychology, law, and justice.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51130 THEATRE AND DRAMA IN AMERICA 3 Credit Hours
The history of theatre and drama in America from their beginnings to the present.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51191 VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY 3 Credit Hours
(Repeatable for credit)Seminar focuses on selected topics in these areas, for example performance art, performance theory or theatre in a multicultural society.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 51301 ACTING FOR THE CAMERA I 3 Credit Hours
An introduction to the specific techniques used in film acting. The course provides students with the necessary tools to make the transition from stage acting to camera acting.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51302 ACTING FOR THE CAMERA II 3 Credit Hours
Further development on the specific techniques used in film acting as applied to the Graduate Actor. The course continues to assist in making the transition from stage acting to camera acting.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51303 ACTING I FOUNDATIONS/STANISLAVSKI AND MICHAEL CHEKHOV 3 Credit Hours
The Stanislavski and Michael Chekhov Techniques: A thorough exploration of Stanislavski's Method of Psycho-Physical Action, and the Michael Chekhov technique including atmosphere, psychological gesture, and qualities of movement.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 51304 ACTING II: SCENE STUDY-MODERN AMERICAN REALISM 3 Credit Hours
The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 51305 PROFESSIONAL ASPECTS: PERFORMANCE 3 Credit Hours
(Slashed with THEA 41305) A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51308 MUSICAL THEATRE AUDITION 2 Credit Hours
(Repeatable for a maximum of 4 credit hours) Explore the various genres and styles of American musical theatre songs with specific emphasis on finding practical audition repertoire for each student. Performance and research will be the primary activities in the class.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

THEA 51401 ADVANCED DIRECTING 3 Credit Hours
Advanced work in directing for the theatre. Topics include director as creative interpretative artist, the director and the actor. Students direct individual projects.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51420 THEATRICAL DRAFTING II 3 Credit Hours
(Slashed with THEA 41420) Advanced 2D and 3D drafting techniques for technical directors and theatre designers. Representation of scenery through drafting using current AutoCAD software.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51430 ADVANCED CONSTRUCTION THEORY 3 Credit Hours
(Slashed with THEA 41430) The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop, including reliably predicting the performance of untraditional, unusual or unfamiliar structures and use of mathematical models, formulas, and representative diagrams. Graduate Students will cover steel construction, and cables.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51440 SHOP MANAGEMENT 3 Credit Hours
(Slashed with THEA 41440) Study of resource management, both human and non-human, for professional and academic shops. Topics include scheduling, budgeting, health and safety, interactions with other theatre workers and leadership development.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51499 MUSICAL THEATRE SHOWCASE 2 Credit Hours
(Repeatable for credit) (Slashed with THEA 41499) Development, promotion and presentation of a Musical Theatre showcase for industry casting personnel in New York City. Audition required prior to registration for this course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 51521 ADVANCED LIGHTING TECHNOLOGY I 3 Credit Hours
Advanced study of the technologies used in lighting design; conventional and intelligent fixtures, electricity, projection techniques and special effects.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51522 DESIGN STUDIO: LIGHTING 3 Credit Hours
Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51523 SOUND DESIGN AND TECHNOLOGY I 3 Credit Hours
Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment, mixing consoles, amplifiers, speakers.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51524 DESIGN STUDIO: COSTUME 3 Credit Hours
Advanced study in costume design. Genres, styles, in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer/shop personnel and designer/ director.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51525 PROPS AND CRAFTS 3 Credit Hours
Examination of the processes related to the creation and procurement of scenic and costume props.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51526 ADVANCED LIGHTING TECHNOLOGY II 3 Credit Hours
(Slashed with THEA 41526) Course focuses both on the practice of intelligent lighting programming and the technology of intelligent lighting fixtures.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51527 SOUND AND DESIGN TECHNOLOGY II 3 Credit Hours
(Slashed with THEA 41527) Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored.
Prerequisite: THEA 51523; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51528 THEATRE SOUND REINFORCEMENT 3 Credit Hours
Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real time digital processing of audio. rerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51529 ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN 3 Credit Hours
Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51531 THEATRICAL RIGGING 3 Credit Hours
(Slashed with THEA 41531) Course is designed to teach students the principles of stage rigging, knot tying and counterweight rigging systems used in theatrical and other live entertainment situations. Students examine the process involved in overhead applications for the theatre industry. Students learn the proper method to design and rig in theatrical environments through the explanation of tools, equipment, hardware and safety practices.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51540 DRAPING FOR THE THEATRE I 3 Credit Hours
(Slashed with THEA 41540) The course is designed to provide an introduction to the basics of draping and building flat patterning techniques from this knowledge as they apply to theatre. More in-depth content for this graduate level course.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51541 DRAPING FOR THE THEATRE II 3 Credit Hours
(Slashed with THEA 41541) Course is designed to build upon skills developed in Draping for the Theatre I. Emphasis is placed on learning to drape over period undergarments such as corsetry, panniers, bustles, etc.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51560 THEATRE FABRICATION TECHNOLOGY 3 Credit Hours
History of technical production practice, materials theory and application in scenic construction technology.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51562 ADVANCED PROJECTION DESIGN 3 Credit Hours
(Slashed with THEA 41562) Studies in projection design, digital media, and related technologies. Advanced software applications will be explored.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51621 PRESENTATION MEDIA 3 Credit Hours
Advanced process techniques in rendering, model building and design presentation for the scenic costume and lighting designer in traditional and new media.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51622 DESIGN STUDIO:SCENERY 3 Credit Hours
Advanced study in scenic design. Explores genres, styles, performance spaces, including practical considerations.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51625 HISTORY OF COSTUME AND TEXTILES FOR THEATRE 3 Credit Hours
(Slashed with THEA 41625) This class is designed to give a global overview of the history of period costume and textiles from 1500 to 1990, a span of time that is most often used in theatrical production and broken down into commonly regarded “time periods” in the history of costume as well as looking at clothing history across various continents and regions. Emphasis is placed on how, as theatre practitioners, we can recreate the silhouettes of these periods and regions in ways that make sense to our audience using the textiles available today. We will also look at the social and cultural influences of clothing, recognition of historic silhouette, and focus how to utilize various tools needed to accurately research any given period or region.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51701 MOVEMENT, FORM AND SPACE I-THE ACTOR'S PHYSICAL INSTRUMENT 3 Credit Hours
Development of technical skills emphasizing the physical components of expressive action through integration of breath, voice and body conditioning.
Prerequisite: Special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 51702 MOVEMENT AND DANCE FOR ACTORS 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Designed to acquaint actors with theatre dance techniques and choreographic styles by concentrating on vernacular dances used throughout musical theatre. Course combines basic ballet, jazz, and tap terminology.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 51703 STAGE COMBAT 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Slashed with THEA 41703) Introductory course focuses on creating the illusion of violence for the stage and screen. Basic instruction is given in unarmed and armed stage combat. Emphasis is on the development of technique; the process of the work; and the performance, with a focus on safety, accuracy and the fundamental techniques recognized by the Society of American Fight Directors (SAFD). Basic techniques are incorporated into short scenes to provide experience performing fights in production.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 51734 COSTUME PRODUCTION MANAGEMENT 3 Credit Hours
(Slashed with THEA 41734) The course is designed to provide an introduction to managerial processes as they apply to costumes, the role of a shop manager, the role of a wardrobe supervisor and the wardrobe crew, the running of a smooth technical rehearsal and production.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51736 PRODUCTION AND STAGE MANAGEMENT 3 Credit Hours
Advanced investigation of the methodology used in stage managing professional theatrical productions and production management processes. Focus on production processes for various theatre, dance, opera and entertainment genres.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 51803 VOICE AND SPEECH I 3 Credit Hours
Practical study and application of voice and speech production for the actor into various styles of verse and prose, including heightened language and text.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 51804 MILLINERY TECHNIQUES 3 Credit Hours
(Slashed with THEA 41804) This course is designed to provide an introduction to the basics of millinery techniques. Emphasis is placed on essential millinery principles, quality millinery supplies and finishing techniques, as well as the design and patterning of a variety of hat wear.
Prerequisite: Graduate standing.
Schedule Type: Lecture, Combined Lecture and Studio, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

THEA 51808 ACTING STYLES I: SHAKESPEARE 3 Credit Hours
The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies, and scenes from Shakespeare.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 52040 SHOP MANAGEMENT 3 Credit Hours
(Slashed with THEA 42040) Course provides an in-depth exploration of the principles and practices of shop management specific to scenic and costume design, integrating foundational concepts of managerial science. Students learn about production processes, resource management, budgeting, organizational behavior, safety practices/OSHA requirements and strategic planning. The course emphasizes both theoretical frameworks and practical applications, preparing students for successful careers in theatrical production and management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 52062 PRESENTATION MEDIA 3 Credit Hours
(Slashed with THEA 42062) Course explores the fundamental skills in drawing, painting, drafting and model building specifically designed for theatre production. Students develop techniques in visualizing and constructing set and costume designs. Emphasis is placed on artistic interpretation, spatial understanding and technical skills needed to communicate design concepts effectively for stage productions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 52101 DYE TECHNIQUES AND FABRIC MODIFICATION 3 Credit Hours
(Slashed with THEA 42101) This course is designed to enable the artisan to identify fiber content and determine appropriate mediums for fabric dyeing. The course explores various techniques such as shabori, stamping, rubbing, and surface lifting in order to create special effects on fabrics. A collection of dye fabric samples and information will be created so student may use as a reference book.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

THEA 52150 THREE-DIMENSIONAL CHARACTERS: FOAM FABRICATION AND FIGURE FINISHING TECHNIQUES 3 Credit Hours
(Slashed with THEA 42150) This course provides knowledge and application of the different types of plastics/foams used for 3D character building. This course is designed to enable the artisan to work with a range of materials when building atypical pieces for costumes or props.
Prerequisite: Graduate Standing and special approval.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 4 lab
Grade Mode: Standard Letter

THEA 60196 INDIVIDUAL INVESTIGATION: HISTORIC TEXTILES 3 Credit Hours
(Repeatable for credit)Identification and analysis of textile fabric as the reflection of culture.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 60199 M.F.A. THESIS PROJECT 3 Credit Hours
(Repeatable for credit)Students must register for course during the semester of their M.F.A. thesis project.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Masters Thesis
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 60992 PROFESSIONAL THEATRE INTERNSHIP I 3,6 Credit Hours
(Repeatable once) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre Company.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 61000 INTRODUCTION TO GRADUATE STUDY IN THEATRE 3 Credit Hours
Orientation to bibliography and research in the field of theatre with emphasis on application of research to performance.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61051 GRADUATE PORTFOLIO REVIEW 1 Credit Hour
(Repeatable for credit) This review offers students the opportunity to develop and present a professional-level portfolio and related documentation that shows their development as graduate students in theatre design and technology. Students meet with their faculty advisors to develop their portfolios and receive verbal and written responses to their work. This feedback provides students a benchmark for how they will be assessed in the design technology industry.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 61094 COLLEGE TEACHING IN THEATRE 3 Credit Hours
(Repeatable for credit) Strategies for teaching, issues on implications of pedagogical practice and responsibilities of academic leadership.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61095 SPECIAL TOPICS 1-3 Credit Hours
(Repeatable for credit) Offered irregularly when unusual resources permit a topic different from existing courses. Topic are announced when scheduled.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

THEA 61096 INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA 1-4 Credit Hours
(Repeatable for a maximum of 6 credit hours) Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

THEA 61098 RESEARCH 1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's-level graduate students. Credits may be applied toward meeting degree requirements with school approval.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 61303 ACTING III SCENE STUDY: NATURALISM AND ABSURD 3 Credit Hours
In-depth scene study in the genres of Naturalism and Absurd theatre. Exploration of the works of Chekhov, Strindberg, Beckett and others.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 61305 ACTING STYLES II: GREEK AND COMEDY OF MANNERS 3 Credit Hours
Application of acting, movement and speech techniques to these specific genres. Focus on style and physicalization using Greek and English Restoration playwrights as well as Molière, Wilde and others.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61306 PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY 3 Credit Hours
A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects. Emphasis is placed on developing skills and materials for finding employment and the use of marketing communication techniques.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61309 MASTER OF FINE ARTS COMPREHENSIVE PROJECT IN ACTING 1-3 Credit Hours
Intensive work in the development of the practical aspects of production; includes performance or exhibition of work, documentation of that work in a format appropriate for area and project, and an exit interview.
Prerequisite: THEA 61000; and graduate standing; and special approval of instructor.
Schedule Type: Laboratory
Contact Hours: 3-9 lab
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 61310 MASTER OF FINE ARTS DESIGN AND TECHNOLOGY CULMINATING PROJECT 3 Credit Hours
An intensive experience in the development of design and/or technical aspects of a theatrical production; the scope of work may include but not necessarily be limited to research, drawings and drafting, renderings and associated digital image, video or audio files. Documentation (appropriate for the area and project) is presented at an exit interview.
Prerequisite: THEA 61000; and graduate standing; and special approval of instructor.
Schedule Type: Individual Investigation, Masters Thesis, Studio
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 61420 COLLABORATION IN PRODUCTION STUDIO 1 Credit Hour
Knowledge acquisition and the development of skills to create resolve and present well-reasoned theatrical design. Students will employ the design and production process, observation of deadlines, and collaboration with other designers and technical directors, as a structure to elevate production.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

THEA 61525 MILLINERY AND 3-D CHARACTERS 3 Credit Hours
Advanced studies of techniques of millinery construction and 3D character construction with an emphasis on current practice in the industry.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61528 DESIGN PROCESS AND COLLABORATION 3 Credit Hours
Introduction to the design process and collaboration in a theatrical production. Students have the opportunity to analyze best practices, strategies and the strengths and challenges of designers.
Prerequisite: THEA 61000; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61531 PERIOD STYLE FOR THEATRE DESIGNERS 3 Credit Hours
An exploration of the relationship of period style, historical context and the designer's artistic choices in contemporary interpretations of period plays.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61623 DIGITAL RENDERING THEATRE DESIGN 3 Credit Hours
Explores a variety of digital rendering methods for artistic 2D and 3D graphics visualization of theatrical design concepts.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 61701 MOVEMENT, FORM AND SPACE II-NEUTRAL AND CHARACTER MASK 3 Credit Hours
Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through performance in masks.
Prerequisite: THEA 51701; and graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 4 other
Grade Mode: Standard Letter

THEA 61703 MOVEMENT, FORM AND SPACE III 3 Credit Hours
Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through period movement. This course allows actors to effectively perform movement and styles from specific historical periods and genres.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Seminar, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

THEA 61803 VOICE AND SPEECH II 3 Credit Hours
Ongoing study and application of voice and speech technique into various styles of text, and the analysis and development of accents for performance and presentation.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 61804 VOICE AND SPEECH III 3 Credit Hours
Advanced study and application of voice and speech techniques, focusing on the extremes of vocal demands.
Prerequisite: THEA 51803; and graduate standing; and special approval.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

THEA 61806 SINGING FOR THE ACTOR 1 Credit Hour
A comprehensive study of performance techniques and repertoire appropriate to the singing actor.
Prerequisite: THEA 51801; and graduate standing; and special approval of instructor.
Schedule Type: Studio
Contact Hours: 1 other
Grade Mode: Standard Letter

THEA 61992 PROFESSIONAL THEATRE INTERNSHIP II 3,6 Credit Hours
(Repeatable for credit)Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a professional theatre company.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62000 INTRODUCTION TO GRADUATE STUDY IN THEATRE 3 Credit Hours
Course focuses on developing the academic and professional skills needed for success in a rigorous graduate program. Emphasis is placed on critical thinking, research methods, theatrical production processes, dramaturgy and effective teaching strategies. Students explore approaches to theatrical design, production and pedagogy, while also learning how to critically analyze dramatic works within a historical, cultural and theoretical context.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 62092 PRACTICUM: DESIGN/TECHNOLOGY 3 Credit Hours
(Repeatable for credit) Practical experience for the graduate student in theatre design and technology under faculty supervision.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62192 PRACTICUM: PERFORMANCE 3 Credit Hours
(Repeatable for credit) (Cross-listed with KBT 62192) Practical experience for the graduate student in theatre performance under faculty supervision.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Practical Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62292 PRACTICUM:THEATRE MANAGEMENT 3 Credit Hours
(Repeatable for a maximum of 12 credit hours) Practical experience for the graduate student in theatre management under faculty/staff supervision.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62392 PRACTICUM: PERORMANCE PEDAGOGY 1 Credit Hour
(Repeatable for credit) Advanced practical experience in theatre performance pedagogy under faculty supervision.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter

THEA 62892 THEATRE PRACTICUM 1 Credit Hour
(Repeatable twice for credit) Practical experience for the graduate student in cocurricular theatre activities, under faculty supervision.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Practical Experience
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 62992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours
(Repeatable for a maximum of 12 credit hours)(Slashed with THEA 72992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble.
Prerequisite: Graduate standing; and special approval of advisor.
Schedule Type: Practical Experience
Contact Hours: 1-6 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 63001 SCENIC DESIGN I: FOUNDATIONS IN SINGLE SET SCENIC DESIGN 2 Credit Hours
Introduction to the methodology and practice of professional scene design. Application of knowledge made through a series of design projects. Script Analysis, perspective rendering and model-making techniques will be emphasized for single set productions.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63002 SCENIC DESIGN II: ADVANCED SINGLE SET SCENIC DESIGN 2 Credit Hours
Inquiry to the methodology and practice of professional scene design. Application of knowledge will be through a series of complex design projects. Script analysis, drafting, perspective rendering and more advanced model-making techniques will be emphasized.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63003 SCENIC DESIGN III: DESIGNING BEYOND DRAMA 2 Credit Hours
An advanced approach to professional scene design as it applies to opera, musical theatre, and the entertainment industry. Advanced design communication techniques will be applied through a series of design projects. Textual analysis, conceptual unit/multi-set productions, storyboarding, and advanced visual communication/presentation techniques will be emphasized.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special permission.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63004 SCENIC DESIGN IV: ADVANCED MULTI-SETTING DESIGN 2 Credit Hours
An advanced approach to professional scene design as it applies to opera, musical theatre, and the entertainment industry in non-traditional spaces. Advanced design communication techniques will be applied through a series of design projects. Analysis, conceptual unit/multi-set productions, storyboarding, and advanced visual communication/presentation techniques will be emphasized.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special permission.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63005 SCENIC DESIGN V: ENTERTAINMENT AND PRODUCTION DESIGN 2 Credit Hours
An advanced approach to professional scene design as it applies to industrials,showrooms and the entertainment industry. Knowledge of techniques will be applied through a series of design projects, analysis, conceptual approaches, storyboarding, and advanced visual communication/presentation techniques. This course will focus on refinement of the theoretical and practical skills of the professional scenic designer.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63006 SCENIC DESIGN VI: NON-TRADITIONAL AND SITE-SPECIFIC PERFORMANCES 2 Credit Hours
An advanced approach to professional scene design as it applies to industrials and the entertainment industry. Site specific design communication techniques will be applied through a series of design projects. Analysis, conceptual approaches, storyboarding, and advanced visual communication/presentation techniques will be emphasized.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 63092 PRODUCTION COLLABORATION: SCENIC DESIGN 1-2 Credit Hours
(Repeatable for credit) Practical preparation, design and production work as applied to Scenic design within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in scene design. Repeatable to a maximum of 8 credits.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

THEA 63192 MENTORSHIP IN PERFORMANCE 3 Credit Hours
(Repeatable for a total of 6 credit hours) Development of advanced skills and abilities to mentor student performers in aspects of the profession, including professional behavior, understanding of the business and the actor's creative process. Major work done while participating in rehearsal and performance of main stage productions or assisting in THEA 41305/ THEA 51305. Students may take the course alongside THEA 62192.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 64001 THEATRE TECHNICAL DIRECTION I: FOUNDATIONS I 2 Credit Hours
Investigation of publications in the field of technical theatre and their relevance to examining the technical manager as planner, artist, creative thinker positive leader and colleague.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64002 THEATRE TECHNICAL DIRECTION II: FOUNDATIONS II 2 Credit Hours
Continued Investigation of publications in the field of technical theatre and their relevance to examining the technical manager as planner, artist, creative thinker positive leader and colleague.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64003 THEATRE TECHNICAL DIRECTION III: TOURING PRODUCTIONS 2 Credit Hours
Course covers the logistics of transporting a theatrical production, the concepts and needs of touring productions, and different construction techniques needed for disassembly and quick reassembly.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64004 THEATRE TECHNICAL DIRECTION IV: EDUCATIONAL THEATRE 2 Credit Hours
Examination of the roles of the technical director in academia, including the evolution of and current state of technical theatre education. Course will explore the work and presentations of the USITT Education Commission.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64005 THEATRE TECHNICAL DIRECTION V: MECHANICS AND AUTOMATION 2 Credit Hours
Examination of the techniques and applications of automated scenery and stage mechanics.
Prerequisite: Graduate Standing in the School of Theatre & Dance and special permission.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64006 THEATRE TECHNICAL DIRECTION VI: HEALTH AND SAFETY 2 Credit Hours
Focus on the health & safety concerns of live performance, including the organizations OSHA, NFPS, ANSI, Red Cross, their protocols and their relation to theatre.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 64092 PRODUCTION COLLABORATION: TECHNICAL DIRECTION 1-2 Credit Hours
(Repeatable for credit) Practical preparation, design and production work as applied to technical direction within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in technical direction. Repeatable to a maximum of 8 credits.
Prerequisite: Graduate standing in the School of Theatre and Dance.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

THEA 64192 MENTORSHIP AT PORTHOUSE 3 Credit Hours
(Repeatable for a total of 6 credit hours) Development of advanced skills and abilities to mentor student performers in aspects of the profession, including professional behavior, understanding of the business and the actor's creative process. Major work done while participating in rehearsal of Porthouse Theatre productions. Students may take the course alongside THEA 62192.
Prerequisite: Graduate standing; and special approval of instructor.
Schedule Type: Practical Experience
Contact Hours: 6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

THEA 65000 HISTORY, HISTORICISM, THEORY AND PRACTICE IN THEATRE AND DRAMA 3 Credit Hours
Course covers the breadth of theatre history and historicism and application of theatre theory to practice by focusing on the six major stylistic periods: Greek and Roman, Medieval, Renaissance, Romanticism, Realism and Non Realism (symbolism, expressionism, surrealism, absurdism) and contemporary period (postmodernism, feminism and interculturalism, multiculturalism). Using lecture, scholarly articles, video viewing and practical writing projects, students learn about and practice each style, as well appl the style to students' respective areas of graduate study (i.e. actor, director, designer).
Prerequisite: THEA 61000; and graduate standing; and special approval.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

THEA 65001 LIGHTING DESIGN I: DRAMA 2 Credit Hours
Advanced exploration and development of artistic processes and method for lighting design in drama.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65002 LIGHTING DESIGN II: MUSICAL THEATRE 2 Credit Hours
Advanced exploration and development of artistic processes and methods for lighting design in musical theatre.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65003 LIGHTING DESIGN III: DANCE AND OPERA 2 Credit Hours
Advanced exploration and development of artistic processes and methods for lighting design in classical and contemporary dance and opera.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65004 LIGHTING DESIGN IV: NON-TRADITIONAL PRODUCTIONS 2 Credit Hours
Exploration and development of artistic processes and methods in lighting design for non- traditional works, including multidisciplinary and devised productions.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65005 LIGHTING DESIGN V: ARCHITECTURAL AND INTERIOR LIGHTING 2 Credit Hours
Exploration and development of artistic processes and methods in lighting design for architectural and commercial interiors.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65006 LIGHTING DESIGN VI: NEW TECHNOLOGY 2 Credit Hours
Exploration of innovative technology and technological tools and their application to lighting design. The course includes exploration of non-conventional, automated, projection and LED technologies.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 65092 PRODUCTION COLLABORATION: LIGHTING DESIGN 1-2 Credit Hours
(Repeatable for credit) Practical preparation, design and production work as applied to lighting design within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in lighting. Repeatable to a maximum of 8 credits.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

THEA 65192 TEACHING PRACTICUM 1-6 Credit Hours
(Repeatable for credit) Application of strategies for teaching at the college level. Development of advanced skills in course preparation, classroom management and pedagogical practice. Major work done teaching or assisting with undergraduate classes.
Prerequisite: THEA 62000; and graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3.6-21.6 other
Grade Mode: Satisfactory/Unsatisfactory

THEA 66001 COSTUME DESIGN I: SCRIPT ANALYSIS 2 Credit Hours
Exploration and development of different methods and artistic processes for costume design. By focusing on textual analysis, the costume student will be able to explore a wide variety of performance types.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66002 COSTUME DESIGN II: PERFORMANCE GENRES 2 Credit Hours
Exploration and development of different methods and artistic processes for costume design in diverse genres, including dance, opera, and circus.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66003 COSTUME DESIGN III: THEATRICAL STYLES 2 Credit Hours
Advanced exploration of costume designs which incorporate both historical and thematic stylized conventions.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66004 COSTUME DESIGN IV: ADVANCED RENDERING 2 Credit Hours
Development of advanced figure drawing study and rendering techniques in order to strengthen the student's skill and facility in producing costume renderings.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66005 COSTUME DESIGN V: RESEARCH METHODS 2 Credit Hours
Intensive focus on the variety of research methodologies and their application to both contemporary and period costume designs.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66006 COSTUME DESIGN VI: TEXTILES 2 Credit Hours
An understanding of the appropriate application of many common and specialty fabrics used in costume design.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

THEA 66092 PRODUCTION COLLABORATION: COSTUME DESIGN/ TECHNOLOGY 1-2 Credit Hours
(Repeatable for credit) Practical preparation, design and production work as applied to Costuming within the School of Theatre and Dance.This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in costumes. Repeatable to a maximum of 8 credits.
Prerequisite: Graduate standing in the School of Theatre and Dance; and special approval.
Schedule Type: Practical Experience
Contact Hours: 3-6 other
Grade Mode: Standard Letter

THEA 72992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours
(Repeatable for a total of 12 credit hours)(Slashed with THEA 62992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble.
Prerequisite: Doctoral standing and special approval of advisor.
Schedule Type: Lecture, Practical Experience
Contact Hours: 1-6 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

Acting - M.F.A.

College of the Arts
School of Theatre and Dance
www.kent.edu/theatredance

About This Program

The Master of Fine Arts degree in Acting is intended for the returning professional and mentors seasoned professional performers who wish to focus on refining and articulating their acting process, while gaining sound pedagogical practice in performance. The two-year terminal degree provides candidates with a set of core classes centered around a variety of techniques and theories, within a flexible pedagogical laboratory model. Returning professional students are offered ample opportunity to hone performance and explore teaching skills as they earn a terminal M.F.A. degree in pursuit of employment.

Contact Information

- **Amy Fritsche** | afritsch@kent.edu | 330-672-0112
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery

- **Delivery**
  - In person
- **Location**
  - Kent Campus

Applications to the M.F.A. in Acting are not being accepted at this time.

Examples of Possible Careers and Salaries*

Actors

- 3.1% about as fast as the average
- 70,100 number of jobs
- $N/A potential earnings

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Miscellaneous entertainers and performers, sports and related workers

- 4.2% about as fast as the average
- 33,300 number of jobs
- $N/A potential earnings

Accreditation

National Association of Schools of Theatre (NAST)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.F.A. in Acting are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation
- Evidence of professional experience[1]
- Audition
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[2]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] Required evidence in support of admission may include, but not limited to, Broadway, regional, and/or international performance credits; film and television credits; awards of national recognition; professional union affiliation; publication in the field of expertise; significant record

of mentoring; and certifications and/or designations in areas such as acting, voice and speech or stage combat. Program faculty will evaluate the submitted documentation of professional experience and determine eligibility for the M.F.A. degree.

[2] International applicants who do not meet the above test scores may be considered for conditional admission.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
THEA 51010	THEATRE AND SOCIAL CHANGE	3
or THEA 51113	THEATRE IN A MULTICULTURAL AMERICA	
or THEA 51115	LGBTQ THEATRE	
or THEA 51191	VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY	
THEA 51303	ACTING I FOUNDATIONS/STANISLAVSKI AND MICHAEL CHEKHOV	3
THEA 51304	ACTING II: SCENE STUDY-MODERN AMERICAN REALISM	3
THEA 51305	PROFESSIONAL ASPECTS: PERFORMANCE	3
THEA 51701	MOVEMENT, FORM AND SPACE I-THE ACTOR'S PHYSICAL INSTRUMENT	3
THEA 51803	VOICE AND SPEECH I	3
THEA 51808	ACTING STYLES I: SHAKESPEARE	3
THEA 60992	PROFESSIONAL THEATRE INTERNSHIP I	3
or THEA 61992	PROFESSIONAL THEATRE INTERNSHIP II	
THEA 61000	INTRODUCTION TO GRADUATE STUDY IN THEATRE	3
THEA 61094	COLLEGE TEACHING IN THEATRE [1]	0-3
THEA 61305	ACTING STYLES II: GREEK AND COMEDY OF MANNERS	3
THEA 61701	MOVEMENT, FORM AND SPACE II-NEUTRAL AND CHARACTER MASK	3
THEA 61803	VOICE AND SPEECH II	3
THEA 62192	PRACTICUM: PERFORMANCE (must be taken two times)	6
THEA 62392	PRACTICUM: PERORMANCE PEDAGOGY (must be taken three times)	3
THEA 65000	HISTORY, HISTORICISM, THEORY AND PRACTICE IN THEATRE AND DRAMA	3
Major Electives, choose from the following:		9
THEA 51095	SPECIAL TOPICS	
THEA 51191	VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY	
THEA 51301	ACTING FOR THE CAMERA I	
THEA 51302	ACTING FOR THE CAMERA II	
THEA 51401	ADVANCED DIRECTING	
THEA 51703	STAGE COMBAT	
THEA 61095	SPECIAL TOPICS	
THEA 61096	INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA	
THEA 61098	RESEARCH	
THEA 61303	ACTING III SCENE STUDY: NATURALISM AND ABSURD	
THEA 61531	PERIOD STYLE FOR THEATRE DESIGNERS	
THEA 61703	MOVEMENT, FORM AND SPACE III	
THEA 61804	VOICE AND SPEECH III	
THEA 61806	SINGING FOR THE ACTOR	
THEA 65192	TEACHING PRACTICUM	
Culminating Requirement		
THEA 60199	M.F.A. THESIS PROJECT	3
Minimum Total Credit Hours:		**60**

[1] THEA 61094 is required for teaching assistants only; minimum total credit hours for degree completion will be 63.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
THEA 51303	ACTING I FOUNDATIONS/STANISLAVSKI AND MICHAEL CHEKHOV	3
THEA 51701	MOVEMENT, FORM AND SPACE I-THE ACTOR'S PHYSICAL INSTRUMENT	3
THEA 51803	VOICE AND SPEECH I	3
THEA 61094	COLLEGE TEACHING IN THEATRE	3
or Major Elective		
THEA 62392	PRACTICUM: PERORMANCE PEDAGOGY	1
	Credit Hours	**13**
Semester Two		
THEA 51010 or THEA 51113 or THEA 51115 or THEA 51191	THEATRE AND SOCIAL CHANGE or THEATRE IN A MULTICULTURAL AMERICA or LGBTQ THEATRE or VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY	3
THEA 51304	ACTING II: SCENE STUDY-MODERN AMERICAN REALISM	3
THEA 61000	INTRODUCTION TO GRADUATE STUDY IN THEATRE	3
THEA 61803	VOICE AND SPEECH II	3
THEA 62192	PRACTICUM: PERFORMANCE	3
	Credit Hours	**15**
First Summer Term		
THEA 60992 or THEA 61992	PROFESSIONAL THEATRE INTERNSHIP I or PROFESSIONAL THEATRE INTERNSHIP II	3
	Credit Hours	**3**
Semester Three		
THEA 51305	PROFESSIONAL ASPECTS: PERFORMANCE	3
THEA 51808	ACTING STYLES I: SHAKESPEARE	3

THEA 61701	MOVEMENT, FORM AND SPACE II-NEUTRAL AND CHARACTER MASK	3
THEA 62392	PRACTICUM: PERORMANCE PEDAGOGY	1
THEA 65000	HISTORY, HISTORICISM, THEORY AND PRACTICE IN THEATRE AND DRAMA	3
	Credit Hours	**13**
Semester Four		
THEA 60199	M.F.A. THESIS PROJECT	3
THEA 61305	ACTING STYLES II: GREEK AND COMEDY OF MANNERS	3
THEA 62392	PRACTICUM: PERORMANCE PEDAGOGY	1
THEA 62192	PRACTICUM: PERFORMANCE	3
Major Electives		6
	Credit Hours	**16**
	Minimum Total Credit Hours:	**60**

Program Learning Outcomes

Graduates of this program will be able to:

1. Employ a broad range of acting knowledge and skills in the creation and presentation of roles.
2. Perform in plays of various types and from various periods.
3. Acquire advanced capabilities in acting, voice and speech, movement, theatre history and pedagogy.
4. Apply sound pedagogical practices to aspects of theatre or performance studies.
5. Demonstrate professionalism in an acting setting.

Dance - B.F.A.

College of the Arts
School of Theatre and Dance - Dance Division
www.kent.edu/theatredance

About This Program

Pursue your passion for dance with the Dance B.F.A. program. Develop your skills as a performer and choreographer and prepare for a career in the dance industry. Read more...

Contact Information

- **Tony Hardin** | ahardi14@kent.edu
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Choreographers

- 14.0% much faster than the average
- 5,500 number of jobs
- $43,680 potential earnings

Dancers

- 2.3% slower than the average
- 11,400 number of jobs
- $N/A potential earnings

Accreditation

National Association of Schools of Dance (NASD)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this major is selective. Students must audition before being admitted to the Dance major. More information about dance auditions can be found on the school website.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
DAN 27074	DANCE COMPOSITION I	3
DAN 27150	KINESIOLOGY FOR DANCERS	3
DAN 37035	DANCE COMPOSITION II	2
DAN 37070	DANCE COMPOSITION III	2
DAN 37072	DANCE AND TECHNOLOGY	2
DAN 37092	KENT DANCE ENSEMBLE (ELR) (taken six times) [1]	6
or DAN 37192	DANCE PRACTICUM - PERFORMANCE (ELR)	

DAN 37292	DANCE PRACTICUM - TEACHING (ELR)	1
DAN 37392	DANCE PRACTICUM - CHOREOGRAPHY (ELR)	1
DAN 47050	BALLET 4	1-3
DAN 47051	MODERN 4	1-3
DAN 47060	PROFESSIONAL ASPECTS IN DANCE	2
DAN 47063	DANCE HISTORY I	3
DAN 47070	JAZZ 4	2
DAN 47163	DANCE HISTORY II (WIC) [2]	3
DAN 47299	BACHELOR OF FINE ARTS CAPSTONE (ELR)	1-3
MUS 22111	UNDERSTANDING WESTERN MUSIC (KFA)	3
or MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
THEA 11725	FUNDAMENTALS OF THEATRE DESIGN AND PRODUCTION	3
Dance (DAN) Upper-Division Elective (30000 or 40000 level)		1-3
Ballet Electives, choose from the following: [3]		12
DAN 17011	BALLET 1	
DAN 27050	BALLET 2	
DAN 37069	BALLET 3	
DAN 47050	BALLET 4	
Modern Electives, choose from the following: [3]		12
DAN 17002	MODERN 1	
DAN 27051	MODERN 2	
DAN 37051	MODERN 3	
DAN 47051	MODERN 4	
Jazz Electives, choose from the following: [3, 4]		6
DAN 17005	JAZZ 1	
DAN 27070	JAZZ 2	
DAN 37148	JAZZ 3	
DAN 47070	JAZZ 4	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		3-4
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		16
Minimum Total Credit Hours:		**120**

1 Students must take a minimum six semesters of DAN 37092 or DAN 37192. Maximum 8 credit hours of DAN 37192 may be applied toward major requirements.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

3 Students must be enrolled in a minimum of one 90-minute daily dance technique course each semester. Promotion to the next level of technique is at the discretion of the dance faculty. Students may take technique courses an unlimited number of times for credit toward their program requirements.

4 Students may substitute a musical theatre dance style course for any of the four required semesters of jazz with approval.

Progression Requirements

- Promotion to the next level is at the discretion of the dance faculty. Students must be enrolled in daily 90-minute dance technique courses each semester until graduation.
- All ballet and modern courses must be taken for a minimum 2 credit hours.
- Students enter on a probationary status and must maintain GPA requirements and professional standards as indicated in the student handbook in order to be allowed to audition for concerts and progress through to graduation.
- All students in the Dance major must audition for and perform when cast in all Dance Division concerts. Students may petition for an exception due to either injury or an approved performance opportunity outside of Kent State.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

- Students must participate in dance faculty juries and an annual review.
- Successful completion of DAN 47299 (culminating experience) is required.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
DAN 37092 or DAN 37192	KENT DANCE ENSEMBLE (ELR) or DANCE PRACTICUM - PERFORMANCE (ELR)	1
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
THEA 11725	FUNDAMENTALS OF THEATRE DESIGN AND PRODUCTION	3
UC 10001	FLASHES 101	1
Jazz Elective		2
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
DAN 37092 or DAN 37192	KENT DANCE ENSEMBLE (ELR) or DANCE PRACTICUM - PERFORMANCE (ELR)	1
DAN 47063	DANCE HISTORY I	3
Ballet Electives		3
Jazz Elective		2
Modern Electives		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
DAN 27074	DANCE COMPOSITION I	3
DAN 37092 or DAN 37192	KENT DANCE ENSEMBLE (ELR) or DANCE PRACTICUM - PERFORMANCE (ELR)	1

MUS 22111 or MUS 22121	UNDERSTANDING WESTERN MUSIC (KFA) or MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
Ballet Electives		3
Modern Electives		3
Dance (DAN) Upper-Division Elective (30000 or 40000 level)		1-3
	Credit Hours	**14**
Semester Four		
DAN 27150	KINESIOLOGY FOR DANCERS	3
DAN 37035	DANCE COMPOSITION II	2
DAN 37092 or DAN 37192	KENT DANCE ENSEMBLE (ELR) or DANCE PRACTICUM - PERFORMANCE (ELR)	1
Ballet Electives		3
Jazz Elective		2
Modern Electives		3
	Credit Hours	**14**
Semester Five		
DAN 37070	DANCE COMPOSITION III	2
DAN 37092 or DAN 37192	KENT DANCE ENSEMBLE (ELR) or DANCE PRACTICUM - PERFORMANCE (ELR)	1
DAN 47070	JAZZ 4	2
Ballet Electives		3
Modern Electives		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Six		
DAN 37072	DANCE AND TECHNOLOGY	2
DAN 37392	DANCE PRACTICUM - CHOREOGRAPHY (ELR)	1
DAN 47050 or DAN 47051	BALLET 4 or MODERN 4	1-3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
	Credit Hours	**16**
Semester Seven		
DAN 37292	DANCE PRACTICUM - TEACHING (ELR)	1
DAN 47050 or DAN 47051	BALLET 4 or MODERN 4	1-3
DAN 47060	PROFESSIONAL ASPECTS IN DANCE	2
DAN 47163	DANCE HISTORY II (WIC)	3
Kent Core Requirement		3
General Electives		5
	Credit Hours	**15**
Semester Eight		
DAN 37092 or DAN 37192	KENT DANCE ENSEMBLE (ELR) or DANCE PRACTICUM - PERFORMANCE (ELR)	1
DAN 47299	BACHELOR OF FINE ARTS CAPSTONE (ELR)	1-3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		5
	Credit Hours	**16**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Perform a wide range of dance works with an intentional focus on the inclusion of Western and non-Western dance forms.
2. Articulate and communicate an embodied understanding of diverse dance forms; their histories, including the role of oppression; and their relationship and representation in the contemporary era of dance.
3. Articulate and demonstrate dance theory, aesthetics, pedagogy and choreography.
4. Create, revise, reflect and present choreography.

Program Policies
Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

Full Description

The Bachelor of Fine Arts degree in Dance develops technically sound, intellectually diverse and creatively expressive dance artists who can contribute significantly to the art form and society. The curriculum provides students with opportunities for strong and varied technical preparation in contemporary dance forms, including modern, ballet, jazz and improvisation. Opportunities for performance and choreography, along with dance theory courses, complete a degree focused on the artist/scholar.

Dance - Minor

College of the Arts
School of Theatre and Dance - Dance Division
www.kent.edu/theatredance

About This Program

The Dance minor provides students with an understanding of dance through its contemporary applications.

Students are eligible to begin in level 1 dance courses without auditioning. Students may audition for higher-level placement.

Contact Information

- **Tony Hardin** | ahardi14@kent.edu
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements
Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
Dance (DAN) Lower-Division Electives, choose from the following: [1]		9
DAN 17001	INTRODUCTION TO MODERN	
DAN 17002	MODERN 1	
DAN 17004	INTRODUCTION TO JAZZ	
DAN 17005	JAZZ 1	
DAN 17007	TAP 1	
DAN 17008	TAP 2	
DAN 17009	TAP 3	
DAN 17010	INTRODUCTION TO BALLET	
DAN 17011	BALLET 1	
DAN 17013	AFRICAN DANCE 1	
DAN 17016	SWING DANCE 1	
DAN 17019	HIP HOP 1	
DAN 17020	HIP HOP 2	
DAN 17049	FUNDAMENTALS OF DANCE AND MOVEMENT	
DAN 17055	MEN'S BALLET	
DAN 27050	BALLET 2	
DAN 27051	MODERN 2	
DAN 27070	JAZZ 2	
DAN 27074	DANCE COMPOSITION I	
DAN 27150	KINESIOLOGY FOR DANCERS	
Dance (DAN) Upper-Division Electives, choose from the following: [1]		6
DAN 37010	DANCE PEDAGOGY	
DAN 37020	TEACHING DANCE AND MOVEMENT FOR NONTRADITIONAL POPULATIONS	
DAN 37035	DANCE COMPOSITION II	
DAN 37051	MODERN 3	
DAN 37069	BALLET 3	
DAN 37070	DANCE COMPOSITION III	
DAN 37072	DANCE AND TECHNOLOGY	
DAN 37100	POINTE 1	
DAN 37148	JAZZ 3	
DAN 37192	DANCE PRACTICUM - PERFORMANCE (ELR) [2]	
DAN 47050	BALLET 4	
DAN 47051	MODERN 4	
DAN 47060	PROFESSIONAL ASPECTS IN DANCE	
DAN 47063	DANCE HISTORY I	
DAN 47070	JAZZ 4	
DAN 47095	SPECIAL TOPICS IN DANCE	
DAN 47163	DANCE HISTORY II (WIC)	

DAN 47196	INDIVIDUAL INVESTIGATION IN DANCE	
Minimum Total Credit Hours:		**15**

[1] Any physical practice Dance (DAN) courses may be repeated toward minor requirements. Students must receive permission for placement into the course levels beyond one.

[2] An additional concert audition may be required for DAN 37192.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Articulate dance aesthetics and technique.
2. Perform positions and movement phrases in one or more dance genres.
3. Articulate appropriate dance terminology and vocabulary.

Dance Studies - B.A.

College of the Arts
School of Theatre and Dance - Dance Division
www.kent.edu/theatredance

About This Program

Explore dance studies with Kent State's B.A. program. Study the cultural, historical and social aspects of dance and gain an understanding of how it shapes society. Read more...

Contact Information

- **Tony Hardin** | ahardi14@kent.edu
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Choreographers

- 14.0% much faster than the average
- 5,500 number of jobs
- $43,680 potential earnings

Dancers

- 2.3% slower than the average
- 11,400 number of jobs
- $N/A potential earnings

Tutors and teachers and instructors, all other

- 7.4% faster than the average
- 406,200 number of jobs
- $40,590 potential earnings

Accreditation

National Association of Schools of Dance (NASD)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
DAN 27074	DANCE COMPOSITION I	3
DAN 27150	KINESIOLOGY FOR DANCERS	3
DAN 37010	DANCE PEDAGOGY	3
or DAN 37020	TEACHING DANCE AND MOVEMENT FOR NONTRADITIONAL POPULATIONS	
DAN 37035	DANCE COMPOSITION II	2
DAN 37072	DANCE AND TECHNOLOGY	2
DAN 37092	KENT DANCE ENSEMBLE (ELR) (taken three times) [1]	3
or DAN 37192	DANCE PRACTICUM - PERFORMANCE (ELR)	
DAN 37392	DANCE PRACTICUM - CHOREOGRAPHY (ELR)	1
DAN 47063	DANCE HISTORY I	3
DAN 47163	DANCE HISTORY II (WIC) [2]	3
DAN 47199	BACHELOR OF ARTS CAPSTONE (ELR)	1-3
MUS 22111	UNDERSTANDING WESTERN MUSIC (KFA)	3
or MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
THEA 11725	FUNDAMENTALS OF THEATRE DESIGN AND PRODUCTION	3
Ballet Electives, choose from the following:		4
DAN 17010	INTRODUCTION TO BALLET	
DAN 17011	BALLET 1	
DAN 27050	BALLET 2	
DAN 37069	BALLET 3	
DAN 47050	BALLET 4	
Jazz Electives, choose from the following:		4
DAN 17004	INTRODUCTION TO JAZZ	
DAN 17005	JAZZ 1	
DAN 27070	JAZZ 2	
DAN 37148	JAZZ 3	
DAN 47070	JAZZ 4	
Modern Electives, choose from the following:		4
DAN 17001	INTRODUCTION TO MODERN	
DAN 17002	MODERN 1	
DAN 27051	MODERN 2	
DAN 37051	MODERN 3	
DAN 47051	MODERN 4	
Additional Technique Elective, choose from the following: [3]		1-3
DAN 17007	TAP 1	
DAN 17008	TAP 2	
DAN 17009	TAP 3	
DAN 17013	AFRICAN DANCE 1	
DAN 17019	HIP HOP 1	
DAN 17020	HIP HOP 2	
DAN 27080	MUSICAL THEATRE JAZZ AND TAP I	
DAN 37069	BALLET 3	
DAN 37080	MUSICAL THEATRE JAZZ AND TAP II	
DAN 37100	POINTE 1	
DAN 47050	BALLET 4	
DAN 47051	MODERN 4	
DAN 47070	JAZZ 4	
DAN 47081	MUSICAL THEATRE DANCE STYLES II	
DAN 47095	SPECIAL TOPICS IN DANCE	
DAN 47196	INDIVIDUAL INVESTIGATION IN DANCE	
Additional Requirements (courses do not count in GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		3-4
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [4]		43
Minimum Total Credit Hours:		**120**

1 Maximum 8 credit hours of DAN 37192 may be applied toward the major.

2 A minimum C grade must be earned to fulfill the writing-intensive requirement.

3 Promotion to the next level of technique is at the discretion of the dance faculty.

4 Students must complete a minimum 15 elective credit hours of courses related to a secondary area of inquiry or in an undergraduate minor.

Progression Requirements

- Promotion to the next level is at the discretion of the dance faculty.
- All students in the major must audition for all Dance Division concerts. To perform in the concert, students must be enrolled in a minimum of one dance technique course during the semester of the concert.
- Students enter on a probationary status and must maintain GPA requirements and professional standards as indicated in the student handbook in order to be allowed to audition for concerts and progress through to graduation.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

- All majors must participate in dance faculty juries and an annual review.

- All graduates must successfully complete a course of study that includes a minimum of 15 credit hours related to a subject or in an undergraduate minor chosen by the student.
- All graduates must complete a project or presentation through DAN 47199 that demonstrates knowledge of dance and the additional subject chosen by the student.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
DAN 37092 or DAN 37192	KENT DANCE ENSEMBLE (ELR) or DANCE PRACTICUM - PERFORMANCE (ELR)	1
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
UC 10001	FLASHES 101	1
Ballet or Jazz or Modern Electives		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Two		
DAN 47063	DANCE HISTORY I	3
THEA 11725	FUNDAMENTALS OF THEATRE DESIGN AND PRODUCTION	3
Ballet or Jazz or Modern Electives		4
General Electives		5
	Credit Hours	**15**
Semester Three		
DAN 27074	DANCE COMPOSITION I	3
DAN 37092 or DAN 37192	KENT DANCE ENSEMBLE (ELR) or DANCE PRACTICUM - PERFORMANCE (ELR)	1
MUS 22111 or MUS 22121	UNDERSTANDING WESTERN MUSIC (KFA) or MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
Ballet or Jazz or Modern Electives		4
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**17**
Semester Four		
DAN 27150	KINESIOLOGY FOR DANCERS	3
DAN 37035	DANCE COMPOSITION II	2
Kent Core Requirement		3
General Electives		6
	Credit Hours	**14**
Semester Five		
Additional Technique Elective		1-3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		5
	Credit Hours	**15**
Semester Six		
Requirement: present choreography at Student Dance Festival		
DAN 37010 or DAN 37020	DANCE PEDAGOGY or TEACHING DANCE AND MOVEMENT FOR NONTRADITIONAL POPULATIONS	3
DAN 37072	DANCE AND TECHNOLOGY	2
DAN 37392	DANCE PRACTICUM - CHOREOGRAPHY (ELR)	1
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
	Credit Hours	**15**
Semester Seven		
DAN 47163	DANCE HISTORY II (WIC)	3
General Electives		12
	Credit Hours	**15**
Semester Eight		
DAN 37092 or DAN 37192	KENT DANCE ENSEMBLE (ELR) or DANCE PRACTICUM - PERFORMANCE (ELR)	1
DAN 47199	BACHELOR OF ARTS CAPSTONE (ELR)	1-3
General Electives		12
	Credit Hours	**14**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7

Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

School of Theatre and Dance - Theatre Division
www.kent.edu/theatredance

Program Learning Outcomes

Graduates of this program will be able to:

1. Perform a wide range of dance works within Western and non-Western dance forms.
2. Articulate and communicate an embodied understanding of diverse dance forms; their histories, including the role of oppression; and their relationship and representation in the contemporary era of dance.
3. Articulate and demonstrate dance theory, aesthetics, pedagogy and choreography.
4. Create, revise, reflect and present choreography.
5. Articulate a relationship between their dance studies and a secondary concentration, minor or double major, as applicable.

Program Policies

Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

Full Description

The Bachelor of Arts degree in Dance Studies allows students who have previous dance experience and a strong interest in another subject area, within or outside of the arts, the opportunity to combine the two into one plan of study. The curriculum provides students with a solid foundation in dance techniques and dance academics while allowing flexibility to incorporate another area or minor.

The B.A. degree program encourages exploration of areas that can be combined with dance to enhance opportunities for future employment.

Musical Theatre - B.F.A.

College of the Arts

About This Program

If you dream of performing on Broadway or in national tours, Kent State's Musical Theatre program can help make that a reality. This intensive program provides rigorous training in acting, singing and dancing, as well as opportunities to perform in front of live audiences. With a curriculum designed to prepare you for a career in musical theatre, this B.F.A. degree is the perfect choice for aspiring performers. Read more...

Contact Information

- **Terri Kent** | tkent@kent.edu | 330-672-0107
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Actors

- 3.1% about as fast as the average
- 70,100 number of jobs
- $N/A potential earnings

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Dancers

- 2.3% slower than the average
- 11,400 number of jobs
- $N/A potential earnings

Miscellaneous entertainers and performers, sports and related workers

- 4.2% about as fast as the average
- 33,300 number of jobs
- $N/A potential earnings

Music directors and composers

- 1.7% slower than the average
- 58,000 number of jobs
- $52,250 potential earnings

Musicians and singers

- 0.9% little or no change
- 175,600 number of jobs
- $N/A potential earnings

Producers and directors

- 10.0% much faster than the average
- 159,500 number of jobs
- $76,400 potential earnings

Accreditation

National Association of Schools of Theatre (NAST)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this major is selective. Applicants must pass an audition in each of the three performance areas — dance, singing and acting — to be admitted. Students who pass the audition are admitted directly into the major in the first semester of their first year at Kent State. In exceptional cases, students may be admitted to the program in the second semester of their first year.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
MUS 17111	PIANO CLASS I	1
MUS 17112	PIANO CLASS II	1
THEA 11002	MUSICAL THEATRE PERFORMANCE I	3
THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	2
THEA 11725	FUNDAMENTALS OF THEATRE DESIGN AND PRODUCTION	3
THEA 20102	MUSIC THEORY FOR MUSICAL THEATRE I	2
THEA 20103	MUSIC THEORY FOR MUSICAL THEATRE II	2
THEA 20204	EAR TRAINING AND SIGHT SINGING FOR MUSICAL THEATRE I	1
THEA 20205	EAR TRAINING AND SIGHT SINGING FOR MUSICAL THEATRE II	1
THEA 21002	MUSICAL THEATRE PERFORMANCE II	3
THEA 21303	ACTING PROCESS	3
THEA 31030	GLOBAL THEATRE HISTORIES	3
THEA 31200	APPLIED VOICE FOR MUSICAL THEATRE (taken six times)	12
THEA 31303	CHARACTER AND SCENE STUDY I	3
THEA 31304	CHARACTER AND SCENE STUDY II	3
THEA 32002	MUSICAL THEATRE PERFORMANCE III	3
THEA 41115	LGBTQ THEATRE (DIVD)	3
or THEA 41130	THEATRE AND DRAMA IN AMERICA	
THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC) [1]	3
THEA 42002	MUSICAL THEATRE PERFORMANCE IV	3
THEA 42092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	1
THEA 42999	PORTHOUSE PERFORMANCE EXPERIENCE (ELR)	3
Dance Electives, choose from the following: [2]		12
DAN 17001	INTRODUCTION TO MODERN	
DAN 17002	MODERN 1	
DAN 17004	INTRODUCTION TO JAZZ	
DAN 17005	JAZZ 1	
DAN 17007	TAP 1	
DAN 17008	TAP 2	
DAN 17009	TAP 3	
DAN 17010	INTRODUCTION TO BALLET	
DAN 17011	BALLET 1	
DAN 17013	AFRICAN DANCE 1	
DAN 17016	SWING DANCE 1	
DAN 17055	MEN'S BALLET	
DAN 17080	MUSICAL THEATRE RUDIMENTS OF JAZZ AND TAP	
DAN 27050	BALLET 2	
DAN 27051	MODERN 2	
DAN 27070	JAZZ 2	
DAN 27080	MUSICAL THEATRE JAZZ AND TAP I	
DAN 37051	MODERN 3	
DAN 37069	BALLET 3	
DAN 37080	MUSICAL THEATRE JAZZ AND TAP II	
DAN 37081	MUSICAL THEATRE JAZZ AND TAP III	
DAN 37092	KENT DANCE ENSEMBLE (ELR)	
DAN 37148	JAZZ 3	
DAN 47050	BALLET 4	
DAN 47051	MODERN 4	
DAN 47070	JAZZ 4	
DAN 47080	MUSICAL THEATRE DANCE STYLES I	
DAN 47081	MUSICAL THEATRE DANCE STYLES II	
DAN 47095	SPECIAL TOPICS IN DANCE	
THEA 41702	MOVEMENT AND DANCE FOR ACTORS	
Guided Upper-Division Electives, choose from the following:		8
DAN 47163	DANCE HISTORY II (WIC) [1]	
MUS 45131	KENT STATE OPERA THEATRE WORKSHOP	
THEA 31200	APPLIED VOICE FOR MUSICAL THEATRE	
THEA 41026	PLAYWRITING (WIC) [1]	
THEA 41095	SPECIAL TOPICS IN THEATRE	
THEA 41301	ACTING FOR THE CAMERA I	
THEA 41302	ACTING FOR THE CAMERA II	
THEA 41305	PROFESSIONAL ASPECTS: PERFORMANCE	
THEA 41308	MUSICAL THEATRE AUDITION [3]	
THEA 41499	MUSICAL THEATRE SHOWCASE (ELR)	

THEA 41620	HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) [1]	
THEA 41702	MOVEMENT AND DANCE FOR ACTORS	
THEA 42192	PRACTICUM II: PERFORMANCE (ELR)	
Any Dance (DAN) Upper-Division course (30000 or 40000 level) [2]		
Dance, Music and Theatre Electives, choose from the following:		4
DAN 47163	DANCE HISTORY II (WIC) [1]	
MUS 45131	KENT STATE OPERA THEATRE WORKSHOP	
THEA 21016	MAKEUP FOR STAGE AND SCREEN	
THEA 21700	MOVEMENT I	
THEA 21800	VOICE I	
THEA 31200	APPLIED VOICE FOR MUSICAL THEATRE	
THEA 41026	PLAYWRITING (WIC) [1]	
THEA 41095	SPECIAL TOPICS IN THEATRE	
THEA 41301	ACTING FOR THE CAMERA I	
THEA 41302	ACTING FOR THE CAMERA II	
THEA 41305	PROFESSIONAL ASPECTS: PERFORMANCE	
THEA 41308	MUSICAL THEATRE AUDITION [3]	
THEA 41499	MUSICAL THEATRE SHOWCASE (ELR)	
THEA 41620	HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) [1]	
THEA 41702	MOVEMENT AND DANCE FOR ACTORS	
THEA 42192	PRACTICUM II: PERFORMANCE (ELR)	
Any Dance (DAN) course [2]		
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Enrollment in many of the dance courses are by audition only.

[3] THEA 41308 may be taken a maximum two times (maximum 6 credit hours) toward the program.

Progression Requirements

- In order to continue and graduate with the B.F.A. degree, students are expected develop skills equal to entry-level positions in the profession or as expected for admission into a M.F.A. degree program.
- Students on academic probation may not participate in School of Theatre and Dance productions.
- Students may be immediately dismissed from the program for failure to maintain a 2.500 major GPA. Students should strive to maintain a 3.000 overall GPA.
- Students are required to participate in biannual B.F.A. evaluations, interviews and/or meetings, and must must pass annual evaluation reviews to remain in the program.
- Students are required to participate in annual school screening auditions and, if qualifying, must participate in at least one unified audition.
- Students are required to audition for all main-stage theatre productions and accept roles as cast.
- Students may be subject to probation or dismissal for failing to audition for main-stage productions, for not accepting a role that is offered or for failure to demonstrate continuous skill development and growth in all areas of the program as defined by the Musical Theatre Student Handbook. Students placed on probation will be provided written information regarding specific areas for improvement.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
	THEA 11002	MUSICAL THEATRE PERFORMANCE I	3
	THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	2
	THEA 21303	ACTING PROCESS	3
	THEA 31200	APPLIED VOICE FOR MUSICAL THEATRE	2
	UC 10001	FLASHES 101	1
	Dance Electives		2
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	MUS 17111	PIANO CLASS I	1
	THEA 11725	FUNDAMENTALS OF THEATRE DESIGN AND PRODUCTION	3
	THEA 20102	MUSIC THEORY FOR MUSICAL THEATRE I	2
	THEA 20204	EAR TRAINING AND SIGHT SINGING FOR MUSICAL THEATRE I	1
	THEA 31200	APPLIED VOICE FOR MUSICAL THEATRE	2
	Dance Elective		1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Three		
	MUS 17112	PIANO CLASS II	1
	THEA 20103	MUSIC THEORY FOR MUSICAL THEATRE II	2
	THEA 20205	EAR TRAINING AND SIGHT SINGING FOR MUSICAL THEATRE II	1
	THEA 21002	MUSICAL THEATRE PERFORMANCE II	3
	Dance Elective		1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**14**
	Semester Four		
	Progression Requirement: minimum 2.500 major GPA		
	THEA 31200	APPLIED VOICE FOR MUSICAL THEATRE	2
!	THEA 31303	CHARACTER AND SCENE STUDY I	3
	THEA 42092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	1
	Dance Elective		1
	Dance, Music and Theatre Electives		4
	Kent Core Requirement		3

	Kent Core Requirement	3
	Credit Hours	**17**
	Semester Five	
THEA 31030 or THEA 41130	GLOBAL THEATRE HISTORIES or THEATRE AND DRAMA IN AMERICA	3
THEA 31200	APPLIED VOICE FOR MUSICAL THEATRE	2
THEA 32002	MUSICAL THEATRE PERFORMANCE III	3
	Dance Elective	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	**15**
	Semester Six	
	Progression Requirement: minimum 2.500 major GPA	
THEA 31030 or THEA 41115	GLOBAL THEATRE HISTORIES or LGBTQ THEATRE (DIVD)	3
THEA 31200	APPLIED VOICE FOR MUSICAL THEATRE	2
THEA 31304	CHARACTER AND SCENE STUDY II	3
	Dance Electives	2
	Kent Core Requirement	3
	Credit Hours	**13**
	Semester Seven	
THEA 42002	MUSICAL THEATRE PERFORMANCE IV	3
THEA 42999	PORTHOUSE PERFORMANCE EXPERIENCE (ELR)	3
	Dance Electives	2
	Guided Upper-Division Elective	3
	Kent Core Requirement	3
	Credit Hours	**14**
	Semester Eight	
THEA 31200	APPLIED VOICE FOR MUSICAL THEATRE	2
THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC)	3
	Dance Electives	2
	Guided Upper-Division Electives	5
	Kent Core Requirement	3
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply advanced processes and methods to build character in musical theatre repertoire.
2. Apply intermediate to advanced skills in dance for musical theatre.
3. Develop musical skills in voice performance, musicianship, music theory and sight singing.
4. Execute proficiency in audition technique as an actor/singer.
5. Articulate procedures and approaches to differentiate various theatrical styles and techniques.
6. Synthesize acting, singing, and dance techniques to systematically realize a role in a musical theatre play or performance.

Program Policies

Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information

about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

Full Description

The Bachelor of Fine Arts degree in Musical Theatre prepares students for life as working artists in the musical theatre field. Practical training and creative experiences are coupled with an interdisciplinary liberal arts curriculum and a foundation in theatre history, analysis and criticism.

Students are able to study and perform in the school's theatrical and dance productions. Kent State's Center for the Performing Arts houses three theatres, performance and rehearsal spaces, costume shop and laboratories for costumes, drafting, lighting and scenery. In addition, the School of Theatre and Dance oversees the outdoor venue Porthouse Theatre.

Students in their senior year may participate in the annual New York City Musical Theatre Showcase, which enables students to perform for prospective casting directors, talent managers and theatrical and commercial agents.

Theatre Design and Technology - M.F.A.

College of the Arts
School of Theatre and Dance - Theatre Division
www.kent.edu/theatredance

About This Program

Are you ready to take center stage in the world of theatre design and technology? The M.F.A. degree equips students with the artistry and skills to become practicing professionals. With a flexible curriculum and concentrations in costume design, lighting design, scene design and technical direction, this three-year program offers students the opportunity to explore their areas of interest and gain hands-on experience in all aspects of theatre production. Read more...

Contact Information

- **Michelle Souza** | msouza@kent.edu
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Film and video editors

- 21.6% much faster than the average
- 38,300 number of jobs
- $67,250 potential earnings

Lighting technicians and media and communication equipment workers, all other

- 4.9% about as fast as the average
- 26,600 number of jobs
- $70,980 potential earnings

Set and exhibit designers

- 1.2% slower than the average
- 15,200 number of jobs
- $58,180 potential earnings

Accreditation

National Association of Schools of Theatre

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation
- Portfolio review
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:[1]
  - Minimum 71 TOEFL iBT score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 DET score

[1] International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
  - Final deadline: August 1
- **Spring Semester**
  - Final deadline: January 1

- **Summer Term**
  - Final deadline: May 1

Applications will not be accepted after these deadlines.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
THEA 60992	PROFESSIONAL THEATRE INTERNSHIP I	3
or THEA 61992	PROFESSIONAL THEATRE INTERNSHIP II	
THEA 61306	PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY	3
THEA 62000	INTRODUCTION TO GRADUATE STUDY IN THEATRE	3
THEA 61051	GRADUATE PORTFOLIO REVIEW (Repeatable)	6
Major Elective, choose from the following:		3
THEA 51113	THEATRE IN A MULTICULTURAL AMERICA	
THEA 51115	LGBTQ THEATRE	
THEA 51191	VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY	
THEA 51625	HISTORY OF COSTUME AND TEXTILES FOR THEATRE	
THEA 61096	INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA	
THEA 61531	PERIOD STYLE FOR THEATRE DESIGNERS	
Culminating Requirement		
THEA 61310	MASTER OF FINE ARTS DESIGN AND TECHNOLOGY CULMINATING PROJECT	3
Concentrations		
Choose from the following:		39
Costume Design and Technology		
Lighting Design		
Scene Design		
Technical Direction		
Minimum Total Credit Hours:		**60**

[1] THEA 61094 is required for graduate assistants only; students not required to take the course will complete an advisor-approved elective to graduate with 60 credit hours.

Costume Design and Technology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
THEA 51540	DRAPING FOR THE THEATRE I	3
THEA 51621	PRESENTATION MEDIA	3
THEA 66001	COSTUME DESIGN I: SCRIPT ANALYSIS	2
THEA 66002	COSTUME DESIGN II: PERFORMANCE GENRES	2
THEA 66003	COSTUME DESIGN III: THEATRICAL STYLES	2
THEA 66004	COSTUME DESIGN IV: ADVANCED RENDERING	2
THEA 66005	COSTUME DESIGN V: RESEARCH METHODS	2
THEA 66006	COSTUME DESIGN VI: TEXTILES	2
THEA 66092	PRODUCTION COLLABORATION: COSTUME DESIGN/TECHNOLOGY (repeatable)	6
Concentration Electives, choose from the following:		15
THEA 51095	SPECIAL TOPICS	
THEA 51525	PROPS AND CRAFTS	
THEA 51541	DRAPING FOR THE THEATRE II	
THEA 51734	COSTUME PRODUCTION MANAGEMENT	
THEA 60196	INDIVIDUAL INVESTIGATION: HISTORIC TEXTILES	
THEA 61992	PROFESSIONAL THEATRE INTERNSHIP II	
THEA 65192	TEACHING PRACTICUM	
THEA 61096	INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA	
Minimum Total Credit Hours:		**39**

Lighting Design Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
THEA 51523	SOUND DESIGN AND TECHNOLOGY I	3
THEA 51562	ADVANCED PROJECTION DESIGN	3
THEA 65001	LIGHTING DESIGN I: DRAMA	2
THEA 65002	LIGHTING DESIGN II: MUSICAL THEATRE	2
THEA 65003	LIGHTING DESIGN III: DANCE AND OPERA	2
THEA 65004	LIGHTING DESIGN IV: NON-TRADITIONAL PRODUCTIONS	2
THEA 65005	LIGHTING DESIGN V: ARCHITECTURAL AND INTERIOR LIGHTING	2
THEA 65006	LIGHTING DESIGN VI: NEW TECHNOLOGY	2
THEA 65092	PRODUCTION COLLABORATION: LIGHTING DESIGN (repeatable)	6
Concentration Electives, choose from the following:		15
THEA 51095	SPECIAL TOPICS	
THEA 51420	THEATRICAL DRAFTING II	
THEA 51430	ADVANCED CONSTRUCTION THEORY	
THEA 51521	ADVANCED LIGHTING TECHNOLOGY I	
THEA 51524	DESIGN STUDIO: COSTUME	
THEA 51525	PROPS AND CRAFTS	
THEA 51526	ADVANCED LIGHTING TECHNOLOGY II	
THEA 51528	THEATRE SOUND REINFORCEMENT	
THEA 51531	THEATRICAL RIGGING	
THEA 51560	THEATRE FABRICATION TECHNOLOGY	
THEA 51621	PRESENTATION MEDIA	
THEA 61096	INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA	
THEA 61992	PROFESSIONAL THEATRE INTERNSHIP II	
THEA 65192	TEACHING PRACTICUM	
Minimum Total Credit Hours:		**39**

Scene Design Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
THEA 51420	THEATRICAL DRAFTING II	3
THEA 51525	PROPS AND CRAFTS	3
THEA 51621	PRESENTATION MEDIA	3
THEA 63001	SCENIC DESIGN I: FOUNDATIONS IN SINGLE SET SCENIC DESIGN	2
THEA 63002	SCENIC DESIGN II: ADVANCED SINGLE SET SCENIC DESIGN	2

THEA 63003	SCENIC DESIGN III: DESIGNING BEYOND DRAMA	2
THEA 63004	SCENIC DESIGN IV: ADVANCED MULTI-SETTING DESIGN	2
THEA 63005	SCENIC DESIGN V: ENTERTAINMENT AND PRODUCTION DESIGN	2
THEA 63006	SCENIC DESIGN VI: NON-TRADITIONAL AND SITE-SPECIFIC PERFORMANCES	2
THEA 63092	PRODUCTION COLLABORATION: SCENIC DESIGN (repeatable)	6
Concentration Electives, choose from the following:		12
THEA 51095	SPECIAL TOPICS	
THEA 51430	ADVANCED CONSTRUCTION THEORY	
THEA 51521	ADVANCED LIGHTING TECHNOLOGY I	
THEA 51526	ADVANCED LIGHTING TECHNOLOGY II	
THEA 51527	SOUND AND DESIGN TECHNOLOGY II	
THEA 51531	THEATRICAL RIGGING	
THEA 51560	THEATRE FABRICATION TECHNOLOGY	
THEA 51562	ADVANCED PROJECTION DESIGN	
THEA 61096	INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA	
THEA 61992	PROFESSIONAL THEATRE INTERNSHIP II	
THEA 65192	TEACHING PRACTICUM	
Minimum Total Credit Hours:		**39**

Technical Direction Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements		
THEA 51420	THEATRICAL DRAFTING II	3
THEA 51430	ADVANCED CONSTRUCTION THEORY	3
THEA 51531	THEATRICAL RIGGING	3
THEA 64001	THEATRE TECHNICAL DIRECTION I: FOUNDATIONS I	2
THEA 64002	THEATRE TECHNICAL DIRECTION II: FOUNDATIONS II	2
THEA 64003	THEATRE TECHNICAL DIRECTION III: TOURING PRODUCTIONS	2
THEA 64004	THEATRE TECHNICAL DIRECTION IV: EDUCATIONAL THEATRE	2
THEA 64005	THEATRE TECHNICAL DIRECTION V: MECHANICS AND AUTOMATION	2
THEA 64006	THEATRE TECHNICAL DIRECTION VI: HEALTH AND SAFETY	2
THEA 64092	PRODUCTION COLLABORATION: TECHNICAL DIRECTION (repeatable)	6
Concentration Electives, choose from the following:		12
THEA 51095	SPECIAL TOPICS	
THEA 51521	ADVANCED LIGHTING TECHNOLOGY I	
THEA 51525	PROPS AND CRAFTS	
THEA 51526	ADVANCED LIGHTING TECHNOLOGY II	
THEA 51560	THEATRE FABRICATION TECHNOLOGY	
THEA 51621	PRESENTATION MEDIA	
THEA 61096	INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA	
THEA 61992	PROFESSIONAL THEATRE INTERNSHIP II	
THEA 65192	TEACHING PRACTICUM	
Minimum Total Credit Hours:		**39**

Progression Requirements

Students are expected to participate in at least one main-stage production each semester, which may be in addition to any production design assignment.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Culminating Requirement

The culminating project requirements include documentation, portfolio presentation and an exit interview. Documentation consists of a design analysis, process journal, relevant research and other supporting materials (e.g., photos, links to the candidate's website). The scope of work may include, but not necessarily be limited to, evidence of research, drawing and drafting, rendering and associated digital image, video or audio files, which will be presented at an exit interview. The topic of each M.F.A. candidate's culminating project will be proposed by the candidate and based on faculty feedback from yearly portfolio and academic assessments. The student will register for THEA 61310 for the student's project assignment. The process is then documented in a format appropriate for the project and presented to the faculty advisor.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate advanced creative and technical abilities to develop the design of a production from concept to finished product through collaborative efforts.
2. Analyze text, music and dance and the ways that historical, critical and theoretical content inform acting, directing and design.
3. Produce and communicate design ideas and accurate production models, paperwork, and drawings by hand and/or through the use of current industry standard software in a professional setting.
4. Demonstrate the integration of current technology, tools and methods, and health and safety practices in one's area of specialization.
5. Prepare and present a professional resume and a portfolio of design- and technology-related work that demonstrate one's abilities, strengths, processes and experiences.
6. Demonstrate and model professional ethics and practice.

Full Description

The Master of Fine Arts degree in Theatre Design and Technology is a terminal degree designed for those who are interested in achieving the artistry and skills necessary to qualify as practicing professionals in the entertainment industry and/or professional theatre educators. The program is a three-year course of study with a flexible curriculum for students to explore areas of special interest.

The Theatre Design and Technology major comprises the following concentrations:

- The **Costume Design and Technology** concentration prepares students for careers in the entertainment industry, professional theatre or theatre education. Students study both design and technology, including related areas such as dye techniques, costume crafts and wigs and makeup. Students also design costumes for main-stage departmental productions. The curriculum includes core classes in theatre history, dramatic theory and historical periods.
- The **Lighting Design** concentration balances instruction and experience in lighting design with instruction and experience in lighting technology. Studies include digital rendering, CAD, lighting technology and automated lighting. Students research and study all of aspects of theatrical lighting, including the design process from concept to execution, communication skills, integration of technology into design, documentation of the work and critical evaluation of the work.
- The **Scene Design** concentration balances focused classroom instruction with practical design and production experience. Students also study related artisan areas such as digital and traditional rendering techniques, 3D CAD, props, fabrication, scene painting and presentation techniques with particular emphasis on integrating contemporary digital techniques into the design process. The curriculum contains courses in construction theory, rigging, costume crafts and projection/media design.
- The **Technical Direction** concentration provides students with training and practical experiences in planning main stage productions for the School of Theatre and Dance. Studies focus on safety and all logistics of production assembly, including touring and dance. Technical directors have the opportunity work in four very different theatre spaces: black box, large proscenium, thrust and open outdoor.

Theatre Design, Technology and Production - B.F.A.

College of the Arts
School of Theatre and Dance - Theatre Division
www.kent.edu/theatredance

About This Program

Bring your theatre production dreams to life with our B.F.A. program. With a blend of theoretical knowledge and practical experience, this program prepares you for a career in theatre production. Access industry-standard tools, experienced faculty and real-world opportunities. Enroll now and take the first step toward a career in theatre production. Read more...

Contact Information

- **Michelle Souza** | msouza@kent.edu
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Examples of Possible Careers and Salaries*

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Lighting technicians and media and communication equipment workers, all other

- 4.9% about as fast as the average
- 26,600 number of jobs
- $70,980 potential earnings

Film and video editors

- 21.6% much faster than the average
- 38,300 number of jobs
- $67,250 potential earnings

Set and exhibit designers

- 1.2% slower than the average
- 15,200 number of jobs
- $58,180 potential earnings

Accreditation

National Association of Schools of Theatre (NAST)

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's

English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	2
THEA 11521	GRAPHICS FOR THE THEATRE	3
THEA 11725	FUNDAMENTALS OF THEATRE DESIGN AND PRODUCTION	3
THEA 14092	BACHELOR OF FINE ARTS INTRODUCTORY PRACTICUM: DESIGN AND TECHNOLOGY (ELR) (taken two times)	2
THEA 21522	LIGHTING DESIGN	3
THEA 21524	COSTUME DESIGN	3
THEA 21528	SOUND AND PROJECTION DESIGN AND TECHNOLOGY	3
THEA 21622	SCENE DESIGN	3
THEA 21736	STAGE MANAGEMENT	3
THEA 31030	GLOBAL THEATRE HISTORIES	3
THEA 32000	BACHELOR OF FINE ARTS PORTFOLIO REVIEW (taken three times)	3
THEA 34092	BACHELOR OF FINE ARTS ADVANCED PRACTICUM: DESIGN AND TECHNOLOGY (ELR) (taken six times)	10
THEA 41115	LGBTQ THEATRE (DIVD)	3
or THEA 41130	THEATRE AND DRAMA IN AMERICA	
THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC) [1]	3
or THEA 41620	HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC)	
THEA 41306	PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY	3
THEA 41736	PRODUCTION AND STAGE MANAGEMENT	3
or THEA 42040	SHOP MANAGEMENT	
THEA 41999	CAPSTONE PROJECT (ELR)	3
THEA 42062	PRESENTATION MEDIA	3
Theatre Design and Technology Electives, choose from the following:		24
THEA 21523	COSTUME TECHNOLOGY	
THEA 21621	SCENE PAINTING	
THEA 31526	FLAT PATTERNING FOR THEATRE	
THEA 41095	SPECIAL TOPICS IN THEATRE	
THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC) [1]	
THEA 41521	ADVANCED LIGHTING TECHNOLOGY I	
THEA 41522	DESIGN STUDIO: LIGHTING	
THEA 41523	SOUND DESIGN AND TECHNOLOGY I	
THEA 41524	DESIGN STUDIO: COSTUME	
THEA 41525	PROPS AND CRAFTS	
THEA 41526	ADVANCED LIGHTING TECHNOLOGY II	
THEA 41528	THEATRE SOUND REINFORCEMENT	
THEA 41540	DRAPING FOR THE THEATRE I	
THEA 41560	THEATRE FABRICATION TECHNOLOGY	
THEA 41622	DESIGN STUDIO: SCENERY	
THEA 41625	HISTORY OF COSTUME AND TEXTILES FOR THEATRE	
THEA 41726	THEATRE MANAGEMENT	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

Progression Requirements

- In order to continue and graduate with the B.F.A. degree, students are expected develop skills equal to entry-level positions in the profession or as expected for admission into a M.F.A. degree program.
- Students on academic probation may not participate in any School of Theatre and Dance productions.
- Students may be immediately dismissed from the program for failure to maintain a minimum 2.500 major GPA. B.F.A. degree students should strive to maintain a 3.000 overall GPA.
- Students must pass yearly portfolio reviews and are expected to participate in at least one mainstage production per semester (this may be in addition to any production design assignment).

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as

critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		**Credits**
THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	2
THEA 11521	GRAPHICS FOR THE THEATRE	3
THEA 11725	FUNDAMENTALS OF THEATRE DESIGN AND PRODUCTION	3
THEA 14092	BACHELOR OF FINE ARTS INTRODUCTORY PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	1
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Two		
THEA 14092	BACHELOR OF FINE ARTS INTRODUCTORY PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	1
THEA 21528	SOUND AND PROJECTION DESIGN AND TECHNOLOGY	3
THEA 21736	STAGE MANAGEMENT	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Three		
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
THEA 21522	LIGHTING DESIGN	3
THEA 21524	COSTUME DESIGN	3
THEA 34092	BACHELOR OF FINE ARTS ADVANCED PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	1
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**16**
Semester Four		
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
THEA 32000	BACHELOR OF FINE ARTS PORTFOLIO REVIEW	1
THEA 34092	BACHELOR OF FINE ARTS ADVANCED PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	1
Theatre Design and Technology Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**14**
Semester Five		
THEA 21622	SCENE DESIGN	3
THEA 31030 or THEA 41130	GLOBAL THEATRE HISTORIES or THEATRE AND DRAMA IN AMERICA	3
THEA 34092	BACHELOR OF FINE ARTS ADVANCED PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	2
THEA 41306	PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY	3
THEA 42062	PRESENTATION MEDIA	3
	Credit Hours	**14**
Semester Six		
THEA 31030 or THEA 41115	GLOBAL THEATRE HISTORIES or LGBTQ THEATRE (DIVD)	3
THEA 32000	BACHELOR OF FINE ARTS PORTFOLIO REVIEW	1
THEA 34092	BACHELOR OF FINE ARTS ADVANCED PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	2
THEA 41736 or THEA 42040	PRODUCTION AND STAGE MANAGEMENT or SHOP MANAGEMENT	3
Theatre Design and Technology Elective		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Seven		
THEA 34092	BACHELOR OF FINE ARTS ADVANCED PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	2
THEA 41999	CAPSTONE PROJECT (ELR)	3
Theatre Design and Technology Electives		9
	Credit Hours	**14**
Semester Eight		
THEA 32000	BACHELOR OF FINE ARTS PORTFOLIO REVIEW	1
THEA 34092	BACHELOR OF FINE ARTS ADVANCED PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	2
THEA 41140 or THEA 41620	AMERICAN MUSICAL THEATRE HISTORY (WIC) or HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC)	3
Theatre Design and Technology Electives		9
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6

Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Articulate basic elements and principles of design theory and composition.
2. Produce and communicate design ideas and accurate production models, paperwork and drawings by hand and/or through the use of current industry standard software programs.
3. Describe the full process of design and production for a finished production, including the roles that various personnel play in the mounting of a finished production.
4. Articulate and use best practices and industry standards related to safety for theatrical venues and production elements.
5. Prepare and present a professional resume and a portfolio of design/production work that demonstrate one's cumulative accomplishments.
6. Recognize and evaluate a diverse selection of contemporary and historical theatre repertory.
7. Apply theories to and perform technical skills in a variety of realized stage productions.

Program Policies

Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

Full Description

The Bachelor of Fine Arts degree in Theatre Design, Technology and Production fosters the artistic development of theatre designers, technicians and artisans. Students study both traditional theatre practices and new methods, materials and technologies. Students must demonstrate continued progress through annual portfolio reviews, course work and production responsibilities. In addition, students are expected to complete a significant production assignment each semester.

In the major, students apply design and technology concepts for the school's theatrical and dance productions. Kent State's Center for the Performing Arts houses three theatres, performance and rehearsal space, a scene shop, a costume shop and laboratories for costumes, drafting, lighting and scenery. In addition, the School of Theatre and Dance oversees the outdoor venue Porthouse Theatre.

The B.F.A. degree program prepares students for M.F.A. degree study, as well as such occupations as scenic designer, costume designer, lighting designer, sound/projection designer, prop master, scenic artist, stage manager, production manager, wardrobe supervisor, technical director and stage technicians.

Theatre Performance - Minor

College of the Arts
School of Theatre and Dance - Theatre Division
www.kent.edu/theatredance

About This Program

The Theatre Performance minor will appeal to students who have an interest in acting. The minor connects traditions of performance, and enables students to relate the context of performing in theatre to other area disciplines.

Contact Information

- **Paul Hurley** | phurley1@kent.edu
- Speak with an Advisor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
THEA 11000	THE ART OF THE THEATRE (DIVG) (KFA)	2-3
or THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	
THEA 11725	FUNDAMENTALS OF THEATRE DESIGN AND PRODUCTION	3
THEA 21303	ACTING PROCESS	3
THEA 31303	CHARACTER AND SCENE STUDY I	3

Minor Elective, choose from the following:		3
THEA 31304	CHARACTER AND SCENE STUDY II	
THEA 31401	DIRECTING	
THEA 41095	SPECIAL TOPICS IN THEATRE	
THEA 41301	ACTING FOR THE CAMERA I	
THEA 41302	ACTING FOR THE CAMERA II	
THEA 41305	PROFESSIONAL ASPECTS: PERFORMANCE	
THEA 41308	MUSICAL THEATRE AUDITION [1]	
THEA 41703	STAGE COMBAT	
Minimum Total Credit Hours:		**14**

[1] THEA 41308 may be taken a maximum two times (maximum 6 credit hours) toward the program.

Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the basic process involved in mounting a theatre production.
2. Articulate procedures and approaches to differentiate various acting styles and techniques.

Theatre Studies - B.A.

College of the Arts
School of Theatre and Dance - Theatre Division
www.kent.edu/theatredance

About This Program

The Theatre Studies program offers a well-rounded theatre education, including a broad range of topics, from theatre history to dramatic literature. Access experienced faculty, real-world opportunities and state-of-the-art facilities. Enroll now and take the first step toward a fulfilling career in theatre. Read more...

Contact Information

- **Paul Hurley** | phurley1@kent.edu
- Speak with an Advisor
  - Kent Campus
  - Trumbull Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Trumbull Campus (General Studies concentration only)

Examples of Possible Careers and Salaries*

Actors

- 3.1% about as fast as the average
- 70,100 number of jobs
- $N/A potential earnings

Art, drama, and music teachers, postsecondary

- 5.6% faster than the average
- 116,300 number of jobs
- $69,690 potential earnings

Miscellaneous entertainers and performers, sports and related workers

- 4.2% about as fast as the average
- 33,300 number of jobs
- $N/A potential earnings

Producers and directors

- 10.0% much faster than the average
- 159,500 number of jobs
- $76,400 potential earnings

Accreditation

The B.A. degree in Theatre Studies is accredited by the National Association of Schools of Theatre (NAST).

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic

Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	2
THEA 11303	THE ART OF ACTING	3
or THEA 21303	ACTING PROCESS	
THEA 11725	FUNDAMENTALS OF THEATRE DESIGN AND PRODUCTION	3
THEA 31030	GLOBAL THEATRE HISTORIES	3
THEA 41115	LGBTQ THEATRE (DIVD)	3
or THEA 41130	THEATRE AND DRAMA IN AMERICA	
THEA 41999	CAPSTONE PROJECT (ELR)	3
THEA 42092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	3
Design Elective, choose from the following:		3
THEA 21522	LIGHTING DESIGN	
THEA 21524	COSTUME DESIGN	
THEA 21528	SOUND AND PROJECTION DESIGN AND TECHNOLOGY	
THEA 21622	SCENE DESIGN	
THEA 21736	STAGE MANAGEMENT	
Design and Management Elective, choose from the following:		3
THEA 21522	LIGHTING DESIGN	
THEA 21524	COSTUME DESIGN	
THEA 21528	SOUND AND PROJECTION DESIGN AND TECHNOLOGY	
THEA 21622	SCENE DESIGN	
THEA 21736	STAGE MANAGEMENT	
THEA 41522	DESIGN STUDIO: LIGHTING	
THEA 41523	SOUND DESIGN AND TECHNOLOGY I	
THEA 41524	DESIGN STUDIO: COSTUME	
THEA 41528	THEATRE SOUND REINFORCEMENT	
THEA 41622	DESIGN STUDIO: SCENERY	
THEA 41726	THEATRE MANAGEMENT	
THEA 41736	PRODUCTION AND STAGE MANAGEMENT	
THEA 42040	SHOP MANAGEMENT	
Theatre Elective, choose from the following:		3
DAN 47163	DANCE HISTORY II (WIC) [1]	
THEA 41010	THEATRE AND SOCIAL CHANGE	
THEA 41026	PLAYWRITING (WIC) [1, 2]	
THEA 41113	THEATRE IN A MULTICULTURAL AMERICA (DIVD)	
THEA 41115	LGBTQ THEATRE (DIVD)	
THEA 41130	THEATRE AND DRAMA IN AMERICA	
THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC) [1]	
THEA 41191	VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY [2]	
THEA 41620	HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) [1]	
Writing-Intensive Elective, choose from the following:		3
DAN 47163	DANCE HISTORY II (WIC) [1]	
THEA 41026	PLAYWRITING (WIC) [1, 2]	
THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC) [1]	
THEA 41620	HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) [1]	
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
Minor or Another Major Requirement and General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		30
Concentrations		
Choose from the following:		21
General Studies		
Performance		
Production		
Minimum Total Credit Hours:		**120**

[1] A minimum C grade must be earned to fulfill the writing-intensive requirement.

[2] Course is repeatable for credit.

General Studies Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Concentration Electives, choose from the following:		21
THEA 21522	LIGHTING DESIGN	
THEA 21523	COSTUME TECHNOLOGY	
THEA 21524	COSTUME DESIGN	

THEA 21528	SOUND AND PROJECTION DESIGN AND TECHNOLOGY	
THEA 21621	SCENE PAINTING	
THEA 21622	SCENE DESIGN	
THEA 21700	MOVEMENT I	
THEA 21736	STAGE MANAGEMENT	
THEA 21800	VOICE I	
THEA 31303	CHARACTER AND SCENE STUDY I	
THEA 31304	CHARACTER AND SCENE STUDY II	
THEA 31401	DIRECTING	
THEA 31526	FLAT PATTERNING FOR THEATRE	
THEA 41010	THEATRE AND SOCIAL CHANGE	
THEA 41026	PLAYWRITING (WIC) [1, 2]	
THEA 41027	ADVANCED PLAYWRITING [2]	
THEA 41095	SPECIAL TOPICS IN THEATRE [2, 3]	
THEA 41096	INDEPENDENT STUDY IN THEATRE [2]	
THEA 41115	LGBTQ THEATRE (DIVD)	
THEA 41130	THEATRE AND DRAMA IN AMERICA	
THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC) [1]	
THEA 41301	ACTING FOR THE CAMERA I	
THEA 41302	ACTING FOR THE CAMERA II	
THEA 41305	PROFESSIONAL ASPECTS: PERFORMANCE	
THEA 41306	PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY	
THEA 41308	MUSICAL THEATRE AUDITION [2]	
THEA 41521	ADVANCED LIGHTING TECHNOLOGY I	
THEA 41522	DESIGN STUDIO: LIGHTING	
THEA 41523	SOUND DESIGN AND TECHNOLOGY I	
THEA 41524	DESIGN STUDIO: COSTUME	
THEA 41525	PROPS AND CRAFTS	
THEA 41528	THEATRE SOUND REINFORCEMENT	
THEA 41540	DRAPING FOR THE THEATRE I	
THEA 41560	THEATRE FABRICATION TECHNOLOGY	
THEA 41620	HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) [1]	
THEA 41622	DESIGN STUDIO: SCENERY	
THEA 41625	HISTORY OF COSTUME AND TEXTILES FOR THEATRE	
THEA 41703	STAGE COMBAT [2]	
THEA 41726	THEATRE MANAGEMENT	
THEA 41736	PRODUCTION AND STAGE MANAGEMENT	
THEA 42040	SHOP MANAGEMENT	
THEA 42092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR) [2]	
Minimum Total Credit Hours:		**21**

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

2 Course is repeatable for credit. THEA 41308 may be taken a maximum two times (maximum 6 credit hours) toward the program.

3 THEA 41095 can be taken in variable seminars.

Performance Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
THEA 21700	MOVEMENT I	3
or THEA 21800	VOICE I	
THEA 31303	CHARACTER AND SCENE STUDY I	3
THEA 31304	CHARACTER AND SCENE STUDY II	3
THEA 41301	ACTING FOR THE CAMERA I	3
Concentration Electives, choose from the following:		9
THEA 21700	MOVEMENT I	
THEA 21800	VOICE I	
THEA 31401	DIRECTING	
THEA 41095	SPECIAL TOPICS IN THEATRE [1,2]	
THEA 41302	ACTING FOR THE CAMERA II	
THEA 41305	PROFESSIONAL ASPECTS: PERFORMANCE	
THEA 41308	MUSICAL THEATRE AUDITION [2]	
THEA 41703	STAGE COMBAT [2]	
Minimum Total Credit Hours:		**21**

1 THEA 41095 should be taken in variable performance seminars.

2 Course is repeatable for credit. THEA 41308 may be taken a maximum two times (maximum 6 credit hours) toward the program.

Production Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Concentration Electives, choose from the following:		21
THEA 11521	GRAPHICS FOR THE THEATRE	
THEA 21522	LIGHTING DESIGN	
THEA 21523	COSTUME TECHNOLOGY	
THEA 21524	COSTUME DESIGN	
THEA 21526	BASIC COSTUME CONSTRUCTION	
THEA 21528	SOUND AND PROJECTION DESIGN AND TECHNOLOGY	
THEA 21621	SCENE PAINTING	
THEA 21622	SCENE DESIGN	
THEA 21736	STAGE MANAGEMENT	
THEA 22192	PRACTICUM I: PERFORMANCE (ELR) [1]	
THEA 22292	PRACTICUM I:THEATRE MANAGEMENT (ELR) [1]	
THEA 31526	FLAT PATTERNING FOR THEATRE	
THEA 41026	PLAYWRITING (WIC) [1, 2]	
THEA 41027	ADVANCED PLAYWRITING [1]	
THEA 41095	SPECIAL TOPICS IN THEATRE [1, 3]	
THEA 41130	THEATRE AND DRAMA IN AMERICA	
THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC) [2]	
THEA 41191	VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY [1]	
THEA 41306	PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY	
THEA 41521	ADVANCED LIGHTING TECHNOLOGY I	
THEA 41522	DESIGN STUDIO: LIGHTING	
THEA 41524	DESIGN STUDIO: COSTUME	
THEA 41525	PROPS AND CRAFTS	
THEA 41528	THEATRE SOUND REINFORCEMENT	
THEA 41540	DRAPING FOR THE THEATRE I	
THEA 41560	THEATRE FABRICATION TECHNOLOGY	
THEA 41622	DESIGN STUDIO: SCENERY	
THEA 41625	HISTORY OF COSTUME AND TEXTILES FOR THEATRE	

THEA 41726	THEATRE MANAGEMENT	
THEA 41736	PRODUCTION AND STAGE MANAGEMENT	
THEA 42040	SHOP MANAGEMENT	
THEA 42062	PRESENTATION MEDIA	
THEA 42092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR) [1]	
THEA 42192	PRACTICUM II: PERFORMANCE (ELR) [1]	
THEA 42292	PRACTICUM II: THEATRE MANAGEMENT (ELR) [1]	
Minimum Total Credit Hours:		**21**

[1] Course is repeatable for credit.
[2] A minimum C grade must be earned to fulfill the writing-intensive requirement.
[3] THEA 41095 should be taken in variable production seminars.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

- Students must declare and graduate with a minor or another major (double major or dual degree) to earn the B.A. degree in Theatre Studies.
- Students on academic probation may not participate in School of Theatre and Dance productions.
- Students may be dropped from the program for failure to maintain a 2.500 GPA.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	2
THEA 11303 or THEA 21303	THE ART OF ACTING or ACTING PROCESS	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Two		
THEA 11725	FUNDAMENTALS OF THEATRE DESIGN AND PRODUCTION	3
Concentration Requirement or Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
	Credit Hours	**15**
Semester Three		
Design Elective		3
Concentration Requirement or Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Minor or Another Major Requirement or General Elective		3
	Credit Hours	**15**
Semester Four		
Design and Management Elective		3
Concentration Requirement or Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Minor or Another Major Requirement or General Elective		3
	Credit Hours	**15**
Semester Five		
THEA 31030 or THEA 41130	GLOBAL THEATRE HISTORIES or THEATRE AND DRAMA IN AMERICA	3
THEA 42092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	3
Concentration Requirement or Elective		3
Kent Core Requirement		3
Minor or Another Major Requirement or General Elective		3
	Credit Hours	**15**
Semester Six		
THEA 31030 or THEA 41115	GLOBAL THEATRE HISTORIES or LGBTQ THEATRE (DIVD)	3
Concentration Requirement or Elective		3
Kent Core Requirement		3
Minor or Another Major Requirement or General Electives		6
	Credit Hours	**15**
Semester Seven		
Writing-Intensive Elective		3
Concentration Requirement or Elective		3
Minor or Another Major Requirement or General Electives		9
	Credit Hours	**15**
Semester Eight		
THEA 41999	CAPSTONE PROJECT (ELR)	3
Theatre Elective		3
Concentration Requirement or Elective		3
Minor or Another Major Requirement or General Electives		6
	Credit Hours	**15**
	Minimum Total Credit Hours:	**120**

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours

Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	**36-37**

Program Learning Outcomes

Graduates of this program will be able to:

1. Articulate procedures and approaches to differentiate various theatrical styles and techniques.
2. Examine playwriting and production processes and the artistic and cultural forces that shape them.
3. Apply intermediate to advanced skills in one or more theatre specializations in creation, performance or scholarship.
4. Evaluate a diverse selection of theatre repertory.
5. Describe the basic process involved in mounting a theatre production.
6. Synthesize research, performance and/or production.

Program Policies

Physical Activity and ROTC Courses

No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses or the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to the 120 credit hours required for graduation.

Veterans who have completed a minimum of one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:

- Army and Marine Corps, 3 credit hours;
- Navy and Coast Guard, 2 credit hours;
- Air Force, 1 credit hour.

Requirement Audit

Upon completion of 60 credit hours, each student is required to contact the College of the Arts Advising office to obtain a current evaluation of progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. Students may access GPS (Graduation Planning System) audit through their FlashLine account which provides them with information about their academic progress. Questions about GPS audits are answered in the College of the Arts Advising office.

Full Description

The Bachelor of Arts degree in Theatre Studies gives students an opportunity for study in all aspects of theatre and its relationship to other liberal arts studies. This program serves students who seek a wider range of possibilities to fulfill individual creative goals, whether as theatre artists, scholars, educators and/or contributors in related fields. Students receive thorough grounding in theatre history and theory and learn imaginative and critical thinking, the process of making theatre and leadership skills.

The Theatre Studies major comprises the following concentrations:

- The **General Studies** concentration combines the study of dramatic literature, production and performance work.
- The **Performance** concentration offers in-depth training in acting. Through a series of acting courses, students learn a variety of acting styles and techniques applicable to both stage and screen.
- The **Production** concentration offers specified training in one or more design, technology and production specializations.

In addition, students in the Theatre Studies major must declare another major or a minor at Kent State.

Graduate College

Graduate College
graduatecollege@kent.edu
www.kent.edu/graduatecollege

Graduate College (GCOL)

GCOL 60098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Independent research or scholarly activity for master's level graduate students conducted under the supervision of a faculty member.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

GCOL 60100 APPLICATIONS IN DESIGN THINKING AND INNOVATION 3 Credit Hours
(Slashed with GCOL 80100) This course blends analytical skills, intuition and creative thinking to develop practical solutions to real world problems. This will be a reflective lecture and small project-based course that addresses the programmatic, technical, business, social and human factors of design in a way that leads to innovation(s) in the development of integrated solutions. After being introduced to essential concepts, students, working in interdisciplinary teams, will learn how to engage with end users, effectively frame problems, identify potential solutions, build prototypes to test assumptions and learn what works (and doesn't).
Prerequisite: Graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

GCOL 61001 WORKSHOP IN COLLEGE TEACHING 1 Credit Hour
(Slashed with GCOL 71001) Orientation to college teaching for new teaching assistants.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

GCOL 61094 COLLEGE TEACHING 2 Credit Hours
(Slashed with GCOL 71094) Training, supervision and evaluation in college-level instruction.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

GCOL 61095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) (Slashed with GCOL 81095) Special topics in graduate education announced when scheduled. Specialized offerings in response to emerging trends or topics intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of graduate faculty.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 other
Grade Mode: Standard Letter

GCOL 61096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual investigation as agreed upon by the instructor and student.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

GCOL 61195 SPECIAL TOPICS SEMINAR 1-4 Credit Hours
(Repeatable for credit) (Slashed with GCOL 81195) Variable topic seminar; varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

GCOL 71001 WORKSHOP IN COLLEGE TEACHING 1 Credit Hour
(Slashed with GCOL 61001) Orientation to college teaching for new teaching assistants.
Prerequisite: Doctoral standing.
Schedule Type: Workshop
Contact Hours: 1 other
Grade Mode: Satisfactory/Unsatisfactory

GCOL 71094 COLLEGE TEACHING 2 Credit Hours
(Slashed with GCOL 61094) Training, supervision and evaluation in college-level instruction.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

GCOL 80098 RESEARCH 1-6 Credit Hours
(Repeatable for credit) Independent research or scholarly activity for doctoral-level graduate students conducted under the supervision of a faculty member.
Prerequisite: Doctoral standing.
Schedule Type: Research
Contact Hours: 3-18 other
Grade Mode: Standard Letter-IP

GCOL 80100 APPLICATIONS IN DESIGN THINKING AND INNOVATION 3 Credit Hours
(Slashed with GCOL 60100) This course blends analytical skills, intuition and creative thinking to develop practical solutions to real world problems. This will be a reflective lecture and small project-based course that addresses the programmatic, technical, business, social and human factors of design in a way that leads to innovation(s) in the development of integrated solutions. After being introduced to essential concepts, students, working in interdisciplinary teams, will learn how to engage with end users, effectively frame problems, identify potential solutions, build prototypes to test assumptions and learn what works (and doesn't).
Prerequisite: Doctoral standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

GCOL 81095 SPECIAL TOPICS 1-4 Credit Hours
(Repeatable for credit) (Slashed with GCOL 61095) Special topics in graduate education announced when scheduled. Specialized offerings in response to emerging trends or topics intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of graduate faculty.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-4 other
Grade Mode: Standard Letter

GCOL 81096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours
(Repeatable for credit) Individual Investigation as agreed upon by the instructor and student.
Prerequisite: Doctoral standing.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

GCOL 81195 SPECIAL TOPICS SEMINAR 1-4 Credit Hours
(Repeatable for credit) (Slashed with GCOL 61195) Variable topic seminar; varies per course offering.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter

Honors College

Honors College
20 Stopher Hall
Kent Campus
330-672-2312
honors@kent.edu
www.kent.edu/honors

Mission of the College

The mission of the Honors College is to provide an enriched educational experience for academically motivated and talented students at Kent State University. We welcome students of diverse backgrounds and are firmly committed to advancing a diverse, inclusive and equitable community of scholars. We affirm that all members of the Honors College community are valued for their contributions and treated with dignity and respect. Each student in the college plays a vital role in enhancing and influencing critical debate, critical thinking and learning from each other through their individual stories and lived experiences. This synergy creates a unique and inclusive foundation on which students can explore and develop their sense of belonging.

Founded in 1933, the Honors College is at the center of Kent State University's tradition of providing special attention to undergraduates with outstanding intellectual and creative ability. Within the framework of the larger university, with its diverse academic programs and excellent research and library facilities, the Honors College offers students enriched and challenging courses and programs, opportunities for close relationships with their peers and faculty, and careful advising to meet their interests and goals.

Academic Programs

Special Programs - Non-Degree

- Honors Program

Design Innovation (DI)

DI 10010 SURVEY OF DESIGN INNOVATION NODES 3 Credit Hours
Develop awareness and actively utilize the wide array of shared-resource laboratories and environments across Kent State University's eight campus system that are connected as part of the Design Innovation (DI) Ecosystem. Explore the context of maker-communities, emerging technologies and social innovation resources while working in collaborative cross-disciplinary teams to tackle projects that intentionally connect the capabilities of multiple DI Nodes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DI 20020 BE SMARTER THAN YOUR SMARTPHONE 3 Credit Hours
This course uses the development of the smart phone to illustrate the multi-disciplinary nature of design and innovation. It provides an understanding of the technologies that make the smartphone possible. Specifically, the course covers the role of research and design in product development, the changed in patterns and nature of our communications through smartphones, and the implications for businesses, markets and society. The aim of this course is to introduce the multidisciplinary nature of innovation using the smartphone as an example. It presents the complexities, challenges, and opportunities that the smartphone has created.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

DI 20100 INTRODUCTION TO DESIGN INNOVATION 3 Credit Hours
This course blends analytical skills, intuition and creative thinking to develop practical solutions to real world problems. Students will gain a high-level understanding of the design process through team-based projects tackling challenges. Design thinking, methods and strategies offer novel ways to discover market opportunities, experiment to validate concepts and mitigate risk, and deliver value to all. This will be a reflective lecture and small project-based course that addresses the programmatic, technical, business, social and human factors of design in a way that leads to innovation(s) in the development of integrated solutions. Learn how to engage with end users, effectively frame problems, identify potential solutions, build prototypes to test assumptions and learn what works (and doesn't). Then dive into a range of ways large and small to bring design innovation into your daily life.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

DI 30099 CHALLENGE-BASED INNOVATION (ELR) 3 Credit Hours
(Repeatable for credit) Challenge-Based Innovation (CBI) is a project and problem-based learning course, where multidisciplinary student teams and their instructors collaborate with faculty researchers, community and industry partners to discover novel solutions for the future of humankind. The projects are an elaborate mixture, proposed by cross-disciplinary faculty teams and derived from using research to tackle messy or complex problems to meet societal, human-driven needs. The multidisciplinary student teams act as catalysts in creating novel solutions to pressing problems.
Prerequisite: None.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab, Project or Capstone
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

DI 49095 SPECIAL TOPICS IN DESIGN INNOVATION STUDIO 1-6 Credit Hours
(Repeatable for credit) Analysis and cross-disciplinary problem-solving of significant and current issues in design innovation not covered in existing design innovation courses. This studio course is offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Studio
Contact Hours: 2-6 other
Grade Mode: Standard Letter

DI 49099 DESIGN INNOVATION WORKSHOP (ELR) 1-4 Credit Hours
(Repeatable for credit) This course supports brief, intensive and interactive activities that address a narrowly defined range of problems in which the content is practical and concentrates on the acquisition of specific information and skills related to practices in design innovation. The variable credit format allows for intensive challenges that might occur in short periods, and that it might be focused on a single problem.
Prerequisite: None.
Schedule Type: Project or Capstone, Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

DI 49995 SPECIAL TOPICS IN DESIGN INNOVATION 1-3 Credit Hours
(Repeatable for credit) Analysis and cross-disciplinary problem-solving of significant and current issues in design innovation not covered in existing design innovation courses. This course is offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

DI 49999 DESIGN INNOVATION GRAND CHALLENGES STUDIO PROJECT (ELR) 3 Credit Hours
(Repeatable for credit) A cross disciplinary project-based capstone course that collaboratively focuses on a single grand challenge. Challenges range from those identified by GrandChallenges.org, "solving global health and development problems for those most in need" to one of the "Grand Challenges for Engineering", to one from the list regularly updated by the National Science Foundation, to a pressing challenge identified by the faculty. Taught by a multidisciplinary team of primary instructors with input from industry leaders with complementary expertise, the collaborative effort of students, faculty members, industry partners and-or community leaders, focuses on developing robust multi-perspective, actionable solutions considering multiple criteria including but not limited to technical, socio-cultural and economic dimensions. Outcomes range from early designs, to physical prototypes or policy solutions with an understanding of how to take them to a next phase. Travel component may be included.
Prerequisite: None.
Schedule Type: Project or Capstone
Contact Hours: 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Honors (HONR)

HONR 10010 HONORS LEADERSHIP ACADEMY 2 Credit Hours
This course will examine effective leadership in the public and nonprofit sectors from both a theoretical and practical perspective. Using course readings, discussions, and assignments students will be challenged and equipped to serve as actively engaged citizens at the university and in the greater community. Students will examine the complexities of generational leadership, working in groups, using effective communication, inspiring a shared vision and purpose, group problem solving, and decision making, ethical leadership, civic engagement, and leading in communities of difference. This class will feature multiple learning methods including lectures, class discussion, case studies, group exercises, in and out-of-class assignments, presentations, and self-reflection. This course aims to teach first semester Honors freshmen students how to be engaged Honors College leaders from the beginning of their college career.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HONR 10096 INDIVIDUAL HONORS WORK 1-4 Credit Hours
(Repeatable for credit) Directed independent study for freshmen in any department.
Prerequisite: Special approval of department.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 10197 FRESHMAN HONORS COLLOQUIUM I (KCMP) 3 Credit Hours
(Repeatable for credit) Required of all honors freshmen and can be taken in lieu of College Writing. Stresses exploration, discussion and communication of ideas expressed in works related to theme of colloquium.
Prerequisite: Admitted to the Honors College.
Schedule Type: Colloquium
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Composition

HONR 10297 FRESHMAN HONORS COLLOQUIUM II (KCMP) 3 Credit Hours
(Repeatable for credit) Continuation of HONR 10197, and can be taken in lieu of ENG 21011.
Prerequisite: Admitted to the Honors College.
Schedule Type: Colloquium
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Composition

HONR 13597 COLLOQUIUM: THE WESTERN IDENTITY (KADL) 3 Credit Hours
(Repeatable for credit) Focuses on Western and non-Western cultures from a comparative perspective, in order to identify both different and shared values and to see how one's own culture shapes one's perspective, ideology, and values.
Prerequisite: Admitted to the Honors College; and special approval.
Schedule Type: Colloquium
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Kent Core Additional

HONR 20096 INDIVIDUAL HONORS WORK 1-4 Credit Hours
(Repeatable for credit) Directed independent study for sophomores in any department.
Prerequisite: Special approval of the department.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 20197 SOPHOMORE COLLOQUIUM 1-4 Credit Hours
(Repeatable for credit) One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to a single theme, by means of readings, discussion and individual papers and projects.
Prerequisite: Admitted to the Honors College.
Schedule Type: Colloquium
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 30096 INDIVIDUAL HONORS WORK 1-4 Credit Hours
(Repeatable for credit) Directed independent study for juniors in any department.
Prerequisite: Special approval of department.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 30197 JUNIOR COLLOQUIUM 1-4 Credit Hours
(Repeatable for credit) One-semester course or two-semester sequence for juniors or seniors exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.
Prerequisite: Admitted to the Honors College.
Schedule Type: Colloquium
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 30297 JUNIOR COLLOQUIUM 1-4 Credit Hours
(Repeatable for credit) One-semester course or two-semester sequence for juniors or seniors exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.
Prerequisite: Admitted to the Honors College.
Schedule Type: Colloquium
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 40085 SENIOR HONORS PORTFOLIO 1 Credit Hour
Construction of a senior portfolio, consisting of a collection of artifacts and a reflective essay interpreting the student's growth during the college years.
Prerequisite: Senior standing.
Schedule Type: Individual Investigation
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

HONR 40096 INDIVIDUAL HONORS WORK 1-4 Credit Hours
(Repeatable for credit) Directed independent study for seniors in any department.
Prerequisite: Prior special approval of instructor; and special approval of and preregistration with Honors College.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 40099 SENIOR HONORS THESIS/PROJECT (ELR) 1-10 Credit Hours
(Repeatable for credit) Thesis or creative project.
Prerequisite: Special approval of department.
Schedule Type: Senior Project/Honors Thesis
Contact Hours: 1-10 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

HONR 40197 SENIOR COLLOQUIUM 1-4 Credit Hours
(Repeatable for credit) One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.
Prerequisite: Admitted to the Honors College.
Schedule Type: Colloquium
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

HONR 40297 SENIOR COLLOQUIUM 1-4 Credit Hours
(Repeatable for credit) One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.
Prerequisite: Admitted to the Honors College.
Schedule Type: Colloquium
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

Honors Program

Honors College
www.kent.edu/honors

About This Program

Explore Kent State University's Honors program, designed to provide exceptional students with unique academic opportunities and challenges. Engage in small, discussion-based classes, pursue independent research projects and participate in enriching experiential learning activities. Join a vibrant community of scholars and leaders, where intellectual curiosity and academic excellence thrive. Read more...

Contact Information

- **Olof Thordardottir** | othordar@kent.edu | 330-672-2312
- Speak with an Advisor
  - East Liverpool Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Location:**
  - East Liverpool Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus

Admission Requirements

The Honors College seeks incoming students who demonstrate the potential for superior academic and creative ability at Kent State University. Admission to the Honors College for new undergraduate students is by invitation only. In addition to reviewing the student's admission application, the college conducts a holistic review of many variables, including, but not limited to, high school performance (curriculum, grade point average), essay, extra-curricular activities and work experiences. Standardized tests are considered but not required for admission to the Honors College.

Program Requirements

Honors section of courses can be used to meet requirements in all degree granting colleges and schools of the university and to also satisfy Kent Core requirements. All new honors students are enrolled in the year-long colloquium (HONR 10197 and HONR 10297). The colloquium is designed to be a rigorous course in reading, thinking and writing about literature and ideas. The goal of the courses are to develop habits of intellectual inquiry, mature understanding and effective communication that will serve the students through the college years and afterward.

Beyond the honors colloquium courses, many Honors courses are offered by distinguished faculty from academic departments throughout the university. Although these courses differ significantly in content, from art to zoology, they share a common form. Class enrollments are small, and students can get to know each other and their professors in an environment that encourages learning through discussion, reading, individual work and writing.

Seniors in the Honors College can conclude their undergraduate careers by completing a sustained scholarly or creative project under faculty guidance. Theses and projects have been submitted by seniors from all of the degree-granting colleges and schools at Kent State University and have ranged over many disciplines and areas of creative endeavor. Novels and plays have been written; research has been undertaken in the natural and social sciences; historical events and periods have been critically analyzed; architectural models have been proposed for urban renewal sites; and paintings and films have been created and exhibited. Each thesis/project attests to the willingness of Honors students to extend learning beyond the classroom to self-directed efforts appropriate to the conclusion of an enriched program of study.

Graduation Requirements

The college offers three programs for Graduation with Honors. Although each has minimum overall GPA requirements, the primary emphasis is on the successful completion of an undergraduate degree program, including a Senior Honors Thesis or Project.

- Graduation with Departmental Honors requires completion of a Senior Honors Thesis or Project and a minimum 3.5 overall GPA. The requirements are sufficiently flexible to enable undergraduates who join the college in their junior year to participate in this program.
- Graduation with General Honors requires completion of a Senior Honors Thesis or Project plus 24 Honors College credit hours and a minimum 3.5 overall GPA.
- Graduation with University Honors requires completion of a Senior Honors Thesis or Project plus 24 Honors College credit hours and a minimum 3.8 overall GPA.

Students who do not wish to complete a Senior Honors Thesis or Project to graduate with Honors may alternatively finish 24 Honors College credit hours and achieve a minimum 3.25 overall GPA to graduate from the university as Honors College Scholars.

The Honors Concept

The Honors College is guided by two basic principles:

- The first is a responsibility to provide academic work that offers intellectual challenge to the best students in the university and demands of them the best effort of which they are capable. To this end, courses are designed to stretch the mind, sharpen skills and encourage high standards of performance.
- The second principle is a belief that, regardless of degree program, students should be liberally educated. That is, they should understand and appreciate the language, literature and history of our culture; the social, political and economic structure of our society; the creative achievements that enrich our lives; and the basic assumptions and substance of the natural sciences. Honors students are, therefore, encouraged to select courses that provide an understanding of the arts, humanities and sciences.

Honors Advising

Students meet with their Honors College advisors at least once per semester. During advising meetings, students are encouraged to develop long-range plans to organize their academic work and co-curricular experiences in accordance with their interests and career aspirations.

Community

The Stopher-Johnson complex is located at the center of campus. Honors student living there have the best of worlds - a nurturing and stimulating experience with other Honors students as well as convenient access to the surrounding Kent State campus community.

The Honors complex includes the three-story Johnson and Stopher Residence Halls, a library/computer room, a reception lobby and advising offices. Students live just steps from the Honors College dean and its academic advisors.

Student involvement in the affairs of the college is a tradition. For example, Honors students are eligible to serve on the Honors College College Advising Committee.

Scholarships

All new students who are admitted to the Honors College will automatically be considered for an Honors College scholarship award. Honors College scholarships are renewable for maximum eight semesters of undergraduate work, provided students remain in good standing with the Honors College. These scholarships are in addition to university awards.

University College

University College
Center for Undergraduate Excellence
Kent Campus
330-672-0980
www.kent.edu/universitycollege

Mission of the College

The mission of the University College is to help foster an inclusive environment that empowers all students to explore, engage and succeed.

The college's record of innovation includes 20 national awards, three internationally certified programs and nearly $10 million in grant funding in the past several years.

Initiatives in the University College for students to succeed include the following:

- Students who regularly attend services offered by the Academic Success Center are 17 percent more likely to return for the next academic year and had a graduation rate 18.9% higher than their classmates.
- Students who attend Academic Success Center sessions GPA 0.26 points, on average, higher than their classmates.
- The college's Office of Career Exploration and Development helps our students find on-campus employment, and these students are more likely to earn higher grades and stay in school.

- Our Career Exploration and Development mantra is “Early and Often” – The results are that first-year students engage in career experiences at the same rate as junior and senior students.
- Students who participate in the Exploratory Advising Center’s Exploratory Learning Community are nearly 10 percent more likely to return to Kent State compared to their peers.
- Student Support Services exceeded all Ohio Department of Education performance goals by 10 percent or more.

Academic Programs

Pre-Major

- Exploratory

Special Program - Non-Degree

- Cooperative Education Program

University College (UC)

UC 10001 FLASHES 101 1 Credit Hour
(Equivalent to UC 10002 or UC 20007) Course aims to foster a university-wide sense of belonging; promote engagement in the curricular and co-curricular life of the university; articulate what students can expect from and contribute to their community; and help students continue to clarify their purpose, meaning and direction. This course is required for all new degree-seeking, first-time students to Kent State. The course is not required for transfer students with 30 or more credit hours or students who are admitted as an adult student.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

UC 10002 ADULT STUDENT ORIENTATION 1 Credit Hour
(Equivalent to UC 10001) Course focuses on balancing adult roles and responsibilities with college demands. Students sharpen learning skills and study strategies while making connections with other adult students at Kent State.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Satisfactory/Unsatisfactory

UC 10095 SPECIAL TOPICS IN UNIVERSITY COLLEGE 1-3 Credit Hours
(Repeatable for credit) Variable topics course that covers areas not treated adequately in traditional coursework related to student success and the student experience.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UC 10096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours
(Repeatable for a maximum of 6 credit hours) Experiential learning opportunity, working with a faculty member in his or her area of expertise.
Prerequisite: None.
Schedule Type: Individual Investigation
Contact Hours: 1-6 other
Grade Mode: Standard Letter-IP

UC 10162 INTRODUCTION TO PROFESSIONAL DEVELOPMENT 1 Credit Hour
Course exposes students to professional skills and competencies they will need and use in the future. Students begin to develop important career ready competencies. Students learn about the art of networking and relationship building, what it means to be culturally agile, how to succinctly present themselves (elevator pitch and executive summaries), how to use career job sites and resources for career exploration and-or researching companies. Students must have satisfactorily completed UC 10001 before taking this course.
Prerequisite: Ambassador Crawford College of Business and Entrepreneurship major or College of Applied and Technical Studies major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 10192 EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR) 1 Credit Hour
(Repeatable for maximum 2 credits) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

UC 20007 LIFE BEYOND KSU 1 Credit Hour
(Equivalent to UC 10001) Equips students with the knowledge and tools critical for entering the professional world through research and application of career-related concepts and activities. Reserved for students who have not successfully completed the Flashes 101 course.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 20010 CAREER NAVIGATION: CONSTRUCTING POSSIBILITIES 2 Credit Hours
Navigating a career and life planning can be complex. Course is designed to equip students with self-awareness, knowledge and skills useful in deciding how to use opportunities to build meaningful futures and how to maintain flexibility and adaptability in the work environment. Students learn how to balance planning with uncertainty and navigate a lifetime of meaningful occupational realities. Through experiential activities, discussions and reflective exercises, students gain self-understanding and connect academic opportunities to careers and specializations in career fields. Designed for students who have not yet declare a major, are interested in finding personal meaning and mattering in occupational and life decisions or are contemplating or engaged in life and career exploration or change.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

UC 20011 CAREER CONFIRMATION 1 Credit Hour
This course is designed to support students as they develop a professional self-image, explore their personal work values and learn about important decision-making skills needed to navigate the workforce. Through hands-on application, activities and reflective exercises, students will develop skills needed to network with professionals, approach work with an equitable perspective and practice, and connect vocational identity to community belonging. This course is designed for exploratory students who are close to a decision, or students with a declared major who are exploring post-graduation paths. This course will support the student's journey to build a professional mission that guides the development of short- and long-term career goals.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 20095 SPECIAL TOPICS IN UNIVERSITY COLLEGE 1-3 Credit Hours
(Repeatable for credit) Variable topics course that encourages interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UC 20193 VARIABLE TITLE WORKSHOP IN UNIVERSITY COLLEGE 1-3 Credit Hours
(Repeatable for credit) Workshop focused on variable topics.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

UC 20201 PEER SUCCESS ACADEMY 2 Credit Hours
The P.E.E.R. (Peer Experiential Education and Reflection) Success Academy is designed to train students to cultivate and nurture critical skills that serve as a foundation for peer educator positions across Kent State University. The course curriculum is designed to be hands on, immersing students in skill development with content pertaining to mentorship, leadership, group dynamics, personal strengths, problem solving, value free advice, diversity, equity, inclusion and belonging, emotional intelligence, conflict management and self-wellness.
Prerequisite: UC 10001.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Satisfactory/Unsatisfactory

UC 20203 THEORY AND PRACTICE OF PEER TUTORING 1 Credit Hour
Preparation for tutoring in several academic areas. Emphasis on the student as learner. Introduction to current learning theories. Opportunities provided to adapt learning strategy to particular disciplines. Field experience included.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 20250 COLLEGIATE LEADERSHIP COMPETITION 2 Credit Hours
This experiential, competency-based course is designed to help students become more aware of a wide range of managerial and leadership concepts. Students will develop leadership skills and gain an opportunity to build their resume and professional network. This course will increase the student's understanding of personal strengths and areas for improvement by stretching them to the boundaries of their knowledge, skills, and abilities. Likewise, students will build skills around ethical decision making, problem solving, negotiation, conflict management, and presentation skills. Students will represent Kent State University at the Collegiate Leadership Competition against other schools in the Great Lakes Region.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

UC 20260 (R)EVOLUTION LEADERSHIP 1 Credit Hour
The (R)evolution leadership course is an experiential, competency-based course designed to equip students with the tools and the introspection they need to be successful leaders and engaged community members in a complex and ever changing landscape. Students are taken through a series of leadership modules and develop a capstone project that will utilize the skills they have gained and make a positive impact on the community.
Prerequisite: None.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 20292 EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR) 1 Credit Hour
(Repeatable for maximum 2 credits) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

UC 30202 FLASHES 101: PEER SUCCESS MENTOR SEMINAR 2 Credit Hours
(Repeatable a maximum of 4 credits) Required of all student success leaders who are paired with a faculty member in assisting with UC 10097. Students need to meet the minimum requirements for the college or department in which they serve as a student success leader.
Prerequisite: UC 20201.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory

UC 30392 EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR) 1 Credit Hour
(Repeatable for credit) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

UC 31000 MCNAIR RESEARCH METHODS I 1 Credit Hour
This course is part one of the McNair Research Methods series, which provides students in the McNair Scholars Program with practical research skills and professional development. The primary goal of the course is to prepare you to successfully complete all stages of your faculty-mentored independent research projects and to explore options for graduate study.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 31001 MCNAIR RESEARCH METHODS II 1 Credit Hour
This course is part two of the McNair Research Methods series. This course will continue to provide students in the McNair Scholars Program with practical research skills and professional development. The primary goals of the course are to prepare Scholars to successfully complete all stages of their faculty-mentored independent research projects and prepare for graduate study.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 40010 MCNAIR SCHOLARS SEMINAR I 1 Credit Hour
McNair Scholars are required to take this course after participation in Summer Research Institute. The course provides training related to the graduate school application process. This course will assist scholars with applying to graduate school programs, further developing research projects, and navigating the personal, professional and technical challenges in completing a graduate degree. The prerequisites for this course are acceptance to the McNair Scholars Program and successful completion of the Summer Research Institute.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

UC 40201 PEER SUCCESS TRAINER SEMINAR 3 Credit Hours
Course provides training and skill development for experienced student leaders involved in assisting with training student peers enrolled in UC 20201, P.E.E.R. Success Academy.
Prerequisite: UC 30202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UC 40202 FLASHES 101: PEER SUCCESS COACH SEMINAR 3 Credit Hours
The seminar course is designed for Peer Success Coaches to develop effective coaching strategies, methods, and habits to support Peer Success Mentors in their role. Throughout the course, Peer Success Coaches will learn how to develop, implement, and facilitate group check-in activities that position the Peer Success Mentors to cultivate a peer success network within the larger group for support.
Prerequisite: UC 30202.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UC 40492 EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR) 1 Credit Hour
(Repeatable for credit) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

UC 41010 MCNAIR SCHOLARS SEMINAR II 1 Credit Hour
McNair Scholars are required to take this course after participation in Summer Research Institute. This course provides training related to the graduate school application process. This course will assist scholars with applying to graduate school programs, further developing research projects, and navigating the personal, professional, and technical challenges in completing a graduate degree. Registration is restricted to McNair Scholars. The prerequisites for this course are acceptance to the McNair Scholars Program and successful completion of the Summer Research Institute.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

Cooperative Education Program

University College
Department of Career Exploration and Development
www.kent.edu/career/co-op

About This Program

Looking for a way to gain professional work experience while earning your degree? Look no further than Kent State University's Cooperative Education Program. Our co-op program provides students with the opportunity to alternate between full-time semesters of classroom instruction and full-time semesters of paid, professional work experience in their field of study. Read more...

Contact Information

- Program Coordinator: **Karen Steiner** | ksteine1@kent.edu | 330-672-8367
- Speak with an Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula
  - East Liverpool
  - Geauga
  - Kent
  - Salem
  - Stark
  - Trumbull
  - Tuscarawas
  - Twinsburg Academic Center

Admission Requirements

- Students must have one semester as a degree-seeking student at Kent State prior to their first co-op rotation.
- Students must be enrolled as a half- or full-time student (minimum 6 credit hours) in the semester prior to enrollment in the co-op education program.
- Students must have earned a minimum 2.000 overall GPA at the time of their co-op application.
- Students must have no holds on their student's record from any source (financial, academic, conduct).
- Cooperative position must be approved and relevant to students' career direction.
- Students must have received a completed grade and have resolved any outstanding non-completed grades for previous co-op rotations.
- International students must receive work authorization prior to enrolling in each co-op rotation.

The University College will work with the student's college to assess all applicants holistically, considering their academic progress, related experience, academic and extracurricular activities, among others, to evaluate the student's likelihood of success in the program.

Full Description

Students in Kent State University's Cooperative Education Program (co-op) enhance their degree program by relating theory to practice and applying what they have learned in the classroom to real-life workplace scenarios. This process of "learning by doing" increases student motivation and employability after graduation and maximizes student growth and development. Through a co-op experience, students explore career and academic options, test career choices, increase professional skills and earn money to contribute to educational expenses. Cooperative education experiences are highly desired, selective and in the student's chosen field.

All students participating in a co-op experience must register for COOP 20092 (non-credit, offered through University College) and pay the co-op fee. Enrollment in the course is restricted by special approval, and students may only register after submission and approval of all application forms. Enrollment in the course will ensure the student is designated and reported as a full-time student and permit the student to have access to all student services and resources during the co-op semester. Students participating in a cooperative education course do not earn credit hours the semester away. As a result, students are not eligible to receive federal or state grants, student loans or institutional scholarships. However, students will be reported to their federal loan services as enrolled full-time, allowing for student loans to remain in the in-school deferment status and therefore not enter repayment.

Exploratory Program

University College
Exploratory Advising Center
www.kent.edu/exploratory

About This Program

Looking for an opportunity to explore various majors and career paths before deciding on a bachelor's degree? Check out Kent State University's Exploratory pre-major. Through personalized advising, career assessments and workshops, you can find your passions and identify the path that best suits you. Read more...

Contact Information

- **Jordan Edelman (Kent Campus)** | explore@kent.edu | 330-672-3676
- Speak with an Academic Advisor
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus
  - Salem Campus
  - Stark Campus
  - Trumbull Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Kent Campus

- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

Examples of Declared Majors

The top majors declared by students earning a degree from Kent State in 2021 who started in the Exploratory program:

- Psychology
- Business Management
- Communication Studies
- Marketing
- Finance
- Speech Pathology and Audiology

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Code	Title	Credit Hours
Program Requirements		
UC 10001	FLASHES 101	1
Exploratory Electives, choose from the following:		8
UC 20010	CAREER NAVIGATION: CONSTRUCTING POSSIBILITIES	
UC 20011	CAREER CONFIRMATION	
UC 20201	PEER SUCCESS ACADEMY	
Other related courses with approval of advisor		
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
Minimum Total Credit Hours:		**45**

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**16**
	Semester Two		
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Exploratory Elective		3
		Credit Hours	**15**
	Semester Three		
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Exploratory Electives		5
		Credit Hours	**14**
		Minimum Total Credit Hours:	**45**

Program Learning Outcomes

Completers of this program will be able to:

1. Identify their majors of#interest.
2. Relate their major interests to future career possibilities.
3. Develop#meaningful relationships within the Exploratory community.

4. Identify available resources and support for individual success.
5. Report feeling confident about declaring their major.

Full Description

The Exploratory pre-major affords a tremendous opportunity for students to engage in meaningful and experience driven self-discovery — leading to confidence in themselves and their major declaration. Students benefit from the guidance, advising and support offered in the Exploratory program. Beginning in a student's first semester, students partner with academic advisors through a personalized exploration process.

The Exploratory pre-major does not lead to a degree. Students must declare a degree-granting major by the time they have earned 45 credit hours at Kent State University.

The Exploratory pre-major is housed in the Exploratory Advising Center. The Exploratory Advising Center values the following:

1. Validating and celebrating the **uniqueness** of each student
2. **Relationship**-building and **authentic** conversations
3. Openness to learning and **curiosity**
4. Building **resiliency** and **confidence** in decision-making
5. Being present in the now and being open to **future possibilities**

The Exploratory pre-major may be a good fit for students who are:

- Undecided in a major of interest;
- Looking to take time to make an informed decision;
- Wanting to gain a better understanding of themselves;
- Looking to discover different career possibilities; and
- Wanting to build confidence in decision making.

Exploratory students meet with their assigned exploratory advisor at least once a semester. These expert academic advisors are focused on partnering with the student. This partnership includes guiding students through their personalized exploration plan, keeping them on track to declare their major (and staying on track to graduate as planned) and celebrating their major declaration and graduation.

ACADEMIC POLICIES

A

- A and AS Levels
- Academic Standing - Graduate Student
- Academic Standing - Undergraduate Student
- Accommodations for Student Religious and Spiritual Beliefs
- Admission of Former Graduate Students
- Admission of Graduate Guest Students
- Admission of Graduate Non-Degree Students
- Admission of Graduate Students
- Admission of Non-Traditional Master's Degree Students
- Admission of Transient Students
- Admission of Undergraduate Students
- Admission to International Pathway Program
- Advanced Placement (AP)
- Alternative Credit Programs
- Alternative Credit-Testing Eligibility
- Award of a Master's Degree to a Doctoral Student

C

- Candidacy for Doctoral Degree
- Catalog Rights and Exclusions
- Change in Graduate Program of Study
- Class Attendance and Class Absence
- Classification of Undergraduate Students
- College Credit Plus
- College Level Examination Program (CLEP)
- College Tech Prep (CTP)
- Combined Bachelor's/Master's Degree Program
- Core and Critical Reading Strategies Placement
- Course Numbering System
- Course Overload
- Course Privilege for Doctoral Students
- Course Repeat
- Course Withdrawal
- Credit By Examination (CBE)
- Credit-Hour Requirement for Graduation
- Credit/No Credit Grade

D

- DANTES Subject Standardized Tests (DSST)
- Developmental Coursework
- Dismissal and Appeal - Graduate
- Dismissal, Appeal and Reinstatement - Undergraduate
- Dissertation for the Doctoral Degree
- Diversity Course Requirement
- Dual Degrees and Double Majors

E

- Eligibility for a Doctoral Degree
- English Placement
- Enrollment - Graduate
- Enrollment Definitions
- Experiential Learning Requirement
- Exploratory and General Majors

F

- Flashes 101 (New Student Orientation)
- Foreign Language Placement

G

- Grade Point Average (GPA)
- Grade Point Average (GPA) Adjustment
- Grade-/Mark-To-Grade Change Policy
- Grading Policies and Procedures
- Graduation
- Graduation Planning System (GPS)

H

- Honors at Graduation

I

- Incomplete Mark Policy
- Industry-Recognized Certifications, Examinations and Professional Training
- International Baccalaureate (IB)

K

- Kent Core (General Education Requirement)

L

- Language Requirement for Graduate Students
- Leave of Absence for Graduate Students

M

- Mathematics Placement
- Midterm Evaluation
- Military Training
- Minors

O

- Ohio Articulation and Transfer Policy
- Orientation for Graduate Students

P

- Program Progression Requirements - Undergraduate

Q

- Qualifying Examination for Master's Degree

R

- Registration
- Remote Participation in a Thesis or Dissertation Defense
- Residence Requirement
- Retroactive Credit

S

- Selective Service Requirement
- Semester System
- Sequential Coursework
- Standardized Test Score Reports
- Student Conduct
- Student Responsibilities

T

- Thesis for the Master's Degree
- Time Limits for Graduate Programs
- Transcripts
- Transfer of Graduate Credit
- Transfer of Undergraduate Credit

U

- Undergraduate Students Enrolling in Graduate Courses
- University Readiness Standards and Placement Assessment
- Upper-Division Requirement

W

- Workshops for Graduate Students
- Writing-Intensive Course Requirement

A and AS Levels

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Kent State accepts for credit the successful completion of A (Advanced) Level and AS (Advanced Subsidiary) Level qualification conferred as part of the General Certificate of Education administered by AQA, Edexcel or the University of Cambridge International Examinations.

The A and AS Levels Credit Chart gives information about these exams and credits earned for passed exam reports. The chart reflects Cambridge exam numbers and syllabi, but exams from other sources will be cross-referenced by the Office of Global Education in consultation with faculty upon evaluation of scores.

An official score report must be submitted to Kent State before A- and AS-level credit can be applied to a student's academic record. Specific questions regarding how these credits apply to program requirements should be directed to the student's major program's college office.

Academic Standing - Graduate Student

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Effective Date: Fall 2025
Last Reviewed: Fall 2024
Last Revised: Fall 2013
Next Review: Fall 2034

Policy Statement

Good academic standing indicates that students are meeting university and program requirements and are making satisfactory progress towards their academic program. The definition of satisfactory performance and progress toward completion may differ among programs; therefore, it is imperative that each graduate program have these requirements in writing in their graduate handbook and distribute them to graduate students when they matriculate into the program.

Progress Toward Degree Completion

All graduate students are expected to meet university and program requirements, and to make progress toward completion of their program. This progress includes satisfying the conditions listed below and achieving the requirements set by the individual program.

Students who fail to satisfy the requirements of their program and/or the conditions outlined below may be dismissed from the program.

1. Students must maintain their status as degree-seeking by registering for, at minimum, 1 graduate credit hour that contributes to their degree requirements as determined by their graduate program each year (defined as three consecutive terms, including summer as one term) or by taking an approved leave of absence. Courses taken for audit and course withdrawals will not be counted as fulfilling the minimum enrollment requirements. Meeting this minimum enrollment requirement does not guarantee students will meet the minimum requirements of other programs, offices or agencies.
2. Students are expected to maintain a minimum 3.000 grade point average (GPA).[1] Some programs have minimum academic standards that may exceed the overall university standards and are listed in the University Catalog.
3. Doctoral degree students must comply with the time limits for passing candidacy. Reference policy on Candidacy for Doctoral Degree.
4. Students must comply with the policy of Time Limits for Graduate Programs.

In addition to the performance and progress made upon the conditions listed above, individual programs will review student performance in the fulfillment of the program's requirements. Consideration may include, but is not limited to, such factors as performance during informal coursework and seminars; research capability and performance; professional standards of conduct; and the number of AU (Audit), IN (Incomplete), IP (In Progress) and W (Withdrawal) administrative marks on a student's record. Violations of the administrative policy on plagiarism and cheating may also impact a student's academic standing.

Grades of C- and below are not counted toward completion of requirements for any graduate degree, minor, certificate, endorsement, licensure and other non-degree programs, but are counted in the graduate GPA. Credit hours earned in undergraduate courses are not counted toward completion of any graduate degree or certificate and are not counted in the graduate GPA. A change by a graduate student from one department or program to another does not remove from the student's GPA the grades that were earned in the first enrollment. Refer to the Grading Policies and Procedures in the University Catalog for information on grades and administrative marks and their application to the GPA.

Review of Academic Performance

Each graduate program should review the academic performance and progress of its students, according to university and program requirements, at least once per academic year. Reviews may result in one of four outcomes:[2]

1. No action
2. Warning
3. Probation
4. Dismissal

(1) No Action

If a student's performance and progress are satisfactory, the program may provide the student with written communication regarding the student's satisfactory performance and progress in the program.

(2) Warning

A warning may be issued to a student if the student's performance and/or progress falls slightly below expectations (e.g., failure to make timely progress on thesis or dissertation; overall GPA is 3.000 or higher, but term GPA is below 3.000).

The department chair, school director or program coordinator administrating the program will provide the student with written communication regarding the warning, including expectations for future performance and a timetable for the correction of deficiencies. Warnings are documented by the graduate program and may be communicated to the college dean, or designee.

(3) Probation

Students are placed on academic probation at the end of any semester in which their overall Kent State GPA in graduate courses within the current program is below 3.000. Students must complete 6 graduate credit hours at Kent State before being subject to academic probation. Enrollment is permitted only on a term-by-term basis until the probation is removed.

The department chair, school director or program coordinator administrating the program will provide written communication and contact the student to schedule a probationary meeting. The purpose of the probationary meeting is to review expectations for future performance and create a timetable for the correction of deficiencies.

Students must obtain a minimum 3.000 semester GPA in the first semester of probation. Failure to do so will result in academic dismissal.

Students who earn a 3.000 or higher semester GPA in their first semester probation but still have an overall GPA below 3.000 will be given one additional term to raise their overall GPA to 3.000 or higher. Failure to do so will lead to academic dismissal.

Exceptions:

- A student on an official leave of absence cannot be issued academic probation.
- If a student on academic probation does not take any graded (A-F) coursework, then that semester will not count as their semester of probation.
- A second semester of academic probation requires approval of the student's school/department and college dean.
- Any further extensions or exceptions require approval of the student's school/department, college dean and the Graduate College.

Students are not eligible to begin a new graduate assistant position while on academic probation.

Students in the College of Podiatric Medicine will have the probation noted on their student record, including the official transcript.

Coursework used in raising the student's GPA must be a part of normal program requirements and must be approved in advance by the program. The department chair, school director or program coordinator must notify the college dean, or designee, of the review outcome.

(4) Academic Dismissal

Review of a student's performance, progress and adherence to professional standards in a graduate program may result in a recommendation for academic dismissal. Refer to the **Dismissal and Appeal—Graduate** policy in the University Catalog for more information.

[1] Refer to the College of Podiatric Medicine's section in the University Catalog for GPA expectations for students seeking the Doctor of Podiatric Medicine degree.

[2] The College of Podiatric Medicine has two additional outcomes:

1. **Dean's List.** Full-time students in the College of Podiatric Medicine who have a minimum 3.500 current GPA for the fall and spring semesters and earned no grade below a C or S (Satisfactory) in all course/rotation work will be cited on the Dean's List at the end of each semester. Only students taking a full course load will be eligible for the Dean's List. College of Podiatric Medicine students are ranked at the end of each semester according to their overall grade point averages. Ranking is done on an individual basis by class year.
2. **Good Standing.** Students in the College of Podiatric Medicine and/or the College of Nursing are considered to be in good standing if they are meeting course and/or program expectations and have not failed any requirements.

Reason for Policy

This policy provides clear guidelines regarding student status related to warnings and probationary status and creates a consistent approach for student progress to prevent dismissal. The policy also clarifies minimum GPA and guidelines for students to know what they must earn when in status of probation.

Procedures

The academic status of graduate students is reviewed by the student's department at the end of each semester. Good academic standing is defined by a student achieving both of the following:

- Minimum 3.000 semester GPA and
- Minimum 3.000 overall GPA

Once status is determined, the department chair, school director or program coordinator administrating the program will provide the student with written communication regarding the consequences of academic status, i.e., warning or probation.

Upon exceeding the term of probation, the department chair, school director or program coordinator will submit recommendation for dismissal following the Dismissal and Appeal—Graduate policy.

Forms/Instructions

There are no additional forms or instructions associated with this policy.

Additional Resources

There are no additional resources associated with this policy.

Frequently Asked Questions

1. **What are my options if I have been given a warning or placed on probation?**
   Students who have a question or concern related to warning or probation status may contact the Student Ombuds.
2. **Will a warning or probation appear on my transcript?**
   No, a warning or probation will not appear on a student's transcript.

Definitions

Minimum GPA: A minimum GPA is no more than 6 credits of grades below a 3.000.

Warning notice: A warning notice will be sent from the academic unit to students whose semester GPA falls below a 3.000.

Probation: The academic status condition in which a student's overall GPA is below 3.000.

Related Information

- Administrative Policy Regarding Student Cheating and Plagiarism
- Candidacy for Doctoral Degree
- Dismissal and Appeal—Graduate
- Grading Policies and Procedures
- Leave of Absence for Graduate Students
- Time Limits for Graduate Programs

Revision History

Amended August 2025: Revised policy removes variance by credit hour (8 credit hours of grades lower than a B or more than 4 credit hours lower than a C) to be subject to dismissal; adds reference to minors, certificate, endorsement, licensure and other non-degree programs; clarifies probation and amount of time allotted to be in good standing; and requires students to be in good standing to begin a new graduate assistantship.

Effective August 2013: Establishes of a policy on academic standing for graduate students to replace current policies on dismissal and dismissal appeals.

Academic Standing - Undergraduate Student

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Because undergraduate students must earn a minimum 2.000 overall grade point average (GPA) to graduate from the university, they must maintain that average throughout the undergraduate years. Students whose GPA falls below 2.000 should make a positive effort to improve their academic performance. Such students should devote their entire attention and energies to their studies by improving study habits and concentrating on such basic skills as composition, reading and mathematics.

The following academic standing designations apply to undergraduate students:

President's List

In recognition of an extremely high level of academic excellence, a President's List is compiled each academic semester. To qualify, students must have a 4.000 GPA in the semester and must have completed 15 or more credit hours (all of which must have regular letter grades) by the end of that semester. This notation will be printed on students' official transcripts.

Dean's List for Full-Time Students

In recognition of academic excellence, a Dean's List is compiled each academic semester. To qualify, students must have a minimum 3.400 GPA in the semester and must have completed 12 or more regular letter-graded credit hours by the end of that semester. This notation will be printed on students' official transcripts.

Dean's List for Part-Time Students

A Dean's List for Part-Time Students is compiled after spring semester grades are issued. To qualify, students must have a minimum 3.400 GPA in 12 or more regular letter-graded hours taken during the previous summer, fall and spring semesters. Such students must have registered for fewer than 12 hours in each of the semesters under consideration. This notation will be printed on students' official transcripts.

In Good Academic Standing

Students with a minimum 2.000 GPA are in good academic standing. Students with an overall GPA below 2.000 are placed on academic probation. Good academic standing is not the same as eligibility for financial aid or for participation in other activities of the university such as athletics, student organization leadership, extracurricular activities, etc. For information about eligibility standards, students should contact the appropriate office or organization.

Midterm Warning

Students who earn a midterm GPA of less than 2.000 will be placed on midterm warning.

Semester Warning

Students with a minimum 2.000 overall GPA who earn a semester GPA of less than 2.000 in any given semester will be placed on semester warning.

Selected Academic Program Warning

If a student's GPA does not meet the standards required for a selective program, the dean may place the student on selective academic program warning. The student would be allowed to remain enrolled in the selective major while attempting to improve academic performance.

Program Progression Requirements

Students not progressing academically in their selected academic program will be deemed not permitted to continue based on criteria established by their program area. Refer to the Program Progression Requirements policy in the University Catalog for more information.

Academic Probation

Students who fail to maintain a minimum 2.000 overall GPA will be placed on academic probation. This probation signifies that the cumulative performance is below the minimum university requirement for graduation. Probation is an emphatic warning to the students that the quality of their academic performance must improve if they are to obtain the minimum grades required for graduation. Students on probation must show considerable improvement in their academic work or they will be dismissed from the university. Students on probation must reduce their course load to 15 hours and may receive a prescription from the dean of their college or campus that they further reduce their hours carried until removed from probation. The students also should reduce participation in social and extracurricular activities. Students are removed from probation only when they have achieved a minimum 2.000 overall GPA. Students on probation will be notified by their dean's office.

In addition, the following students will be placed on academic probation:

1. Students reinstated to the university after being dismissed because of poor scholarship.
2. Transfer students whose cumulative records at all previous institutions do not meet the minimum GPA requirements of Kent State University.

Academic Dismissal

Students whose academic performance indicates a limited chance of obtaining the minimum grades required for graduation will be subject to dismissal from the university. Refer to the Dismissal, Appeal and Reinstatement–Undergraduate policy in the University Catalog for more information.

Accommodations for Student Religious and Spiritual Beliefs

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Date Effective: June 12, 2023

Policy Statement

A student will be granted up to three days each academic term to take holidays for reasons of faith or religious or spiritual belief system, or participate in organized activities conducted under the auspices of any religious or spiritual organization. Kent State University shall not impose an academic penalty as a result of a student being absent as permitted in this policy.

Students will be provided with alternative accommodations with regard to examinations and other academic requirements missed due to an absence, if both of the following apply:

- The student's sincerely held religious belief or practice severely affects the student's ability to take an examination or meet an academic requirement; and
- Not later than 14 days after the first day of instruction in a particular course, the student provides the instructor with written notice of the specific dates for which the student requests alternative accommodations.

The instructor shall accept without question the sincerity of a student's religious or spiritual belief system. An instructor shall keep requests for alternative accommodations confidential. An instructor shall schedule a time and date for an alternative examination, which may be before or after the time and date the examination or other academic requirement was originally scheduled but shall do so without prejudicial effect.

Instructors are required to include in each course syllabus a statement regarding this policy. The statement shall include a description of the general procedure for requesting accommodations and contact information for an individual whom a student may contact for more information about the policy.

Reason for Policy

The purpose of this policy is to establish procedures to reasonably accommodate the sincerely held beliefs and practices of individual students with regard to all examinations or other academic requirements and absences for reasons of faith or religious or spiritual belief system consist with Ohio Revised Code 3345.026.

Procedures

Students requesting alternative accommodations in a course due to religious belief or practice must provide the course instructor written notice no later than 14 days after the first day of instruction in that course. Students with concerns about an alleged violation of this policy are encouraged, but not required, to first discuss those concerns with their instructor. Students may also notify the university of any complaint following the Administrative Policy and Procedure for Student Academic Complaints (3342.4-02.3).

Forms/Instructions

- Non-exhaustive list of major religious holidays or festivals
  This list may not be used to deny accommodations to a student for a holiday or festival of the student's faith or religious or spiritual belief system that does not appear on the list. No inclusion or exclusion of a religious holiday or festival on the list shall preclude a student from full and reasonable accommodations for any sincerely held religious beliefs and practices with regard to all examinations or other academic requirements and absences for reasons of faith or religious or spiritual belief system provided under this policy.

Additional Resources

- Office of the Student Ombuds
- Office of Compliance, Equal Opportunity and Affirmative Action

Frequently Asked Questions

There is no FAQ associated with this policy.

Definitions

- **Ohio Revised Code:** The codified law of the state of Ohio found at codes.ohio.gov/ohio-administrative-code.
- **Instructor:** Instructor of record with the primary responsibility for course instruction, including the assignment of appropriate grades.
- **Syllabus:** An outline or a summary of the main points of what will be expected of students in a course, provided by the course's instructor.

Related Information

- Class Attendance and Class Absence policy

Revision History

Effective April 2023: Establishes a formal university policy regarding accommodations for student religious and spiritual beliefs.

Admission of Former Graduate Students

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Kent State University graduate students who withdrew from or left the university in good standing will be required to re-apply for admission and pay the non-refundable application fee. Refer to the policy for Enrollment - Graduate in the University Catalog for more information.

For information concerning former graduate students who have been dismissed from the university, refer to the policy for Academic Standing - Graduate Student in the University Catalog.

Admission of Graduate Non-Degree Students

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Admission as a non-degree student enables students to take a limited number of courses for credit (either full time or part time). Students in this status are not seeking a degree, but may wish to earn a certificate or take courses for job achievement, personal enrichment, intellectual curiosity or other personal reasons. Students cannot earn a degree in the non-degree status.

Application for graduate non-degree student status should be made through the Office of Admissions. Students who plan to pursue a graduate certificate program must apply as a non-degree student, unless they are already in a concurrent degree program. Admission is based on the same criteria detailed in the Admission of Graduate Students policy in the University Catalog.

Graduate non-degree students must register for coursework within one year after the admission date. Admission of students who do not register within one year will be inactivated. Reapplication must be made if students desire to register for coursework at this time. Once registered, graduate non-degree students may continue to take courses for six years. Six years after the first registration, non-degree students will be inactivated and must reapply for admission if continued registration in graduate coursework at Kent State University is desired. Anyone who has been denied admission to graduate studies, or is under dismissal from the university, is not eligible for graduate non-degree student status.

Graduate non-degree students who wish to pursue a degree must apply for admission to the degree program. A maximum of 12 semester credit hours taken as a non-degree student may be petitioned to satisfy requirements of a degree program. A petition for transfer of credit must receive approval of the department or school and the college dean. Note that some departments and schools will not accept any credit hours for transfer.

Non-degree students must meet all prerequisites for courses (or obtain permission of the instructor). In addition, graduate non-degree students must obtain approval from the corresponding graduate program coordinator to register for graduate courses. Students may not transfer in credit earned at another university while in non-degree status.

All fees, deadlines and performance standards for degree students apply to non-degree students.

Admission of Graduate Students

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Kent State University is an access institution and has an important role to play in making sure its graduate programs are open to applicants who desire to pursue them. Applicants are evaluated based on both past academic performance and potential for continued achievement. In all cases, a combination of quantitative and qualitative measures is assessed. Credentials indicating an ability to succeed in graduate-level work may include overall and major grade point average (GPA), caliber of prior institutions attended, progression of academic performance over time, written communication skills, recommendation letters, relevant work experience, indices of leadership, prior research experience and correspondence between research interests and available faculty expertise.

Refer to the end of this section for admission procedures for the College of Podiatric Medicine.

Minimum Qualifications For Admission

1. **A bachelor's degree from an accredited college or university.** If applicant attended a non-U.S. college or university, the degree must have been received from a recognized institution where the requirements for the bachelor's degree are similar to those at Kent State University, as determined by Kent State's Office of Global Education.
2. **A total undergraduate grade point average (GPA) of 2.750 on a 4.000 point scale.** For graduate-level coursework, a minimum 3.000 GPA is required. Some programs may require a higher minimum undergraduate or graduate GPA. Refer to individual program admission criteria in the University Catalog for any required GPA above the minimum.

Applicants who do not meet the minimum GPA requirement may still be considered for admission if the applicant demonstrates one or more of the following conditions:

- Earned a graduate degree from an accredited institution with a 3.000 GPA.
- Completed 9 or more graduate credit hours at Kent State University or an accredited institution and earned a minimum 3.000 overall GPA in graduate-level courses.
- Scored at the 50th percentile or above on a standardized admission examination relevant to the academic program (e.g., GRE, GMAT, MCAT, LSAT).
- Earned a 3.000 overall GPA in the undergraduate major or in courses related to the academic program to which the applicant has applied.
- Earned a 3.000 overall GPA in the last 60 credit hours of completed undergraduate courses.
- Other compelling evidence as determined by the academic program.

Applicants who do not meet the minimum university and/or program requirements for admission may be considered for conditional admission. Admission in such cases will depend heavily on other indices of the student's ability to handle graduate-level work. These might include strong performance on standardized tests, GPA in the major and/or other experiences that are clearly indicative of strong academic ability.

Conditional Admission

The purpose of conditional admission is to provide applicants with an opportunity to compensate for any deficiencies and to demonstrate

their ability to satisfactorily complete graduate level work. Conditional admission is normally assigned for one or more of the following reasons:

1. **Applicant does not meet minimum university/program requirements**. The conditions are determined by the applicant's program/college. Normally, conditions will include the successful completion of specified graduate coursework and/or the achievement of a specified first semester GPA. A statement of the conditions of admission, as well as the rationale for conditional admission, will be sent to the student in writing by the academic college. Monitoring the student's success in meeting specified conditions is the responsibility of the program.
2. **Applicant does not have expected academic background in the field of proposed graduate study**. The conditions are determined by the applicant's program/college. Normally, the conditions will include the successful completion of specified undergraduate coursework. A statement of the conditions of admission, as well as the rationale for conditional admission, will be sent to the student in writing by the academic college. Monitoring the student's success in meeting specified conditions is the responsibility of the program.
3. **Applicant does not meet minimum English proficiency requirements**. A statement of the conditions of admission will be included in the student's letter of admission. Conditions include the successful completion of English as a Second Language (ESL) courses and proof of English proficiency. Enrollment in ESL courses does not assure admission to an academic program. ESL faculty members are responsible for monitoring the student's conditions.

It is recommended that students who are admitted conditionally do not enroll in more than 9 credit hours during their first semester of enrollment.

Students admitted conditionally must satisfactorily complete the conditions of admission as prescribed by the academic program to which they are admitted and maintain a 3.000 overall GPA in the first 9 credit hours of graduate coursework attempted.

Required Application Materials For Admission

- Online application and non-refundable application fee.
- Copy of official transcripts from the college or university that conferred a bachelor's degree (or equivalent) and any further degree(s) earned. Additional transcripts, official or unofficial, may be required. Scanned copies of official transcripts may be uploaded as PDF files in the electronic admission application.
    - Applicants previously enrolled at Kent State do not need to submit the Kent State transcript. The Admissions Office will obtain the Kent State transcripts on the applicants behalf, as long as Kent State is listed as a previous institution on the admission application. Applicants must still submit transcripts for all post-secondary work done elsewhere.
    - Students offered admission to Kent State University will be required to submit official transcripts from the college or university that conferred any degree, undergraduate or graduate. The offer of admission will be considered "Provisional" until **all** required official transcripts are received by Kent State University.
    - The Admissions Office is responsible for monitoring receipt of official transcripts. If official transcripts are not received by the Admissions Office by the second week of students' first semester of attendance, a registration hold will be placed on their records. Students will not be able to register or adjust their course schedule until all official transcripts have been received.
    - Any significant discrepancies found between student-provided unofficial transcripts and official transcripts will be **grounds for dismissal**.
- Letters of recommendation. Most programs require three letters, although some programs require two. The letters should be completed by persons who are familiar with the applicant's educational goals and professional and/or academic ability.
- Proof of English proficiency. All applicants whose education has been primarily outside the United States must have objective evidence of proficiency in the English language. Exceptions may be granted for applicants who have completed their education in a primarily English speaking country/territory. Refer to individual program admission criteria in the University Catalog for minimum test score requirements and applicable exceptions.
- Test Scores. As an access institution, Kent State University does not require the Graduate Record Exam (GRE) or the Graduate Management Admission Test (GMAT) for graduate admission. However, a graduate program may require a GRE or GMAT score as part of its admissions criteria if it is deemed necessary. Refer to individual program admission criteria in the University Catalog for any minimum test score requirements.
- Additional materials as required by the graduate program to which the individual is applying.

Once received, all application materials become the property of Kent State University and will not be returned. Application materials are kept for a period of one year from the date the completed online application form is submitted. After that time, materials will be destroyed. Applicants interested in admission after one year will need to reapply and submit a new application fee.

Multiple Applications

If an applicant chooses to apply to more than one graduate program, the applicant must submit a separate application and application fee for each program. Contact the Admissions Office to have application materials applied to more than one application. Applicants may be required to submit additional materials. Refer to individual programs in the University Catalog for required application materials.

Deadlines For Admission

For timely consideration of the application, it is recommended applicants submit a complete application at least one month before the start of the semester of first coursework. Some programs may have much earlier deadlines. Refer to individual programs in the University Catalog for their deadlines.

Application Procedures

Domestic Applicants

Domestic applications are received and processed by the Admissions Office. All transcripts, letters of recommendation, goal/purpose statements, vita/résumés and other required materials as specified by the program must be sent to gradapps@kent.edu.

After completing the online application form, applicants will receive notification via e-mail that the application was received. Applicants can also view the status of their submitted application using the Login ID and PIN that they created to complete the application. The Admissions Office

will send applicants periodic e-mail reminders regarding any required application materials that have yet to be received.

Once all required application materials are received, the completed application form and materials are electronically forwarded to the respective program for review. The program's review committee then forwards its recommendation for admission or denial to the academic college dean. The dean's final admission decision is sent to the Admissions Office where it is documented on the applicant's record. The official admission decision letter is sent by the dean of graduate studies. Individual programs may send additional information to applicants, such as information about a graduate assistantship.

International Applicants

International applications are received and processed by Kent State's Office of Global Education. Applicants who require an F-1 or J-1 student visa must:

1. Meet the visa eligibility requirements.
2. Verify that they have the financial resources to cover their expenses during graduate study at Kent State University. The Financial Information Worksheet for International Students is available through the Office of Global Education. If a governmental entity is funding the student, an official letter regarding the funding must be submitted along with the Financial Information Worksheet for International Students.

The Financial Information Worksheet for International Students, proof of English proficiency and all transcripts, letters of recommendation, goal/purpose statements, vita/résumés and other required materials as specified by the graduate program must be sent to the Office of Global Education, Kent State University, 106 Van Campen Hall, 625 Loop Road, Kent, OH 44242, USA.

After completing the online application form, international applications will receive notification via e-mail that it was received. Applicants can also view the status of their submitted application using the Login ID and PIN that they created to complete the application. The Admissions Office will send applicants periodic e-mail reminders regarding any required application materials that have yet to be received.

Once all required application materials are received, the completed application form and materials are electronically forwarded to the respective program for review. The program's review committee then forwards its recommendation for admission or denial to the academic college dean. The dean's final admission decision is sent to the Admissions Office where it is documented on the applicant's record. The official admission decision letter is sent by the dean of graduate studies. Individual programs may send additional information to applicants, such as information about a graduate assistantship. If accepted for admission, the Office of Global Education will issue the form I-20 or DS-2019.

International students may enroll at Kent State University only if they have been admitted to a degree program, certificate program or post-baccalaureate teacher education program. The form I-20 (required to obtain F-1 immigration status) or the form DS-2019 (required to obtain J-1 immigration status) is issued only after the application is complete, all documents are properly verified, the applicant is admitted to a program and proof of funding is received.

Fraudulent Records

Any transcripts, certificates, translations or examination results that appear irregular will be verified with the appropriate school or examination authorities, and the application process will be delayed until verification is received. If it is determined that an applicant has submitted false records or omitted information about previous school attendance, the application will be denied, and legal action may be taken.

Change Of Application Term

Applications and application materials are valid for one year only. Applicants may change the term of their application to a later term within one calendar year from the date the completed online application form was submitted. To be considered for admission during a different term, contact the Admissions Office to have the term of application changed. Some programs admit only one term per year. Refer to individual programs in the University Catalog for the term(s) during which they will consider admission. Applicants interested in admission after one year will need to re-apply and submit a new application fee.

Defer Enrollment

Admitted students are expected to enroll in and attend courses during the term of their admission. Students may defer the term of enrollment to another term within one calendar year from the term of admission. Initial enrollment beyond one year is not permitted. To defer enrollment to a later term, contact the Admissions Office. Students who have not enrolled in and attended courses within one calendar year of admission will need to re-apply and submit a new application fee.

College Of Podiatric Medicine

Kent State University's College of Podiatric Medicine adheres to the admissions policies set forth by the American Podiatric Medical Association. For the college's admissions procedures and requirements, visit the College of Podiatric Medicine website. Applicants to the Doctor of Podiatric Medicine degree will need to apply through the American Association of Colleges of Podiatric Medicine Application Service.

Admission of Non-Traditional Master's Degree Students

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

In rare instances, persons who have not completed a baccalaureate will be considered for admission to the appropriate graduate unit due to unusual and exemplary experiential learning.

Such applicants may apply for admission by presenting for departmental consideration a curricular plan encompassing undergraduate and graduate coursework to achieve a liberal educational background and professional graduate degree and three letters of recommendation attesting to their potential for graduate study. Upon departmental recommendation and the approval of the college dean, applicants will be admitted to undertake graduate work.

Upon successful completion of the curricular plan and the particular master's degree requirements, the students will be awarded the master's degree.

Admission of Transient Students

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Students pursuing a degree at another institution may apply as transient students to Kent State. Such students must be in good standing. Transient undergraduate students must possess a minimum 2.000 GPA (on a scale of 4.000) to be eligible for admission. The transient permission form must be certified in writing by the registrar or college dean of the institution where the students are enrolled. Graduate

students may obtain a Graduate Transient Certification of Good Standing form on the Graduate College website.

Transient status is for one semester only. Students wishing to attend more than one semester must reapply. Returning transient students must be in good academic standing at Kent State. A non-refundable transient student fee will be assessed for each transient admission. An ID card may be obtained through the FLASHcard Office in the Kent Student Center.

Kent State undergraduate students wishing for take coursework at another institution should refer to the policy on Transfer of Undergraduate Credit in the University Catalog.

Transient International Visiting Graduate Students

Students who are in good standing in a graduate degree program at a university abroad may be admitted as transient students at Kent State University to take coursework that may apply to their degree program.

Steps for approval:

1. Complete the International Transient Certification of Good Standing form, which will be processed through the Office of Global Education, 106 Van Campen Hall.
2. Submit a request letter from the advisor at the home institution certifying that the student is in good standing.
3. Submit a letter of acceptance from a Kent State faculty member.
4. Receive approval by the department/school graduate program committee and by the college dean.

International transient students are allowed to work using Kent State facilities for maximum 12 months. Students may also register for research hours or for regular courses not to exceed a total of 12 credit hours over the visiting period. Tuition will be paid by students' home institution or by a Kent State grant. Students will be identified as full time.

Admission of Undergraduate Students

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY
Effective Date: Fall 2025
Last Reviewed: Spring 2025
Last Revised: Fall 2012
Next Review: Fall 2035

Policy Statement

Kent State University affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

All credentials submitted for admission become the property of the university and are not returnable or transferable. Kent State reserves the right to change, without notice, any admissions procedures described in the University Catalog.

Admission Types

First-Year Applicants

First-year applicants are the following:

- Applicants are currently attending their final year of high school or homeschool.
- Applications have earned their high school diploma or GED (or diploma equivalency) and have not attended any other educational institution.
- Applicants have taken college-level courses while in high school or homeschool (e.g., College Credit Plus) but have not attended any other educational institution after graduating from high school or earning their GED (or diploma equivalency).

Transcript Requirements for High School Applicants

First-year applicants must submit an official high school transcript with their application. In-progress transcripts are accepted for admission consideration during the applicant's final year of high school. All years of high school should be included in the transcript with explanations of delays or unexpected class advancements. If an applicant has attended multiple high schools, transcripts may be required from each school attended. See the policy on official transcript submission.

Applicants who are taking college-level courses while in high school (e.g., College Credit Plus) are not required to submit official college transcripts for admission consideration. Admitted students who completed college-level courses through an institution other than Kent State must send their official transcripts to the Office of Admissions after their high school graduation and prior to the start of their admission term.

Admitted students must submit an official, final high school transcript with the diploma conferral date prior to the start of their admission term before they can start courses, and any financial aid can be disbursed at Kent State University.

Transcript Requirements for Homeschool or GED Applicants

Home-schooled applicants must submit the following with their application:

- A General Educational Development (GED) diploma or a transcript or portfolio that documents all completed secondary coursework.
- Ohio residents: written acknowledgment from their local school district verifying their homeschool status.
- Non-Ohio residents: documentation that meets the home-school verification requirements of their respective state.

Applicants with a diploma equivalency (e.g., GED) must submit the official results of their examination with their application.

Admitted students must submit an official, final transcript with diploma conferral by the parent or homeschool administrator, a GED score report or a diploma equivalency prior to the start of their admission term before they can start courses, and any financial aid can be disbursed at Kent State University.

Admission as a First-Year Student

First-year applicants to the Kent Campus should demonstrate college readiness. See the policy on University Readiness Standards and Placement Assessment for more information.

Admission to the regional campuses is open to all applicants who are in the process of graduating from high school or who have obtained a high school diploma or diploma equivalency. See the section below for more information on being referred to a regional campus at admission.

Transfer Applicants

Transfer applicants have attended an educational institution after graduating from high school or earning a diploma equivalency (e.g., GED).

Transcript Requirements for Transfer Applicants
Transfer applicants must list on the application each educational institution they attended following high school graduation, regardless of credit hours earned, and submit official transcripts from each institution. See the policy on official transcript submission.

Applicants who completed college-level courses while in high school (e.g., College Credit Plus) at an educational institution other than Kent State must submit official transcripts during the admission process. Applicants who have not finished their first term of college-level coursework may be provisionally admitted based on their academic achievement during high school. Provisionally admitted applicants cannot receive financial aid until an official transcript is provided directly to the Office of Admissions from the educational institution.

Applicants who have earned fewer than 12 college credit hours also must submit an official, final high school transcript (or diploma equivalency) with the diploma conferral date before being considered for admission.

Admission as a Transfer Student
Generally, transfer applicants may be admitted to the Kent Campus if they have earned a minimum of 12 credit hours of non-remedial/developmental coursework with a minimum 2.000 overall GPA as computed by Kent State University (on a scale of 4.000). Applicants who have taken fewer than 12 credit hours will be evaluated on both their college and high school records.

Applicants who have been academically dismissed from another educational institution will be considered for admission to Kent State if any one of the following is true:

- Applicants are eligible to return to their previous institution.
- Applicants have been out of college for at least 12 consecutive months since their academic dismissal.
- Applicants have earned a minimum 12 credit hours of credit at another institution with a minimum 2.000 overall GPA (on a scale of 4.000).

Admission to the regional campuses is open to all applicants who are in the process of graduating from high school or who have obtained a high school diploma or diploma equivalency, including those who have been academically dismissed from other institutions. See the policy on referred to a regional campus.

Acceptance of Transfer Credit
More information about the transfer of college courses and credit hours can be found in the Transfer of Undergraduate Credit policy.

Post-Undergraduate Applicants

Post-undergraduate applicants have earned a bachelor's degree and wish to take additional undergraduate coursework, either to earn a second degree or an undergraduate certificate, to prepare for graduate study or to pursue personal or professional development.

Admission Process
Applicants with a Kent State bachelor's degree who have not enrolled in undergraduate coursework at another institution after graduation should complete the re-enrollment process, as outlined on the Financial, Billing and Enrollment Center website.

Applicants who earned their bachelor's degree at another institution or earned a Kent State bachelor's degree and completed undergraduate coursework at another institution since earning that bachelor's degree must apply for admission as post-undergraduate applicants.

Transcript Requirements for Post-Undergraduate Applicants
Post-undergraduate applicants must list on the application each educational institution they attended following high school graduation, regardless of credit hours earned, and submit official transcripts from each institution. Applicants in the process of finishing their bachelor's degree should provide a letter confirming their eligibility to receive a bachelor's degree in time to begin their post-undergraduate program at Kent State. See the policy on official transcript submission.

Guest Applicants

Guest applicants enroll in a limited number of Kent State courses without being formally admitted to a degree or certificate program. Guest students typically are seeking personal or professional enrichment or are planning to transfer coursework back to another educational institution. Financial aid is not available to guest students through Kent State.

Guest students cannot earn a degree or certificate and may take a maximum of 18 credit hours of coursework. To continue beyond these credit limits or to pursue a degree or certificate, guest students must apply for regular admission.

Admission Requirements for Guest Applicants
- Applicants are not required to provide transcripts for admission.
- Applicants must have a high school diploma, GED or diploma equivalency.
- Applicants must meet all course prerequisites or obtain instructor permission to register for courses.
- Applicants were not denied admission to Kent State due to student conduct or criminal history.
- Applicants were not academically dismissed from Kent State University.

Non-Degree Applicants

Non-degree undergraduate applicants enroll in a limited number of Kent State courses to earn a certificate or other non-degree credential; to meet prerequisites before applying to a degree program; or for job achievement, personal enrichment, intellectual curiosity or other personal reasons. Students cannot earn a degree as a non-degree student.

Non-degree students may enroll in courses for one academic year or until a maximum of 45 credit hours are earned. Non-degree students planning to pursue a degree, either before or upon earning 45 credit hours, can apply for admission to any of Kent State's campuses or locations.

Non-degree students must meet all course prerequisites or obtain instructor permission to register for courses. All fees, deadlines and performance standards that apply for degree students also apply to non-degree students.

Transcript Requirements for Non-Degree Applicants
Non-degree applicants must list on the application each educational institution they attended, regardless of credit hours earned, and submit official transcripts from each institution.See the policy on official transcript submission.

International Applicants

International applicants are not citizens of the United States or are not currently maintaining immigration status in the United States as a legal permanent resident, refugee or asylee. Applications from international students are received and processed by the Office of International Admissions. See the policy on international transcript submission.

English Proficiency Requirement

All international applicants must provide proof of proficiency in the English language (unless they meet specific exceptions to waive the requirement) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English at a Second Language Center before entering their program. Information on submission and score requirements can be found on the International Admissions website.

Student Visa

International applicants should apply for admission at least six months before classes begin to allow time to complete the application and immigration process. Applicants who require an F-1 or J-1 student visa must meet visa eligibility requirements and be able to verify that they have the financial resources to cover their expenses while studying at Kent State University. The form I-20 (required for F-1 immigration status) or the form DS-2019 (required for J-1 immigration status) is issued only after all the following are complete:

- Applicants submitted a fully complete admission application to Kent State.
- Applicants are admitted to a degree program at Kent State University.
- All the applicants' documents are properly verified.
- Kent State has received and verified the applicants' proof of funding.

Former Kent State Students

Former Kent State undergraduate students who wish to return as undergraduate students will complete one of the following admission processes depending on their academic and enrollment history:

- Applicants left Kent State in good standing or on academic probation and did not attend another institution since then: Complete the re-enrollment process, as outlined on the Financial, Billing and Enrollment Center website.
- Applicants attended another institution since leaving Kent State: Apply for admission as a transfer or post-undergraduate student.
- Applicants were academically dismissed from Kent State: Follow the procedures outlined in the Dismissal, Appeal and Reinstatement policy to be reinstated at Kent State.

Military Veteran Applicants

Ohio veterans who left high school before graduation to serve in the military may be considered for admission to Kent State University if they are 21 years old or older and have passed the GED exam (or diploma equivalency).

Some military training courses may also qualify for college credit. To be considered, veterans should submit certificates of completion to the Office of Admissions. For more details, see the Military Training policy on how college credit may be awarded for military experience.

Veterans are encouraged to contact the Center for Adult and Veteran Services for help with pre-admission counseling and support throughout the admissions process.

Delayed-Entry and Diploma Equivalency Applicants

Delayed-entry and diploma equivalency applicants who are first-year college students are classified as one of the following:

- Applicants are 21 years or older at the time of their first enrollment at Kent State.
- Applicants earned their high school diploma three or more years ago by the start of their first enrollment at Kent State.
- Applicants earned their GED or other diploma completion credential before the start of their first enrollment at Kent State.

Applicants meeting these criteria are considered for admission regardless of their high school GPA and may contact the Center for Adult and Veteran Services for pre-admission counseling, advocacy and assistance with policies and procedures.

Application Process

Application Submission

All applicants can apply for admission to any of Kent State's campuses or locations through the Kent State institutional application. First-year and transfer applicants may use either the Kent State application or the Common Application to apply specifically to the Kent Campus. Only one application is accepted per term. Updates to application programs and campuses can be requested by contacting the Office of Admissions.

Application Deadlines

Applications for undergraduate admission are reviewed on a rolling basis. Early application helps ensure early consideration for scheduling new student orientation, course registration, residence hall preference and financial aid. Therefore, the best time to apply is at least six months prior to the anticipated term of enrollment, although some programs may have different deadlines.

Some academic programs may have additional application requirements. Individual requirements for these programs are listed under their Admissions tab in the University Catalog. Students interested in these special admission programs should apply one year prior to the date of anticipated enrollment.

Prospective transfer students are encouraged to apply before or by the end of their second year of college. Students applying just to Kent State at or after the end of their second year should consult with the appropriate college concerning the suitability of their preparation for their intended major.

Application Fee

A non-refundable application fee or fee waiver is required for all degree-seeking applicants before an application to the Kent Campus will be reviewed. Applying directly to a regional campus is free.

Official Transcript Submission

All applicants are required to submit official, final transcripts for any high school or college coursework, containing the school seal and the signature of a registrar or school official (unless sent by the school through an official, electronic third-party service). Transcripts must be sent directly from the issuing institution to the Kent State University Office of Admissions. Kent State will not accept transcripts provided by the applicant or individuals not affiliated with the educational institution, with the exception of international transcripts (see below).

Final transcripts should be received by Kent State no later than the second week of the student's first term of enrollment. Students who do not submit all required final transcripts by this deadline will not be allowed to register for future semesters until the documents are received.

Failure to comply with transcript requirements for admissions represents falsification by the applicant and may be subject to the cancellation of their admission decision or dismissal from the university.

International Transcripts

Applicants who have attended high school, university or any other educational institution outside of the United States may provide their

personal copies of official transcripts for admission consideration if the institution is unable to provide them directly to Kent State University. Academic credentials may include, but are not limited to, transcripts, detailed mark sheets, diplomas, statements of marks and certificates of graduation.

After being admitted to Kent State University, students with international transcripts must present their original, institution-issued academic credentials to the Office of Global Education for verification. Any significant discrepancies between student-provided transcripts and the final, official transcripts submitted to Kent State University will be grounds for application cancellation or dismissal from the university.

Test Scores

Kent State University offers a test-optional admission pathway where applicants are not required to submit a standardized test score (e.g., ACT, SAT) to be considered for admission. The absence of test scores will not hinder an applicant's potential to be admitted.

Applicants are welcome to submit test scores if they choose. If submitted, the scores will be considered as one of many factors in a holistic review of the application and supporting materials. Test scores should be reported to Kent State University directly from the testing agency using the appropriate code below.

- Ashtabula Campus (3773)
- East Liverpool Campus (3225)
- Geauga Campus (3224)
- Kent Campus (3284 ACT/1367 SAT)
- Salem Campus (3354)
- Stark Campus (3226)
- Trumbull Campus (3343)
- Tuscarawas Campus (3361)

Application Review

An application will not be reviewed for admission until it is complete. Kent State reviews applications holistically. Rather than disproportionately focusing on one factor, the Office of Admissions carefully reviews each applicant based on multiple factors, including overall grade point average (GPA), strength and rigor of curriculum, grade trends, optional writing samples, optional letters of recommendations and special talents or passions.

Admission Decision

An offer of admission to Kent State University is contingent upon the successful completion of in-progress high school or college coursework and a review of the application and supporting information demonstrating continued admissibility to the university.

The admission decision provided to students by the Office of Admissions can be revoked or changed at any time at the discretion of personnel. Applicants who are found or suspected to have misrepresented themselves, provided falsified documents or have not provided complete information regarding their academic or student conduct history may be subject to cancellation of their admission decision or dismissal from the university.

Change of Admission Term

Admission to Kent State University is valid only for the specific term to which the applicant is admitted. Applicants who wish to begin their enrollment in a different term than they were admitted must contact the Office of Admissions to initiate their request. Applicants may request a new admission term that begins up to one year from their original admission term. Moving the admission term beyond one year requires a new application and application fee.

Referred to a Regional Campus

Admission to the Kent Campus is selective, based upon overall grade point average (GPA), strength of curriculum, supplemental materials and grade trends. Applicants who do not meet the criteria for admission to the Kent Campus may be administratively referred to a regional campus; applicants living in Northeast Ohio are referred to their preferred or closest regional campus. When completing their application, students should select a secondary campus for which they would like to be considered for admission.

Applicants not meeting the admission criteria for the Kent Campus who still wish to be admitted to Kent State University must enroll for at least one semester at a regional campus. Enrollment at the regional campuses permits students to take advantage of smaller class sizes, more individualized advising services and a wider range of developmental coursework and programs.

Referred first-year and transfer students who enroll at a regional campus must complete the following to obtain the best possible foundation for academic success and become eligible to enroll at the Kent Campus:

- Successfully finish all developmental coursework as prescribed by placement testing and an academic advisor.
- Earn 12 credit hours of college-level coursework (not including any coursework considered developmental).
- Achieve a minimum 2.000 overall GPA.

Students are strongly encouraged to work closely with their academic advisor in planning for the transition to the Kent Campus.

Conduct and Criminal History Disclosure

Kent State is committed to ensuring a safe and secure learning environment for students, faculty, staff and guests of the university. Applicants are required to answer questions related to pending felony charges, felony convictions and dismissal or suspension from previous educational institutions for non-academic reasons. Disclosing one's criminal or student conduct history does not automatically preclude admission to Kent State but will require applicants to complete a personal explanation statement and provide supporting documentation for review by the pre-admissions committee to determine eligibility for admission. Conditions for admission may be applied to those applicants who are admitted.

Appealing an Admission Decision

Students not admitted to the Kent Campus may appeal the admission decision by contacting their personal admission counselor. To appeal an admission decision, students should be prepared to submit new information supporting their ability (e.g., updated transcript, improved GPA, test scores, letters of recommendation, personal essay outlining extenuating circumstances).

Applicants not admitted to the university due to criminal or student conduct history should review their decision letter for information on how to appeal a decision.

New Student Orientation

Newly admitted students to Kent State University are expected to attend the orientation appropriate to their admitted student type and campus for academic advising and registration. During the event, students and their guests learn information that is key to their success at Kent State University. The primary goal of new student orientation is to acquaint

students and guests with Kent State University programs and services, provide an advising session to each student and register students for classes.

Reason for Policy

This policy outlines the undergraduate admission process at Kent State University and ensures transparency, consistency and fairness in evaluating applicants. It supports the university's mission to provide access to higher education for students from diverse backgrounds while maintaining academic standards and fostering a safe and supportive learning environment.

Procedures

There are no procedures associated with this policy.

Forms/Instructions

- Apply to Kent State University
- Re-enroll at Kent State University
- Request for Undergraduate Reinstatement

Additional Resources

- Advising in the Colleges/Campuses
- Center for Adult and Veteran Services
- Contact the Office of Admissions
- Financial, Billing and Enrollment Center
- Search Majors and Degrees
- Visit or Tour Kent State

Frequently Asked Questions

1. **What campus should I apply to?**
   You should choose the campus based on its location to your home and the programs it offers. If you are unsure, contact the Office of Admissions at 330-672-2444 to discuss your options.
2. **How do I add a previous college to my enrollment history?**
   Contact the Office of Admissions at 330-672-2444, and we will update your application for you.
3. **How do I change my application type if I applied using the wrong one?**

   Contact the Office of Admissions at 330-672-2444, and we will update your application for you.

Definitions

Academically Dismissed Student: A student who is no longer allowed to enroll at the university due to failing to make adequate progress toward completion of a program of study or whose academic performance indicated little chance of obtaining the minimum grades required for graduation.

Certificate: A formal academic credential that signifies the completion of a focused program of study that addresses contemporary, topical and/or workplace need at the undergraduate or graduate level. Undergraduate certificate programs normally contain between 16 and 25 credit hours of coursework.

Degree: A formal academic credential awarded upon the successful completion of a prescribed program of study at the undergraduate or graduate level. Degree programs require the fulfillment of specific credit hour, curriculum and academic performance standards and are designated as associate, bachelor's, master's, post-master's or doctoral degrees.

Educational Institution: An establishment dedicated to providing formal instruction and learning experiences and includes, but is not limited to colleges, universities and vocational trade/tech schools.

GED (General Educational Development): A credential that is recognized as an alternative to a traditional high school diploma earned by individuals who successfully complete the GED exam. The exam assesses proficiency in language arts, mathematics, science and social studies.

Transcript: The accurate and complete record of a student's academic coursework attempted at an educational institution, presented in either electronic format or paper format.

Related Information

- Alternative Credit Programs (e.g., AP, CLEP, IB)
- College Credit Plus
- Dismissal, Appeal and Reinstatement - Undergraduate
- Flashes 101 (New Student Orientation)

Revision History

Amended August 2025: Revised policy widened the classification of the delayed entry and diploma equivalency applicant type (previously "adult applicant") to include not only people who are 21+ at the time of enrollment, but also applicants who have graduated from high school three or more years; or who have a GED (or diploma equivalency). For those applicants, high school GPA is not considered for admission. In addition, required documentation for homeschool applicants is updated; the different application pathways for post-undergraduate students are clarified; and a stipulation is added in the Conduct and Criminal History Disclosure section that conditions for admission may be applied for full transparency of what may be expected of admits.

Admission to International Pathway Program

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

International students whose English proficiency is below the university minimum but are otherwise admissible may be admitted to Kent State's International Pathway Program. To be eligible, applicants must meet one of following English proficiency requirements based on degree level:

Undergraduate Degree Level

- TOEFL 54
- IELTS 5.0
- Duolingo English 75
- Completion of ESL Center Level 6

Graduate Degree Level

- TOEFL 61
- IELTS 5.5
- Duolingo English 90
- Completion of ESL Center Level 8

In addition to English proficiency, international pathway applicants must meet all other admission requirements outlined in this section of the

University Catalog depending on their level, student type and program. Refer to the different Admission policies for more information on criteria for admission and application procedures.

Advanced Placement (AP)

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

The College Board Advanced Placement (AP) program awards college credit based on college-level high school courses and tests administered through the high schools. The State of Ohio, working through the University System of Ohio, has initiated policies to facilitate the ease of transition from high school to college as well as between and among Ohio's public colleges and universities.

Beginning in fall 2009:

- Students obtaining an AP exam score of 3 or above will be awarded the aligned course(s) and credits for the AP exam area(s) successfully completed.
- General education courses and credits received will be applied towards graduation and will satisfy a general education requirement (Kent Core) if the course to which the AP area is equivalent fulfills a requirement.
- If an equivalent course is not available for the AP exam area completed, elective or area credit will be awarded in the appropriate academic discipline and will be applied towards graduation where such elective credit options exist within the academic major.
- Additional courses or credits may be available when a score of 4 or 5 is obtained. Award of credit for higher score values varies depending on the academic discipline.
- In academic disciplines containing highly dependent sequences (e.g., sciences, technology, engineering and mathematics), students are strongly advised to confer with their advisor to ensure they have the appropriate foundation to be successful in advanced coursework within the sequence.

Kent State will not accept AP credit from a high school or out-of-state transcript. Students must submit either an official score report from the College Board or, upon special request, a transcript from an Ohio college or university with the AP credit displayed. Visit the Credit Transfer Office's AP website for more information on scores and credits earned.

Alternative Credit Programs

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

After enrollment at Kent State in an undergraduate degree or certificate program, students may be awarded credit toward their academic program through methods other than completing Kent State coursework. This credit may shorten the time required to complete a Kent State degree.

For information on credit awarded for transfer coursework earned before or after matriculation at Kent State, refer to the Transfer of Undergraduate Credit policy in the University Catalog.

Credit will not be awarded for any exam or content that duplicates the content of a college course for which a student has already received credit or if a student has completed more advanced study, i.e. beyond the level covered by an exam. Evaluation of credit earned by alternative methods is based on articulated course and requirement equivalencies in effect at the time the credit is requested. General guidelines for alternative credit types accepted by the university are described in the sections below.

Advanced Placement (AP)

The College Board Advanced Placement (AP) program awards college credit based on college-level high school courses and tests administered through the high schools. The State of Ohio, working through the University System of Ohio, has initiated policies to facilitate the ease of transition from high school to college as well as between and among Ohio's public colleges and universities.

Beginning in fall 2009:

- Students obtaining an AP exam score of 3 or above will be awarded the aligned course(s) and credits for the AP exam area(s) successfully completed.
- General education courses and credits received will be applied towards graduation and will satisfy a general education requirement (Kent Core) if the course to which the AP area is equivalent fulfills a requirement.
- If an equivalent course is not available for the AP exam area completed, elective or area credit will be awarded in the appropriate academic discipline and will be applied towards graduation where such elective credit options exist within the academic major.
- Additional courses or credits may be available when a score of 4 or 5 is obtained. Award of credit for higher score values varies depending on the academic discipline.
- In academic disciplines containing highly dependent sequences (e.g., sciences, technology, engineering and mathematics), students are strongly advised to confer with their advisor to ensure they have the appropriate foundation to be successful in advanced coursework within the sequence.

Kent State will not accept AP credit from a high school or out-of-state transcript. Students must submit either an official score report from the College Board or, upon special request, a transcript from an Ohio college or university with the AP credit displayed. Visit the Credit Transfer Office's AP website for more information on scores and credits earned.

A and AS Levels

Kent State accepts for credit the successful completion of A (Advanced) Level and AS (Advanced Subsidiary) Level qualification conferred as part of the General Certificate of Education administered by AQA, Edexcel or the University of Cambridge International Examinations.

The A and AS Levels Credit Chart gives information about these exams and credits earned for passed exam reports. The chart reflects Cambridge exam numbers and syllabi, but exams from other sources will be cross-referenced by the Office of Global Education in consultation with faculty upon evaluation of scores.

An official score report must be submitted to Kent State before A- and AS-level credit can be applied to a student's academic record. Specific questions regarding how these credits apply to program requirements should be directed to the student's major program's college office.

College Level Examination Program (CLEP)

Students may earn academic credit through the College Board's College Level Examination Program (CLEP) administered at Kent State by the Office of Academic Engagement and Degree Completion. CLEP allows a student to earn college credit for prior knowledge and move on to more advanced coursework sooner. Credit hours, but no letter grade, is granted

for scores that meet the minimum for each exam as determined on the CLEP guide for the Kent State University Catalog in effect at the time of the exam.

For additional CLEP information, including available tests, Kent State course equivalents and test dates, visit the Office of University Advising and Testing's website. Refer to the Alternative Credit-Testing Eligibility policy at the end of this section for more regulations on earning credit through testing.

College Tech Prep (CTP)

Kent State University will award college credit to students who successfully complete an approved College Tech Prep (CTP) program. Credit received through the CTP program is applied toward an appropriate degree at Kent State as identified in the signed articulation agreement. A student-articulated credit application for CTP credit is available from the CTP teacher or high school guidance counselor or on the Kent State Tech Prep website.

To earn Kent State University credit, students must:

- Complete the state-approved CTP program with a minimum B grade
- Graduate from high school
- Enroll at Kent State and request credits within three years after high school graduation
- Meet any additional criteria identified on the articulated credit application

Credit By Examination (CBE)

Students with demonstrable ability and knowledge in a particular subject area may earn credit in selected courses though Credit-By-Examination (CBE), coordinated by the Office of the University Registrar. Students who wish to pursue CBE must complete the CBE application to gain appropriate college and departmental permission. The appropriate academic department administers the exam, which may include the completion of additional assignments. The minimum passing standard for CBE is the equivalent of a C grade. However, no letter grade, only credit hours, are posted to the academic transcript for CBE.

For the CBE application, per-credit-hour fee and a list of available courses, visit the Office of the University Registrar's CBE website. Refer to the Alternative Credit-Testing Eligibility policy at the end of this section for more regulations on earning credit through testing.

DANTES Subject Standardized Tests (DSST)

Formerly known as the Defense Activity for Non-Traditional Educational Support (DANTES) exams, the DANTES Subject Standardized Tests (DSST) is a nationally recognized program that gives students the opportunity to receive college credit for learning acquired outside the traditional college classroom. Kent State accepts the American Council on Education (ACE) recommendations for the minimum score required and the amount of credit awarded. Official score reports or a joint services transcript (JST) must be submitted to Kent State before the credit can be applied to a student's academic record.

For information on credit options for military students, visit the Credit Transfer Office website.

Industry-Recognized Certifications, Examinations and Professional Training

Kent State accepts many industry-recognized certifications, examinations and professional training as prior learning credit applicable toward degree programs upon programmatic approval. Kent State awards academic credit following recommendations from the American Council on Education (ACE) and the Ohio Department of Higher Education. Official documentation from the issuing company or professional organization must be submitted to Kent State before credit can be applied to a student's academic record.

Industry-recognized certifications, examinations and professional training that is not evaluated by ACE may be considered for academic credit. Students who wish to request credit for training not yet evaluated must complete the industry/training credit application, including submission of all documentation to determine whether academic credit is to be awarded. All credit for industry/professional training appears on the student transcript without a grade.

Students should contact the Credit Transfer Office for more information on the types of certifications, examinations and professional training accepted and the approval process. Official documentation from the issuing agency must be submitted to Kent State before the credit can be applied to a student's academic record.

International Baccalaureate (IB)

Students who complete the International Baccalaureate (IB) Diploma Programme, a rigorous two-year course of pre-university studies in their high school, may be awarded credit toward a degree or certificate at Kent State. An official IB transcript must be submitted to Kent State before the credit can to be applied to a student's academic record. (A notation on a high school transcript will not be accepted.)

Kent State accepts scores of 5, 6 or 7 for higher-level (HL) and standard-level (SL) IB exams toward specific course equivalencies and general education requirements (e.g., Kent Core, diversity). Visit the Credit Transfer Office's IB website for more information on these scores and credits earned.

Military Training

Kent State University awards academic credit for military coursework according to recommendations listed on the Joint Services Transcript (JST). All eligible credits must be recognized by the American Council on Education (ACE). Kent State awards Military Transfer Assurance Guide (MTAG) coursework for articulated credit as established by the Ohio Department of Higher Education. Service members can visit Kent State's Credit Transfer Office website for information regarding requesting and submitting military transcripts.

Service Examinations: Credit is awarded for some experiences in basic training that are equivalent to specific beginning Physical Activity, Wellness and Sport (PWS) courses at Kent State University. Credit is awarded on the basis of recommendations from the School of Teaching, Learning and Curriculum Studies in the College of Education, Health and Human Services.

In order for credit to be granted in any of the above areas, a transcript or certificate of completion or a veterans DD 214 form is required. In addition, Kent State reserves the right to set the percentile score that is necessary for satisfactory performance in a course and for the granting

of credit. Credit will not be given for duplicate work taken through any of these agencies.

Military Transfer Credit Appeals Process

Students must submit, in writing, a letter of appeal regarding their military transfer credit to the Credit Transfer Office c/o Kent State University. Upon recommendation by the Transfer Review Committee, students will be notified of the outcome, in writing. Information regarding the standards for satisfactory performance or to submit an appeal may be found on the Credit Transfer Office website.

Retroactive Credit

Undergraduate students currently enrolled in a degree or certificate program who are placed into an advanced course through assessment or departmental review may earn retroactive credit for designated lower level course(s) in that subject. The advanced courses approved for earning retroactive credits are listed below.

To apply for retroactive credit, students must submit an application for retroactive credits.

The following stipulations apply:

- Students must complete the advanced course at Kent State with a minimum C or S (Satisfactory) grade to be eligible for retroactive credit. Courses taken for the pass/fail grade or audit mark will not be accepted for retroactive credit.
- Students who withdraw from or fail to meet the minimum C or S grade in the advanced course may retake the course and apply for retroactive credit once the minimum C or S grade is achieved and posted.
- Course credits earned through the retroactive policy are not assigned a letter (A-F) grade. The mark CR will be posted to a student's transcript for the enrolled term the student applied for the retroactive credit.
- Retroactive credit will count toward students' class standing, total credit hours earned for graduation and hours required for graduation honors.
- Retroactive credit will not count in students' grade point average (GPA), quality points and residence requirement.
- Students are not eligible for retroactive credit if they previously earned college credit for a course that is comparable to a lower level course in the same subject of the advanced course. Previous college credit includes credit earned through exam (e.g., AP, CLEP); courses transferred from other college-level institutions, tech prep programs or dual enrollment in a high school; or any other alternative credit listed in the University Catalog.
- Not all courses that offer retroactive credits are available each semester.
- Retroactive credit is not available for graduate courses.
- Students may apply for retroactive credit following the posting of the grade at any time before graduation, but no later than the second Sunday of the semester in which they are graduating.

A fee per credit hour is charged for processing and posting of the credit on the student's transcript. The Kent State Retroactive Credit Chart provides information about eligible courses and credits earned.

Alternative Credit-Testing Eligibility

The student's college determines eligibility for testing. The following regulations govern credit through testing:

1. Credit is awarded on a course-by-course basis. Students may be tested for Credit-By-Examination (CBE) only once for any given course. Students may not attempt a course CBE for which they have previously attempted through the College Level Examination Program (CLEP).
2. New students may take the CLEP before beginning work at Kent State University. CBE is available to currently enrolled degree- and certificate-seeking Kent State students only.
3. Students are allowed to take CBE only if they are in good standing (i.e., not on probation).
4. Students may not take CLEP or CBE for any course:
   a. In which they have audited
   b. In which they are currently enrolled
   c. In which they have previously enrolled and earned a grade, including withdrawal (A-F, AU, IN, IP, NF, NR, S, SF, U, W, Y or Z)

In subject fields in which knowledge is sequential or accumulative (e.g., mathematics, foreign language), courses are structured in prescribed sequences. Students who have received credit for, or established proficiency at, one level in such a sequence (either by testing or by enrolling in and completing the course) cannot subsequently earn CLEP or CBE credit for any prior course in the sequence or in any lower level sequence. Students who want to earn CBE for more than one course in such a sequence must complete CBE one course at a time, beginning with the lowest level course for which they want to receive academic CBE credit.

Students approaching graduation must complete all CBE and CLEP credit by at least the semester proceeding the semester in which they plan to graduate.

Students who sign up for CBE must take the exam within 60 days of the payment date of application. If they do not, they forfeit any fees paid and must reapply to take the exam.

Alternative Credit-Testing Eligibility

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

The student's college determines eligibility for testing. The following regulations govern credit through testing:

1. Credit is awarded on a course-by-course basis. Students may be tested for Credit-By-Examination (CBE) only once for any given course. Students may not attempt a course CBE for which they have previously attempted through the College Level Examination Program (CLEP).
2. New students may take the CLEP before beginning work at Kent State University. CBE is available to currently enrolled degree- and certificate-seeking Kent State students only.
3. Students are allowed to take CBE only if they are in good standing (i.e., not on probation).
4. Students may not take CLEP or CBE for any course:
   a. In which they have audited
   b. In which they are currently enrolled
   c. In which they have previously enrolled and earned a grade, including withdrawal (A-F, AU, IN, IP, NF, NR, S, SF, U, W, Y or Z)

In subject fields in which knowledge is sequential or accumulative (e.g., mathematics, foreign language), courses are structured in prescribed sequences. Students who have received credit for, or established proficiency at, one level in such a sequence (either by testing or by enrolling in and completing the course) cannot subsequently earn CLEP or CBE credit for any prior course in the sequence or in any lower level sequence. Students who want to earn CBE for more than one course in such a sequence must complete CBE one course at a time, beginning with the lowest level course for which they want to receive academic CBE credit.

Students approaching graduation must complete all CBE and CLEP credit by at least the semester proceeding the semester in which they plan to graduate.

Students who sign up for CBE must take the exam within 60 days of the payment date of application. If they do not, they forfeit any fees paid and must reapply to take the exam.

Award of a Master's Degree to a Doctoral Student

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

A student who has been admitted to and is currently pursuing a doctoral degree may apply for a master's degree in the same department in which the doctorate is to be taken. Upon certification that the student has met the requirements for the master's degree in that department, the degree may be awarded. The total number of graduate hours required for the doctorate shall not be altered thereby.

Candidacy for Doctoral Degree

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

To become a candidate for the doctorate, a student must pass a candidacy (comprehensive) examination in the field of the major subject. This examination will be taken when departmental requirements have been met, but it should not be taken later than nine months before the student expects to receive the degree. The content and scope of the examination are determined by the department concerned. The examination may be either written or oral or both. The student is not permitted to continue with the dissertation unless this requirement is satisfied. Failure on the candidacy examination and a subsequent prescription and reexamination are subject to departmental policy. When opportunities for such reexamination are exhausted without success, the student will be dismissed from graduate study.

For candidacy of the Doctor of Podiatric Medicine degree, refer to the college policies in the College of Podiatric Medicine section of the University Catalog.

Catalog Rights and Exclusions

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Effective Date: Fall 2020
Last Reviewed: Fall 2019
Last Revised: Spring 2020
Next Review: Fall 2030

Policy Statement

The university has established the following Catalog rights and exclusions relating to requirements for students in an academic program (major, minor, certificate). While these Catalog rights establish specific academic program requirements for students, the exclusions noted ensure that the knowledge and skills acquired by students will be current with the state of knowledge in their fields of study.

Rights

1. The students' academic requirements for graduation are based on the Catalog year that is assigned initially to the student's first term of enrollment in a degree or certificate program at Kent State University.
2. Students are permitted to complete an academic program (major, minor, certificate) under a more recent Catalog year. When changing Catalog year, students must comply with all the requirements relevant to their program in the newer Catalog year. After a Catalog year is updated, students are not permitted to revert to an older catalog year.
3. Students may declare a different Catalog year for a minor, certificate or second major/degree. However, students must comply with all the requirements relevant to the additional program in the different Catalog year.
4. Catalog rights may be granted through mutual agreements with other institutions. Such rights are subject to the same exclusions noted below.

Exclusions

1. Students are governed by the academic policies in the Catalog in effect for the current academic year, regardless of students' first term of enrollment.
2. Students who transfer to another university and return to Kent State are readmitted under the Catalog in effect for the term of readmission.
3. Dismissed students are reinstated under the Catalog in effect for the term of reinstatement.
4. Undergraduate students who interrupt their enrollment at the university for one full academic year or longer, consecutively, including summer, are updated to the Catalog in effect for the term of their most recent re-enrollment. Transfer work and alternative credit do not qualify as enrollment at Kent State University.
5. Kent State will not permit admission or reentry into programs that are no longer offered.
6. Undergraduate students who are enrolled continuously in a degree or certificate program in a catalog older than six years may be required to update to a more recent Catalog.
7. The university reserves the right to change academic requirements to keep programs in compliance with accreditation, certification, licensure or industry standards. In these situations, the college administering the program may update students to a more recent Catalog year.
8. The university reserves the right to change academic requirements due to financial urgency, unavailability of faculty or unavailability of other instructional resources. Where programmatic changes are required that do not alter the core academic requirements of the university, the students' college dean will identify available alternatives for currently enrolled students to complete their declared program(s).
9. Course specifications such as title, credit hours, prerequisites, status (e.g., Kent Core), etc., are based on the term for which the student registered for the course. If the course is revised after the student completed it, the student does not gain or lose anything with that revision. In the event that a change in prerequisite, for example, would substantially disadvantage a continuously enrolled student by unreasonably adding one or more courses to that student's academic requirements, the college administrating the student's program may

authorize course substitutions, waiver(s) or some other appropriate alternative.

10. The university reserves the right to change course specifications; cancel a scheduled course; and change the time, location or delivery of class meetings for a scheduled course. If a course is canceled, every attempt will be made to contact the registered students. Students registered in canceled courses will be given the opportunity to change to another course with seats available.

Reason for Policy

Policy establishes consistent practices for understanding requirements for students in an academic program.

Procedures

There are no procedures with this policy.

Forms/Instructions

- Manage My Programs in FlashLine

Additional Resources

- Academic Advising (Schedule an Appointment)
- Financial, Billing and Enrollment Center

Frequently Asked Questions

There are no FAQ associated with this policy.

Definitions

Catalog: official document of record for undergraduate and graduate programs, courses, academic policies and special programs.

Catalog Year: identifies the University Catalog that contains the requirements for the student's academic program.

Re-enrollment: process for students who have previously attended Kent State University as an undergraduate to return as an undergraduate student.

Related Information

- Kent Core (General Education Requirement)
- Minors

Revision History

Amended August 2020: Revised policy clarifies how catalog year is assigned and the meaning of a catalog year; adds limitation that students cannot revert after updating catalog year; replaces term “in force” with “in effect”; adds disclaimer that colleges may approve appropriate substitutions or waivers if changes to courses substantially disadvantage enrolled students; and adds university’s rights to cancel courses and change the time, location or delivery of a scheduled course.

Amended August 2015: Revised policy addresses students whose first term of enrollment is a summer term, who are declared in a certificate program or who declare multiple programs; adds a clause to clarify that all students are governed generally by the university academic, administrative and operational policies in the Catalog currently in force; adds a stipulation to reflect current practice that students who left the university and later returned may not be declared back into their original program if that program is no longer offered; and modifies the requirement of the six-year rule to, instead, state that students who are enrolled continuously in a degree or certificate program in a catalog older than six years may be required to update to a more recent Catalog.

Amended August 2014: Revised policy clarifies that course specifications such as course title, content, prerequisite and status (e.g., Kent Core) are in force for the term in which the student is enrolled in the course.

Amended August 2012: Revised policy allows student to have different catalog years for declared majors, minors and certificates.

Amended August 2010: Revised policy requires all undergraduate students at all campuses to move to the catalog-in-force after six years in their program.

Amended August 1998: Revised policy requires students who do not complete degree requirements within 10 years to update to the current catalog.

Change in Graduate Program of Study

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Because admission to a graduate degree program involves admission to both the program and the university, a change in program of study (degree, major, concentration or catalog year) requires approval. Admission to a new program is not automatic.

A graduate assistantship normally does not transfer with students who are approved for admission into a different graduate program. Doctoral candidacy status does not transfer to a new graduate program. International students must consult with the Office of Global Education to determine how a change of program affects their visa status.

Procedures

Students interested in changing their program of study should first contact the graduate coordinator of the proposed program to gain a clear understanding of the program’s requirements. Admission requirements, deadlines and required application materials vary by graduate program, and it is the student’s responsibility to adhere to the requirements and deadlines.

Students must contact the graduate coordinator of the proposed program to determine whether they submit either a Change in Program of Study form or a new application. The determination of whether a form or application should be submitted is based on the proposed program’s judgment about the amount, and availability, of application materials needed by the program in order to make an informed admission decision. More significant program changes (e.g., change to a major within a different department/school) likely will require a new application, while less significant changes (e.g., change to another concentration within the same major in the same department/school) likely will require completion of the Change in Program of Study form.

In some cases, the proposed program will accept application materials that had been submitted to the student’s original graduate program. In other cases, new materials may be required. If the proposed program will accept materials that were submitted along with the student’s application to the current program, the student must contact the Office of Admissions to request that the materials be added to the new application.

The proposed program will review the application/form and all materials according to established procedures. Applicants who do not meet the

minimum university and/or program requirements may be considered for conditional admission. If the student is admitted into the program, the program will determine how much of the student's previously completed work may be applied toward the new graduate degree, in accordance with the university's transfer of credit policy.

Class Attendance and Class Absence

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY
Date Revised: June 28, 2023
Date Effective: August 28, 2023

Policy Statement

Regular for testing attendance in class is of all students at all levels at the university. While classes are conducted on the premise that regular attendance is expected, the university recognizes certain activities, events and circumstances as legitimate reasons for absence from class. This policy provides for accommodations in accordance with federal and state laws prohibiting discrimination, including, but not limited to, Section 504 of the Rehabilitation Act of 1973, 29 U.S.C.§794, and its implementing regulation, 34 C.F.R. Part 104; Title II of the Americans with Disabilities Act of 1990, 42 U.S.C. §12131 et seq., and its implementing regulations, 28 C.F.R. Part 35; as well as university policy 5-16.

This policy describes the procedures for requesting and responding to legitimate absences with the exception of absences for religious and spiritual beliefs. Refer to the policy for absences for religious and spiritual beliefs.

The individual instructor has both the responsibility and the prerogative for managing student attendance. The instructor's policy regarding attendance for each course should be written in the course syllabus and communicated to students during the first week of the term. The policy may take alternate forms within the bounds of appropriate instructional techniques.

Legitimate reasons for an "excused" absence include, but are not limited to, illness and injury, disability-related concerns, military service, death in the immediate family, academic field trips, participation in an approved concert or athletic event and direct participation in university disciplinary hearings.

Even though any absence can potentially interfere with the planned development of a course, and the student bears the responsibility for fulfilling all course requirements in a timely and responsible manner, instructors will, without prejudice, provide students returning to class after a legitimate absence with appropriate assistance and counsel about completing missed assignments and class material. Neither academic departments nor individual faculty members are required to waive essential or fundamental academic requirements of a course to accommodate student absences. However, each circumstance will be reviewed on a case-by-case basis.

Informal resolution should first be attempted between individual instructors and students in the event of any attendance-related concerns. If informal resolution is unsuccessful, the following offices, with respect to that office's purview, can provide assistance and guidance on attendance concerns and instruction on filing a grievance: student ombuds; student accessibility services; or compliance, equal opportunity and affirmative action.

In addition to this policy, students are responsible for following the procedures and policies of the respective offices from which they are seeking assistance, e.g., student accessibility services, the student ombuds, etc. In all instances of absences, students shall be responsible for all material covered in class during their absence. Students are responsible for completing any makeup work resulting from their absence. In no case is an excuse from class to be interpreted as a release from class responsibility.

The general procedures and responsibilities for requesting and determining legitimate class absence can be found in policy 3-01.2 of the University Policy Register.

Reason for Policy

Kent State University aims to foster an atmosphere of honesty and trust between instructors and their students. It is in both the university's and the student's interest to outline academic protections for students when they miss class for legitimate reasons. This policy places parameters around what is a legitimate absence, and reinforces the responsibilities of the instructor and the student.

Procedures

The general procedures and responsibilities for requesting and determining legitimate class absence can be found in policy 3-01.2 of the University Policy Register.

Forms/Instructions

- Class Absence Authorization Form
- Procedures for requesting an absence

Additional Resources

- Office of the Student Ombuds
- Office of Student Accessibility Services
- Office of Compliance, Equal Opportunity and Affirmative Action

Frequently Asked Questions

1. **Can I receive a letter from the DeWeese Health Center to be excused from class or exam?**
   The DeWeese Health Center does not provide written absence excuses for students who miss a class, presentation, quiz, exam or other academic responsibility. Refer to the DeWeese Health Center website for more information.
2. **Can I request class absences when I have flare-ups of a chronic illness?**
   Please contact the Office of Student Accessibility Services to discuss eligibility of using the attendance modification policy.
3. **I missed the first day of class and received an email that I now have an NF (Never Attended - Fail) grade for the course. What can I do?**
   Contact the course's instructor as soon as possible to discuss the circumstances and to start attending the course.
4. **What should I consider if I am going to miss a significant amount of class time and/or academically related activities due to illness or other reasons?**
   You should contact your instructor to discuss your academic standing in the course so you can determine your next steps. For example, this could include dropping the course, withdrawing from the course, requesting an Incomplete mark (if eligible) or leave of absence (graduate students only). You can also consult with your academic advisor or the student ombuds if you need assistance discussing academic options.

Definitions

Course syllabus: An outline or a summary of the main points of what will be expected of students in a course, provided by the course's instructor.

University disciplinary hearings: A formal meeting through the Office of Residence Services or the Office of Student Conduct for a violation of university rules.

Related Information

- Accommodations for Student Religious and Spiritual Beliefs

Revision History

Information to come

Classification of Undergraduate Students

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

An undergraduate student is classified as follows:

- FRESHMAN — 0 to 29 credit hours of earned credit
- SOPHOMORE — 30 to 59 credit hours of earned credit
- JUNIOR — 60 to 89 credit hours of earned credit
- SENIOR — 90 credit hours to graduation

College Credit Plus

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

College Credit Plus is offered through the University College for middle/high school students (grades 7-12) who want to take Kent State courses at any Kent State campus, online, hybrid in-class/online or at their middle/high school. The course is taught by either a Kent State faculty member or a Kent State-qualified secondary instructor.

A College Credit Plus course offered in middle/high schools through the university must duplicate the course offered by Kent State to matriculated students. Courses must be approved for College Credit Plus status, and credit awarded must be deemed acceptable for transfer by faculty of the appropriate Kent State academic department/school.

Students enrolled in College Credit Plus courses must adhere to the deadline dates specified by Kent State for registration, drop, withdrawal and refund. Kent State may give priority to matriculated students for course registration over College Credit Plus students. However, once a College Credit Plus student has been registered into a course, Kent State will not displace that student for another student.

Kent State will provide students full access to Kent State libraries and electronic databases, as appropriate, and general academic support services, including academic advising, regardless of whether the course is taken in person, online or at a middle/high school.

Kent State is responsible for maintaining a College Credit Plus student's college transcript. Courses will be identified on the Kent State transcript as a college-level course. The middle/high school is responsible for maintaining the student's middle/high school transcript. The evaluation of courses when transferring to a college or university other than Kent State is the purview of that college or university.

College Credit Plus students are limited to a maximum of 30 credit hours per academic year and a maximum of 120 credit hours overall prior to high school graduation. Students who wish to continue at Kent State University after high school graduation should apply for admission as new freshman during the fall of their senior year.

For more information, please visit Kent State's College Credit Plus website.

College Level Examination Program (CLEP)

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Students may earn academic credit through the College Board's College Level Examination Program (CLEP) administered at Kent State by the Office of Academic Engagement and Degree Completion. CLEP allows a student to earn college credit for prior knowledge and move on to more advanced coursework sooner. Credit hours, but no letter grade, is granted for scores that meet the minimum for each exam as determined on the CLEP guide for the Kent State University Catalog in effect at the time of the exam.

For additional CLEP information, including available tests, Kent State course equivalents and test dates, visit the Office of University Advising and Testing's website. Refer to the Alternative Credit-Testing Eligibility policy at the end of this section for more regulations on earning credit through testing.

College Tech Prep (CTP)

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Kent State University will award college credit to students who successfully complete an approved College Tech Prep (CTP) program. Credit received through the CTP program is applied toward an appropriate degree at Kent State as identified in the signed articulation agreement. A student-articulated credit application for CTP credit is available from the CTP teacher or high school guidance counselor or on the Kent State Tech Prep website.

To earn Kent State University credit, students must:

- Complete the state-approved CTP program with a minimum B grade
- Graduate from high school
- Enroll at Kent State and request credits within three years after high school graduation
- Meet any additional criteria identified on the articulated credit application

Combined Bachelor's/Master's Degree Program

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Effective Date: Fall 2023
Last Reviewed: Fall 2022
Last Revised: Spring 2023
Next Review: Fall 2026

Policy Statement

A combined bachelor's/master's degree program allows exceptional, well-prepared Kent State University undergraduate students early admission into a graduate program. Students in a combined degree program take graduate-level coursework as undergraduate students, thus enabling courses to be applied toward both degree programs.

Students in a combined degree program must meet the minimum requirements for each degree earned. Undergraduate requirements must be fully satisfied before a bachelor's degree will be awarded. Until that time, students continue to have undergraduate student status and are charged undergraduate tuition and fees. Following the awarding of the undergraduate degree, their status is changed to that of graduate student.

Eligibility for Admission

To be eligible for admission to a combined degree program, undergraduate students must meet the following stipulations:

- Earn a minimum 60 credit hours (junior standing)
- Achieve a minimum 3.000 overall Kent State GPA (some combined degree programs may require a higher GPA)
- Complete a standard online graduate application, including paying the application fee
- Meet all admissions requirements for the master's degree program (consult the University Catalog for specific requirements)
- Be admitted to the master's degree program
- Submit the Combined Bachelor's/Master's Degree Form prior to the first semester of enrollment in the combined program

Application of Graduate Credit

Undergraduate students in a combined degree program may complete a maximum 9 credit hours of graduate-level coursework, depending on the approved combined degree program (see list of approved programs), and apply the courses and credit hours toward their undergraduate degree. Once students complete the undergraduate degree and enter graduate student status, their graduate-level coursework may be applied toward the graduate degree (i.e., courses are double counted). Students who undertake a combined bachelor's/master's degree program must complete a minimum 141 unique credit hours, with a minimum 30 of those credit hours applied toward the master's degree.

To be eligible for double counting, the coursework must meet all the following criteria:

1. Be of graduate level – under no circumstances will undergraduate-level coursework be applied toward the master's degree
2. Apply to degree requirements for the bachelor's and master's degrees
3. Are not awarded as credit by examination
4. Meet minimum standards as described in the Academic Standing - Graduate policy in the University Catalog

Combined degree programs are initiated by students in consultation with their academic advisor. The combined degree program should be developed according to the individual career interests and goals of the student and should be an integrated learning experience rather than merely the completion of a certain number of undergraduate and graduate credits. The proposed combined degree program requires the approval of both the undergraduate and the graduate programs involved, as well as the respective college dean(s).

Reason for Policy

Policy enforces uniform standards for undergraduate students seeking early admission to a graduate degree at Kent State University and aligns with the policy from the Ohio Department of Higher Education.

Procedures

There are no procedures with this policy.

Forms/Instructions

- Combined Bachelor's/Master's Degree Form

Additional Resources

- Academic Advising (Schedule an Appointment)
- Financial, Billing and Enrollment Center
- Graduate College

Frequently Asked Questions

There is no FAQ associated with this policy.

Definitions

Credit by examination: a special examination, which upon successfully completion, a student is awarded college-level credit hours but no grade.

Graduate-level courses: numbered with the first digit of 5 and 6 at the master's degree level and the first digit of 7 and 8 at the doctoral degree level.

Undergraduate-level courses: numbered with the first digit of 0, 1, 2, 3 and 4. These courses are taken by students declare in an associate or bachelor's degree or undergraduate certificate. Undergraduate courses cannot be applied toward requirements for a graduate degree or certificate.

Related Information

- Academic Standing - Graduate
- Academic Standing - Undergraduate
- Credit-Hour Requirement for Graduation
- Dual Degrees/Double Majors
- Undergraduate Students Enrolling in Graduate Courses

Revision History

Amended August 2023: Revised policy decreases the maximum of graduate courses that may be double-counted toward both degrees, from 9-12 credit hours (depending on the credit hours of the master's degree) to 9 credit hours for all combined programs.

Amended August 2020: Revised policy permits a minimum total of 141 unique credit hours earned (111 for bachelor's and 21 for master's and 9 double counted) with approval of the university and Ohio Department of Higher Education. The revised policy also replaces specific GPA per credit hours with a minimum 3.000 overall GPA for eligibility for a combined degree program; removes requirement that a letter grade must be earned in courses that will be doubled counted toward both degrees; and removes categories of formal and informal combined programs.

Amended August 2014: Revised policy requires a minimum total of 150 unique credit hours earned (120 for bachelor's and 30 for master's) before double counting of credit hours is allowed. The revised policy also distinguishes between formal (university approved) and informal programs and clarifies that students in the combined program are classified as undergraduate until the bachelor's degree is earned; after that award, they are reclassified as graduate.

Amended August 1988: Revised policy allow maximum 12 credit hours of graduate courses that may be double-counted toward both degrees. Those credit hours can only be counted as electives, and not toward any requirements, in the bachelor's degree.

Effective September 1976: Establishes a policy to allow baccalaureate-seeking students early admission to a master's degree and be dually enrolled in both degrees upon recommendation of the academic department, the undergraduate college dean and upon approval of the dean of the Graduate College.

Core and Critical Reading Strategies Placement

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Kent State University regional campuses offer two courses to help students develop reading strategies to successfully complete college-level coursework — READ 00003 and READ 00006. A student placed into READ 00003 must take READ 00006 the following term. Both courses require a minimum C grade. Students who have taken the Accuplacer Classic or Next Generation at another institution within two years of their initial start date may opt to transfer that score to Kent State University.

Assessment	Score	Placement
ACT Reading	0-13	READ 00003
ACT Reading	14-19	READ 00006
ACT Reading	20+	No Course
SAT Evidence-Based Reading and Writing	200-380	READ 00003
SAT Evidence-Based Reading and Writing	390-470	READ 00006
SAT Evidence-Based Reading and Writing	480+	No Course
Accuplacer Classic Reading	0-50	READ 00003
Accuplacer Classic Reading	51-79	READ 00006
Accuplacer Classic Reading	80-120	No Course
Accuplacer Next Generation Reading	200-221	READ 00003
Accuplacer Next Generation Reading	222-249	READ 00006
Accuplacer Next Generation Reading	250-300	No Course
GED Reasoning Through Language Arts College Ready	165+ *	No Course
Final high school GPA	0.00-1.59	READ 00003
Final high school GPA	1.6-2.79	READ 00006
Final high school GPA	2.8+	No course

* Kent State University awards college credit for GED 175+ scores.

Course Numbering System

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Kent State University's numbering system for courses is as follows:

Range	Level
00000-09999	Developmental level
10000-19999	Freshman level
20000-29999	Sophomore level
30000-39999	Junior level
40000-49999	Senior level
50000-59999	Master's level
60000-69999	Master's level
70000-79999	Doctoral level
80000-89999	Doctoral level

Developmental courses (00000-09999) are considered pre-college level. Refer to the Developmental Coursework policy in the University Catalog for more information.

Undergraduate courses (10000-49999) are generally open to students of a class rank equivalent to the levels indicated. Students participating in the Honors program, College Credit Plus and Advanced Placement (AP), as well as those who otherwise present evidence of qualifications beyond their class rank, may enroll in the appropriate undergraduate courses with the approval of their advisors and the instructors or departments offering the courses.

Most courses are offered in a regular sequence to meet students' programmatic needs; however, the availability of any specific course in a given semester is subject to sufficient student demand and available resources. Some courses require that a special fee be paid in addition to instructional and general fees. A listing of courses with these special fees can be found on the Financial, Billing and Enrollment Center website.

Courses numbered 50000 and above are for graduate students only and are referred to as graduate courses. Many of the 50000-level courses are also offered at the 40000 level for undergraduates. Students who have already completed 40000-level courses may not repeat the courses at the 50000-level for credit toward a graduate degree. No more than one-half of a graduate student's coursework may be taken in 50000-level courses.

Course Overload

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Undergraduate Students

Eligible undergraduate students wanting to register for more than the maximum listed under registration limits may do so through an automated overload process.

Criteria for Eligibility

- Students who have a minimum 12 Kent State earned credit hours and the following GPA are eligible for an automatic overload:

GPA	Overload Credits
2.500-2.749	students may register for 19 credit hours in fall and spring
2.750-2.999	students may register for 19-20 credit hours in fall and spring
3.000-4.000	students may register for 19-21 credit hours in fall and spring

- First-semester transfer students and freshmen without a Kent State GPA are excluded from qualifying for an automatic overload. They must seek approval from their advising office.
- Students not meeting the above criteria or requesting more than 21 credit hours in the fall or spring semester (more than 12 credit hours

in all summer terms) will be blocked from registering for an overload unless approval is granted from their advising office.
- Students on academic probation may not register for more than 15 credit hours and may receive a prescription from the dean of their college or campus that they further reduce the credit hours carried until removed from probation.

Exceptions to this rule must be approved by the appropriate college dean.

Graduate Students

Graduate students wanting to register for more than the maximum listed under registration limits should request permission from their advisor, who will consider such factors as academic standing, progress to degree and the rigor of their proposed course schedule in deciding whether to approve the overload. Graduate students with an approved overload will have their course limit adjusted to register for the approved overload class(es).

Course Privilege for Doctoral Students

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

A doctoral student will be allowed, with the consent of the advisor and of the instructor concerned, to enroll in any course offered at Kent State University.

Course Repeat

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Effective Date: Fall 2019
Last Reviewed: Spring 2019
Last Revised: Fall 2015
Next Review: Spring 2031

Policy Statement

Students must register and pay tuition and any applicable fees when repeating a class. All course attempts and grades appear on the student transcript, including grades not calculated in the GPA. A student's Kent State GPA will not be affected by repeating courses at another institution. The university is not obligated to offer courses so that students can repeat them. If students plan to repeat a course, they are to work with their advisor to identify resources for academic support. Repeating courses could affect students' financial aid, scholarships or other assistance. Students should consult the appropriate office prior to registration. Students may repeat courses taken at Kent State University subject to the following provisions:

Undergraduate Courses

Students may repeat undergraduate courses (00000-40000 levels) no more than two times (a maximum of three attempts per course). The university will use only the highest grade and the credit hours associated with that highest grade in all attempts of the same course in the calculation of the overall undergraduate GPA, program GPA, credit hour totals and requirements for students' program.

Additional conditions for the repeating of undergraduate courses:

- After the third attempt (second repeat), the student is restricted from registering for the course again.
- Withdrawal from a course is counted as an attempt.
- Courses designated as "repeatable for credit" (see section below) are exempt from the three-attempt limit.
- Recalculation of the student's GPA occurs automatically at the end of the semester in which the student completes the repeated course.
- All grades for all attempts at a course are used in the GPA calculation for determining Latin honors (e.g., summa cum laude) and class standing (e.g., dean's list). These GPA calculations are independent of the overall GPA as it appears on the student transcript.
- All grades for all attempts may be counted for admission to or progression in specific programs, for admission to graduate programs or for admission to other institutions.

This policy is in effect for all undergraduate courses repeated in or after the fall 2019 semester.

Graduate Courses

Students may repeat graduate courses (50000-80000 levels), and the university will use all grades (passed and failed) in the calculation of the overall graduate GPA. Earned credit for a course applies only once toward meeting program requirements and credit hour totals.

Repeatable-for-Credit Courses

Some undergraduate and graduate courses are identified as "repeatable for credit" in the course description. Typically, a repeatable-for-credit course offers a different instructional experience and learning outcomes each time students take the course (e.g., internship, special topics, applied music). For those courses, students earn credit for each successful attempt, and the university uses all grades (passed and failed) for all attempts in the calculation of the GPA.

Students repeating a repeatable-for-credit course should consult the University Catalog and their advisor because some academic programs have a limit on the total number of credit hours that may be applied for these types of courses.

Reason for Policy

Students may need to repeat a course to fulfill a requirement to earn a degree or certificate. This policy outlines limitations when repeating a course and the effect of a repeated course on the student's GPA.

Procedures

There are no procedures associated with this policy.

Forms/Instructions

There are no forms associated with this policy.

Additional Resources

- Financial Aid Recalculation Due to Enrollment Activities
- Financial, Billing and Enrollment Center
- Satisfactory Academic Progress for Financial Aid

Frequently Asked Questions

1. **The undergraduate policy indicates that I can only repeat the same course two times (maximum three attempts per course). What counts as an attempt?**
   A course attempt is any Kent State course for which a grade (A-F, S/U) or mark is given and displayed on your transcript and GPS degree audit. Marks include withdrawal (W), credit/no credit (Y/Z), audit (AU), never attended–F (NF) and stopped attending–F (SF). Courses that

you dropped before the 14th day of the semester (or earlier for short-term courses) — i.e., you did not receive a W mark — are not counted as an attempt.

2. **Where can I find what is counted or not counted in my GPA for repeated courses?**
   All attempts of the same (or equivalent) Kent State course will have either the letter "I" (include) or "E" (exclude) next to the grade on your transcript and your GPS degree audit (both found in FlashLine).
   a. "I" counts in your GPA.
   b. "E" does not count in your GPA; and earned credit hours are 0.
3. **Do I have to fill out any paperwork to repeat a course?**
   No. If the course is eligible to be repeated, simply register for the course again. At the end of the term in which you are repeating the course, the course repeat will automatically occur once all grades are submitted in FlashFAST.

Additional FAQ: Course Repeat

Definitions

GPA (Grade Point Average): An indication of a student's academic achievement at Kent State University, determined by the number of credit hours attempted at Kent State University and the grades received. The Kent State GPA is calculated to three places past the decimal point and not rounded.

Related Information

- Academic Standing – Graduate Student
- Academic Standing – Undergraduate Student
- Course Numbering System
- Grade Point Average (GPA)
- Grading Policies and Procedures
- Honors at Graduation

Revision History

Amended August 2019: Revised policy allows all repeated undergraduate courses to be eligible for GPA recalculation for graduation.

Amended August 2015: Revised policy limits the number, to three, of overall attempts to an undergraduate course before a student can no longer register for that course. The student must then meet with meet with an advisor to decide next steps.

Amended August 2010: Revised policy clarifies that any student who has already received a bachelor's degree from any college or university is ineligible to use a course repeat to remove a grade from the GPA.

Amended August 2008: Revised policy allows lower-division courses taken for an earned associate degree to be repeated for a GPA recalculation; but prohibits course repeats for GPA recalculation after conferral of the bachelor's degree.

Amended January 2008: Revised policy counts only the highest grade earned in a repeated lower-division course in the GPA, subject to specific provisions.

Amended August 1987: Revised policy allows the grade in the second attempt of a passed undergraduate course (with approval) to count toward graduation.

Amended August 1980: Revised policy allows the grade in the second attempt of a passed undergraduate course (with approval) to count in the GPA, although the grade does not count toward graduation.

Amended September 1971: Revised policy limits the credit hours and grade in the second attempt of a passed undergraduate course (with approval) from counting toward graduation and in the GPA. Students may repeat courses that are identified as repeatable for credit.

Amended September 1970: Revised policy requires dean approval for students to repeat an undergraduate course in which the student already received a passing grade, and the credit hours and grade in the second attempt do not count toward graduation. All grades count in the GPA.

Effective September 1952: Establishes a formal course repeat policy that specifies that students are not eligible automatically to repeat an undergraduate course. However, under certain conditions and with dean and department head approval, only the grade in the second attempt may be used for the student's scholastic standing.

Supersedes:
Rule for Recalculation of First-Year Grade Point Average (2008)
Freshman Rule for Recalculation of Grade Point Average (2004)

Course Withdrawal

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Course withdrawal indicates that a student intends to stop attending any or all classes for the current term. Course withdrawal is permitted through the end (11:59 p.m.) of the 70th calendar day the fall or spring semester (prorated deadline for summer or flexibly scheduled courses). The spring semester course withdrawal deadline may be adjusted for spring break. After that time, students are considered to be committed to all remaining courses and must complete them.

Students will use FlashLine to withdraw from one or more courses by the deadline. If students are unable to complete the term because of extreme circumstances that first occur after the deadline, they should consult their college or campus dean's office. Any course withdrawal(s) processed on or after the 15th calendar day of the fall or spring semester (or prorated deadline for summer or flexibly scheduled courses) will appear on the students' academic record with the Withdrawal (W) administrative mark. For more information on the W mark, refer to Grading Policies and Procedures in the University Catalog. Any applicable tuition credit is determined by the date the transaction is processed on FlashLine (see university policy regarding tuition credit).

International students on J1 and F1 visas are required to contact the Office of Global Education if a course withdrawal causes them to be less than full time.

Graduate students who withdraw from all courses with an intention to return at a later date may be eligible for a leave of absence (refer to Leave of Absence for Graduate Students policy in the University Catalog).

Students in the College of Podiatric Medicine who fail to complete registration requirements by the deadline will not be enrolled in classes for the following academic year and may be withdrawn from the college. These students may also be subject to a professionalism deficiency evaluation. Podiatric Medicine Students who request withdrawal after seven weeks of course instruction will receive on their academic record the administrative mark WP or WF if passing or failing, respectively, for each withdrawn course. Refer to the college policies in the College of

Podiatric Medicine section of the University Catalog for more information on the procedures for withdrawal.

Course withdrawal does not negate a student's financial obligation, and students will be held responsible for all balances due to the university.

Credit By Examination (CBE)

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Students with demonstrable ability and knowledge in a particular subject area may earn credit in selected courses though Credit-By-Examination (CBE), coordinated by the Office of the University Registrar. Students who wish to pursue CBE must complete the CBE application to gain appropriate college and departmental permission. The appropriate academic department administers the exam, which may include the completion of additional assignments. The minimum passing standard for CBE is the equivalent of a C grade. However, no letter grade, only credit hours, are posted to the academic transcript for CBE.

For the CBE application, per-credit-hour fee and a list of available courses, visit the Office of the University Registrar's CBE website. Refer to the Alternative Credit-Testing Eligibility policy at the end of this section for more regulations on earning credit through testing.

Credit-Hour Requirement for Graduation

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Undergraduate Students

All students in bachelor's degree programs must satisfactorily earn (with passing grades) a minimum of 120 credit hours of coursework to graduate. Associate degrees are awarded for the successful completion of a minimum of 60 credit hours of coursework. Some bachelor's and associate degree programs require more hours than the 120 and 60, respectively.

As part of this requirement, students must complete a minimum 36 credit hours of the Kent Core for the bachelor's, Associate of Arts and Associate of Science degrees. Students must complete a minimum 15 credit hours of the Kent Core for applied and technical associate degrees.

Students who have had coursework or credits waived may be allowed to graduate from their program when they earn fewer than the minimum credit hours stated for that program in the University Catalog provided that they fulfill all requirements for the program and meet the university minimum credits hours for graduation.

Graduate Students

All master's degree students must satisfactorily complete a minimum 30 credit hours applicable toward a master's degree in order to graduate. Some master's degree programs require more credit hours.

While the well-prepared doctoral candidate may expect to meet formal course requirements (exclusive of dissertation) for the doctoral program by completing a minimum of two years of full-time work beyond the baccalaureate, departments may require more extensive preparation where needed. In order to qualify for a doctoral degree, students must present a minimum of 90 credit hours beyond the bachelor's degree, or 60 credit hours beyond the master's degree. These hours may include registration for coursework, individual investigation or research courses and dissertation. Only work of high quality is approved for doctoral credit.

DANTES Subject Standardized Tests (DSST)

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Formerly known as the Defense Activity for Non-Traditional Educational Support (DANTES) exams, the DANTES Subject Standardized Tests (DSST) is a nationally recognized program that gives students the opportunity to receive college credit for learning acquired outside the traditional college classroom. Kent State accepts the American Council on Education (ACE) recommendations for the minimum score required and the amount of credit awarded. Official score reports or a joint services transcript (JST) must be submitted to Kent State before the credit can be applied to a student's academic record.

For information on credit options for military students, visit the Credit Transfer Office website.

Developmental Coursework

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

"Developmental" means a course that is below college level and cannot be applied toward a certificate or degree program. At Kent State, course numbers that begin with a "0" (e.g., MATH 00022) are designated as developmental and may be prescribed or recommended through placement testing. Although these courses will count toward the course load for financial aid and other purposes, credit hours earned in these courses will be subtracted from the students' total before graduation. None of these courses may be taken pass/fail.

Students placed into any developmental course must continuously enroll in the course(s) each semester until they successfully complete the course or sequence of courses. Students who delay the start of their developmental mathematics coursework more than one semester must be reassessed for placement (a fee may be charged). Students who are placed into a developmental mathematics course and whose program has a specific mathematics requirement must continuously enroll in the course(s) each semester, beginning with their first semester at Kent State, until they successfully complete their first non-developmental mathematics requirement.

Dismissal and Appeal - Graduate

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Effective Date: Fall 2025
Last Reviewed: Fall 2024
Last Revised: Fall 2019
Next Review: Fall 2034

Policy Statement

Review of a graduate student's performance, progress and adherence to professional standards in a graduate program may result in a recommendation for academic dismissal.[1] Expectations for academic performance, progress and professional standards are defined in the Academic Standing policy, as well on the specific graduate program pages.

The decision for academic dismissal rests with the unit administrator of the program. Students who have been dismissed will be provided the decision in writing along with information on their right to appeal the decision (see appeal of dismissal section below).

Students who are dismissed from their degree program — or from all programs for students admitted to a dual degree or multiple programs — are dismissed from Kent State University. The college notifies the Office of the University Registrar to remove the student immediately from the program(s) and from any future-registered courses. The university registrar will note on the student's record, including the student's official transcript, that the student was academically dismissed as of the term of the dismissal decision.

Students admitted to a dual-degree or multiple programs who are dismissed from only one of the programs are not dismissed from the university and may continue in the other program. Undergraduate students admitted to a combined bachelor's/master's degree program who have been dismissed from the undergraduate program are dismissed from the graduate program.

Dismissed students who wish to enroll in a different graduate program or in coursework at Kent State must complete an application for admission and follow the graduate admission procedures found in the University Catalog.

In the College of Podiatric Medicine, determinations for dismissal are made in accordance with the grading policy. The director of academic operations, assessment, and institutional research is responsible for providing the student with written communication regarding the dismissal decision and notifying the university registrar to remove the student from the program and all registered courses. For more information on that college's policy for dismissal, refer to the College of Podiatric Medicine section of the University Catalog.

[1] A student on an official leave of absence cannot be dismissed.

Reason for Policy

This policy specifies the process by which graduate students may be dismissed from their academic program and the appropriate steps for appealing a dismissal decision.

Procedures for Appeal of Dismissal

Students who are dismissed have the right to appeal the decision. Students who are dismissed from more than one program must appeal each dismissal separately.

Appeal Process

Students may appeal to the college dean, or designee, for the dismissal decision made at the department, school or program level in that college. If conditions or causes exist requiring a modification of the time limits listed below, it is the responsibility of the college dean, or designee, to assess such circumstances and determine the nature or extent of any such modification. If the college dean, or designee, decides to modify the time limits, the college dean, or designee, immediately will inform all parties involved.

1. If the student decides to appeal the dismissal decision, the student must submit the appeal in writing to the appropriate college dean, or designee, within 10 weekdays of when the dismissal email is sent. In the written appeal statement, the student must state clearly the reasons why the decision is being appealed, the nature of the appeal, the facts and circumstances leading to the appeal, reasons in support of the appeal and the remedy or remedies requested. Supporting documents may be appended. The appeal statement submitted by the student becomes the basis for all further consideration of the matter.
2. Upon receipt of the student's appeal statement, the dean, or designee, convenes the college's dismissal and appeals committee to review and make a recommendation on the appeal.
3. The college dean, or designee, must send a copy of the appeal statement to the unit administrator who issued the dismissal decision. The unit administrator may respond to the student's appeal and include any information or documentation related to the response. The unit administrator will provide that written response to the college's dismissal and appeals committee, with a copy sent to the student.
4. The college's dismissal and appeals committee shall examine and evaluate fully the dismissal decision, including any supporting documentation submitted by the student or by the unit administrator who issued the dismissal. At its discretion, the committee may interview the student and/or the unit administrator and/or consult with any others who the committee believes may assist in the review of the appeal.
5. The college's dismissal and appeals committee is expected to conduct its review as expeditiously as possible. If a full committee is unable to convene in a timely manner, the college dean, or designee, will determine — with input from the student and the unit administrator who issued the dismissal decision — if the appeal review process will proceed with limited committee members or will be scheduled to convene at a later, predetermined time.
6. Once the review of the appeal is completed, the committee's chair must forward a written recommendation to the college dean, or designee. The recommendation becomes part of the student's record.
7. The college dean, or designee, shall make the final decision and provide that decision in writing to the student, with a copy sent to the university registrar, the college's dismissal and appeals committee and the unit administrator who issued the dismissal.
8. If the appeal is approved, the university registrar will re-enroll the student into the program, and the student may re-register for courses. The notation of the student's dismissal is updated or removed from the student's record (depending on the decision).

College of Podiatric Medicine: For dismissal appeal procedures in the College of Podiatric Medicine, refer to that college's section in the University Catalog. Dismissed students who are reinstated are placed on academic probation with a notation on their transcript, until outstanding failures have been satisfactorily resolved. Students who are officially dismissed from the college for any other reason are not eligible for readmission consideration at any time. Any student who has been officially dismissed two times from the college is ineligible for readmission consideration at any time.

Forms/Instructions

There are no forms associated with this policy.

Additional Resources

- Financial, Billing and Enrollment Center
- Graduate College
- Student Ombuds

Frequently Asked Questions

1. **I was dismissed from a graduate program. Can I enroll in a different graduate program or in coursework at Kent State?**

Dismissed students must complete an application for admission and follow the graduate admission procedures found in the University Catalog to enroll in a different graduate program.

2. **What if I'm dismissed from just one of my graduate programs, but I'm in more than one?**
   If you're dismissed from one graduate program but still in good standing in another, you can continue in the program where you're still active. You'll just need to submit a program change form to update your enrollment status. For example, if you're dismissed from the M.S.N. degree but are allowed to continue in the M.B.A. degree, you can keep going in the M.B.A. — only the M.S.N. degree is affected.
3. **Will the Registrar's Office drop all my classes if I get dismissed? What if I'm in more than one program?**
   Yes, the Registrar's Office will drop all your courses after a dismissal unless told otherwise. If you're enrolled in more than one program, the Registrar's Office will confirm to which program the dismissal applies and will adjust your class registration accordingly.

Additional FAQ: Dismissal and Appeal - Graduate

Definitions

There are no definitions associated with this policy.

Related Information

- Academic Standing for Graduate Students

Revision History

Amended August 2025: Revised policy adjusted working titles to allow more flexibility given the difference in structure across college leadership. Titles have been more generally referenced as unit administrator versus every working title.

Amended August 2019: Revised policy included the following items: addressed dismissal of students declared in dual-degree or multiple programs; included violation of professional standards as part of the academic dismissal review and determination; and clarified roles and responsibilities of who determines the dismissal and who makes the final decision upon appeal.

Amended August 2009: Revised policy changes the criteria for dismissal, from a C or lower grade in more than 7 credit hours to a B- or lower grade in more than 8 credit hours.

Dismissal, Appeal and Reinstatement - Undergraduate

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY
Effective Date: August 2024
Last Reviewed: October 2023
Last Revised: *Faculty Senate approval*
Next Review: September 2028

Policy Statement

Academic Dismissal

Undergraduate students whose academic performance indicates a limited chance of obtaining the minimum grades required for good academic standing will be subject to dismissal from the university.

The provost may dismiss a student if any of the following conditions apply to that student:

1. Any student who earns between a 0.000 and 0.500 grade point average (GPA) in the student's first semester at Kent State.
2. Any continuing student who is:
   a. Placed on academic probation (0.000 to 1.999 overall GPA) for the last term of attendance at the undergraduate level, and
   b. Earns between 0.000 and 1.999 semester GPA in the term under review, and
   c. Earns one of the following:
      i. Between 0.000 and 1.099 overall GPA for students with 0.000 to 29.999 GPA credit hours* or
      ii. Between 0.000 and 1.499 overall GPA for students with 30.000 to 59.999 GPA credit hours* or
      iii. Between 0.000 and 1.749 overall GPA for students with 60.000 to 89.999 GPA credit hours* or
      iv. Between 0.000 and 1.999 overall GPA for students with 90.000 or more GPA credit hours*.
3. Any full-time student in the student's first semester at Kent State or on academic probation who receives 9 or more credit hours of any combination of the following grades or marks in the semester under review: F (Fail), NF (Never Attended–Fail), SF (Stopped Attending–Fail), U (Unsatisfactory). This policy applies without regard to whether the designated grades were included or excluded from the student's overall GPA.
4. Any less-than-full-time student in the student's first semester at Kent State or on academic probation who receives 6 or more credit hours of any combination of the following grades or marks in the semester under review: F (Fail), NF (Never Attended–Fail), SF (Stopped Attending–Fail), U (Unsatisfactory). This policy applies without regard to whether the designated grades were included or excluded from the student's overall GPA.

A student who is dismissed should expect to be away from the university for a minimum of 12 consecutive months. A dismissed student may not register for any coursework at any campus of Kent State University. The notation of academic dismissal will be printed on the student's official transcript. For further information concerning the conditions of academic probation and dismissal, students should contact their college or campus advising office. See guidelines for dismissal appeals below.

> * "GPA credit hours" are credit hours earned with a Kent State grade that counts toward the student's GPA (e.g., 3 credit hours earned with a B grade at Kent State).

Dismissal Appeal

A student who is academically dismissed has the right to appeal the decision. Appeals must be based on circumstances within the past academic year that were beyond the control of the student and affected the student's academic performance. Appeals must be submitted by the date and according to the process specified in the dismissal letter. See the Procedures section below for information on submitting an appeal.

Reinstatement

Reinstatement after dismissal from Kent State University is neither automatic nor guaranteed. A student may be reinstated only if the student provides convincing evidence of probable academic success if permitted to return to the university. A dismissed student who has previously accumulated a substantial number of credit hours and/or an

excessively low GPA should expect that reinstatement is not likely to be approved.

Application for reinstatement after the required period of time away from the university should be to the dean of the college or campus that houses the major program the student wishes to enter. Students wanting to be reinstated into a program with selective admission requirements, specified certification standards or additional graduation requirements may be approved to be reinstated into the university but not into that particular program. The application should include convincing evidence of the student's motivation to continue and of the student's specific efforts during the period of dismissal to eliminate previous weaknesses. After evaluating the application for reinstatement and all supporting materials, the dean will inform the student of the reinstatement decision.

A student who is reinstated is automatically placed on academic probation until good academic standing (minimum 2.000 overall GPA) is attained. Academic requirements will be determined by the Catalog-in-force at the time the student re-enrolls at the university. For further information concerning reinstatement, students should consult their college or campus advising office.

Reason for Policy

Students need to have clearly articulated criteria for being subject to academic dismissed from Kent State University, procedures for appealing a dismissal and information on reinstatement after dismissal.

Procedures

Students placed on academic probation (below a 2.000 overall GPA) will be notified that they are in danger of being academically dismissed. When students are academically dismissed, they receive an email the day after final grades are entered and their GPA is calculated.

To appeal an academic dismissal, students must complete the steps below:

1. Apply by the deadline stated in the dismissal letter.
2. Include the following in the appeal:
   a. An explanation of the extenuating circumstances — e.g., personal illness/injury, critical family illness or other situations of sufficient severity — and how these circumstances affected academic performance. These circumstances must be documented by providing physician statements or other appropriate documents.
   b. A detailed plan of action for achieving academic success for any future enrollment at Kent State University.

Appeals that do not meet these guidelines will not be reviewed. Decisions made by the appeals committee are final.

Forms/Instructions

Students are notified of their academic dismissal by the Office of the Provost via their kent.edu email address. They should refer to the link in their dismissal letter for the form and instructions to appeal.

- Request for Undergraduate Reinstatement
- Personal Explanation Statement for Reinstatement

Additional Resources

- What to do if you are dismissed from the university
- Schedule an advising appointment
- Advising in the colleges and on the campuses
- Student Financial Aid: Satisfactory Academic Progress
- One Stop for Student Service

Frequently Asked Questions

Dismissal

1. **Why was I dismissed?**
   Undergraduate students whose academic performance indicates a limited chance of obtaining the minimum grades required for good academic standing will be subject to dismissal from the university. The university may dismiss a student based on a list of conditions above.
2. **What should I do about my room in the residence hall?**
   As soon as possible, arrange to check out of your residence hall room by calling University Housing at 330-672-7000 or via email (housing@kent.edu).
3. **Do I need to drop my classes for the next semester?**
   If you have registered for a future term at any Kent State campus or location, your schedule has been cancelled. You do not need to cancel your registration.
4. **What should I do if I have a balance on my FlashCash account?**
   To inquire about a refund, visit the FlashCard Office on the first floor of the Kent Student Center on the Kent Campus, call the office at 330-672-2273 or send an email (flashcard@kent.edu). Please know that a dining plan balance is nonrefundable.
5. **How can I receive a refund if I have paid tuition or fees for a future term?**
   If you have paid for a future term, Kent State will issue a refund. If you have questions regarding fees or refunds, contact the One Stop for Student Services at 330-672-6000 or online via the "Contact Us" button.
6. **What do I need to do if I am on an international student visa?**
   If you currently maintain F-1 or J-1 immigration status, you should immediately contact an advisor in the Office of Global Education at 330-672-7980 or via email (isss@kent.edu). Failure to do so may result in the termination of your immigration status and cancellation of your visa.

Appeals

1. **Can I appeal my dismissal?**
   If you have been dismissed, you have the right to appeal the decision. Some questions to ask yourself before appeal include: Were there recent circumstances beyond your control? Were you doing well in your classes prior to these circumstances? Why weren't you able to withdraw from classes or work with your instructors?
2. **Who do I contact for the appeal or if I have questions or need help?**
   Contact your college/campus advising office listed in your dismissal email. Links to dismissal contacts for the Kent Campus and Regional Campuses.
3. **Is it a guarantee that I can return next semester if I submit an appeal?**

   No. The appeal allows you the opportunity to be considered for immediate return to the university. The appeals committee will review your submission and make a decision based on the merits of your appeal. You will be notified of the decision regardless of the outcome.
4. **Can I be return to my same major/college if my appeal is successful?**
   Yes. After a successful appeal, you will be reinstated into the same program you were in at the time of your dismissal. We encourage you to talk with an academic advisor to discuss if this plan of study is the

best option for you and if another program may be a better fit for your interests and career goasls.

5. **What if my appeal is denied?**
   The decisions of the committee are final. However, you can apply for reinstatement after being away for a full 12 months. We encourage you to work with your academic advisor to discuss how best to use this year off. This may include attending classes at a community college or other higher education institution or simply taking time to refocus. You were admitted to the university because we believe you could be successful. We think with some time to regroup you still can be.

Reinstatement

1. **If I don't appeal, can I come back to Kent Sate?**
   Yes!All students can apply to return to the university, referred to as reinstatement, after being away for a full 12 months. We encourage you to work with your academic advisor to discuss how best to use this year off. This may include attending classes at a community college or other higher education institution or simply taking time to refocus. You were admitted to the university because we believe you could be successful. We think with some time to regroup you still can be.
2. **What should I do if I plan to take classes at another school before applying for reinstatement?**
   Schedule an appointment with your Kent State academic advisor. You need to make sure that the courses you intend to take are transferrable and that you do not jeopardize your eligibility for any of Kent State's course repeat or forgiveness policies.

Definitions

- **Academic Standing**: Academic status at institutions of higher education. Students with a cumulative 2.00 GPA or above are in good academic standing.
- **Dismissal (Academic)**: Students who fail to make adequate progress toward completion of a program of study or whose academic performance indicates little chance of obtaining the minimum grades required for graduation are no longer allowed to enroll at the university.
- **Probation (Academic)**: A warning to undergraduate students who fail to maintain a semester and/or overall grade point average of 2.00 or better. Failure to improve the academic record within a specific time may result in academic dismissal.
- **Reinstatement**: Process by which a student may gain reentry to the university after a dismissal.

Related Information

- Academic Standing
- Academic Success Center
- Course Repeat Policy
- Dismissal-Suspension Guide for Disciplinary Reasons
- Grade Point Average (GPA) Policy
- Grade Point Average (GPA) Adjustment Policy
- Grading Policies and Procedures

Revision History

Information to come from Office of Curriculum Services.

Dissertation for the Doctoral Degree

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY
Effective Date: Fall 2025
Last Reviewed: Spring 2025
Last Revised: Fall 2020
Next Review: Fall 2030

Policy Statement

A dissertation is required of candidates for the Ph.D. and Ed.D. degrees and must demonstrate the candidate's ability to plan, conduct and present scholarly research and activity within their field or research area under the direction of members of the graduate faculty.

Dissertation Registration and Applicability Toward Degree

Each doctoral student, upon admission to candidacy, must register continuously for Dissertation I (8x199) each semester (fall, spring) for 30 credit hours. A student who has completed the required 30 credit hours of Dissertation I but has not finished the dissertation is expected, thereafter, to register continuously for Dissertation II (8x299) each semester (fall, spring) until all degree requirements are met. Students who are planning to defend their dissertation in summer or early fall, or who are requiring access to university resources during the summer months — including, but not limited to, feedback or mentoring from their dissertation advisors, use of university buildings and other research resources — must register for dissertation in the summer term.#For students in good standing, those credit hours will be approved by the academic unit administrator. The student receives an In-Progress (IP) administrative mark until the dissertation is completed, when the IP mark is changed to either the Satisfactory (S) or Unsatisfactory (U) grade.

No more than 30 credit hours of Dissertation I may be counted toward completion of degree requirements. Credit hours earned in Dissertation II do not, under any circumstances, count toward the degree.

Dissertation Prospectus

The dissertation topic must be approved by the academic unit and filed with the college dean no later than one semester preceding that in which the candidate expects to receive the degree. Each graduate unit has adopted a procedure for the preparation of a dissertation prospectus. The prospectus must be in writing, but an oral presentation may also be required.

This document normally will include the following:

- An outline of the parameters of the projected dissertation topic with a statement of the problem to be undertaken;
- The procedure or methodology to be used in the research;
- A preliminary review of the literature substantiating the need for the study; and
- The principle sources of information for the dissertation.

Dissertation Committee

When the student has developed a dissertation topic acceptable to the advisor, a dissertation committee is convened, responsible for overseeing the progress of the candidate's dissertation. The program coordinator appoints the members of the committee in consultation with the student and the student's advisor. This group will consist, at minimum, of three members:

1. The advisor who serves as dissertation director and who chairs the committee. The director must have full graduate faculty status in their college and be approved to direct dissertations and must be in the student's program area.
2. One committee member from the candidate's unit (school, department or college). This member must have full or associate graduate faculty status.
3. One committee member from outside the program. This member must have graduate faculty status and may be from outside the university.
4. Optional additional members (can be from outside the university). This member(s) must have graduate faculty status.

Special permission must be obtained from the college dean for anyone on the dissertation committee who does not meet the qualifications stated above.

The student can change committee membership at any time in consultation with the program coordinator or academic unit administrator. In the event of a change, the program coordinator or academic unit administrator will notify the committee members of the changes and request that the student initiate committee changes using the appropriate doctoral form.

Examining Committee

When the advisor believes the candidate's dissertation is ready for preliminary approval, the advisor will convene an examining committee. The examining committee will consist of members of the dissertation committee and an appointed graduate faculty representative. The procedures for appointing the graduate faculty representative are detailed in the procedures section below.

Once the graduate faculty representative is appointed, the advisor will submit the dissertation to the committee members for a 10-day reading period. Following the reading period, the advisor will convene the examination committee to evaluate the dissertation. The advisor will note and communicate to the candidate any revisions recommended by the committee. When, in the advisor and the candidate's opinion, the appropriate revisions have been made, the advisor will inform the graduate/program coordinator, the academic unit's lead administrator and the college dean.

Final Examination (Oral Defense)

Upon completion of the revisions, if any, the student will be required to defend the findings before a committee of graduate faculty members, including the dissertation committee and others chosen by the academic unit and college dean.

The dissertation must be in final form (not just a late draft) before the final oral defense. If, in the opinion of more than one member of the examining committee, the dissertation is not in acceptable final form, the oral defense will not be held. An acceptable final form refers to the substance and usefulness of the dissertation and the writing's quality. The decision to halt the defense is to be determined by vote prior to the final oral examination and without the candidate or others being present. If a negative vote occurs, the candidate may be called in to provide clarification.

A rescheduling of the oral defense, if necessary, will occur when, in the advisor and student's opinion, the dissertation has been modified to incorporate the suggested changes. The dissertation must be acceptable, with no more than one dissenting vote, before the rescheduled final oral can be held. If the dissertation is not in suitable form at this second scheduled oral, the advisor will notify the college dean. Further action is then the responsibility of the college dean.

The procedures for the defense are detailed in the procedures section below.

Dissertation Submission

After passing the oral examination, doctoral candidates must submit their dissertation in electronic form to theOhioLINK Electronic Thesis or Dissertation (ETD) Center, where the dissertation is made publicly available. The dissertation must include an abstract of maximum 350 words. The dissertation must be prepared according to established guidelines, which are available in the college office.

Individual units may still require submission of a paper copy for their archives, and the deadline for the dissertation to be filed in the college office is the last day of classes for the term of graduation (some colleges may require an earlier deadline). It is the doctoral student's responsibility to fulfill this requirement.

All dissertations must be submitted to ProQuest for archiving, indexing and dissemination. This submission is made when students upload their dissertation to the OhioLINK ETD Center. All communications and relations between faculty or students and ProQuest shall be carried out only through the Kent State University Libraries or OhioLINK. Publication of the complete dissertation or significant parts of it through other avenues is expected, but this is not to be used in lieu of the requirement stated herein.

Reason for Policy

Policy enforces uniform standards for the doctoral dissertation submission and oral defense and defines the dissertation committees and applicability toward the doctoral degree.

Procedures

Procedures for Appointing the Graduate Faculty Representative

The college dean, or designee, will appoint the graduate faculty representative to the examining committee after consultation, when appropriate, with the advisor or lead administrator of the academic unit. The graduate faculty representative must have the following credentials:

- Directed a dissertation to completion
- Familiar with the general content area of the candidate's dissertation
- Outside the candidate's program or outside the candidate's area of focus

The graduate faculty representative may be appointed from outside the university but still must have directed a dissertation to completion.

The principal responsibility of the graduate faculty representative is to preside and moderate the final examination (oral defense) and to note whether the nature of the questioning of the faculty and the responses of the candidate meet highly respectable scholarly standards. Any concerns must be presented immediately to the college dean or designee. As moderator, the graduate faculty representative should ensure that all participants in the defense act in a civilized, polite and proper manner. The graduate faculty representative should be familiar with the procedures of the oral defense and has the authority to suspend

the examination should a situation arise that would not be conducive to a fair examination.

The graduate faculty representative is expected to question the candidate and to vote on the passing of the final examination.

If a separate moderator for the final oral defense is desired, that individual will be selected by the dissertation committee from the members of the graduate faculty who have been approved to direct dissertations. The separate moderator will not be a faculty member in the candidate's program.

Procedures for the Final Examination (Oral Defense)

When the dissertation committee has met and has agreed to proceed to the final examination, the advisor will designate the time and place of the final oral defense and notify the student and all members of the examining committee.

The oral defense is open to any member of the university wishing to attend and, therefore, a facility adequate to meet this requirement should be provided. The defense should be scheduled to allow a minimum of 10 days for all members of the examining committee to review the dissertation; this is in addition to the 10-day period preceding the dissertation committee meeting.

In the advisor's absence, the academic unit's lead administrator may postpone the oral defense. In the case of long-term absence or enduring illness of the advisor, the lead administrator, in consultation with the college dean, should make appropriate arrangements for a substitute.

The advisor should notify the academic unit of the time and place of the oral defense so that it may be announced in a suitable way. The student should provide the dissertation abstract to the academic unit so that it will be available to interested individuals prior to the defense with the methodology and findings.

Students may participate in the oral defense in a different location than the committee members (i.e., by web conferencing) if they are declared in a fully online degree program or have obtained permission in advance from the committee chair. See the policy onremote participation in a thesis or dissertation defense#in the University Catalog.

The candidate will open the defense with a brief presentation of dissertation findings, after which the members of the examining committee will question the candidate in an order to be determined by the moderator. When, in the moderator's opinion, members of the examining committee have had an adequate opportunity to question the candidate, the moderator may open the examination to appropriate questions from others present. Questions dealing with the substance, meaning and usefulness of the research in the dissertation are of greatest propriety. Questions or comments dealing with punctuation or grammatical minutiae, spelling, etc., are out of order and should be written out and privately submitted to the advisor.

If, in the opinion of the moderator or upon motion duly passed by a majority of the committee, it should be deemed necessary to discontinue the defense, the moderator may recess the defense until a time mutually agreeable to the moderator, the advisor, the candidate and the college dean.

When the questioning has run its course, the moderator will adjourn the defense, and the room will be cleared of everyone except the members of the examining committee. Parliamentary procedure will be observed to determine the success or failure of the candidate, with the moderator acting as chair without a vote. The committee should evaluate the candidate on (a) the dissertation's overall quality and significance and (b) the oral defense of the findings.

All members of the examining committee will sign the Report of Final Examination form, recording their votes of "yes" or "no." Committee members may not abstain in this vote. A candidate passes the final oral defense if there is no more than one dissenting vote. The moderator and lead administrator of the academic unit must then sign the report, forwarded to the college for the dean's signature. The college returns a copy of the completed form to the academic unit.

Only members of the examining committee who voted "yes" are required to sign the dissertation signature page.

Forms/Instructions

- Approval of Dissertation Topic
- Report of Candidacy
- Report of Dissertation Final Examination

Additional Resources

- OhioLINK Electronic Thesis or Dissertation (ETD) Center
- Guidelines for ETD Preparation
- Guidelines for Dissertation Final Examination
- Research Writing Retreat for Graduate Students

Frequently Asked Questions

There is no FAQ associated with this policy.

Definitions

Academic Unit: An academic unit is a department, school or a designated graduate program within a college, department or school.

Defense: Defense refers to students presenting, explaining and defending their ideas submitted in their dissertation. The defense is designed so that faculty members can ask questions to ensure that students understand their chosen field and focus area.

Dissertation: A dissertation is a highly individualized investigative study that results in the development and writing of a scholarly, comprehensive paper and fulfills the culminating requirement for a Ph.D. or Ed.D. degree. The dissertation must demonstrate that the student has acquired the ability to conduct research in a discriminating and original manner. The dissertation should make a significant enough contribution to the field in which it is written that at least one scholarly article suitable for publication in a professional journal may be derived from it or that the findings of the dissertation would be otherwise publishable.

Related Information

- Remote Participation in a Thesis or Dissertation Defense
- Candidacy for Doctoral Degree
- Eligibility for a Doctoral Degree

Revision History

Amended August 2025: Revised policy includes the Ed.D. degree in programs requiring a dissertation; decreases dissertation committee membership from minimum four to three members; and requires

student's advisor to have full graduate faculty status in their college and be in the student's program area.

Amended August 2020: Revised policy clarifies that a dissertation is required for the Ph.D. degree, rather than all doctoral degrees; replaces language regarding dissertation committees with more up-to-date information; removes graduate faculty status levels; eliminates summer registration requirement; add credit hours earned in Dissertation II do not count toward the degree; and adds deadline for filing the dissertation.

Dual Degrees and Double Majors

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Effective Date: Fall 2024
Last Reviewed: Spring 2024
Last Revised: Spring 2024
Next Review: Fall 2027

Policy Statement

Undergraduate Programs

Kent State University students may be able to simultaneously pursue two associate or bachelor's degree programs through either a double major or a dual degree. A double major combines two majors within the same degree (e.g., B.A. degree). A dual degree combines two majors within different degrees (e.g., B.A. and B.S. degrees).

Certain major combinations are not permitted by the colleges. Students interested in a double major or dual degree must consult with their advisor (and an advisor for the second major if in a different college) to determine whether the desired combination of majors is permitted. Declaring a double major or dual degree in the same department or school is allowed only when the department or school offers different majors. For example, a student may declare the Spanish major and the French major even though both majors are offered by the Department of Modern and Classical Language Studies. Some departments or schools may allow a student who earned a Bachelor of Arts degree to return to complete a Bachelor of Science degree in the same major.

Because of their generalist nature, the following degree programs may not be earned as a double major or dual degree with another major and cannot be earned as an additional degree after another degree at the same or higher level has been earned previously:

- Applied Media - B.A.
- Individualized Program - A.T.S.
- Integrative Studies - B.I.S.
- Professional Studies - B.S.
- Technical and Applied Studies - B.T.A.S.

In addition, due to the similarity in program requirements, the Associate of Arts and the Associate of Science degrees may not be earned concurrently with each other; nor may either be awarded as an additional degree when one has been earned previously.

Students cannot be on academic probation and declare another major or degree at either the associate or bachelor's level.

Students pursuing a double major or dual degree concurrently or subsequently must be officially admitted to the programs and complete all requirements for both in addition to the university's undergraduate and residence requirements.

Graduate Programs

Graduate dual degree programs allow students to simultaneously pursue two graduate degrees at the same level (two master's degrees or two doctoral degrees) or two graduate degrees at different levels (one master's degree and one doctoral degree).[1] Rather than sequentially completing first one degree and then the other, the amount of time required to complete both sets of degree requirements may be reduced by completing the programs in a coordinated way. Graduate dual degrees are distinct from combined degree programs, which allow students to simultaneously pursue two degrees at the undergraduate and graduate levels (see policy on Combined Bachelor's/Master's Degree Program in the University Catalog for details).

Coursework common to both programs must constitute a well-planned and meaningful part of each program. A minimum of 60 percent of the total credit hours required for each degree program must be unique to that degree program, after which some courses may be double counted. The percentage of unique hours that must be completed in each degree program may vary from the 60 percent minimum only when the graduate dual degree program has been formally approved by the university.

Graduate credit transferred from another institution is limited to a maximum of 12 credit hours across both degree programs. Doctoral-level courses may be applied toward a master's degree. Under no circumstances may master's-level courses be applied toward a doctoral degree.

The maximum time limits for completing degree requirements and graduation apply to each degree individually (see the policy on Academic Standing–Graduate Student in the University Catalog for details).

Kent State University allows for both informal and formal dual degree programs, as described below.

Informal Dual Graduate Degree Programs

Students may simultaneously pursue two graduate degrees in different programs through an informal dual degree program (those that have not received official university approval). Informal dual degree programs offer students the flexibility to double-count some coursework, given that the two programs in question approve the arrangements. Once admitted to both degree programs, the student and advisor(s) must plan an integrated course of study. The plan must be approved by both programs and filed with the respective college(s). Culminating experiences (e.g. capstone courses, theses, dissertations, applied projects) and comprehensive examinations cannot be shared.

Formal Dual Graduate Degree Programs

A formal dual degree program is one that has been officially approved by the university. It has one curriculum established by two programs resulting in the completion of two graduate degrees at the same level. A list of dual degree programs that have been formally approved may be found in the University Catalog.

[1] This policy does not apply to dual concentrations. Students should contact their program coordinator if they are interested in completing dual concentrations.

Reason for Policy

Policy enforces uniform standards for students seeking to pursue multiple degree programs, either concurrently or subsequently.

Procedures

Undergraduate Dual Degrees and Double Majors

Undergraduate students request the second major/degree through the Manage My Program application in FlashLine and review program requirements in their GPS degree audit.

Graduate Dual Degrees

An applicant who is not currently a graduate student at Kent State University must submit an application and pay an application fee for each program.

Students who are currently enrolled in one graduate program at Kent State University must submit an application and pay an application fee for the second program, indicating on the application that the intent is to complete both degrees rather than to transfer from the first to the second program.

If applying to a formal degree program, the applicant/student should indicate the specific dual-degree concentration in the program.

If admitted to an informal degree program, the student and advisor(s) must plan an integrated course of study. The plan must be approved by both programs and filed with the respective college(s).

Forms/Instructions

There are no forms associated with this policy.

Additional Resources

- Academic Advising (Schedule an Appointment)
- Apply to Kent State
- Change My Major for Undergraduate Students
- Financial, Billing and Enrollment Center
- Graduate Dual Degree Programs

Frequently Asked Questions

Undergraduate Programs

1. **What are the benefits of declaring a double major or dual degree?**
   A double major/dual degree allows you to expand your knowledge and gain skills and expertise in two fields. Earning two degrees demonstrates that you are motivated, hard-working and determined. This distinction can make you more competitive during the hiring process when starting your career.
2. **What is the difference between a double major or dual degree? They sound like the same thing.**
   A double major combines two majors within the same degree (e.g., English and Sociology majors in the B.A. degree). A dual degree combines two majors within different degrees (e.g., Architectural Studies major in the B.A. degree and Construction Management major in the B.S. degree). In some cases, some degrees have requirements in addition to major requirements that you will be required to complete for that degree.
3. **Can I double major or earn a dual degree in anything?**
   No, there are certain combinations that are not allowed. Some are not permitted by the college, and you will need to talk to your advisor (or an advisor for the second major if in a different college) to find out which are allowed. You cannot earn a second major/degree in any one of the following due to the generalist nature of the program: A.T.S. degree in Individualized Program, B.A. degree in Applied Media, B.S. degree in Professional Studies, B.I.S. degree in Integrative Studies or B.T.A.S. degree in Technical and Applied Studies.

Additional FAQ: Undergraduate Dual Degrees and Double Majors

Graduate Programs

1. **Do I need to complete all the requirements for both degrees if I apply for a dual degree?**
   For formal dual degree programs, the colleges have approved a curriculum separate from the individual degree that allows for courses to count toward both degrees, with total credit hours below what would be required if the degree programs were taken separately. You can find this curriculum on the "Dual Degree" tab for that program in the University Catalog (e.g., curriculum for all dual degrees with the M.B.A.)
2. **I do not see the dual degree I want listed in the catalog. What can I do?**
   You should contact the program coordinators of the two programs to discuss the feasibility of pursuing both degrees simultaneously. If you are approved to be admitted to both degrees, you and your advisor(s) will plan an integrated course of study. The plan must be approved by both programs and filed with the respective college(s). Please know that the program's culminating experience (e.g., capstone, thesis, projects) and comprehensive examinations cannot be double counted toward both degrees.
3. **Will I receive two diplomas?**
   Yes, you will receive a diploma for each degree program earned.
4. **What happens if I am dismissed from one of my graduate dual degrees?**
   Please see the Dismissal and Appeal–Graduate policy for information on students in dual degree programs.
5. **Do I have extended time limits for dual graduate degrees?**
   No, you will still be bound by the university's time limits for graduate programs unless you are granted an extension by the program area.

Definitions

Degree: an award for completion of a course of study at a specific level designated by the customary titles of associate, bachelor's, master's, specialist or doctorate. Examples: Associate of Arts degree, Bachelor of Arts degree, Master of Arts degree, Doctor of Philosophy degree.

Double Counting: allowance of a course (and its credit hours) to count toward the requirements of two programs.

Double Major: combines two majors with the same degree; e.g., B.A. degree in Psychology and the B.A. degree in Sociology.

Dual Degree: combines two majors with different degrees, e.g., B.A. degree in Fashion Merchandising and B.B.A. degree in Business Management.

Formal Dual Graduate Degree: dual graduate degree program that has been officially approved by the university; the curriculum for the dual degree is published in the University Catalog.

Informal Dual Graduate Degree: an agreement between two program areas to allow a student admitted to both degree programs to double-count specific coursework toward both.

Major: a set of requirements for completion of a degree as authorized by the Kent State Board of Trustees and the Ohio Department of Higher

Education. Examples: Geography major, Nursing major, Public Health major.

Related Information

- Academic Standing - Graduate Student
- Academic Standing - Undergraduate Student
- Combined Bachelor's/Master's Degree Program
- Credit-Hour Requirement for Graduation
- Search Programs and Degrees
- Time Limits for Graduate Programs
- Transfer of Graduate Credit

Revision History

Amended August 2024: Revised to include two additional completer programs and to link to the list of graduate dual degree programs so they can be updated as needed without having to update this policy.

Amended August 2023: Revised to reflect name change of the bachelor's degree in educational studies and the addition of new graduate dual degree programs.

Amended August 2020: Revised to redefine "double major," eliminate the 140-credit hour requirement for dual degrees; eliminate additional 15 credit hours for concurrent or subsequent associate degrees; provide more information on certain major/degree combinations that are not permitted; restrict students on academic probation from declaring multiple majors; and include master's/doctoral degrees in the graduate dual degrees policy.

Amended August 2015: Revised to reflect university minimum semester credit hours for a degree was decreased, from 121 to 120 for one major or double majors. Minimum semester credit hours for dual degrees remains at 140. Disclaimer on dual concentrations within one major is added.

Amended August 1995: Revised to reflect university minimum semester credit hours for a degree was decreased, from 129 to 121 for one major or double majors and from 148 to 140 for dual degrees.

Amended August 1995: Distinction between double majors and dual degrees are made, with no minimum credit hours for double majors beyond what is required for one degree (129 semester credit hours). Minimum semester credit hours for dual degrees remains at 148.

Amended August 1988: Application fee for graduation is eliminated.

Amended August 1979: Revised to reflect the university's conversion from quarters to semesters; total semester credit hours for two degrees is increased, from 147 (220 quarter credit hours) to 148.

Amended September 1974: Disclaimer added that some degree combinations are not permitted. Students are now allowed to declare and earn two degrees simultaneously. Required additional coursework (30-35 quarter credit hours) is eliminated. A deadline and fee are added for applying for graduation.

Amended September 1965: Allowance on qualifying for a degree in absentia is removed.

Amended June 1952: New allowance on qualifying for a degree in absentia after three years of work at Kent State University.

Amended June 1948: Total quarter credit hours for two degrees is decreased, from 234 to 220. Additional coursework is revised from one year to 30-35 quarter credit hours. Now recommends declaration in second degree as early as possible, changing it from junior to sophomore year. Second degree must be earned after first degree (no awarding of two simultaneously).

Amended June 1942: Revised to reflect the university's conversion from semesters to quarters (now requiring 234 quarter credit hours); procedures added for students to seek college dean approval for a dual degree before the start of junior year.

Effective June 1939: Establishes a policy requiring students to complete 156 semester credit hours and one year (or six summer terms) of residence beyond four years to earn two degrees in any two colleges or two degrees in the same college.

Eligibility for a Doctoral Degree

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

The student will ordinarily observe the following procedure in order to be eligible for the doctoral degree:

- Indicate the intention to meet specifications of the departments concerned by applying for admission. The college or independent school and the department together will determine acceptability.
- Fulfill the credit requirements of the department in which the major work is done.
- Fulfill the residence requirements (if any).
- Satisfy the language or research tool requirements of the department.
- Pass the candidacy (comprehensive) examination in the field of the major subject.
- Carry out a suitable scholarly research or creative program.
- Write a dissertation that shows high attainment and creativity.
- Successfully defend the findings of the dissertation in public before a committee of the graduate faculty.
- Have registered for a minimum of 90 credit hours beyond the bachelor's degree, or 60 credit hours beyond the master's degree (registration for thesis, dissertation and research may be included in this total).

For eligibility for the Doctor of Podiatric Medicine degree, please refer to the college policies in the College of Podiatric Medicine section of this Catalog.

English Placement

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

English Placement

All undergraduate degree programs require successful completion of the Kent Core Composition requirement. Placement into the appropriate starting course in the sequence is determined by ACT English or SAT evidence-based reading and writing or high school GPA. In the event students do not have ACT, SAT scores or qualifying high school GPA and are attending a Kent State University regional campus, they will take Accuplacer Next Generation reading and Writeplacer. This assessment is available on site or remotely. Students who have taken Accuplacer sentence skills, Writeplacer or reading comprehensive at another institution within two years of their initial start date may opt to transfer those scores to Kent State University.

Students enrolled at a Kent State University regional campus who do not meet the university readiness standards will be required to enroll in and earn a minimum C grade in ENG 01001 and a minimum C- grade

ENG 11002 before they can enroll in ENG 21011 . Students who wish to challenge their writing placement may do so using the Writing Placement Reassessment.

To provide more opportunities to all students, ACT/SAT scores and/or high school GPA older than two years are acceptable for English placement. Regional Campus students should also be informed about the Stretch sequence and given the option to enroll in Stretch, regardless of their older ACT/SAT or GPA. Students who do not have ACT/SAT scores or high school GPA will take Accuplacer Reading and Writeplacer.

Kent Campus Students

Assessment	Score	Placement
ACT English	0-25	ENG 11011
ACT English	26+	ENG 21011
SAT Evidence-Based Reading and Writing	200-590	ENG 11011
SAT Evidence-Based Reading and Writing	600+	ENG 21011
Accuplacer and Writeplacer (challenge to ACT/SAT placement)	7+	ENG 21011
GED Reasoning Through Language Arts College Reading	165+ *	ENG 11011
Final high school GPA	2.8+	ENG 11011
Final high school GPA	3.8+ and writing sample **	ENG 21011

Regional Campus Students

Assessment	Score	Placement
ACT English	0-17	ENG 01001 and ENG 11002
ACT English	18-25	ENG 11011
ACT English	26+	ENG 21011
ACT Reading and Writeplacer Next Generation	0-19 and 4	ENG 01001 and ENG 11002
ACT Reading and Writeplacer Next Generation	20+ and 4	ENG 11011
SAT Evidence-Based Reading and Writing	200-470	ENG 01001 and ENG 11002
SAT Evidence-Based Reading and Writing	480-590	ENG 11011
SAT Evidence-Based Reading and Writing	600+	ENG 21011
Accuplacer Next Generation Writing	0-4	ENG 01001 and ENG 11002
Accuplacer Next Generation Writing	4 and 0-249 Accuplacer Reading	ENG 01001 and ENG 11002
Accuplacer Next Generation Writing	4 and 250+ Accuplacer Reading	ENG 11011
Accuplacer Next Generation Writing	5-6	ENG 11011
Accuplacer Next Generation Writing	7+	ENG 21011
GED Reasoning Through Language Arts College Reading	165+ *	ENG 11011
Final high school GPA	0.0-2.9	ENG 01001 and ENG 11002
Final high school GPA	2.8+	ENG 11011
Final high school GPA	3.8+ and writing sample **	ENG 21011

* Kent State University awards college credit for GED 175+ scores.

** Permission must be granted from the Department of English after review of writing sample.

Enrollment - Graduate

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Graduate students shall enroll for at least one term each year (three consecutive terms, including summer as one term) to maintain status as a degree-seeking student. Meeting this minimum enrollment requirement does not guarantee the student will meet the minimum requirements of other programs, offices or agencies.

Students not meeting the minimum enrollment requirement for maintaining status as a degree-seeking graduate student will be considered as having voluntarily withdrawn from the university. After three consecutive terms of non-enrollment, students will be inactivated as a degree-seeking student.

Students who withdrew and wish to have their graduate standing re-instated must follow the same admission procedures as those required of new applicants, including submission of a non-refundable application fee and application materials. Acceptance back into a graduate program is not guaranteed even if the student departed in good standing. Students who apply and are admitted will be re-instated under the catalog-in-force at the time of admission. The program determines how much of the previously completed work may be applied toward the graduate degree program.

Students on an approved leave of absence may return to their program of study by completing the Application for Graduate Re-Enrollment form found on the Graduate College forms website.

Enrollment Definitions

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

For financial aid eligibility and enrollment certification for loan deferments, insurance coverage and other purposes, the enrollment status of students is defined as the following:

Undergraduate Students

Enrollment Type	Credit Hours
Full-time	12+
Three-quarter-time	9-11
Half-time	6-8
Less-than-half-time	1-5

Graduate Students

Enrollment Type	Credit Hours
Full-time	8+
Three-quarter-time	6-7
Half-time	4-5
Less-than-half-time	1-3

For summer, the statues listed above may be fulfilled by enrollment in one or more sessions within the summer semester, including summer intersession. Courses receiving an AU, NF or SF mark are not counted in enrollment credit hours. This definition differs from the one used for

assessing tuition and fees (for more information, see Office of the Bursar website).

Exploratory and General Majors

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Kent State offers the non-degree Exploratory major on all campuses and generalist majors within most colleges to enable undergraduate students to explore academic areas and/or meet minimum program requirements. Baccalaureate-seeking students in these non-degree majors must declare a degree major by the time they have earned 45 credit hours at Kent State University. Students needing assistance with selecting a major must consult with an academic advisor.

Foreign Language Placement

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Students intending to study Chinese, French, German, Italian, Russian or Spanish should take the placement assessment 48 hours before their academic advising appointment.

Students planning to study a language other than the ones listed above should contact the Department of Modern and Classical Language Studies via email (mcls@kent.edu) or website for further placement instructions. All students should begin foreign language study in the appropriate course, which may be determined in one of the following ways:

1. Webcape Placement Exam available on the Placement Channel in FlashLine for Chinese, French, German, Italian, Russian and Spanish.
2. Placement interview with a faculty member in the Department Modern and Classical Language Studies for languages for which there is no Webcape Placement Exam.
3. Placement based on alternative credits accrued per one of the approved methods specified in the University Catalog.

Foreign Language Requirements: Generally, foreign language requirements are met by passing the highest level course in the language requirement or a course beyond the highest level in the requirement. Students should review the University Catalog and consult with their academic advisor(s) to determine specific language requirements for their college and program. Some students may begin their university foreign language experience beyond the Elementary I level without receiving credit for the previous course(s) and, thus, may complete the requirement with fewer credit hours and fewer courses than specified in their language requirement. In this case, the credit hours not used for the language requirement may be still required for graduation, but may be applied toward coursework in the student's major or minor or as electives.

Foreign Language Proficiency Waiver: Students able to demonstrate foreign language proficiency comparable to the highest course in their foreign language requirement may be able to have their language requirement waived. Students should review the University Catalog and consult with their academic advisor(s) and the Department of Modern and Classical Language Studies to verify eligibility. Proficiency waivers will be granted for the following:

1. **International students** who were educated through high or secondary school in a language other than English. Foreign language waivers will be granted to international students who have
   a. TOEFL, IELTS, MELAB, PTE Academic score recorded in their Kent State University academic record;
   b. completed English-as-second-language courses at Kent State; or
   c. provided documentation that they attended a secondary or high school in a country in which courses were taught in a language other than English (e.g., high school transcripts or diploma in the original language along with a certified English translation).
2. **American Council on the Teaching of Foreign Languages (ACTFL) Exams.** The tests are administered by Language Testing International. Students are responsible for the costs of the exam(s) and for providing the Department of Modern and Classical Language Studies with a copy of the certificate(s). Instructions for taking the ACTFL Exams may be found on the department's website.
   a. A proficiency waiver will be granted through Elementary II of a foreign language to students who provide either
      i. an official ACTFL Oral Proficiency Interview (OPI) certificate that documents proficiency at the Intermediate Low or higher level; or
      ii. comparable qualifying score on an ACTFL-based proficiency exam such as those accepted for the Ohio Seal of Biliteracy confirming oral proficiency of at least an intermediate low level.
   b. A proficiency waiver will be granted through Intermediate II of a foreign language to students who provide either
      i. an official ACTFL Oral Proficiency Interview (OPI) **and** Writing Proficiency Test (WPT) certificates with scores at the Intermediate Low or higher level; or
      ii. comparable qualifying ACTFL-based proficiency exams such as those accepted for the Ohio Seal of Biliteracy confirming oral proficiency **and** writing proficiency of at least an intermediate low level.
3. **Common European Framework of Reference for Language (CEFR) Ratings.** A proficiency waiver will be granted through Elementary II of a foreign language to students who provide an official (European) CEFR certificate confirming oral proficiency of at least the B1.1 level. A proficiency waiver will be granted through Intermediate II of a foreign language to students who provide an official CEFR certificate confirming oral and writing proficiency of at least the B1.2 level. Students are responsible for providing the Department of Modern and Classical Language Studies with a copy of the certificate(s).
4. **Defense Language Proficiency Test (DLPT).** A proficiency waiver will be granted through Elementary II of a foreign language to students who were tested during military service and provide an official DLPT certificate confirming oral proficiency of at least ILR 1. A proficiency waiver will be granted through Intermediate II of a foreign language to students who provide an official DLPT certificate confirming oral proficiency of at least ILR 1+.
5. **Ohio Seal of Biliteracy.** A proficiency waiver may be granted through Elementary II or Intermediate II of a foreign language to students with an Ohio Seal of Biliteracy, depending on the results of their qualifying test scores. Students who have qualified for the Ohio Seal of Biliteracy by means of an International Baccalaureate (IB) or Advance Placement (AP) exam or who submit their ACE transcripts may be eligible to receive credit for the Ohio Seal of Biliteracy. Students will be required to submit their certificate and exam results to Kent State University officials to determine which level of proficiency will be granted. For more information, visit the

Grade Point Average (GPA)

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Undergraduate Students

Overall GPA for Graduation

To graduate from Kent State University with an associate degree, bachelor's degree, undergraduate minor or undergraduate certificate, all students must earn a minimum 2.000 overall grade point average (GPA). Some programs require a higher overall GPA for graduation, and these are noted on the program's page in the University Catalog and in the GPS degree audit.

A student's overall GPA is calculated using all coursework taken at Kent State, with the exception of grades exempted through Kent State's course repeat or GPA adjustment policies.

Major, Minor and Certificate GPA for Graduation

To graduate with a declared undergraduate major, minor or certificate, all students must earn a minimum 2.000 GPA in the program. Some programs require a higher GPA for graduation, and these are noted on the program's page in the University Catalog and in the GPS degree audit.

A student's major, minor or certificate GPA is calculated using only the courses that complete the requirements in that major, minor or certificate. When multiple courses may be used to complete a specific requirement (e.g., "choose from" or either/or choice), the course with the highest passing grade will complete the requirement and be used in the calculation of the major, minor or certificate GPA.

The major, minor and certificate GPA can be found in the student's GPS degree audit; they are not displayed on the student transcript or diploma and are not stored in the university's student information system.

Latin Honors GPA

For information on how the GPA is calculated for Latin Honors (bachelor's degrees) and for Distinction (associate degrees), refer to the Honors at Graduation policy in the University Catalog.

Graduate Students

To be considered "in good standing," a 3.000 average or better in all graduate and required undergraduate work undertaken at Kent State University should be maintained by graduate students[1]. In order to qualify for graduation, the student must have a 3.000 average in all graduate courses attempted. The grade point average of a student who enlists in the military service after work is begun toward a graduate degree may, at the student's request upon return from military service, exclude the grades earned in the last semester in which that student is in residence prior to induction.

[1] Students seeking the Doctor of Podiatric Medicine degree are expected to maintain a minimum 2.000 grade point average.

Calculating Grade Point Average

Quality points are awarded on the following scale:

- 1 credit hour of A equals 4.000 points
- 1 credit hour of A- equals 3.700 points
- 1 credit hour of B+ equals 3.300 points
- 1 credit hour of B equals 3.000 points
- 1 credit hour of B- equals 2.700 points
- 1 credit hour of C+ equals 2.300 points
- 1 credit hour of C equals 2.000 points
- 1 credit hour of C- equals 1.700 points
- 1 credit hour of D+ equals 1.300 points
- 1 credit hour of D equals 1.000 point
- 1 credit hour of F equals 0.000 points
- 1 credit hour of NF equals 0.000 points
- 1 credit hour of SF equals 0.000 points
- 1 credit hour of U equals 0.000 points

A grade point average is determined by dividing the total number of points earned by the number of quality hours taken. Totals are extended to three decimal points and are **not** rounded up.

As an example, assume a student has completed 30 credit hours with a grade distribution of 3 credit hours of A, 3 credit hours of B, 3 credit hours of B-, 15 credit hours of C, 4 credit hours of D and 2 credit hours of F.

Dividing 63.100 by 30, a GPA of 2.103 is obtained, which is slightly above a C average. Overall GPA is computed by dividing the total quality points by the total quality hours. Grades of S (Satisfactory), Y (Pass) and Z (Fail) are not included in the GPA.

Grade Point Average (GPA) Adjustment

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Effective Date: August 2023
Last Reviewed: October 2018
Last Revised: February 2023
Next Review: February 2026

Policy Statement

The Grade Point Average (GPA) Adjustment policy provides students the opportunity to make progress toward degree completion by allowing them to remove a maximum of six courses with grades C- or lower from the calculation of their overall GPA and earned hours.

Eligibility

To be eligible for a GPA adjustment, students must meet all the following conditions at the time of the request:

- Officially admitted, reenrolled or reinstated to Kent State *
- Seeking a Kent State undergraduate degree or certificate
- Enrolled in undergraduate credit courses at Kent State

* Students who are dismissed may apply for GPA adjustment if they appeal and are reinstated.

Students with a previous undergraduate degree or certificate and currently enrolled in a subsequent undergraduate program are eligible with the following stipulations:

- Students who earned a Kent State associate or bachelor's degree or certificate may request a GPA adjustment for failed grades (F, NF, SF, U) and only C-, D+ and D grades for the courses that were not used toward earning the previous degree or certificate.
- Students who earned a non-Kent State associate or bachelor's degree or certificate may request a GPA adjustment for failed grades (F,

NF, SF, U) earned before or after the awarded degree or certificate and only C-, D+ and D grades earned after the awarded degree or certificate.

Reason for Policy

This GPA Adjustment policy is an alternative to the Course Repeat policy and allows students to request specific course grades to be removed from their GPA and overall credit hours subjected to specific conditions for eligibility and approval.

Procedures

To apply for a GPA adjustment, students must complete the following steps:

1. Meet with an academic advisor to begin an application
2. Provide a written statement describing their plan to assure successful academic performance in the future
3. Select a maximum of six courses with grades C-, D+, D, F, NF, SF, M and/or U to be removed from the GPA and earned hours

Once the steps outlined above have been completed, the Office of the University Registrar will remove the student-selected grades from the calculation of the student's GPA and earned hours. The grades will be retained on the student's transcript with the notation of an "E" (excluded) in the repeat column. The official grade for the courses will be changed to X* (e.g., XC-, XD) to denote a GPA adjustment.

The following stipulations to course forgiveness will be enforced:

- The GPA Adjustment policy applies only to coursework taken at Kent State University and only to the students' Kent State transcript. Students cannot request the policy for grades earned from transfer courses.
- Students cannot request the policy for courses taken for a pass/fail grade.
- The course must officially be recorded on the student's transcript for grade adjustment to be considered.
- Students selecting a GPA adjustment for a course required to graduate with their declared program must retake this course unless the dean of the college in which they are enrolled approves a suitable substitution.
- The original GPA (includes any courses under the GPA Adjustment policy) will be used in determining eligibility for Latin honors, distinction or other recognition, as well as satisfactory academic progress eligibility for federal financial aid, based upon the entirety of students' undergraduate academic career and record of academic performance.
- A student may submit multiple requests for GPA adjustment until the maximum six courses is met or the student graduates with that degree or certificate, whichever comes first. Students cannot request this policy for a course in a degree or certificate program after that degree or certificate has been awarded.
- Students who participated in academic forgiveness in the past may request GPA adjustment if they had fewer than six courses removed from their GPA and earned hours under the previous policy. Maximum six courses may be removed under previous and proposed policy, combined.
- Once the course grade and credit hours have been removed from the student's GPA and earned hours, they will not, under any circumstances, be reinstated.
- A graduate school may review a student's complete undergraduate record (including any courses under the GPA Adjustment policy) when making admission decisions.

Forms/Instructions

Students must contact an academic advisor to begin an application.

Additional Resources

- Financial, Billing and Enrollment Center
- Satisfactory Academic Progress for Financial Aid
- University Advising

Frequently Asked Questions

1. **How does the new GPA Adjustment policy differ from the Academic Forgiveness policy?**
   The Academic Forgiveness policy has been revised and renamed GPA Adjustment. The process for applying and the eligibility requirements have been modified to simplify the process and remove unintended barriers for students to receive a second chance at pursuing their academic goals and progress for degree completion.
2. **What is the difference between the GPA Adjustment policy and the Course Repeat policy?**
   GPA Adjustment allows for students to select a maximum of six courses with grades C- and lower to be removed from the calculation of their GPA and overall credit hours. Course Repeat also allows for courses taken to be excluded the student's GPA; however, in contrast to the GPA Adjustment Policy, students must take the same course again (i.e., repeat), and have only the highest grade earned in the attempts be applied to the GPA. You should consult with your academic advisor regarding both policies to help them determine which one applies best to your circumstances.
3. **How will using GPA Adjustment affect my financial aid?**
   Courses forgiven under GPA Adjustment still will be used in determining your financial aid eligibility. Grades and credit hours (earned and attempted) from forgiven courses will be reflected in your Satisfactory Academic Progress calculation found in FlashLine.

Additional FAQ: GPA Adjustment

Definitions

Admitted: Offered admission to enroll in a program at Kent State University.

Earned Hours: Credit hours for courses that the student completed with a grade or administrative mark that is considered passing.

Enrolled: Student has completed course registration for a specific term.

GPA (Grade Point Average): An indication of a student's academic achievement at Kent State University, determined by the number of credit hours attempted at Kent State University and the grades received. The Kent State GPA is calculated to three places past the decimal point and not rounded.

GPS Degree Audit: A summary of all official program requirements merged with the student's academic record to provide a real-time assessment of progress toward graduation.

Reenrolled: Act of being restored to active-student status in order to register for courses and pursue completion of an academic program after an absence of one full academic year or longer.

Reinstated: Act of being restored to active-student status after academic dismissal in order to register for courses and pursue completion of an academic program.

Student Transcript: The accurate and complete record of a student's academic coursework attempted at an institution, presented in either electronic format or paper format.

Related Information

- Academic Standing – Undergraduate Student
- Course Repeat
- Dismissal, Appeal and Reinstatement
- Grade Point Average (GPA)
- Grading Policies and Procedures
- Honors at Graduation

Revision History

Amended August 2023: Revised policy clarifies that students must be seeking a Kent State undergraduate degree/certificate and enrolled in undergraduate Kent State courses (i.e., not open to guest students or former students who do not return to Kent State). In addition, the required quiz is eliminated; instead, students initial each statement that was part of the quiz on their application request.

Amended August 2022: Revised policy eliminates the one-year away requirement from Kent State, allows students with a previous degree to be eligible with certain stipulations, replaces GPA and credit-hours requirement for eligibility with requirement that students meet with their academic advisor and provide a written statement describing their plan to assure successful academic performance in the future. Instead of removing all grades C- and lower from the GPA, students select a maximum of six courses with grades C- and lower to be removed. Policy is renamed Grade Point Average (GPA) Adjustment.

Amended August 2012: Revised policy applies to the clause for Kent State associate degree holders to allow forgiveness to be applied toward any course not used for a previous associate or certificate degree, rather an any course after earning the previous credential.

Amended August 2011: Revised policy decreases the time away from three (two for veterans) to one year for all students; and removes stipulation that students cannot take coursework elsewhere for at last three years. Students who earned a Kent State associate degree are now eligible for coursework taken after that degree.

Amended August 2005: Revised policy add C- to the list of grades that are forgiven after eligibility.

Amended August 1981: Revised policy decreases the time away only for students who were enlisted in the armed forces, from three to two years. Former students who did complete coursework elsewhere may be eligible if three years passed since that study. Revision also adds an eligibility requirement of 15-30 credit hours of graded coursework with a 2.000 GPA. Once eligible, all grades D or lower are forgiven.

Effective September 1976: Establishes a formal Academic Forgiveness policy for all undergraduate students. To be eligible, former students must be away from the university for three or more calendar years and have not attended another university during that time.

Effective September 1968: Establishes an administrative policy regarding academic forgiveness for former students who had left the university to serve in the armed forces. To be eligible, students must be away from the university for three or more calendar years.

Grade-/Mark-To-Grade Change Policy

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

With the exception of the IN, IP and NR marks, once grades or marks are submitted, they are final and will not be changed except in cases of administrative error. Grades will not be changed by allowing the students to do additional work (e.g., retaking exams; redoing papers; submitting extra credit papers, reports) or by using criteria other than those applied to all students in the class.

In the event of a possible administrative error, the students must contact the instructor as soon as possible following the awarding of the grade. If the instructor is not available, the department/school chair/director should be contacted.

Grade appeals for reasons other than administrative error must follow established policy and procedures for student academic complaints, see policies 4-02.3 for Kent Campus and 8-01.4 for regional campuses in the University Policy Register.

Approved grade change requests for reasons other than removal of the IN, IP and NR marks must be submitted no later than the end of three consecutive terms after the grade was submitted or before the student's degree is posted officially to the permanent academic record, whichever comes first.[1] No challenge will be considered or adjustment made after that period. Deadline for removing the IN mark is noted in the Administrative Marks section above.

Grading Policies and Procedures

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

The transcript is an accurate and complete historical record of work attempted at the university. Changes to transcript entries that alter the enrollment history of a student are not to be made.

Academic Grades

The following grades are determined and assigned by faculty based upon appraisal and evaluation of student performance in completing requirements of a course:

Letter Grade	Description
A	(4.000) Denotes "superior scholarship."
A-	(3.700)
B+	(3.300)
B	(3.000) Denotes "good performance" for students in undergraduate courses and "average performance" for students in graduate courses.
B-	(2.700)
C+	(2.300)
C	(2.000) Denotes "fair or average performance" for students in undergraduate courses and "below average performance" for students in graduate courses.
C-	(1.700)
D+	(1.300)

D	(1.000) Denotes "poor (but passing) performance" for students in undergraduate courses and "far below average performance" for students in graduate courses.
F	(0.000) Denotes failure of the student's overall performance. This grade is earned and is not used for students who never attended or stopped attending the course (see NF and SF marks in Administrative Marks section below).
S	The grade S (Satisfactory) denotes passing performance and is used for courses where S/U grading, rather than letter grading, is permitted. The credit hours are awarded, but the grade is not counted in grade point averages. Work earning an S grade may be applied toward meeting degree requirements.
U	The grade U (Unsatisfactory) denotes failing performance and is used for courses where S/U grading, rather than letter grading, is permitted. This grade is earned and is not used for students who never attended or stopped attending the course (see NF and SF marks in Administrative Marks section below). Credit hours are recorded as attempted, and the grade is counted as an F (zero quality points) in grade point averages.
Y	The grade Y denotes a passing grade in undergraduate courses in which students have elected the credit/no credit grading option. The credit hours are awarded, but the grade is not counted in grade point averages.[1]
Z	The grade Z denotes failing performance in undergraduate courses in which students have elected the credit/no credit grading option. The credit hours are recorded as attempted, and the grade is not counted in grade point averages.[1]

[1] Refer to the Credit/No Credit Grade policy for conditions governing the acceptability of credit/no credit (Y/Z) grades at Kent State.

Administrative Marks

The following administrative marks are assigned when a letter grade is not appropriate.

Mark	Description
AU	The mark AU (Audit) denotes enrollment in a course without benefit of a grade or credit, typically for purposes of self-enrichment and academic exploration. Students may audit any course subject to space availability and prior departmental approval. To audit a course, students must go through registration procedures and be assessed registration fees. An audited course cannot be applied toward a student's degree or certificate. An instructor may impose whatever attendance requirements deemed necessary upon the students registered for audit. The students must be informed of these requirements at the beginning of the semester. Failure to meet such attendance requirements subjects the students to being withdrawn from the course by the instructor. The AU mark is not counted in grade point averages.[1]
CP	The mark CP (Complete) denotes completion of requirements for registered course COOP 20092 Cooperative Education. The CP mark is not counted in grade point averages.
CR	The mark CR (Credit) denotes credit hours, but not letter grade, earned through successful completion of an alternate credit program (e.g., exam credit, trade competency or other non-institutional credit). The CR mark is not counted in grade point averages.
IN	The mark IN (Incomplete) may be given to students who—due to extenuating circumstances—are unable to complete the required work between the course withdrawal deadline and the end of classes. The timeline shall be adjusted appropriately for summer sessions and flexibly scheduled courses. The IN mark is not counted in grade point averages.[2]
IP	The mark IP (In Progress) may be given to students to indicate that work is in progress toward a thesis, dissertation, research, individual investigation or a similar effort that requires additional time beyond a semester. A grade will be given when the work is completed. The IP mark can be utilized only in designated courses and remains a terminal mark if the student does not complete the requirements for the course. For courses required for a degree or certificate, a grade must be given before the credential may be granted. The IP mark is not counted in grade point averages.
M	The mark M (Missing) was used until 1980. It is similar to the NF and SF marks (see below) and counts as an F grade (zero quality points) in grade point averages.

NC	The mark NC (Not Complete) denotes requirements have not been completed for registered course COOP 20092 Cooperative Education. The NC mark is not counted in grade point averages.
NF	The mark NF (Never Attended–Fail) denotes that the student neither attended any class session nor formally withdrew from the course. The NF mark counts as an F grade (zero quality points) in grade point averages. In the case of undergraduate courses taken pass/fail, the NF mark will be changed to a Z (fail) grade.[1]
NR	The mark NR (Not Reported) indicates the instructor did not submit a grade. For courses required for a degree or certificate, a grade must be given before a credential can be granted. The NR mark is not counted in grade point averages.
SF	The mark SF (Stopped Attending–Fail) denotes that the student stopped attending the course and did not formally withdraw. The SF mark counts as an F grade (zero quality points) in grade point averages and must be accompanied by a date of last attendance in the course. Faculty who cannot determine the exact date of last attendance may use the date of the last academic activity in which students participated. In the case of undergraduate courses taken pass/fail, the SF mark will be changed to a Z (fail) grade.[1]
T	The mark T denotes student participation in a national or international academic exchange program and is not counted in grade point averages.
TR	The mark TR (Transfer) denotes accepted transfer coursework and is not counted in grade point averages.
W	The mark W (Withdrawal) denotes that the student has withdrawn from the university or from any individual course without evaluation. For courses in the College of Podiatric Medicine, this mark is given to students who withdraw prior to midterm exams. The W mark is not counted in grade point averages.
WF	The mark WF (Withdrawal–Fail) is used by the College of Podiatric Medicine to denote that the student has withdrawn from the university or from any individual course/rotation with failing status after seven weeks of course instruction. The WF mark is not counted in grade point averages.[3]
WP	The mark WP (Withdrawal–Pass) is used by the College of Podiatric Medicine to denote that the student has withdrawn from the university or from any individual course/rotation with passing status after seven weeks of course instruction. The WP mark is not counted in grade point averages.[3]

[1] A student receiving the AU, NF or SF mark is enrolled officially in the course; however, credit hours for the course are not applied toward the student's course load for financial aid and other select purposes.
[2] Please refer to the Incomplete Mark policy below for conditions governing student eligibility and approval for an Incomplete mark at Kent State.
[3] Please refer to the College of Podiatric Medicine section in the University Catalog for procedures for withdrawal.

Calculating Grade Point Average

Quality points are awarded on the following scale:

- Each hour of A equals 4.000 points
- Each hour of A- equals 3.700 points
- Each hour of B+ equals 3.300 points
- Each hour of B equals 3.000 points
- Each hour of B- equals 2.700 points
- Each hour of C+ equals 2.300 points
- Each hour of C equals 2.000 points
- Each hour of C- equals 1.700 points
- Each hour of D+ equals 1.300 points
- Each hour of D equals 1.000 point
- Each hour of F equals 0.000 points
- Each hour of NF equals 0.000 points
- Each hour of SF equals 0.000 points
- Each hour of U equals 0.000 points

A grade point average is determined by dividing the total number of points earned by the number of quality hours taken. Totals are extended to three decimal points and are not rounded up.

As an example, assume a student has completed 30 credit hours with a grade distribution of 3 credit hours of A, 3 credit hours of B, 3 credit hours of B-, 15 credit hours of C, 4 credit hours of D and 2 credit hours of F.

Dividing 63.100 by 30, a grade point average of 2.103 is obtained, which is slightly above a C average. Cumulative averages are computed by dividing the total quality points by the total quality hours. Grades of S, Y and Z are not included in grade point average.

Grade Reports

Final grades are reported at the close of each academic term and become a part of the students' permanent records. Grades are available in FlashLine.

Incomplete Mark Policy

The mark IN (Incomplete) may be given to students who—due to extenuating circumstances—are unable to complete the required work between the course withdrawal deadline and the end of classes. The timeline shall be adjusted appropriately for summer sessions and flexibly scheduled courses. The IN mark is not counted in grade point averages.

To be eligible to request an incomplete mark for a course that was not completed due to extenuating circumstances, undergraduate students must be earning a minimum D grade, and graduate students must be earning a minimum C grade, in the course at the time of the request.

Appropriate documentation is required to support the extenuating circumstance.

The student or university-approved designee must request the IN mark from the instructor of the course, and it is the responsibility of the student to arrange to make up the incomplete work. After the instructor approves the request, the instructor must initiate the request by submitting an Incomplete Mark Contract workflow to the department chair/school director prior to the grading deadline. This electronic workflow includes justification for awarding the Incomplete, describes the work to be completed for the course and specifies the grade to be assigned if the work is not completed (default grade). The Incomplete Mark Contract is sent electronically to the student.

When the work is completed, an appropriate grade will be assigned—based on the instructor's evaluation of the work submitted—and a new grade point average computed.

If the student does not complete and receive a grade, or is not granted an extension, the student's IN mark for the course automatically will lapse to the default grade designated on the Incomplete Mark Contract:

1. at the end of one semester for undergraduate courses or
2. at the end of three consecutive terms for graduate courses.

If the student is granted an extension and does not complete and receive a grade by the deadline, the student's IN mark for the course automatically will lapse to the default grade designated on the Incomplete Mark Contract at the end of the term in which the extension deadline occurs.

Grade-/Mark-To-Grade Change Policy

With the exception of the IN, IP and NR marks, once grades or marks are submitted, they are final and will not be changed except in cases of administrative error. Grades will not be changed by allowing the students to do additional work (e.g., retaking exams; redoing papers; submitting extra credit papers, reports) or by using criteria other than those applied to all students in the class.

In the event of a possible administrative error, the students must contact the instructor as soon as possible following the awarding of the grade. If the instructor is not available, the department/school chair/director should be contacted.

Grade appeals for reasons other than administrative error must follow established policy and procedures for student academic complaints, see policies 4-02.3 for Kent Campus and 8-01.4 for regional campuses in the University Policy Register.

Approved grade change requests for reasons other than removal of the IN, IP and NR marks must be submitted no later than the end of three consecutive terms after the grade was submitted or before the student's degree is posted officially to the permanent academic record, whichever comes first.[1] No challenge will be considered or adjustment made after that period. Deadline for removing the IN mark is noted in the Administrative Marks section above.

Link to Midterm Evaluation Policy

Link to Credit/No Credit Grade Policy

Graduation

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Effective Date: Fall 2025
Last Reviewed: Spring 2025
Last Revised: Fall 2009
Next Review: Spring 2029

Policy Statement

Kent State University awards undergraduate and graduate degrees and certificates each December, May and August. The graduation requirements for these programs are outlined in the various sections of the University Catalog.

Reason For Policy

In order to be awarded their declared degree/credential, all students must formally apply for graduation. This policy outlines the general procedure the university community must follow regarding the graduation application process and posting of degrees.

Procedures

Application for Graduation

Graduation is not automatic. Undergraduate and graduate students applying for graduation must complete the online graduation application in **FlashLine** (Student / Resources / Graduation) by the published deadlines listed below. The online graduate application is used for all degrees, minors and certificate programs on all Kent State campuses and locations. More information on application deadlines may be found on the Financial, Billing and Enrollment Center website.

- **December Graduation:**
  - Application for a bachelor's degree or undergraduate certificate must be submitted by the 15th day of the preceding March.
  - Application for an associate degree, graduate degree (master's, post-master's or doctoral) or graduate certificate must be submitted by the Friday of the first week of the fall term in which graduation will occur.
- **May Graduation:**
  - Application for a bachelor's degree or undergraduate certificate must be submitted by the 15th day of the preceding September.
  - Application for an associate degree, graduate degree (master's, post-master's or doctoral) or graduate certificate must be submitted by the Friday of the first week of the spring term in which graduation will occur.[1]
- **August Graduation:**
  - Application for a bachelor's degree or undergraduate certificate must be submitted by the 15th day of the preceding December.
  - Application for an associate degree, graduate degree (master's, post-master's or doctoral) or graduate certificate must be submitted by the Friday of the first week of the summer term in which graduation will occur.

[1] Candidates for the Doctor of Podiatric Medicine degree must meet all graduation requirements before June 30 immediately following the May graduation. Completion of program requirements after June 30 but before the conclusion of the calendar year will result in a December graduation. After December, candidates will not be eligible

for graduation until the following May. Attendance at the graduation ceremony is required.

Students who missed their application deadline but still wish to apply for graduation may complete a Late Graduation Application and submit the application to their college advising office or campus student services office for approval.

Degrees are posted to students' permanent academic record, including the student transcript, following their effective date of graduation.

Forms/Instructions

- Graduation application in **FlashLine** (Student / Resources / Graduation)
- Late Graduation Application

Additional Resources

- Commencement
- Financial Aid, Billing and Enrollment Center
- Forms and Requests
- Graduation Application Dates and Procedures
- Graduation, Honors and Recognition
- Transcript Orders

Frequently Asked Questions

1. **Why do I have to apply for graduation?**
   Since students progress through their program at their own pace, applying for graduation is the only way to let the university know when you intend to graduate. It then affords the university time to review your progress, submit any necessary adjustments, prepare your diploma and forward your information to the Commencement Office for inclusion in the ceremonies.
2. **How do I know when I'm ready to graduate?**
   One of the best tools to track your progress in your program is the GPS degree audit, which combines your declared program's requirements with your course registration and final grades. You can find your audit by logging into FlashLine and clicking on the "Student" tab; the GPS Audit and Plan is on the dashboard.
3. **How soon can I apply before the deadline?**
   The online application for graduation typically is available anywhere from six to nine months PRIOR to the deadline. For specific dates, you can consult the Financial Aid, Billing and Enrollment Center website.

Additional FAQ: Graduation

Definitions

Commencement: Commencement is the formal ceremony that commemorates degree/certificate candidates.

Flashline: FlashLine is the web-based portal (entryway) for Kent State students, faculty, staff and alumni. For help with FlashLine, call 330-672-HELP (4357) or visit Tech Help.

GPS Degree Audit: The GPS (Graduation Planning System) degree audit is the official list of degree requirements merged with students' individual academic records to provide a real-time assessment of their progress toward graduation.

Graduation: The status of completion of a degree program.

Related Information

- Candidacy for Doctoral Degree
- Credit-Hour Requirement for Graduation
- Dissertation for the Doctoral Degree
- Eligibility for a Doctoral Degree
- Graduation Planning System (GPS)
- Honors at Graduation
- Qualifying Examination for Master's Degree
- Thesis for a Master's Degree
- Time Limits for Graduate Degree
- Transcripts

Revision History

Amended August 2025: Revised policy to more accurately follow current practice and specify the distinction between graduation and commencement. Specific changes include removal of late application fee and change in language of awarding of certificates at commencement.

Amended 2009: Revised policy adds a fee for students submitting a late application for graduation.

Amended 1993: Revised policy changes application deadlines for undergraduate programs: from 10th week of the spring semester to March 15 for December graduation; from second week of the fall semester to September 15 for May graduation; and from last week of the fall semester to December 15 for August graduation.

Graduation Planning System (GPS)

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY
Effective Date: Fall 2025
Last Reviewed: Spring 2025
Last Revised: Fall 2012
Next Review: Fall 2035

Policy Statement

The Graduation Planning System (GPS) is the degree audit tool used by Kent State University to provide a real-time assessment of students' progress in their declared academic program and is the official record that determines eligibility for graduation. The audit is a direct reflection of the requirements outlined in the University Catalog and is merged with the student's academic record.

Reason For Policy

In addition to being a tool for students to use to track their progress in their declared program of study, the Graduation Planning System is also the authority for program completion and graduation.

Procedures

There are no procedures associated with this policy.

Forms/Instructions

GPS Audit and Plan can be accessed in the Advising and GPS channel (Student Tools and Courses tab) in **FlashLine.**

Additional Resources

- Academic Advising (Schedule an Appointment)
- Financial, Billing and Enrollment Center
- Introduction to the GPS Audit and Student Manual
- Manage My Program for Students (Change My Program)

Frequently Asked Questions

1. **Are the requirements listed in my GPS the same as in the catalog?**
   Yes. The requirements listed on your GPS audit reflect those listed in the University Catalog for your declared catalog year for each program. Your GPS audit, as an extension of the university catalog, is the official contract between you and the university in terms of the requirements you need to complete to earn your program.
2. **How do I find my GPS audit?**
   You can find your audit by logging into FlashLine and going to the "Student" tab; the GPS Audit and Plan is on the dashboard. It is also listed under "Resources" and then "Advising and GPS." You also can use the search bar in FlashLine and enter "GPS."
3. **If I think a course should be applying to my program on my audit, but is not, what should I do?**
   You should meet with your academic advisor and/or program coordinator to discuss any discrepancies you may have. If there is a correction that needs to be made, they will submit the request to update the audit on your behalf.
4. **How current is the information on my audit?**
   Information in your audit is updated nightly from Kent State's student information system (Banner). To be certain that your audit information is refreshed, you should always click on the "Process" button when you view your audit.

More FAQ can be found on the GPS website.

Definitions

Catalog: A term identifying the catalog that contains the requirements defining a student's academic program. Initially, it is the Catalog in force during the student's first semester at Kent State University.

Catalog in Force: The University Catalog for the current academic year. Example: In fall semester 2024, spring semester 2025 and summer term 2025, the Catalog in force is the 2024-2025 University Catalog.

FlashLine: FlashLine is the web-based portal (entryway) for Kent State students, faculty, staff and alumni. For help with FlashLine, call 330-672-HELP (4357) or visit Tech Help.

GPS Degree Audit: The GPS (Graduation Planning System) degree audit is the official list of degree requirements merged with students' individual academic records to provide a real-time assessment of their progress toward graduation.

Office of the University Registrar: The university office that plans and oversees academic scheduling, academic records, credit transfer, graduation, transcript processing, and system support and compliance reporting.

Related Information

- Catalog Rights and Exclusions
- Grading Policies and Procedures
- Graduation

Revision History

Amended August 2025: Revise policy language to reflect the connection of the audit to the catalog year in force and its use for graduation clearance.

Effective August 2012: Established policy for the Graduation Planning System (GPS), which was implemented fall 2010.

Honors at Graduation

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY
Effective Date: December 2019
Last Reviewed: March 2019
Last Revised: April 2019
Next Review: February 2027

Policy Statement

Graduation with Latin Honors

Candidates for bachelor's degrees who demonstrate high levels of scholarship throughout their undergraduate years will graduate with Latin honors. To graduate with this recognition at Kent State University, students must achieve one of the following criteria:

- Earn a minimum 60 credit hours at Kent State and earn a minimum 3.500 Kent State GPA; or
- Earn at least 30 but fewer than 60 credit hours at Kent State and earn a minimum 3.500 Kent State GPA and earn a minimum 3.500 transfer GPA

There are three levels of Latin honors at graduation with a bachelor's degree:

- *Cum laude* — Student has earned a Kent State GPA of 3.500 to 3.699.
- *Magna cum laude* — Student has earned a Kent State GPA of 3.700 to 3.899.
- *Summa cum laude* — Student has earned a Kent State GPA of 3.900 to 4.000.

The Kent State GPA for determining Latin honors is calculated from all grades earned in undergraduate courses at Kent State University, including original grades forgiven and/or recalculated under other policies. The transfer GPA is calculated from all grades earned in undergraduate transfer courses that were awarded college credit by Kent State and completed prior to the student's most recent admission to Kent State. The GPA for both is extended to three decimal places and not rounded up.

Because grades in courses taken in the student's final term are not official until after commencement, Latin honors candidates will be recognized at the commencement ceremony based on all their Kent State academic work completed prior to those courses. However, the final term grades will be used in determining honors posted to the transcript and the diploma. Honor citations are inscribed on diplomas as follows: cum laude, magna cum laude and summa cum laude.

Graduation with Distinction

Candidates for associate degrees who demonstrate high levels of scholarship throughout their coursework will graduate "with distinction." To graduate with this recognition, students must achieve the following criteria:

- Earn a minimum 30 credit hours at Kent State University, and
- Earn a minimum 3.500 Kent State University GPA

A Kent State GPA is calculated from all grades earned in undergraduate courses at Kent State University, including original grades forgiven and/or recalculated under other policies. The GPA used to determine the "with distinction" designation is extended to three decimal places and not rounded up.

Because grades in courses taken in the student's graduation term are not official until after commencement, distinction candidates will be recognized at the commencement ceremony based on all their Kent State academic work completed prior to those courses. However, the final term grades will be used in determining the "graduated with distinction" recognition posted to the transcript and the diploma.

Reason for Policy

Students who achieve high academic performance as evidenced in their grade point average receive recognition on their transcript and diploma and during the commencement ceremony.

Forms/Instructions

There are no forms associated with this policy.

Additional Resources

- Commencement - Ceremony Honors and Recognition
- Graduation, Honors, and Recognition
- Application for Graduation Deadlines
- Financial, Billing and Enrollment Center

Frequently Asked Questions

1. **Can any student earn Latin honor?**
   To qualify for Latin honors, students must (1) be awarded a bachelor's degree, (2) earn a minimum of 60 semester credit hours of Kent State courses and (3) meet the minimum criteria for one of the three honors level as listed in the policy. Students who are being awarded a bachelor's degree with fewer than 60 semester credit hours of Kent State courses still may qualify for Latin honors if they have a minimum 3.500 transfer GPA and meet the minimum criteria for one of the three honors level at listed in the policy.
2. **Will a student's transfer GPA (if one) always be calculated for eligibility for Latin honors?**
   No, the transfer GPA will factor into eligibility only for students being awarded a bachelor's degree with fewer than 60 credit hours of Kent State courses.
3. **How is a student's transfer GPA calculated for eligibility for Latin honors?**
   The transfer GPA is calculated from all grades for undergraduate transfer courses awarded college credit at Kent State and completed prior to the student's most recent admission to Kent State.

Additional FAQ: Graduation Honors

Definitions

Cum laude: A recognition with honor; from the Latin *cum* ("with") and *laude* (ablative of *lause*, "praise").

GPA (Grade Point Average): An indication of a student's academic achievement at Kent State University, determined by the number of credit hours attempted at Kent State University and the grades received. The Kent State GPA is calculated to three places past the decimal point and not rounded.

Magna cum laude: A recognition with great honor; from the Latin *cum* ("with"), *magna* (plural of *magnum*, "great") and *laude* (ablative of *lause*, "praise")

Summa cum laude: A recognition with the highest honor; from the Latin *summa* (feminine of *summus*, "highest," "greatest"), *cum* ("with") and *laude* (ablative of *lause*, "praise")

Related Information

- Grade Point Average (GPA)
- Grading Policies and Procedures
- Graduation

Revision History

Amended December 2019: Institutional Honors for bachelor's degree students is revised to allow eligibility for students who do not meet the requirement of 60 Kent State semester credit hours but have a minimum 3.500 transfer GPA at the point of admission to Kent State. Policy is renamed Latin honors. Graduation with Distinction for associate degree students is revised to decrease minimum Kent State credit hours for eligibility, from 32 to 30 semester credit hours.

Amended May 2016: Institutional Honors for bachelor's degree students is revised to increase minimum overall GPA criteria to earn cum laude (from 3.300 to 3.500), magna cum laude (from 3.600 to 3.700) and summa cum laude (from 3.800 to 3.900).

Amended August 2012: Institutional Honors for bachelor's degree students is revised to extend the GPA to three decimal points and not round up to determine honors. Graduation with Distinction for associate degree students is revised to extend the GPA to three decimal points and not round up to determine distinction.

Amended May 2008: Institutional Honors for bachelor's degree students is revised to round up the GPA to determine honors. Graduation with Distinction for associate degree students is revised to round up the GPA to determine distinction.

Amended May 1996: Graduation with Distinction for associate degree students is revised to remove inclusion of other institution grades, with the GPA calculated with only Kent State courses. Revised policy also establishes a requirement that students earn minimum 32 semester credit hours at Kent State for distinction eligibility.

Amended December 1995: Honors for bachelor's degree students is revised to increase the required Kent State credit hours for honors eligibility, from the minimum credit hours required for a bachelor's degree to 64 semester credit hours. Revised policy also removes inclusion of other institution grades, with the GPA calculated with only Kent State courses. Policy is renamed Institutional Honors.

Amended December 1995: Honors is revised to clarify that the GPA to determine honors is extended two decimal points and not rounded up.

Amended August 1976: Honors is revised to decrease the required Kent State credit hours for honors eligibility, from 96 quarter credit hours (64 semester credit hours) to the minimum credit hours required for a bachelor's degree (48 quarter or 32 semester credit hours). Graduation "With Distinction" is established for students earning an associate

degree with a minimum overall 3.5 GPA earned at Ken State and other institutions.

Amended March 1968: Honors for High Scholarship is revised to clarify that students must have minimum 96 quarter credit hours (64 semester credit hours) of Kent State coursework to be eligible. Policy is renamed Honors.

Amended June 1956: Honors for High Scholarship is revised to base honors eligibility on only students' overall GPA with stipulation that at least one half of the students' courses must be taken at Kent State.

Effective June 1937: Establishes a formal Honors for High Scholarship recognition, awarded by vote of university faculty for graduating students who earned a minimum overall GPA of 3.3 (cum laude), 3.6 (magna cum laude) and 3.8 (summa cum laude) at Kent State and other institutions.

Incomplete Mark Policy

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

The mark IN (Incomplete) may be given to students who—due to extenuating circumstances—are unable to complete the required work between the course withdrawal deadline and the end of classes. The timeline shall be adjusted appropriately for summer sessions and flexibly scheduled courses. The IN mark is not counted in grade point averages.

To be eligible to request an incomplete mark for a course that was not completed due to extenuating circumstances, undergraduate students must be earning a minimum D grade, and graduate students must be earning a minimum C grade, in the course at the time of the request. Appropriate documentation is required to support the extenuating circumstance.

The student or university-approved designee must request the IN mark from the instructor of the course, and it is the responsibility of the student to arrange to make up the incomplete work. After the instructor approves the request, the instructor must initiate the request by submitting an Incomplete Mark Contract workflow to the department chair/school director prior to the grading deadline. This electronic workflow includes justification for awarding the Incomplete, describes the work to be completed for the course and specifies the grade to be assigned if the work is not completed (default grade). The Incomplete Mark Contract is sent electronically to the student.

When the work is completed, an appropriate grade will be assigned—based on the instructor's evaluation of the work submitted—and a new grade point average computed.

If the student does not complete and receive a grade, or is not granted an extension, the student's IN mark for the course automatically will lapse to the default grade designated on the Incomplete Mark Contract:

1. at the end of one semester for undergraduate courses or
2. at the end of three consecutive terms for graduate courses.

If the student is granted an extension and does not complete and receive a grade by the deadline, the student's IN mark for the course automatically will lapse to the default grade designated on the Incomplete Mark Contract at the end of the term in which the extension deadline occurs.

Industry-Recognized Certifications, Examinations and Professional Training

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Kent State accepts many industry-recognized certifications, examinations and professional training as prior learning credit applicable toward degree programs upon programmatic approval. Kent State awards academic credit following recommendations from the American Council on Education (ACE) and the Ohio Department of Higher Education. Official documentation from the issuing company or professional organization must be submitted to Kent State before credit can be applied to a student's academic record.

Industry-recognized certifications, examinations and professional training that is not evaluated by ACE may be considered for academic credit. Students who wish to request credit for training not yet evaluated must complete the industry/training credit application, including submission of all documentation to determine whether academic credit is to be awarded. All credit for industry/professional training appears on the student transcript without a grade.

Students should contact the Credit Transfer Office for more information on the types of certifications, examinations and professional training accepted and the approval process. Official documentation from the issuing agency must be submitted to Kent State before the credit can be applied to a student's academic record.

International Baccalaureate (IB)

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Students who complete the International Baccalaureate (IB) Diploma Programme, a rigorous two-year course of pre-university studies in their high school, may be awarded credit toward a degree or certificate at Kent State. An official IB transcript must be submitted to Kent State before the credit can to be applied to a student's academic record. (A notation on a high school transcript will not be accepted.)

Kent State accepts scores of 5, 6 or 7 for higher-level (HL) and standard-level (SL) IB exams toward specific course equivalencies and general education requirements (e.g., Kent Core, diversity). Visit the Credit Transfer Office's IB website for more information on these scores and credits earned.

Language Requirement for Graduate Students

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

All students must demonstrate proficiency in both oral and written English, which is the language of graduate study at Kent State. Judgment of such competence rests with the appropriate major department. Deficiency in English is cause for dismissal from any graduate program.

There is no universal foreign language or research tool requirement. Individual departments or discipline areas may have specific requirements. Students should consult their individual departments. The appropriate languages are determined by the student's major department. Language requirements (if any) must be completed before doctoral students are admitted to candidacy. Special arrangements for examinations in other languages must be made by the student's major department in consultation with the chair of the Department of

Modern and Classical Language Studies. Where required, the language examination used to establish a student's language proficiency is determined by the student's department. The examination may be a departmentally designed and administered test. Dates for departmentally administered tests are set by the department.

GER 61901 and GER 61902 have been instituted to develop reading proficiency in German. Reading proficiency is demonstrated when the student completes both GER 61901 and GER 61902 with a minimum B grade. Credit hours earned in these courses are not applicable toward the completion of the hour requirement in a student's graduate program and do not count toward the minimum 8-credit-hour semester load required.

Leave of Absence for Graduate Students

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

A leave of absence is granted for degree-seeking graduate students in active status who must be away from their studies for one or more semesters for personal, family, financial or other compelling reasons. Prior to applying for a leave of absence, students should consider its potential implications for such matters as funding (including assistantships and veterans benefits), loan repayment, immigration status, health insurance, university housing and time-to-degree completion.

International students should contact the Office of Global Education before the initiation of a leave of absence and before returning to campus to ensure compliance with immigration regulations and visa restrictions.

To be eligible for a leave of absence, a student must be seeking a graduate degree, have completed at least one full term of enrollment prior to the date a leave is to begin, be in good academic standing and be making reasonable progress toward the degree. Leaves will not be granted to students who fit one of the following criteria:

- Completed less than one full term of enrollment
- Not in good academic standing
- Received an extension of the degree time limit

Leaves of absence are granted for a maximum of three consecutive terms (e.g., fall, spring, summer).[1] Students may request an extension for maximum one additional term. Although a leave may be taken for as many as 12 months, students are encouraged to return to graduate study as soon as is reasonably possible to minimize the impact of the leave on degree progress. The time taken on an approved leave of absence is not included in the time limitations for degree completion and advancement to candidacy, with the exception of the Doctor of Podiatric Medicine degree.

[1] Refer to the College of Podiatric Medicine section in the University Catalog for leave of absence time limits and procedures for requesting a leave of absence for the Doctor of Podiatric Medicine degree.

The Request for Leave of Absence form should be submitted prior to the start of the term for which the leave is requested, when the necessity for leave is foreseeable. If the need for a leave is not foreseeable, the request should be submitted as soon as possible, but no later than the last day of classes in the term during which the leave has been taken. A retroactive leave of absence will not be granted.

When a department/school grants a leave of absence, it implies the program will be willing to re-admit the student. A plan for re-admission, including any conditions that must be met, should be put in writing and clearly understood by all parties prior to the start of the leave.

Students who are registered for courses must drop or withdraw from all courses prior to taking leave. Course withdrawal does not negate a student's financial obligation, and students will be held responsible for all balances due to the university. Any applicable refunds will be processed per university policy 7-06 regarding student fee refunds, see the Policy Register. Students are advised to check with the Financial, Billing and Enrollment Center prior to taking an approved leave of absence in order to determine the status of their student accounts. Accounts that are overdue will be subject to regular procedures in accordance with university guidelines, notwithstanding any approved leave of absence.

Course withdrawal is not permitted after the tenth week of the fall and spring semesters (or the prorated deadline for flexibly scheduled sections and summer terms). Students applying for a leave of absence after the course withdrawal deadline should address grading and course completion issues with their individual instructors. To consider any variation from this rule for reasons of extenuating circumstances, the student must submit a Petition for Exception to Registration to the University Registrar.

Students on a leave of absence are not registered and, therefore, do not have the rights and privileges of registered students, including course pre-registration and access to the libraries, recreational center and health services. They cannot fulfill any official department or university requirements during the leave period, such as taking qualifying exams or submitting a dissertation/thesis. Students on an approved leave must complete the Application for Graduate Re-Enrollment form in order to register for classes and have the rights and privileges of registered students.

If a student does not return to the graduate program within the approved period for which the leave of absence was granted, he or she will be considered as having permanently withdrawn from the university. To be reconsidered for graduate study, students who have permanently withdrawn must formally apply to their program of interest, including the submission of an application, the non-refundable application fee and any necessary application materials.
University Catalog

Mathematics Placement

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

In addition to the remediation-free standards established by the Ohio Department of Education, Kent State's Department of Mathematical Sciences accepts the following for students in a program that does not require higher levels of mathematics (i.e., non-algebra track):

- Students with a 3.00 overall high school GPA or higher may take MATH 10040 or MATH 10050, regardless of their score on assessments mentioned in the standards listed above.
- Student with a 3.50 overall high school GPA or higher may take MATH 10041 or MATH 10051 regardless of their score on assessments mentioned in the standards listed above.

All undergraduate degree programs require the successful completion of the Kent Core Mathematics and Critical Reasoning requirement. Some programs may require specific mathematics course(s). Placement into mathematics courses is determined by a student's score on the ALEKS

placement assessment and/or the ACT or SAT score or scores on the other listed assessments. Not all students need to take the ALEKS mathematics placement assessment, and students should check their "My Lists" checklist in FlashLine for that determination. However, all students scoring below 22 on ACT mathematics or below 530 on SAT mathematics or below the threshold in the other listed assessments need to take the ALEKS placement assessment.

Students may improve their initial placement score by working in an individualized learning module on ALEKS, then retaking the ALEKS mathematics placement assessment. They have free access to their learning modules and reassessment for one year from their initial assessment. Students who score 80 percent mastery in the learning modules have an excellent chance of improving their placement through a proctored reassessment.

Students deemed remediation-free in mathematics , as described in the table above, or with an overall 3.5 high school GPA or higher, may register for one of the following courses, as required by their major:

- Algebra Track: MATH 10675, MATH 10771, MATH 10772
- Non-Algebra Track: MATH 10041, MATH 10051, MATH 11008

Remediation-free students who want to register for a course other than the ones listed above may take the ALEKS mathematics placement assessment.

Students who are not deemed remediation-free in mathematics, as described in the table above, must take the ALEKS mathematics placement assessment to determine the course they should take as required by their major.

Additional information regarding placement after taking the ALEKS assessment may be found on the Department of Mathematical Sciences website.

Midterm Evaluation

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY
Effective Date: Fall 2024
Last Reviewed: Spring 2015
Last Revised: Fall 2016
Next Review: Fall 2028

Policy Statement

A midterm evaluation grade is submitted between the fourth and seventh week for all students in lower-division undergraduate courses (levels 00000, 10000, 20000). Midterm evaluation grades are not given for summer or flexible-scheduled courses due to the short duration of these offerings. Midterm results are available to academic advisors and college/school/campus deans for the purpose of intervening when achievement is considered unsatisfactory according to program or university requirements. Students will be able to view their midterm evaluation grades in FlashLine for the fall or spring semester in progress. Midterm evaluation grades are not included as part of the students' academic transcript, nor are they included in a student's grade point average (GPA).

Reason For Policy

Research has shown that early and frequent assessments are important to student success because they can help students not only have a sense of how they are doing in their courses, but also help to improve their final grade. Midterm evaluations are a snapshot of how a student is performing in the course and allows time to seek help and make adjustments. While midterm grades are encouraged for all undergraduate students, lower-level classes are targeted due to the high concentration of new students who may be experiencing college courses for the first time. There are additional opportunities for students to see their progress in a course either by viewing the course grades in Canvas or talking with the faculty member teaching the course.

Procedures

Students can log into their FlashLine account to view their midterm grades. Faculty can submit midterm grades as early as the fourth week and through the seventh week.

Forms/Instructions

There are no forms associated with this policy.

Additional Resources

- Academic Advising (Schedule an Appointment)
- Academic Success Center (tutoring, coaching, resources)
- Calendars and Deadlines
- Financial, Billing and Enrollment Center
- Viewing grades in FlashLine

Frequently Asked Questions

1. **What do midterm grades mean?**
   Midterm grades are an early signal from your instructor about how you are doing in the course at the time the grade is submitted. Because courses can vary in the rhythm of assignments and how those assignments are weighted, your midterm grades will likely mean different things for each of your courses. While a midterm grade is not part of your permanent Kent State record, you should use your midterm grades as important and helpful feedback.
2. **Where can I see my midterm grades?**
   You will need to log in to FlashLine to view your midterm grades. In Flash, under Student Resources, select Grades and Transcripts, then click on View Midterm Grades.
3. **When can I view my midterm grades?**
   Faculty can submit the grades any time between the fourth and seventh week of the semester. You can see them in FlashLine as soon as they are submitted. Check back often as additional grades may appear. All grades must be in by the end of the seventh week.

Additional FAQ: Midterm Evaluation

Definitions

Academic Advising: Advising helps students clarify their career goals, reach their maximum educational potential and achieve academic success. Academic advisors address student needs related to learning, personal development and career aspirations; recognize and respond to diverse individual needs and differences among students; and help students plan and implement academic programs of study in a manner that will ensure timely progress toward graduation.

Canvas: Cloud-based learning management system (LMS) that allows instructors to manage their courses, including posting materials, assignments, quizzes and grades. Through Canvas, students can submit

assignments, participate in discussions, view course materials and their grades.

FlashLine: Web-based portal (entryway) for Kent State students, faculty, staff and alumni.

GPA (Grade Point Average). A number that is determined by the number of credit hours attempted at Kent State University and the grades received. The GPA is calculated to three places past the decimal point and not rounded.

Lower Division Courses: (10000, 20000): Courses that are for freshmen, sophomores and others with little or no background in the discipline. Generally, these courses provide the understanding, foundation and preparation for more advanced study (although a pathway for more advanced study is not always required, and they may be ends in themselves).

Transcript: An accurate and complete record of a student's academic coursework attempted at an institution, presented in either electronic format or paper format.

Related Information

- Course Numbering System
- Developmental Coursework
- Grade Point Average (GPA)
- Grading Policies and Procedures

Revision History

Amended August 2024: Policy is revised to include more explanation to help students understand the meaning and purpose of midterm evaluation. Faculty may now submit mid-term evaluations for upper-division courses if they choose.

Amended August 2016: Policy is revised to extend the midterm evaluation to students in all lower-division (00000-20000) courses. In addition, window for submitting evaluations starts earlier, between the fourth and seventh week.

Effective September 1979: Mention of a midterm evaluation is first listed in the Undergraduate Catalog. All freshmen who have completed less than 32 credit hours receive a mid-term evaluation in the seventh week.

Military Training

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Kent State University awards academic credit for military coursework according to recommendations listed on the Joint Services Transcript (JST). All eligible credits must be recognized by the American Council on Education (ACE). Kent State awards Military Transfer Assurance Guide (MTAG) coursework for articulated credit as established by the Ohio Department of Higher Education. Service members can visit Kent State's Credit Transfer Office website for information regarding requesting and submitting military transcripts.

Service Examinations: Credit is awarded for some experiences in basic training that are equivalent to specific beginning Physical Activity, Wellness and Sport (PWS) courses at Kent State University. Credit is awarded on the basis of recommendations from the School of Teaching, Learning and Curriculum Studies in the College of Education, Health and Human Services.

In order for credit to be granted in any of the above areas, a transcript or certificate of completion or a veterans DD 214 form is required. In addition, Kent State reserves the right to set the percentile score that is necessary for satisfactory performance in a course and for the granting of credit. Credit will not be given for duplicate work taken through any of these agencies.

Military Transfer Credit Appeals Process

Students must submit, in writing, a letter of appeal regarding their military transfer credit to the Credit Transfer Office c/o Kent State University. Upon recommendation by the Transfer Review Committee, students will be notified of the outcome, in writing. Information regarding the standards for satisfactory performance or to submit an appeal may be found on the Credit Transfer Office website.

Minors

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

An academic minor is a curriculum component, smaller than the major, which enables a student to make an inquiry into a discipline or field of study or to investigate a particular theme. The purpose of a minor is to provide formalized guidance to students in selecting courses in a field or content area that is outside the major and to provide formal recognition of that work on the transcript. The courses in the minor may be centered in a specific department or be drawn from several departments, as in the case of an interdisciplinary topical or thematic focus.

Students may not pursue a minor and a major in the same discipline. A minimum of 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.

Undergraduate Minors

An undergraduate minor is minimum 12 credit hours and normally contains between 18 and 25 credit hours, with a minimum of 6 of those hours being upper-division credit and a minimum 50 percent of the total hours in residence.

Students must formally declare a minor, similar to the process by which they declare the major. Students in a bachelor's or an applied associate degree (e.g., A.A.B., A.A.S.) or the Associate of Technical Study (A.T.S.), of which there is a major, may declare a minor. Students in a generalist associate degree (e.g., A.A., A.S., A.T.S.–Individualized Program) may not declare a minor.

Graduate Minors

A graduate minor is minimum 9 credit hours, with a minimum 50 percent of the total credit hours taken at Kent State.

Students must be admitted to a master's, post-master's or doctoral degree to declare a graduate minor. Students formally declare a minor through the change of program application, which must be approved by the college administrating the students' major and the college administrating the chosen minor.

Ohio Articulation and Transfer Policy

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Effective Date: Fall 2025
Last Reviewed: Spring 2025
Last Revised: Fall 2021
Next Review: Fall 2035

Policy Statement

Institutional Transfer

The Ohio Department of Higher Education in 1990, following a directive of the 118th Ohio General Assembly, developed the Ohio Articulation and Transfer Policy to facilitate students' ability to transfer credits from one Ohio public college or university to another in order to avoid duplication of course requirements. A subsequent policy review and recommendations produced by the Articulation and Transfer Advisory Council in 2004, together with mandates from the 125th Ohio General Assembly in the form of Amended Substitute House Bill 95, have prompted improvements of the original policy. Additional legislation from the 125th Ohio General Assembly also initiated the development of a statewide system for articulation agreements among state institutions of higher education for transfer students pursuing teacher education programs.

Action by the 126th Ohio General Assembly led to the establishment of criteria, policies, and procedures for the transfer of technical courses completed through a career-technical education institution; and standards for the awarding of college credit based on Advanced Placement (AP) test scores.

Legislation from the 130th Ohio General Assembly required public institutions of higher education to: use baseline standards and procedures in the granting of college credit for military training, experience, and coursework; establish an appeals process for resolving disputes over the awarding of credit for military experience; provide specific assistance and support to veterans and service members; adopt a common definition of a service member and veteran; and establish a credit articulation system in which adult graduates of public career-technical institutions who complete a 900 clock-hour program of study and obtain an industry-recognized credential approved by the chancellor shall receive 30 college technical credit hours toward a technical degree upon enrollment.

While all public colleges and universities are required to follow the Ohio Articulation and Transfer Policy, independent colleges and universities in Ohio may or may not participate in the Transfer Policy. Therefore, students interested in transferring to independent institutions are encouraged to check with the college or university of their choice regarding transfer agreements. In support of improved articulation and transfer processes, the Ohio Department of Higher Education has established an articulation and transfer clearinghouse to receive, annotate, and convey transcripts among public colleges and universities. This system is designed to provide standardized information and help colleges and universities reduce undesirable variability in the transfer credit evaluation process.

Acceptance of Transfer and Articulated Credit

To recognize courses appropriately and provide equity in the treatment of incoming transfer students and students native to the receiving institution, transfer credit will be accepted for all successfully completed college-level courses completed in or after fall 2005 from Ohio public institutions of higher education. Students who successfully completed Associate of Arts (A.A.) or Associate of Science (A.S.) degrees prior to fall 2005 with a 2.0 or better overall grade-point average would also receive credit for all college-level courses they have passed. While this reflects the baseline policy requirement, individual institutions may set equitable institutional policies that are more accepting.

Pass/Fail courses, credit-by-examination credits, experiential learning courses and other non-traditional credit courses that meet these conditions will also be accepted and posted to the student record.

Application of Transfer and Articulated Credit

Application of credit is the decision process performed by the receiving institution to determine how the credits it has accepted and recorded on the student's official academic transcript will or will not apply toward program and degree requirements. While the receiving institution makes this decision, it will do so within the parameters of this Policy.

The following guidelines and requirements shall govern the application of transfer and articulated credit:

Ohio Transfer 36

The Ohio Transfer 36 (previously called the Ohio Transfer Module or OTM) is a subset or the entire set of a public higher education institution's general education curriculum in Associate of Arts (A.A.), Associate of Science (A.S.) and bachelor's degree programs. Students in applied associate degree programs may complete some individual Ohio Transfer 36 courses within their degree program or continue beyond the degree program to complete the entire Ohio Transfer 36. The Ohio Transfer 36 contains 36-40 semester or 54-60 quarter hours of course credit in English composition (minimum of 3 semester or 5 quarter hours); mathematics, statistics and logic (minimum of 3 semester or 3 quarter hours); arts and humanities (minimum of 6 semester or 9 quarter hours); social and behavioral sciences (minimum of 6 semester or 9 quarter hours); and natural sciences (minimum of 6 semester or 9 quarter hours). Oral communication and interdisciplinary areas may be included as additional options. Additional elective hours from among these areas make up the total hours for a completed Ohio Transfer 36. Courses for the Ohio Transfer 36 should be 100- and 200-level general education courses commonly completed in the first two years of a student's course of study. Each public university and technical and community college is required to establish and maintain an approved Ohio Transfer 36.

Ohio Transfer 36 course(s) or the full 36 completed at one college or university will automatically meet the requirements of individual Ohio Transfer 36 course(s) or the full Ohio Transfer 36 at another college or university once the student is admitted. Students may be required, however, to meet additional general education requirements at the institution to which they transfer. For example, a student who completes the Ohio Transfer 36 at Institution S (sending institution) and then transfers to Institution R (receiving institution) is said to have completed the Ohio Transfer 36 portion of Institution R's general education program. Institution R, however, may have general education courses that go beyond its Ohio Transfer 36. State policy initially required that all courses in the Ohio Transfer 36 be completed to receive its benefit in transfer. However, subsequent policy revisions have extended this benefit to the completion of individual Ohio Transfer 36 courses on a course-by-course basis.

Transfer Assurance Guide (TAG)

The Transfer Assurance Guide (TAG) comprise Ohio Transfer 36 courses and additional courses required for an academic major called TAG courses. A TAG is an advising tool to assist Ohio university and community and technical college students in planning for specific majors and making course selections that will ensure comparable, compatible, and equivalent learning experiences across Ohio's public higher education system. A number of area-specific TAG pathways in meta-majors including the arts, humanities, business, communication, education, health, mathematics, sciences, engineering, engineering

technologies, social sciences and foreign languages have been developed by faculty teams.

TAGs empower students to make informed course selection decisions and plans for their future transfer. Advisors at the institution to which a student wishes to transfer should also be consulted during the transfer process. Students may elect to complete the full TAG or any subset of courses from the TAG. Because of specific major requirements, early identification of a student's intended major is encouraged.

Career-Technical Assurance Guide (CTAG)

Collaboration among the Ohio Department of Higher Education, the Ohio Department of Education and other key stakeholders led to the development of policies and procedures to create statewide career-technical discipline specific articulation agreements and further ensure that students completing coursework at an adult or secondary career-technical institution can articulate and transfer agreed-upon technical courses/programs to any Ohio public institution of higher education and among Ohio public institutions of higher education "without unnecessary duplication or institutional barriers."

Career-Technical Assurance Guides (CTAG) are statewide articulation agreements that guarantee the recognition of learning which occurs at public adult and secondary career-technical institutions and have the opportunity for the award of college credit toward technical courses/programs at any public higher education institution. CTAG serve as advising tools, identifying the statewide content guarantee and describing other conditions or obligations (e.g., program accreditation or industry credential) associated with the guarantee.

Military Transfer Assurance Guide (MTAG)

In response to the legislative requirement (Ohio Revised Code 3333.164) to create a military articulation and transfer assurance guide for college-level learning that took place through military training, experience, and coursework, college credit will be granted to students with military training, experience, and/or coursework that is recognized by the American Council on Education (ACE) or a regionally accredited military institution, such as Community College of the Air Force

In order to streamline the awarding, transferability and applicability of college credit, service members and veterans are guaranteed to earn certain types of credit(s) or course(s) as specified in the Military Transfer Assurance Guides (MTAG), which are based on the endorsed baseline standards and procedures by the chancellor. Equivalent course(s), credits for courses or block of credit is to be awarded and applied towards general education and/or major course requirements at the receiving institution in accordance with the MTAG guarantee. There is some training, experience, and coursework that the receiving institution may be able to award college credit only toward general or free electives.

In addition, public institutions of higher education shall ensure that appropriate equivalent credit is awarded for military training, experience, and coursework that meet the baseline standards and procedures according to the Ohio Revised Code 3333.164. This requirement goes beyond credit/course awarded based on the MTAG alignment process.

Apprenticeship Pathway Programs

The apprenticeship pathways initiative advocates for individuals completing apprenticeships by incorporating their learning into academic credit, thereby saving them time and money and encouraging them to advance their academic credentials to contribute to a strong, educated workforce.

Ohio apprenticeship programs partner with public two-year institutions to provide technology-specific statewide articulation agreements that recognize non-traditional prior learning. College credit is awarded toward a technical associate degree. Each agreement simplifies student advising by outlining how apprenticeship training in a certain pathway applies to an applied associate degree and lists remaining courses required to complete the degree. The application of the credit toward a technical associate degree in these agreements is guaranteed at the participating receiving institutions.

Advanced Placement (AP) Exams

The State of Ohio, working with public institutions of higher education, has initiated policies to facilitate the ease of transition from high school to college, as well as between and among Ohio's public colleges and universities.

Beginning in the fall semester 2009:

1. Students obtaining an Advanced Placement (AP) exam score of 3 or above will be awarded the aligned course(s) and credits for the AP exam area(s) successfully completed.
2. General education courses and credits received will be applied towards graduation and will satisfy a general education requirement if the course(s) to which the AP area is equivalent fulfill(s) a requirement.
3. If an equivalent course is not available for the AP exam area completed, elective or area credit will be awarded in the appropriate academic discipline and will be applied towards graduation where such elective credit options exist within the academic major.
4. Additional courses or credits may be available when a score of 4 or 5 is obtained. Award of credit for higher score values varies depending on the institution and academic discipline.

In academic disciplines containing highly dependent sequences (Sciences, Technology, Engineering and Mathematics – STEM) students are strongly advised to confer with the college/university advising staff to ensure they have the appropriate foundation to be successful in advanced coursework within the sequence.

College-Level Examination Program (CLEP)

The State of Ohio, working with public institutions of higher education and statewide faculty panels, has developed policies to recognize students' prior learning and to facilitate the articulation and guaranteed transfer of such learning between Ohio's public colleges and universities.

College credit is guaranteed for students who achieve an established College-Level Examination Program (CLEP) test score for exams that have been endorsed statewide as college level. Statewide faculty panels aligned CLEP exams to equivalent Ohio Transfer 36 and Transfer Assurance Guide (TAG) courses, as appropriate. If an equivalent course is not available for the CLEP exam area, by default, endorsed elective or area credit will still be awarded and applied towards graduation.

Specific endorsed alignments and scores for individual CLEP exams that are outlined in the College-Level Examination Program (CLEP) Endorsed Alignment Policies document are available on the Ohio Department of Higher Education website.

Associate of Technical Studies Pathway

The Associate of Technical Studies Pathway (previously called the One-Year Option) builds upon Ohio's articulation and transfer system to help more adults accelerate their preparation for work by earning a technical

associate degree. Consistent with the philosophy of the Career-Technical Assurance Guides (CTAG), the Ohio Technical Centers (OTC) Degree Pathway guarantees that college credit will be awarded for college-level learning that occurs through approved Ohio Technical Centers.

Adults who complete a career-technical education program of study consisting of a minimum of 900 clock-hours and achieve an industry-recognized credential approved by the chancellor shall receive 30 semester credit hours of technical course credit toward a standardized Associate of Technical Study (A.T.S.) degree upon matriculation at a public institution of higher education that confers such a degree. The 30 semester credit hours will be awarded as a block of credit rather than credit for specific courses. Proportional credit is to be awarded toward the A.T.S. degree for adults who complete a program of study between 600 and 899 clock hours and achieved an industry-recognized credential approved by the chancellor.

The credit earned through the Associate of Technical Studies Pathway will be applied to Kent State's A.T.S.degree, Individualized Program.

Conditions for Transfer Admission

1. Graduates who are considered transfer students under the Integrated Postsecondary Education Data System (IPEDS) definition with associate degrees from Ohio's public institutions of higher education and a completed, approved Ohio Transfer 36 shall be admitted to a public institution of higher education in Ohio, provided their cumulative grade-point average is at least 2.0 for all previous college-level courses and and other institutional admission criteria, such as space availability, adherence to deadlines, payment of fees and grade-point average that are fairly and equally applied to all undergraduate students, have also been satisfied. Further, these students shall have admission priority over graduates with an out-of-state associate degree and other transfer students with transferable and/or articulated college credit.
2. Associate degree holders who are considered transfer students under the IPEDS definition and have not completed the Ohio Transfer 36 from an Ohio public institution of higher education will be eligible for preferential consideration for admission as transfer students as long as the institution's admission criteria, such as the minimum academic standards, space availability, adherence to deadlines and payment of fees, are fairly and equally applied to all undergraduate students.
3. In order to encourage completion of the bachelor's degree, students who are not enrolled in or who have not earned an degree but have earned 60 semester/90 quarter hours or more of credit toward a bachelor's degree with a cumulative grade-point average of at least a 2.0 for all previous college-level courses will be eligible for preferential consideration for admission as transfer students as long as the institution's admission criteria, such as the minimum academic standards, space availability, adherence to deadlines and payment of fees, are fairly and equally applied to all undergraduate students.
4. Students who have not earned an associate degree or who have not earned 60 semester credit hours (90 quarter credit hours) with a minimum 2.000 GPA for all previous college-level courses will be eligible for admission as transfer students on a competitive basis.
5. Incoming transfer students admitted to a college or university shall compete for admission to selective programs, majors, and units on an equal basis with students native to the receiving institution.

The admission of transfer students by an institution, however, does not guarantee admission to any majors, minors or fields of concentration at the institution. Some programs have additional academic and non-academic requirements beyond those for general admission to the institution (e.g., background check, a grade-point average higher than a 2.0 or a grade-point average higher than the average required for admission to the institution). Once admitted, transfer students shall be subject to the same regulations governing applicability of catalog requirements as native students. Furthermore, transfer students shall be accorded the same class standing and other privileges as native students on the basis of the number of credits earned. All residency requirements must be completed at the receiving institution.

Responsibilities of Students

To maximize transfer credit application, prospective transfer students must take responsibility for planning their course of study to meet both the academic and non-academic requirements of the institution to which they desire to articulate or transfer credit as early as possible.

The student is responsible for the following:

- Identify early in their collegiate studies an institution and major to which they desire to transfer.
- Investigate and use the information, advising and other available resources to develop a plan their course of study.
- Actively seek program, degree and transfer information.
- Meet with an advisor from both the current and receiving institutions to assist them in preparing a course of study that meets the academic requirements for the program/degree to which they plan to transfer.
- Use the various electronic course/program transfer and applicability database systems, including Ohio Transfer to Degree Guarantee web resources.
- Select courses/programs at their current institution that satisfy requirements at the receiving institution to maximize the application of transfer credit.
- Determine if there are foreign language requirements or any special course requirements that can be met during the freshman or sophomore year.

This will enable students to plan and pursue a course of study that will better articulate with the receiving institution's major.

Appeals Process

Following the evaluation of a student transcript from another institution, the receiving college institution will provide the student with a Statement of Transfer and Articulated Credit Applicability (Degree Audit Report). Students disagreeing with the application of transfer and/or articulated credit by the receiving institution must file their appeal in writing within 90 days of receipt of the Statement of Transfer and Articulated Credit Applicability. The institution shall respond to the appeal within 30 days of the receipt of the appeal at each appeal level.

Student Complaints Following Transfer Appeals at the Receiving Institution

After a student exhausts the appeals process at the receiving institution and chooses to pursue further action, the Ohio Department of Higher Education (ODHE) responds to formal written complaints related to Ohio Articulation and Transfer Policy against public, independent non-profit and proprietary institutions of higher education in Ohio. While the ODHE has limited authority over colleges and universities and cannot offer legal advice or initiate civil court cases, staff will review written

complaints submitted through its established process and work with student complainants and institutions.

Reason for Policy

This policy ensures that students transferring between Ohio public institutions of higher education receive equitable treatment and appropriate credit for previously completed coursework. The policy supports student mobility, reduces duplication of coursework and promotes timely degree completion through a standardized, statewide transfer and articulation system, in compliance with directives from the Ohio General Assembly and the Ohio Department of Higher Education.

Procedures

There are no procedures for this policy.

Forms/Instructions

There are no forms/instructions for this policy.

Additional Resources

- Credit Transfer
- Financial, Billing and Enrollment Center

Frequently Asked Questions

There are no FAQ for this policy.

Definitions

There are no definitions for this policy.

Related Information

- Alternate Credit Programs Policy
- Kent Core (General Education Requirement)

Revision History

Amended August 2025: Revised policy updates the name of the Associate of Technical Studies Pathway, previously the One-Year Option.

Amended August 2021: Revised policy updates the name of the Ohio Transfer 36 (OT36), previously the Ohio Transfer Module (OTM).

Orientation for Graduate Students

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

All new teaching assistants are required to attend and participate in the university's Graduate Student Orientation program prior to the beginning of the semester. The program is also open to all new graduate students and current graduate students with new teaching responsibilities. Departments may also require attendance at departmental orientation meetings.

Qualifying Examination for Master's Degree

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

In some departments, graduate students are required to take a qualifying examination. Each student should inquire of the major department whether such an examination is required and when it should be taken. The student is responsible for making the arrangements for taking the examination. Students working for a degree requiring a thesis may have their thesis topic approved as soon as they pass the qualifying examination.

Registration

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Only students who have been formally admitted to Kent State University may register for coursework and pay the appropriate fees. An official registration is a record of a student's schedule of classes maintained online in the university's student information system, Banner. Students who are not officially registered for a course by published university deadlines should not attend classes and will not receive credit or a grade for the course. Students are responsible for their schedules and have the ultimate responsibility to confirm the accuracy frequently during the semester before posted deadline dates. Allowing a member of the university staff to make schedule changes does not relieve the student of his or her responsibilities.

Students register for courses online through FlashLine. Students must clear any registration holds before adjusting their class schedule. Refer to the Financial, Billing and Enrollment Center website for registration information, instructions, dates, deadlines and procedures. New freshmen and new transfer students register through the various campus advising and registration orientation programs.

All changes to a student's course schedule must be completed by published university deadlines. Students can find registration deadlines on their course schedule and in the Schedule of Classes in FlashLine.

Kent State University reserves the right to change the time of a course if it is deemed necessary, and it reserves the right to drop any course from the Schedule of Classes if there is insufficient student demand or if resources are unavailable to offer the course.

Late Registration Fee

Students who are not officially enrolled for any coursework (i.e., neither registered nor paid fees) as of the end (11:59 p.m.) of the seventh calendar day for the fall or spring semester will have a non-refundable late registration fee assessed for any initial registration processed. A non-payment fee will be assessed for registrations not paid by the end (11:59 p.m.) of the 14th calendar day of the semester. Visit Tuition and Fees website for information on students' fees.

Add, Drop and Other Schedule Adjustments

Schedule adjustments are changes to a class schedule for students who have already enrolled in at least one course (1 credit hour or more) for that semester. During registration, students may make adjustments or requests in FlashLine by the following deadlines:

- Deadline is the end (11:59 p.m.) of the seventh calendar day of the fall or spring semester (prorated deadline for summer or flexibly scheduled courses):
  - Adding a course or changing the section of a course[1]
- Deadline is the end (11:59 p.m.) of the 14th calendar day of the fall or spring semester (prorated deadline for summer or flexibly scheduled courses):
  - Adding a course or changing the section of a course with instructor approval[1]
  - Dropping a course/section
  - Changing credit hours for a variable-credit-hour course

- Changing from graded to pass/fail or audit status
- Changing from pass/fail or audit to graded status

Students must submit the Registration Exception Form when requesting schedule adjustments after the university deadlines listed above. There are no processing fees for schedule adjustments, but tuition and fees assessment may be affected.

[1] The ability to add a course (or change the section of a course) after the semester begins will depend on available seats in the course section and the student satisfying course prerequisites and other registration requirements.

Registration Cancellation

To receive a full refund of tuition, students who register and decide not to attend the university must cancel their registration as early as possible, and no later than the end (11:59 p.m.) of the seventh calendar day of the fall and spring semester (prorated deadline for summer or flexibly scheduled courses). This may be accomplished by the student dropping all courses in FlashLine during registration periods.

Any paid registration not canceled by the end (11:59 p.m.) of the seventh calendar day of the fall and spring semester (prorated deadline for summer or flexibly scheduled courses) will be subject to the refund policy published on the Financial, Billing and Enrollment Center website.

Any applicable refund is determined by the date the transaction is processed in the student information system.

Registration Limits

Undergraduate students are able to register each fall and spring for a maximum of 18 credit hours.

Graduate students are able to register each fall and spring for a maximum of 16 credit hours, with the exception of students in the Doctor of Podiatric Medicine degree who may be required to be registered for more.

For the summer term, undergraduate and graduate students have the following registration limits:

- Maximum 6 credit hours in a single five-week summer session
- Maximum 10 credit hours in an eight-week summer session
- Maximum 10 credit hours in overlapping summer sessions
- Maximum 12 credit hours for all summer sessions combined, including summer intersession

Course Withdrawal

Course withdrawal indicates that a student intends to stop attending any or all classes for the current term. Course withdrawal is permitted through the end (11:59 p.m.) of the 70th calendar day the fall or spring semester (prorated deadline for summer or flexibly scheduled courses). The spring semester course withdrawal deadline may be adjusted for spring break. After that time, students are considered to be committed to all remaining courses and must complete them.

Students will use FlashLine to withdraw from one or more courses by the deadline. If students are unable to complete the term because of extreme circumstances that first occur after the deadline, they should consult their college or campus dean's office. Any course withdrawal(s) processed on or after the 15th calendar day of the fall or spring semester (or prorated deadline for summer or flexibly scheduled courses) will appear on the students' academic record with the Withdrawal (W) administrative mark. For more information on the W mark, refer to Grading Policies and Procedures in the University Catalog. Any applicable tuition credit is determined by the date the transaction is processed on FlashLine (see university policy regarding tuition credit).

International students on J1 and F1 visas are required to contact the Office of Global Education if a course withdrawal causes them to be less than full time.

Graduate students who withdraw from all courses with an intention to return at a later date may be eligible for a leave of absence (refer to Leave of Absence for Graduate Students policy in the University Catalog).

Students in the College of Podiatric Medicine who fail to complete registration requirements by the deadline will not be enrolled in classes for the following academic year and may be withdrawn from the college. These students may also be subject to a professionalism deficiency evaluation. Podiatric Medicine Students who request withdrawal after seven weeks of course instruction will receive on their academic record the administrative mark WP or WF if passing or failing, respectively, for each withdrawn course. Refer to the college policies in the College of Podiatric Medicine section of the University Catalog for more information on the procedures for withdrawal.

Course withdrawal does not negate a student's financial obligation, and students will be held responsible for all balances due to the university.

Course Overload

Undergraduate Students

Eligible undergraduate students wanting to register for more than the maximum listed under registration limits may do so through an automated overload process.

Criteria for Eligibility

- Students who have a minimum 12 Kent State earned credit hours and the following GPA are eligible for an automatic overload:

GPA	Overload Credits
2.500-2.749	students may register for 19 credit hours in fall and spring
2.750-2.999	students may register for 19-20 credit hours in fall and spring
3.000-4.000	students may register for 19-21 credit hours in fall and spring

- First-semester transfer students and freshmen without a Kent State GPA are excluded from qualifying for an automatic overload. They must seek approval from their advising office.
- Students not meeting the above criteria or requesting more than 21 credit hours in the fall or spring semester (more than 12 credit hours in all summer terms) will be blocked from registering for an overload unless approval is granted from their advising office.
- Students on academic probation may not register for more than 15 credit hours and may receive a prescription from the dean of their college or campus that they further reduce the credit hours carried until removed from probation.

Exceptions to this rule must be approved by the appropriate college dean.

Graduate Students

Graduate students wanting to register for more than the maximum listed under registration limits should request permission from their advisor, who will consider such factors as academic standing, progress to degree and the rigor of their proposed course schedule in deciding whether to approve the overload. Graduate students with an approved overload will have their course limit adjusted to register for the approved overload class(es).

Enrollment Definitions

For financial aid eligibility and enrollment certification for loan deferments, insurance coverage and other purposes, the enrollment status of students is defined as the following:

Undergraduate Students

Enrollment Type	Credit Hours
Full-time	12+
Three-quarter-time	9-11
Half-time	6-8
Less-than-half-time	1-5

Graduate Students

Enrollment Type	Credit Hours
Full-time	8+
Three-quarter-time	6-7
Half-time	4-5
Less-than-half-time	1-3

For summer, the statues listed above may be fulfilled by enrollment in one or more sessions within the summer semester, including summer intersession. Courses receiving an AU, NF or SF mark are not counted in enrollment credit hours. This definition differs from the one used for assessing tuition and fees (for more information, see Office of the Bursar website).

Remote Participation in a Thesis or Dissertation Defense

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY
Effective Date: August 2020
Last Reviewed: March 2020
Last Revised: May 2020
Next Reviewed: September 2025

Policy Statement

Under normal circumstances, all members of a dissertation committee must be physically present in the examination room during the entire dissertation defense and during the committee's private deliberations following the examination. In most cases, the chair of the dissertation committee and the graduate faculty representative are expected to be physically present in the examination room.

Students enrolled in a fully online degree program are not required to be physically present for their dissertation defense.

For on-ground and hybrid (online/on-ground) degree programs, remote participation by web conferencing is permitted only if the student and/or committee member has obtained permission in advance from the chair of the thesis/dissertation committee in consultation with committee members. They must provide a compelling reason and/or explanation as to why they cannot be physically present.

With any dissertation defense that is approved to be conducted with remote participation, the following rules must be enforced:

- The web-conferencing software to be used allows all participants to see and hear each other during the defense.
- The defense remains open and available to the university community.
- The program pays for any costs associated with the remote participation.
- The chair of the dissertation committee is responsible for ensuring that all requirements for remote participation are met, that the remote participation was uninterrupted and, if interrupted, that the defense was paused until all remote participations were fully restored.
- Participation by telephone only is not permitted under any circumstances.

Reason for Policy

To establish consistent practices when a student and/or a committee member are not able to be physically present for the student's defense of a thesis or dissertation.

Procedures

There are no procedures associated with this policy.

Forms/Instructions

There are no forms associated with this policy.

Additional Resources

- IT Support - Get Help
- Financial, Billing and Enrollment Center

Frequently Asked Questions

There is no FAQ associated with this policy.

Definitions

Defense: refers to students presenting, explaining and defending their ideas submitted in their thesis or dissertation. The defense is designed so that faculty members can ask questions to ensure that students understand their chosen field and focus area.

Dissertation: a highly individualized investigative study that results in the development and writing of a scholarly, comprehensive paper and fulfills the culminating requirement for a Ph.D. degree. The dissertation must demonstrate that the student has acquired the ability to conduct research in a discriminating and original manner. The dissertation should make a significant enough contribution to the field in which it is written that at least one scholarly article suitable for publication in a professional journal may be derived from it or that the findings of the dissertation would be otherwise publishable.

Thesis: a highly individualized investigative study that results in the development and writing of a scholarly, comprehensive paper and fulfills the culminating requirement for a master's degree. The thesis topic is formulated by the student in consultation with the advisor and should be one that will further the student's educational development by developing

research or other skills that will help the student keep abreast of the field and enable the student to pursue independent work.

Web-conferencing software: allows participants to conduct or attend meetings via the internet. The software allows participants in different locations to connect to each other for voice and video chat, instant messaging and file and screen sharing. Examples of software include Skype, Zoom, Webex Meetings, GoToMeeting and Blackboard Collaborate.

Related Information

- Candidacy for Doctoral Degree
- Dissertation for Doctoral Degree
- Eligibility for a Doctoral Degree
- Guidelines for Submission of Electronic Theses and Dissertations
- Qualifying Examination for Master's Degree
- Thesis for Master's Degree

Revision History

Effective August 2020: Establishes a formal policy for graduate students to defend their thesis or dissertation through remote participation.

Residence Requirement

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Effective Date: Fall 2025
Last Reviewed: Spring 2025
Last Revised: Fall 2010
Next Review: Fall 2031

Policy Statement

Residence is defined as academic credit earned at Kent State University. In this context, residence does not refer to whether a student lives in Ohio or on campus; it refers to the Kent State credit hours required to earn a degree or certificate from Kent State University.

Undergraduate Students

- Associate degree programs: Students must complete a minimum of 15 passed hours in residence.
- Bachelor's degree programs: Students must complete a minimum of 30 passed hours in residence, of which 9 passed hours must be at the upper division (30000, 40000) level in the major.
- Certificate and minor programs: Students must complete a minimum 50 percent of the program's total required passed hours in residence. Some certificate and minor programs may require more.

Passed hours comprise graded coursework, including those receiving an S (satisfactory) or Y (pass) grade. Information on specific degree or certificate requirements may be obtained in the college section of the University Catalog. Credit hours for Kent State courses completed through a study-abroad and study-away experience will count toward the student's residence requirement.

Credit earned by means of transfer courses does not count toward residence. Transient study will not count toward the hours of residence, but it will not invalidate residence requirements in progress. Students eligible to take transfer coursework at other institutions are discouraged from taking these courses during their last semester because of the time necessary to receive and process transcripts, which may delay clearing the student for graduation. Under unusual circumstances, students may request a minor modification of this requirement by contacting their college prior to registration elsewhere.

Graduate Students

Residence requirements for graduate degree programs are determined by their respective department, school and/or college. Please consult with the program's coordinator (and/or program catalog page) as to its residence requirement for the degree.

Students admitted to a graduate certificate or graduate minor must complete a minimum 50 percent of the program's total required in residence. Some certificate and minor programs may require more.

More information on the transfer of courses may be found in the Transfer of Graduate Credit policy in the University Catalog.

Reason for Policy

It is expected that students who graduate from Kent State will have completed a minimum amount of coursework taken at the university. The requirement allows the faculty to ensure students meet the program, college and university standards of achievement. This policy implements criteria and requirements for accreditation established by the Higher Learning Commission.

Procedures

There are no procedures associated with this policy.

Forms/Instructions

There are no forms associated with this policy.

Additional Resources

- Academic Advising (Schedule an Appointment)
- Financial, Billing and Enrollment Center

Frequently Asked Questions

1. **How are the credit hours "in residence" determined? For example, for a bachelor's degree, are they the first 30 credit hours or the last 30 credit hours of the degree?**
   "In residence" includes credit hours for all Kent State courses no matter when they were earned. For graduate students, all credits earned at Kent State beyond what's allowed in the transfer policy count toward "in residence".
2. **How do I know what are the upper division courses in my major that count toward the 9 credit hours for residence for a bachelor's degree?**

   Those 30000- and 40000-level courses will be listed for your program in the University Catalog under the headers "Major Requirements (courses count in major GPA)" and (if applicable)"Concentration Requirements (courses count in major GPA)." Your GPS degree audit will track fulfillment of the residence requirement.
3. **I'm searching for the Ohio residency policy for tuition. Where can I find that?**
   You can find the policy regarding Ohio student residency for state subsidy and tuition surcharge purposes in the Kent State Policy Register.

Definitions

Passed hours for undergraduate programs: Credit hours earned from courses that were graded A to D+, S (satisfactory) or Y (credit).

Passed hours for graduate programs: Credit hours earned from courses that were graded A to C or S (satisfactory).

Residence: Credit hours earned from Kent State courses. Residence does not include credit hours awarded for courses transferred from another college or university or exams (e.g., AP, CLEP) or industry-recognized credentials.

Transient study: Kent State degree- or certificate-seeking student who is taking coursework at another institution with the intention to transfer the courses back to their Kent State program.

Related Information

- Grading Policies and Procedures

Revision History

Amended August 2025: Revised policy adds a residence restriction for graduate certificates and minors. This restriction was previously only in the graduate transfer policy.

Amended August 2010: Revised policy updates minimum requirements in residence: from 30 credit hours to 30 GPA credit hours (9 credit hours upper-division in the major) for a bachelor's degree; and from first 45 or final 15 credit hours to 15 GPA credit hours for an associate degree. Revised policy removes mention of correspondence study and addresses transient study.

Retroactive Credit

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Undergraduate students currently enrolled in a degree or certificate program who are placed into an advanced course through assessment or departmental review may earn retroactive credit for designated lower level course(s) in that subject. The advanced courses approved for earning retroactive credits are listed below.

To apply for retroactive credit, students must submit an application for retroactive credits.

The following stipulations apply:

- Students must complete the advanced course at Kent State with a minimum C or S (Satisfactory) grade to be eligible for retroactive credit. Courses taken for the pass/fail grade or audit mark will not be accepted for retroactive credit.
- Students who withdraw from or fail to meet the minimum C or S grade in the advanced course may retake the course and apply for retroactive credit once the minimum C or S grade is achieved and posted.
- Course credits earned through the retroactive policy are not assigned a letter (A-F) grade. The mark CR will be posted to a student's transcript for the enrolled term the student applied for the retroactive credit.
- Retroactive credit will count toward students' class standing, total credit hours earned for graduation and hours required for graduation honors.
- Retroactive credit will not count in students' grade point average (GPA), quality points and residence requirement.
- Students are not eligible for retroactive credit if they previously earned college credit for a course that is comparable to a lower level course in the same subject of the advanced course. Previous college credit includes credit earned through exam (e.g., AP, CLEP); courses transferred from other college-level institutions, tech prep programs or dual enrollment in a high school; or any other alternative credit listed in the University Catalog.
- Not all courses that offer retroactive credits are available each semester.
- Retroactive credit is not available for graduate courses.
- Students may apply for retroactive credit following the posting of the grade at any time before graduation, but no later than the second Sunday of the semester in which they are graduating.

A fee per credit hour is charged for processing and posting of the credit on the student's transcript. The Kent State Retroactive Credit Chart provides information about eligible courses and credits earned.

Selective Service Requirement

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Pursuant to Ohio Law, House Bill 845, all Ohio resident male students between the ages of 18 and 26 not registered with Selective Service System must file a statement of Selective Service registration. If students have not already registered with the Selective Service System, they will be contacted regarding their non-compliant status. Failure to comply will result in the assessment of nonresident tuition fees to their account and the cancellation of all state-based financial aid. Further questions may be directed to the Financial, Billing and Enrollment Center.

Semester System

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

The academic year at Kent State University consists of two semesters — fall and spring — each approximately 15 weeks in length. The normal bachelor's degree program is designed to be completed in four academic years, or eight semesters. The normal associate degree is designed to be completed in two academic years, or four semesters. In addition, the university offers a 13-week summer term.

Each credit hour of coursework is called a "credit hour," as distinguished from the quarter system used at some other universities and colleges. An academic year under the quarter system consists of three 10-week quarters, and one credit hour of coursework is called a "quarter credit hour."

One quarter credit hour of coursework is equivalent to two-thirds of a credit hour (1 quarter credit hour = 0.67 credit hour); one credit hour is equivalent to one and one-half quarter credit hours (1 credit hour = 1.50 quarter hours). A transfer student with a number of quarter credit hours should multiply that number by two-thirds to determine the equivalent credit hours at Kent State University. For example, a student with 48 quarter credit hours would receive 32 credit hours of transfer credit, providing the previous work meets university academic standards.

Sequential Coursework

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

In certain subject fields, such as mathematical sciences, foreign languages, English composition and some of the basic natural sciences,

knowledge is sequential or cumulative at the lower levels of study, and courses are structured in clear sequences. Students who already have received credit for, or established proficiency at, one level in such a sequence of courses may not receive academic credit counting toward graduation for a prior course in the sequence or for a course in a lower sequence.

Chemistry Course Sequencing Policy

Because of the similar level of course content in specific chemistry courses, credit hours toward graduation can be earned for only one course in each of the following groups:

Group	Courses
Group A	CHEM 10050, CHEM 10060, CHEM 10970
Group B	CHEM 10050, CHEM 10061, CHEM 10971
Group C	CHEM 20481, CHEM 30481
Group D	CHEM 20482, CHEM 30482

- Students who have successfully completed CHEM 10060 may bypass CHEM 10050.
- Students who have successfully completed CHEM 10050 may **not** bypass CHEM 10060.

Standardized Test Score Reports

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Kent State University only accepts official standardized test score reports sent directly by the testing center. Graduate Record Examination (GRE) scores are sent directly by the Educational Testing Service, and Graduate Management Admission Test (GMAT) test scores are sent directly by the Graduate Management Admission Council. Consistent with the policies of both the Educational Testing Service and the Graduate Management Admission Council, GRE and GMAT scores are valid for five calendar years. Thus, GRE and GMAT scores taken more than five calendar years prior to the date of application to Kent State University will not be accepted.

Student Conduct

The Kent State University Code of Student Conduct applies to both graduate and undergraduate students. Students are subject to educational sanctioning, including, but not limited to, probation, suspension or dismissal for violations of the code.

University policies regarding behavioral conduct and cheating/plagiarism are available on the Office of Student Conduct website and the Plagiarism website. Furnishing false or incomplete information to the university with intent to deceive or forge, alter or misuse university documents or other official documents that serve as the basis for admission and graduation may result in the revocation of admission, academic dismissal or revocation of a degree or certificate.

It is the policy of Kent State University that:

1. Students are to perform their own academic work according to the standards set by faculty members, departments, schools and colleges of the university.
2. To take and present as one's own a material portion of the ideas or words of another, or to present as one's own an idea or work derived from an existing source, without full and proper credit to the source of the ideas, words or works is considered plagiarism/cheating and will result in university sanctioning.
3. University rules and regulations form parameters for individual behavior on and off campus, and follow the normative standards of behavior adhered to by the City of Kent and Kent State University communities. By virtue of a student's enrollment at Kent State University, he/she consents to follow the policies and procedures of the university, including those outlined in the Code of Student Conduct. It is the student's responsibility and in his/her interest to be familiar with all applicable conduct-related policies.

Student Responsibilities

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Each Kent State University student is responsible for:

1. Pursuing successful completion of all courses for which he or she enrolls.
2. Meeting with an advisor to develop an academic plan. However, the final responsibility for following procedures and meeting university, college and program requirements as outlined in the University Catalog rests solely with the student.
3. Being familiar with the current academic calendar, including, but not limited to, deadlines for course registration, course withdrawal and application for graduation.
4. Knowing his or her academic record, including student schedule (found on the Student Printable Schedule in FlashLine) for each semester, and academic progress toward program completion.
5. Maintaining a current and accurate mailing address, phone number and Kent State e-mail address in FlashLine, and reading and responding promptly to all communications from the university.
6. Being familiar with and adhering to the university's rules, regulations and policies as published in the University Catalog and University Policy Register.

Thesis for the Master's Degree

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Effective Date: Fall 2020
Last Reviewed: Spring 2020
Last Revised: Spring 2020
Next Review: Spring 2032

Policy Statement

The writing of an acceptable thesis is mandatory or an option in certain master's degree programs.

Thesis Topic

The thesis topic must be approved by the student's academic unit and filed with the college dean no later than the semester preceding that in which the candidate expects to receive the degree. The thesis topic should be one that will further the student's educational development by developing research or other skills that will help the student keep abreast of the field and enable the student to pursue independent work. The thesis topic is formulated by the student in consultation with the advisor and submitted to the academic unit for approval according to normal procedures for that academic unit.

All students preparing a thesis are required to file a Notification of Approved Thesis Topic form. After the topic has been approved by the student's advisor and a committee has been formed, the advisor, members of the committee, graduate/program coordinator and lead

administrator of the academic unit sign the form and forward it to the college dean for approval. The college office returns a copy of the completed form to the academic unit.

When submitting the form, the student should attach a short summary of the thesis (no more than a paragraph) that includes a clear statement of the problem to be undertaken and the procedure or methodology to be used in the research.

Thesis Committee

When the student has developed a thesis topic acceptable to the advisor, a thesis committee is convened, responsible for overseeing the progress of the candidate's thesis. The graduate/program coordinator appoints the members of the committee in consultation with the student and the student's advisor. This group will consist, at minimum, of three members:

- The advisor, who chairs the committee
- Minimum two additional members from the candidate's academic unit
- If appropriate, one or more committee members also may be selected from other academic units. However, the majority of the committee members must be from the student's home academic unit.

The advisor must be a member of the graduate faculty who has been approved to direct theses. The other members of the committee must have associate or full graduate faculty status and be approved to serve on a master's committee. A co-advisor, if is used, will count as one of the required members from the student's academic unit.

Special permission must be obtained from the college dean for anyone on the thesis committee who does not meet the qualifications stated above.

The graduate/program coordinator, in consultation with the graduate studies committee will, as necessary, review the composition of the proposed committee for appropriate balance, and the topic for strength and suitability.

Thesis Registration and Applicability Toward Degree

Upon approval of the thesis topic, the student is required to register continuously for Thesis I (6x199) each semester (fall, spring) for a total of 6 credit hours. A student who has completed the required 6 credit hours of Thesis I but has not finished the thesis is expected thereafter to register continuously for Thesis II (6x299) each semester (fall, spring) until all degree requirements are met. Students who are planning to defend their thesis in summer or early fall, or who are requiring access to university resources during the summer months — including, but not limited to, feedback or mentoring from their thesis advisors, use of university buildings and other research resources — must register for thesis in the summer term. For students in good standing, those credit hours will be approved by the academic unit administrator. The student receives an In-Progress (IP) administrative mark until the thesis is completed, at which time the IP mark is changed to either the Satisfactory (S) or Unsatisfactory (U) grade No more than 6 credit hours of Thesis I may be counted toward completion of degree requirements. Credit hours earned in Thesis II do not, under any circumstances, count toward the degree.

Student must register for thesis no later than the last semester they are in residence. The thesis must be completed and in the hands of the examining committee by the deadline as determined by the college and communicated in advance to the student.

Final Examination (Oral Defense)

In some academic units, a final examination (oral defense), open to the university community, may be required of candidates writing a thesis. This examination is directed primarily toward the thesis but may contain other topics with which the committee feels the candidate should be familiar. The procedures for the final examination are detailed in the procedures section below.

Thesis Submission

Master's candidates are required to submit their thesis in electronic form to the OhioLINK Electronic Thesis or Dissertation Center, where the thesis is made publicly available. Information on the process can be found on the University Libraries guidelines for ETD preparation website. The thesis must be prepared according to established guidelines, which are available in the college office. Individual units may still require submission of a paper copy for their archives and the deadline for the thesis to be filed in the college office is the last day of classes for the term of graduation (some colleges may require an earlier deadline). It is the responsibility of the master's student to fulfill this requirement.

Reason for Policy

Policy enforces uniform standards for the master's thesis submission and oral defense and defines the thesis committee and applicability toward the master's degree.

Procedures

When the thesis has been accepted by a student's advisor, the advisor will arrange for the final examination, and the student will distribute the thesis to members of the thesis committee. The advisor will designate the time and place of the oral defense and notify the student and all members of the thesis committee. The oral defense should be scheduled to allow a minimum of 10 days for all members of the thesis committee to review the thesis. The college dean will be kept informed of the time and place of the examination and the composition of the examining committee.

In the absence of the advisor, the graduate/program coordinator will postpone the oral defense. In the case of long-term absence or enduring illness of the advisor, the lead administrator of the academic unit, in consultation with the graduate studies committee and the original advisor, should make arrangements for a substitute.

The oral defense will be open to the university community. The advisor should notify the academic unit of the time and place of the so that it may be announced in a suitable way. The student should provide copies of the thesis abstract to the academic unit so that it will be available to interested individuals prior to the defense to familiarize members of the graduate faculty with the methodology and findings.

Students may participate in the oral defense in a different location than the committee members (i.e., by web conferencing) if they are declared in a fully online degree program or have obtained permission in advance from the committee chair. See the policy on remote participation in a thesis or dissertation defense in the University Catalog.

The thesis advisor will act as the moderator at the oral defense. The duties of the moderator are to preside and ensure that all participants act in a civilized, polite and proper manner. The advisor should be familiar with the procedures of the oral defense and has the authority to suspend proceedings should a situation arise that would not be conducive to a fair examination. The student will open the defense with a brief presentation

of the thesis findings, after which the members of the thesis committee will question the student in an order determined by the advisor. Questions dealing with the substance, meaning and usefulness of the research in the thesis are of greatest priority. Inquiries or comments dealing with punctuation, grammatical minutiae, spelling, etc., are out of order and should be written out and privately submitted to the student and the advisor.

When, in the judgment of the advisor, members of the thesis committee have had an adequate opportunity to question the student, the advisor may open the examination to non-committee members of the graduate faculty, then, as the advisor deems appropriate, to others present. If, in the opinion of the advisor or upon a motion duly passed by a majority of the committee, it is deemed desirable to discontinue the oral defense, the advisor may recess the oral defense until a time mutually agreeable to the advisor, the student and the thesis committee.

When the questioning has run its course, the advisor will excuse everyone except members of the thesis committee and, if in attendance, the graduate/program coordinator and lead administrator of the academic unit. Parliamentary procedure will be followed to determine the success or failure of the student, with the advisor serving as chair. The student should be evaluated upon both: (a) the overall quality and significance of the thesis, and (b) the oral defense of the findings.

The advisor and members of the thesis committee will sign the Report of Thesis Final Examination form, and all register their vote of "pass" or "fail." Thesis committee members may not abstain in this vote. A student passes the oral defense and becomes a "candidate" for the degree if there is no more than one dissenting vote. The graduate/program coordinator and lead administrator of the academic unit also signs the report, and the document is forwarded to the college for the signature of the dean. The college returns a copy of the completed form to the academic unit.

Following any revisions required by the committee, the advisor and the lead administrator of the academic unit must approve the final version of the thesis document by signing the signature page of the Thesis and the Thesis Preparation Approval Form when the student submits the thesis.

Forms/Instructions

- Thesis Forms and Guidelines - Graduate College Forms Library

Additional Resources

- Financial, Billing and Enrollment Center

Frequently Asked Questions

There is no FAQ associated with this policy.

Definitions

Academic Unit: An academic department, school or a designated graduate program within a college, department or school.

Defense: Defense refers to students presenting, explaining and defending their ideas submitted in their thesis. The defense is designed so that faculty members can ask questions to ensure that students understand their chosen field and focus area.

Thesis: A thesis is a highly individualized investigative study that results in the development and writing of a scholarly, comprehensive paper and fulfills the culminating requirement for a master's degree. The thesis topic is formulated by the student in consultation with the advisor and should be one that will further the student's educational development by developing research or other skills that will help the student keep abreast of the field and enable the student to pursue independent work.

Related Information

- Guidelines for Submission of Electronic Theses and Dissertations
- Remote Participation in a Thesis or Dissertation Defense
- Qualifying Examination for Master's Degree
- Thesis for Master's Degree

Revision History

Amended August 2020: Revised policy includes procedures, removes graduate faculty status levels, eliminates summer registration requirement, adds deadline for filing thesis and removes deadline for thesis completion (deadline now determined by each college).

Transcripts

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Effective Date: Fall 2024
Last Reviewed: Fall 2023
Last Revised: Spring 2024
Next Review: Fall 2028

Policy Statement

The integrity of a student's academic transcript is fundamental to the validity of coursework and degrees certified by the university. Therefore, all student transcript entries (grades and other notations) are finalized when the degree is officially posted to the permanent academic record following the effective date of graduation. Subsequent revision and alteration of any transcript entry, after the relevant degree is awarded, is permitted only for the correction of a proven error as certified by the appropriate academic dean and the registrar. Degrees are posted to students' permanent academic records approximately 30 days following the effective date of graduation.

Reason for Policy

The integrity of a student's academic transcript is fundamental to the validity of coursework and degrees certified by the university.

Procedures

There are no procedures associated with this policy.

Forms/Instructions

- Transcript Requests

Additional Resources

- Financial, Billing and Enrollment Center
- Transcript Legend

Frequently Asked Questions

1. **What's the difference between and official and unofficial transcript?** Official transcripts contain the seal of the university and the signature of the university registrar and are sent directly to the final recipient (e.g., your employer or graduate school). Unofficial transcripts are available to current students via FlashLine and are for your own reference only.

2. **When will my most recent grades or degree be noted on my transcript?**
   Final grades and degree postings do not appear on official transcripts until the end of the term. To find processing dates, visit Grades and Transcript Processing Dates. Degrees are posted to students' permanent academic records approximately 30 days following the effective date of graduation.
3. **How do I request a transcript?**
   Students can request transcripts online. For more information on requesting transcripts, visit the Transcript Requests website.

Additional FAQ: Transcripts

Definitions

- **Transcript:** The accurate and complete record of a student's academic coursework attempted at an institution, presented in either electronic format or paper format.

Related Information

- Grade-/Mark-To-Grade Change Policy
- Grading Policies and Procedures
- Graduation
- Student Responsibilities

Revision History

Amended August 2024: Policy is revised to eliminate the withholding of a student's transcript due to financial obligations and to add language that revisions to a transcript after the awarding of a degree is permitted to correct an administrative error.

Transfer of Graduate Credit

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY
Effective Date: August 2024
Last Reviewed: April 2022
Last Revised: April 2024
Next Review: September 2028

Policy Statement

Graduate courses earned at another college or university may be transferred into a Kent State University graduate program. Students who wish to have those courses considered for transfer must petition administrators of the graduate program. The program can accept or reject such courses based on the program requirements, regardless of the discipline or institution in which the credits were earned.

The following conditions must be satisfied to transfer graduate credit:

1. A maximum of 12 credit hours of transfer courses may be applied toward a master's degree, the Educational Specialist degree or a doctoral degree. Some programs may have a lower maximum.
2. The graduate credit was earned at an institutional accredited college or university (or international equivalent).
3. The credit was not used for a previously awarded degree.
4. The student earned, at minimum, a B or satisfactory (S) grade in each course for which credit is to be transferred.
5. The transfer coursework satisfies a requirement in the student's program.
6. Time limits for transfer credit must follow established policy. Refer to policy for time limits for graduate programs.
7. The student's petition for transfer credit with an official transcript is filed with the program and college.
8. The student's program coordinator approves the petition.

Accepted transfer credits are posted on the Kent State University transcript in semester hours and count toward total credit hours earned for graduation at Kent State. Transfer credits and grades will not count toward the students' Kent State Grade Point Average (GPA) and residence requirement; nor will a transfer grade replace a grade earned in an equivalent course at Kent State. Transfer grades, however, may be considered for prerequisites to a specific course or admission to and/or progression for a specific program.

Students who are enrolled in a Kent State graduate program and wish to take graduate credit at another college or university to be transferred back to their Kent State's program must obtain approval from their program coordinator prior to taking the courses.

Reason for Policy

This policy specifies where authority resides for decisions regarding transferability of graduate credit and outlines the conditions required for the transfer of credits to Kent State graduate programs from other institutions.

Procedures

Students who wish to transfer graduate-level credits into a Kent State graduate program must obtain approval from their program coordinator by submitting the Request for Transfer of Graduate Credit form and including an official transcript of the courses.

Forms/Instructions

- Transfer of Graduate Credit form

Additional Resources

- Applying for Aid - Transfer Students
- Credit Transfer Office
- Financial, Billing and Enrollment Center
- Graduate College
- Office of Global Education

Frequently Asked Questions

1. **Are Kent State courses taken for one graduate program considered "transfer" if I want to apply them to another Kent State graduate program?**
   Courses completed at Kent State are not considered transfer. However, courses taken in one Kent State program may be applied toward another Kent State program with approval of that program's coordinator.
2. **Is there an appeal process if my transfer request was denied?**
   Yes, if a student wants to appeal a decision made on a transfer course, follow the administrative policy and procedure for student academic complaints
3. **Does the 12-credit limit include courses transferring from a certificate to a degree?**
   The 12-credit limit pertains to any and all coursework taken at another institution regardless of program type. The limit does not

pertain to coursework taken for a Kent State graduate program (major, minor, certificate) that is being requested to apply toward another Kent State program.

4. **Where do I start the transfer process?**
   Meet with your faculty advisor and/or program coordinator to review the courses in question for applicability toward your degree program.

Definitions

Credit hour: Units based on contact hours in a learning environment that are acquired for completed coursework applied toward a degree or certificate.

GPA (Grade Point Average): An indication of a student's academic achievement at Kent State University, determined by the number of credit hours attempted at Kent State University and the grades received. The Kent State GPA is calculated to three places past the decimal point and not rounded.

Graduate credit: Courses earned for a master's, Educational Specialist or doctoral degree or for a graduate-level certificate program. Graduate credit at Kent State are courses numbered 50000-69999 for master's level and 70000-89999 for doctoral level.

Institutionally accredited college or university: Previously called regional accreditation, the primary form of accreditation for traditional colleges and universities in the United States. There are six institutional accrediting organizations recognized by the Council for Higher Education Accreditation and the U.S. Department of Education, including the Higher Learning Commission, which accredits Kent State University.

Related Information

- Time Limits for Graduate Programs
- Residence Requirement

Revision History

Amended August 2024: Revised policy clarified earned credits from other institutions may be used in Kent State University graduate programs. The revisions also clarified language that students changing from one Kent State program to another are not considered transfer of credit.

Amended August 2023: Revised policy removes restriction that students with an earned Kent State graduate degree cannot transfer courses, with program permission, to another Kent State graduate degree.

Amended August 2015: Revised policy provides more guidance about the conditions associated with the transfer of credit at the graduate level, including the transfer of credit into the educational specialist (Ed.S.) degree; the transfer of credit that was earned at Kent State University; and the conditions surrounding the transfer of credits (e.g., role of the student, time limits, impact on the student's GPA). Name of policy changes from "Admission–Transfer Graduate Student" to "Transfer of Graduate Credit."

Transfer of Undergraduate Credit

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Effective Date: Fall 2025
Last Reviewed: Spring 2024
Last Revised: Fall 2016
Next Review: Fall 2034

Policy Statement

Students may transfer academic credit to Kent State University as admitted new undergraduate students, as active degree-seeking students or as returning students.

Transfer credit will be accepted for college-level courses (e.g., not remedial/developmental, eligible to count toward a degree) from institutional accredited or international equivalent institutions as determined by Kent State's Credit Transfer Office per the following conditions:

College or University in Ohio:

- The student earned a minimum D grade (or Credit or Pass or Satisfactory) in fall 2005 or later.
- The student earned a minimum C grade prior to fall 2005.
- The student earned a minimum D grade (or Credit or Pass or Satisfactory) in fall 1990 or later that was applied toward an earned Associate of Arts or Associate of Science degree with a minimum overall 2.000 GPA.

College or University Outside Ohio:

- The student earned a minimum D grade (or Credit or Pass or Satisfactory) in fall 2010 or later.
- The student earned a minimum C grade prior to fall 2010.

Effective fall 2010, upper-division and lower-division credit hours are awarded for transfer based upon the level of course to which they are equated at Kent State.

Accepted transfer credits are posted on the Kent State University transcript in semester hours based upon the number of hours earned at the source institution.

Transfer credits hours count towards:

- Class standing
- Total credit hours earned for graduation at Kent State

Transfer credits and grades will not count towards:

- Kent State Grade Point Average (GPA)
- Residence requirement
- Graduation honors
- Grade earned in an equivalent course at Kent State

Transfer grades may be considered for:

- Prerequisites to a specific course
- Admission to and/or progression for a specific program

The Kent State college that houses the student's major determines the applicability of these courses toward the desired degree or certificate. Some programs may require students to earn higher grades in specific courses or requirements. Students will be held to the required grade and GPA standards for admission to and graduation from these programs.

Students who have attended schools that are not institutionally accredited or that are not candidates for such accreditation are not granted credit by the Credit Transfer Office for work completed there. The students' Kent State college, however, may grant such credit at its discretion. Although the evaluation of a student's performance at a non-accredited institution is considered in the admissions decision,

any work completed at an accredited institution takes precedence. See the Alternative Credit policy in the University Catalog for more information on limits of credit hours.

Transfer Credit Appeals Process

Students must submit in writing to the Credit Transfer Office (either by letter or email) an appeal regarding their transfer credit. Upon recommendation by the Transfer Review Committee, students will be notified of the outcome in writing.

Active Students - Transient Coursework

Active undergraduate, degree-seeking students who wish to take college-level coursework at another institution (as described in the policies above) while continuing their studies at Kent State need to complete Transfer Course Planning form, in consultation with the academic advisor, prior to enrolling at the other institution.

After completing the transfer coursework, students are responsible for submitting an official transcript from the other institution to the Kent State Admission office. Students are discouraged from taking transfer coursework during their last semester because of the time necessary to receive and process transcripts, which may delay the student's graduation.

Returning Students

All transfer policies described above apply to Kent State students who interrupted their studies at the university for one or more years, completed coursework at another college or university and are now returning to Kent State.

- Kent State students who have not attended for one year, were not academically dismissed and completed coursework at another college or university during their absence should refer to the Former Undergraduate Students section of the Admission of Undergraduate Students policy in the University Catalog.
- Kent State students who were academically dismissed and completed coursework at another college or university during their absence should refer to the Dismissal, Appeal and Reinstatement policy in the University Catalog.

Reason for Policy

Ensures that students can transition from other institutions to Kent State while maintaining the academic integrity of their degrees. This policy allows the university to assess and validate prior learning, helping students avoid repeating courses and progress efficiently toward graduation, while upholding the university's academic standards.

Procedures

The procedures below are for active, degree-seeking Kent State students who plan to take courses at another institution to transfer back to Kent State. Failure to complete these steps may result in coursework not transferring as expected.

1. Meet with their academic or faculty advisor to review program requirements, course prerequisites, remaining coursework, possible impact if repeating courses and transfer course equivalencies.
2. Complete the Transfer Course Planning form.
    a. The form is valid for one term only (quarter, semester, etc.), or for one academic year for year-long study abroad/away opportunities.
    b. The form is subject to all restrictions of the dean of the student's college.
3. Complete the Ad Hoc Consortium Agreement if applying for financial aid during the term at the institution or to continue eligibility.
4. After the grade for the transfer coursework has been assigned, students are responsible for submitting an official transcript from the other institution to the Kent State Admission office.

Forms/Instructions

- Transfer Course Planning form
- Ad Hoc Consortium Agreement Form

Additional Resources

- Credit Transfer Office
- Financial, Billing and Enrollment Center
- Financial Aid information for Transfer Students
- Ohio Guaranteed Transfer Credits
- Transfer Credit Guide

Frequently Asked Questions

See the Credit Transfer website.

Definitions

Active Student: An "active" student is one who is enrolled at Kent State University for a minimum 1 credit for one semester or longer without more than a one-year interruption.

Credit Hours: Units based on contact hours in a learning environment that are acquired for completed coursework applied toward a degree or certificate.

GPA (Grade Point Average): Grade point average is determined by the number of credit hours attempted at Kent State University and the grades received. The GPA is calculated to three places past the decimal point and is not rounded.

Institutional Accreditation: Institutional accreditation validates the quality of an institution as a whole and evaluates multiple aspects of an institution, including its academic offerings, governance and administration, mission, finances, and resources.

New Student: An official evaluation of transfer credit is completed for undergraduate students who have been admitted to the university and have submitted official transcripts from all post-secondary institutions previously attended.

Prerequisite: Course(s) or condition(s) required before enrollment in a more advanced class. Example: FR 13201 is a prerequisite for FR 13202.

Ohio Transfer 36: Ohio Transfer 36 (OT36) is a specific subset or the entire set of a college or university's general education requirements (Kent Core), developed by the Ohio Department of Higher Education. OT36 completed at one public Ohio college or university will automatically meet the requirements of the OT36 at the receiving Ohio institution, once the student is accepted. Students may be required, however, to meet additional general education requirements that are not included in the OT36.

Transfer Student: Any student applying to Kent State University who has attended any institution of higher learning since leaving high school.

Transient Courses: Courses approved for active Kent State University students who attended another accredited institution while maintaining enrollment at Kent State.

Transient Student: Any student enrolled in another college or university who will attend Kent State University for one term.

Upper-Division Courses (30000-49999): Upper-division credit should be awarded for courses that are major related with the specialization, breadth and depth in a particular field. These courses typically have prerequisites because it is understood that it is advanced study, and students need the proper knowledge before taking the course.

Related Information

- Alternative Credit policy
- Admission of Undergraduate Students
- Dismissal, Appeal and Reinstatement
- Grade Point Average (GPA)
- Ohio Articulation and Transfer Policy
- Residence Requirement

Revision History

Amended August 2025: Revised policy updated the format and language to reflect all of the current state and national transfer policies.

Amended August 2016: Revised policy merged information on transfer (students who transfer to Kent State and transient (Kent State students who take courses elsewhere).

Amended August 2014: Revised policy for Kent State transient students eliminated the 18-credit hour restriction; added requirements that students be enrolled at Kent State for at least one semester before applying and be in good academic standing for eligibility; extended approval for transient coursework from one semester to one year for students who plan to be away from Kent State for a year-long study abroad/away; and removed information about previously accepted grade for transfer, which changed from a C to a D grade in 2005 for Ohio institutions (and in 2010 for all accredited institutions).

Undergraduate Students Enrolling in Graduate Courses

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Undergraduate students who have earned a minimum of 90 credit hours and minimum 3.300 overall GPA may enroll in a maximum of 12 credit hours of graduate coursework and apply these hours to the completion of the bachelor's degree. These credit hours cannot be applied to a future graduate degree at Kent State University (nor can the student take the course again). Enrollment in graduate coursework is limited to master's (50000 and 60000) level courses, and students must obtain permission in advance.

To obtain permission to enroll in the course, the student must complete a Permission for Undergraduate Students to Enroll in Graduate Courses form. The request form must be approved by the instructor of the graduate course.

To obtain permission to apply graduate coursework to the bachelor's degree, the student must meet with their undergraduate advisor to complete a Petition for Exception to Undergraduate Program Requirements form. The advisor may approve the request if all of the following conditions apply:

- Student has earned the minimum undergraduate semester credit hours and minimum GPA requirement.
- Graduate course will provide enrichment while the student pursues the undergraduate degree.
- Student does not exceed the maximum 12 graduate credit hours.

Another option for undergraduate students to take graduate level coursework is through a combined bachelor's/master's degree program. See the Combined Bachelor's/Master's Degree Program policy for more details.

University Readiness Standards and Placement Assessment

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

In 2012, the Ohio Department of Higher Education established uniform statewide standards and college testing thresholds for remediation-free status for undergraduate students. Students meeting these standards and thresholds are deemed remediation-free and are eligible to enroll in college-level courses in the respective subjects. These standards and thresholds do not replace Kent State's placement assessment policies.

Tests	Mathematics	English	Reading
ACT	22	18	22
SAT	530	480 Evidence-Based Reading and Writing	480 Evidence-Based Reading and Writing
Accuplacer Classic	55 College-Level Mathematics	88 Sentence Skills or 5 Writeplacer	80
Accuplacer Next Generation	263 Quantitative Reasoning, Algebra and Statistics or 263 Advanced Algebra and Functions	263 Writing or 5 Writeplacer	250 Reading
GED	165+	165+	165+
MapleSoft T.A.	Algebra 50% of items correct	n/a	n/a
ALEKS	46	n/a	n/a
PlaceU	18	n/a	n/a

Kent State University Placement Assessment

Kent State University uses ACT, SAT, GED, high school GPA and/or placement assessment(s) to determine appropriate course placement in mathematics, English, foreign language and critical and core reading strategies. Any required placement assessments must be completed before a student registers for classes in order to ensure student readiness and correct course placement. Any student required to attend a campus-specific orientation program (e.g., Destination Kent State: Advising and Registration) will be required to complete all appropriate assessments prior to the orientation program.

Students who earn college credit before enrolling at Kent State may be exempt from taking some or all placement assessments. Students must submit their college transcripts (including College Credit Plus and dual enrollment credit), Advanced Placement (AP), International Baccalaureate (IB) and military transcript(s) for review and consideration of transfer

credits in order to be exempt from taking some or all placement assessments.

Most assessments are accessible online. Students will be provided with information about assessments that are required and how to access the assessment, either by e-mail, "My Lists" Checklist or some other form of communication.

Time Limits: ACT, SAT, ALEKS mathematics and Accuplacer scores are accepted for two years from the date of the assessment and can be used for placement in mathematics, English and critical and core reading strategies. Placement assessment scores for Foreign Language provided through WebCape can be used for one year from the date of assessment.

Mathematics Placement

In addition to the remediation-free standards established by the Ohio Department of Education, Kent State's Department of Mathematical Sciences accepts the following for students in a program that does not require higher levels of mathematics (i.e., non-algebra track):

- Students with a 3.00 overall high school GPA or higher may take MATH 10040 or MATH 10050, regardless of their score on assessments mentioned in the standards listed above.
- Student with a 3.50 overall high school GPA or higher may take MATH 10041 or MATH 10051 regardless of their score on assessments mentioned in the standards listed above.

All undergraduate degree programs require the successful completion of the Kent Core Mathematics and Critical Reasoning requirement. Some programs may require specific mathematics course(s). Placement into mathematics courses is determined by a student's score on the ALEKS placement assessment and/or the ACT or SAT score or scores on the other listed assessments. Not all students need to take the ALEKS mathematics placement assessment, and students should check their "My Lists" checklist in FlashLine for that determination. However, all students scoring below 22 on ACT mathematics or below 530 on SAT mathematics or below the threshold in the other listed assessments need to take the ALEKS placement assessment.

Students may improve their initial placement score by working in an individualized learning module on ALEKS, then retaking the ALEKS mathematics placement assessment. They have free access to their learning modules and reassessment for one year from their initial assessment. Students who score 80 percent mastery in the learning modules have an excellent chance of improving their placement through a proctored reassessment.

Students deemed remediation-free in mathematics , as described in the table above, or with an overall 3.5 high school GPA or higher, may register for one of the following courses, as required by their major.

- Algebra Track: MATH 10675, MATH 10771, MATH 10772
- Non-Algebra Track: MATH 10041, MATH 10051, MATH 11008

Remediation-free students who want to register for a course other than the ones listed above may take the ALEKS mathematics placement assessment.

Students who are not deemed remediation-free in mathematics, as described in the table above, must take the ALEKS mathematics placement assessment to determine the course they should take as required by their major.

Additional information regarding placement after taking the ALEKS assessment may be found on the Department of Mathematical Sciences website.

English Placement

English Placement

All undergraduate degree programs require successful completion of the Kent Core Composition requirement. Placement into the appropriate starting course in the sequence is determined by ACT English or SAT evidence-based reading and writing or high school GPA. In the event students do not have ACT, SAT scores or qualifying high school GPA and are attending a Kent State University regional campus, they will take Accuplacer Next Generation reading and Writeplacer. This assessment is available on site or remotely. Students who have taken Accuplacer sentence skills, Writeplacer or reading comprehensive at another institution within two years of their initial start date may opt to transfer those scores to Kent State University.

Students enrolled at a Kent State University regional campus who do not meet the university readiness standards will be required to enroll in and earn a minimum C grade in ENG 01001 and a minimum C- grade ENG 11002 before they can enroll in ENG 21011 . Students who wish to challenge their writing placement may do so using the Writing Placement Reassessment.

To provide more opportunities to all students, ACT/SAT scores and/or high school GPA older than two years are acceptable for English placement. Regional Campus students should also be informed about the Stretch sequence and given the option to enroll in Stretch, regardless of their older ACT/SAT or GPA. Students who do not have ACT/SAT scores or high school GPA will take Accuplacer Reading and Writeplacer.

Kent Campus Students

Assessment	Score	Placement
ACT English	0-25	ENG 11011
ACT English	26+	ENG 21011
SAT Evidence-Based Reading and Writing	200-590	ENG 11011
SAT Evidence-Based Reading and Writing	600+	ENG 21011
Accuplacer and Writeplacer (challenge to ACT/SAT placement)	7+	ENG 21011
GED Reasoning Through Language Arts College Reading	165+ *	ENG 11011
Final high school GPA	2.8+	ENG 11011
Final high school GPA	3.8+ and writing sample **	ENG 21011

Regional Campus Students

Assessment	Score	Placement
ACT English	0-17	ENG 01001 and ENG 11002
ACT English	18-25	ENG 11011
ACT English	26+	ENG 21011
ACT Reading and Writeplacer Next Generation	0-19 and 4	ENG 01001 and ENG 11002
ACT Reading and Writeplacer Next Generation	20+ and 4	ENG 11011

SAT Evidence-Based Reading and Writing	200-470	ENG 01001 and ENG 11002
SAT Evidence-Based Reading and Writing	480-590	ENG 11011
SAT Evidence-Based Reading and Writing	600+	ENG 21011
Accuplacer Next Generation Writing	0-4	ENG 01001 and ENG 11002
Accuplacer Next Generation Writing	4 and 0-249 Accuplacer Reading	ENG 01001 and ENG 11002
Accuplacer Next Generation Writing	4 and 250+ Accuplacer Reading	ENG 11011
Accuplacer Next Generation Writing	5-6	ENG 11011
Accuplacer Next Generation Writing	7+	ENG 21011
GED Reasoning Through Language Arts College Reading	165+ *	ENG 11011
Final high school GPA	0.0-2.9	ENG 01001 and ENG 11002
Final high school GPA	2.8+	ENG 11011
Final high school GPA	3.8+ and writing sample **	ENG 21011

* Kent State University awards college credit for GED 175+ scores.

** Permission must be granted from the Department of English after review of writing sample.

Core and Critical Reading Strategies Placement

Kent State University regional campuses offer two courses to help students develop reading strategies to successfully complete college-level coursework — READ 00003 and READ 00006. A student placed into READ 00003 must take READ 00006 the following term. Both courses require a minimum C grade. Students who have taken the Accuplacer Classic or Next Generation at another institution within two years of their initial start date may opt to transfer that score to Kent State University.

Assessment	Score	Placement
ACT Reading	0-13	READ 00003
ACT Reading	14-19	READ 00006
ACT Reading	20+	No Course
SAT Evidence-Based Reading and Writing	200-380	READ 00003
SAT Evidence-Based Reading and Writing	390-470	READ 00006
SAT Evidence-Based Reading and Writing	480+	No Course
Accuplacer Classic Reading	0-50	READ 00003
Accuplacer Classic Reading	51-79	READ 00006
Accuplacer Classic Reading	80-120	No Course
Accuplacer Next Generation Reading	200-221	READ 00003
Accuplacer Next Generation Reading	222-249	READ 00006
Accuplacer Next Generation Reading	250-300	No Course
GED Reasoning Through Language Arts College Ready	165+ *	No Course
Final high school GPA	0.00-1.59	READ 00003
Final high school GPA	1.6-2.79	READ 00006
Final high school GPA	2.8+	No course

* Kent State University awards college credit for GED 175+ scores.

Foreign Language Placement

Students intending to study Chinese, French, German, Italian, Russian or Spanish should take the placement assessment 48 hours before their academic advising appointment.

Students planning to study a language other than the ones listed above should contact the Department of Modern and Classical Language Studies via email (mcls@kent.edu) or website for further placement instructions. All students should begin foreign language study in the appropriate course, which may be determined in one of the following ways:

1. Webcape Placement Exam available on the Placement Channel in FlashLine for Chinese, French, German, Italian, Russian and Spanish.
2. Placement interview with a faculty member in the Department Modern and Classical Language Studies for languages for which there is no Webcape Placement Exam.
3. Placement based on alternative credits accrued per one of the approved methods specified in the University Catalog.

Foreign Language Requirements: Generally, foreign language requirements are met by passing the highest level course in the language requirement or a course beyond the highest level in the requirement. Students should review the University Catalog and consult with their academic advisor(s) to determine specific language requirements for their college and program. Some students may begin their university foreign language experience beyond the Elementary I level without receiving credit for the previous course(s) and, thus, may complete the requirement with fewer credit hours and fewer courses than specified in their language requirement. In this case, the credit hours not used for the language requirement may be still required for graduation, but may be applied toward coursework in the student's major or minor or as electives.

Foreign Language Proficiency Waiver: Students able to demonstrate foreign language proficiency comparable to the highest course in their foreign language requirement may be able to have their language requirement waived. Students should review the University Catalog and consult with their academic advisor(s) and the Department of Modern and Classical Language Studies to verify eligibility. Proficiency waivers will be granted for the following:

1. **International students** who were educated through high or secondary school in a language other than English. Foreign language waivers will be granted to international students who have
   a. TOEFL, IELTS, MELAB, PTE Academic score recorded in their Kent State University academic record;
   b. completed English-as-second-language courses at Kent State; or
   c. provided documentation that they attended a secondary or high school in a country in which courses were taught in a language other than English (e.g., high school transcripts or diploma in the original language along with a certified English translation).

2. **American Council on the Teaching of Foreign Languages (ACTFL) Exams.** The tests are administered by Language Testing International. Students are responsible for the costs of the exam(s) and for providing the Department of Modern and Classical Language Studies with a copy of the certificate(s). Instructions for taking the ACTFL Exams may be found on the department's website.
   a. A proficiency waiver will be granted through Elementary II of a foreign language to students who provide either
      i. an official ACTFL Oral Proficiency Interview (OPI) certificate that documents proficiency at the Intermediate Low or higher level; or
      ii. comparable qualifying score on an ACTFL-based proficiency exam such as those accepted for the Ohio Seal of Biliteracy confirming oral proficiency of at least an intermediate low level.
   b. A proficiency waiver will be granted through Intermediate II of a foreign language to students who provide either
      i. an official ACTFL Oral Proficiency Interview (OPI) **and** Writing Proficiency Test (WPT) certificates with scores at the Intermediate Low or higher level; or
      ii. comparable qualifying ACTFL-based proficiency exams such as those accepted for the Ohio Seal of Biliteracy confirming oral proficiency **and** writing proficiency of at least an intermediate low level.
3. **Common European Framework of Reference for Language (CEFR) Ratings.** A proficiency waiver will be granted through Elementary II of a foreign language to students who provide an official (European) CEFR certificate confirming oral proficiency of at least the B1.1 level. A proficiency waiver will be granted through Intermediate II of a foreign language to students who provide an official CEFR certificate confirming oral and writing proficiency of at least the B1.2 level. Students are responsible for providing the Department of Modern and Classical Language Studies with a copy of the certificate(s).
4. **Defense Language Proficiency Test (DLPT).** A proficiency waiver will be granted through Elementary II of a foreign language to students who were tested during military service and provide an official DLPT certificate confirming oral proficiency of at least ILR 1. A proficiency waiver will be granted through Intermediate II of a foreign language to students who provide an official DLPT certificate confirming oral proficiency of at least ILR 1+.
5. **Ohio Seal of Biliteracy.** A proficiency waiver may be granted through Elementary II or Intermediate II of a foreign language to students with an Ohio Seal of Biliteracy, depending on the results of their qualifying test scores. Students who have qualified for the Ohio Seal of Biliteracy by means of an International Baccalaureate (IB) or Advance Placement (AP) exam or who submit their ACE transcripts may be eligible to receive credit for the Ohio Seal of Biliteracy. Students will be required to submit their certificate and exam results to Kent State University officials to determine which level of proficiency will be granted. For more information, visit the

Upper-Division Requirement

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

Most specialization in bachelor's degree programs is pursued through upper-division coursework. Upper-division courses are numbered 30000–49999 and expect both greater familiarity with the subject matter and greater intellectual sophistication. Students must complete the appropriate prerequisites in specified lower-division courses before entering upper-division courses. In general, baccalaureate programs require the successful completion of minimum 39 upper-division credit hours of coursework.

Workshops for Graduate Students

ASK A QUESTION OR SUBMIT FEEDBACK ON THIS POLICY

The Office of Continuing Education, in cooperation with academic departments, offers a variety of for-credit workshops. These workshops are especially designed to meet identified needs of various professions. Each workshop is set up to recognize the needs of the audience in terms of time, place, format and content.

A student holding a bachelor's degree from an accredited institution and who has been accepted by a workshop director for a specified workshop, institute or other special program offering graduate credit may be admitted as a special non-degree workshop student for the term of the workshop only. Prerequisites for admission are set by the instructional department. The temporary admission is valid for only one workshop consisting of a maximum of 12 credit hours. Students desiring to take other non-workshop graduate courses concurrently with the workshop or to do graduate work beyond the length of the workshop term must apply for admission to the appropriate college or school under regular procedures. A student may reapply for subsequent workshop participation under workshop admission regulations.

A maximum of 4 credit hours earned in graduate workshops may be applied to a graduate degree program. All workshops are graded S/U (satisfactory/unsatisfactory). Some departments may be more restrictive. Students are advised to consult their departments regarding application of workshop credit toward degree requirements.

FACULTY & ADMINISTRATORS

University Administrators

University Faculty

University Administrators

Executive Officers and Administration

- Todd A. Diacon, President
- Melody J. Tankersley, Executive Vice President for Academic Affairs and Provost
- Mark M. Polatajko, Senior Vice President for Finance and Administration
- Eboni J. Pringle, Senior Vice President for Student Life
- Sean M. Broghammer, Vice President for Enrollment Management
- Douglas L. Delahanty, Vice President for Research and Economic Development
- Amoaba Gooden, Vice President for People, Culture and Belonging
- Margaret A. Shadduck, Vice President for Regional Campuses
- Randale L. Richmond, Vice President and Director of Intercollegiate Athletics
- John M. Rathje, Vice President for Information Technology and Chief Information Officer
- Charlene K. Reed, Vice President and University Secretary
- Stephen P. Ward, Vice President for University Communications and Marketing
- Valoree S. Vargo, Vice President for Philanthropy and Alumni Engagement
- David Ochmann, General Counsel (Interim)
- Nicholas M. Gattozzi III, Executive Director of Government and Community Relations

Office of the Provost

- Melody J. Tankersley, Executive Vice President for Academic Affairs and Provost
- Marcello Fantoni, Vice President for Global Education
- Margaret A. Shadduck, Vice President for Regional Campuses
- Susan R. Perry, Associate Provost for Institutional Effectiveness
- Scott C. Sheridan, Associate Provost for Academic Affairs (Interim)
- Kevin West, Associate Provost for Faculty Affairs
- Denise S. Bartell, Senior Associate Vice President, Regional Campus System Faculty and Student Success
- Dana M. Lawless-Andric, Senior Associate Vice President for University Outreach and Engagement
- Jennifer McDonough, Senior Associate Vice President for Strategy Management
- Andrew D. Crawford, Associate Vice President, Regional Campuses Student Services and Engagement
- Valerie L. Kelly, Associate Vice President for Kent State Online
- Therese E. Tillett, Associate Vice President for Curriculum Planning and Administration

Academic Administration

Ambassador Crawford College of Business and Entrepreneurship

- Deborah F. Spake, Dean
- Emmanuel Dechenaux, Associate Dean, Administration
- Christopher Groening, Associate Dean, Graduate and Online Education

Department Chairs

- **Department of Accounting:** Wei Li
- **Department of Economics:** Michael A. Ellis
- **Department of Finance:** Steven A. Dennis
- **Department of Information Systems and Business Analytics:** Jose A. Benitez
- **Department of Management:** Asli M. Arikan
- **Department of Marketing and Entrepreneurship:** Haithem Zourrig

College of Aeronautics and Engineering

- Christina L. Bloebaum, Dean
- Joycelyn S. Harrison, Associate Dean, Research and Faculty Affairs
- Maureen R. McFarland, Associate Dean, Academic Affairs
- Brian S. Neff, Assistant Dean, Flight and Operations

College of Applied and Technical Studies

- Margaret A. Shadduck, Dean
- Susan Emens, Associate Dean

College of Architecture and Environmental Design

- Mark S. Mistur, Dean
- Sharon Wohl, Associate Dean
- Amanda N. Colucci, Assistant Dean

College of Arts and Sciences

- Mandy J. Munro-Stasiuk, Dean
- Eric M. Mintz, Senior Associate Dean, Budget and Faculty Affairs
- Keiran J. Dunne, Associate Dean, Graduate Affairs
- Kristin Stasiowski, Associate Dean, International Programs and Education Abroad
- Deirdre M. Warren, Associate Dean, Curriculum and Undergraduate Education

Department Chairs and School Directors

- **Department of Africana Studies:** Mwatabu S. Okantah
- **Department of Anthropology:** Mary Ann Raghanti
- **Department of Biological Sciences:** Heather K. Caldwell
- **Department of Chemistry and Biochemistry:** Christopher J. Fenk
- **Department of Computer Science:** Mikhail Nesterenko (Interim)
- **Department of Earth Sciences:** Joseph D. Ortiz
- **Department of English:** Robert D. Sturr
- **Department of Geography:** Sarah L. Smiley (Interim)
- **Department of History:** Mary Ann Heiss
- **Department of Mathematical Sciences:** Nathan P. Ritchey (Interim)
- **Department of Modern and Classical Language Studies:** Patrick L. Gallagher
- **Department of Philosophy:** Michael B. Byron

- **Department of Physics:** John J. Portman (Interim)
- **Department of Political Science:** Anthony D. Molina
- **Department of Psychological Sciences:** Karin G. Coifman
- **Department of Sociology and Criminology:** Kristen A. Marcussen (Interim)
- **School of Biomedical Sciences:** John D. Johnson
- **School of Multidisciplinary Social Sciences and Humanities:** Julie M. Mazzei
- **School of Peace and Conflict Studies:** Neil Cooper

College of Communication and Information

- Amy L. Reynolds, Dean
- Miriam L. Matteson, Associate Dean
- Matthew M. Rollyson, Assistant Dean

School Directors

- **School of Communication Studies:** Paul Haridakis
- **School of Emerging Media and Technology:** Michael Beam
- **School of Information:** Sarah M. Harper
- **School of Media and Journalism:** Emily T. Metzgar
- **School of Visual Communication Design:** Daniel P. Alenquer

College of Education, Health and Human Services

- James C. Hannon, Dean
- Alicia R. Crowe, Associate Dean, Undergraduate Education and Student Services
- Stephen A. Mitchell, Associate Dean, Administrative Affairs and Graduate Education
- Michael S. Bell, Assistant Dean, Assessment and Accreditation
- Kathy M. Zarges, Assistant Dean, Advising, Student Success and Licensure

School Directors

- **School of Foundations Leadership and Administration:** Mark R. Lyberger
- **School of Health Sciences:** John McDaniel (Interim)
- **School of Lifespan Development and Educational Sciences:** Frank J. Sansosti
- **School of Teaching Learning and Curriculum Studies:** George Kamberelis

College of Nursing

- Versie Johnson-Mallard, Dean
- Christine Kauth, Associate Dean, Faculty Affairs
- Tracey M. Motter, Associate Dean, Undergraduate Programs
- Curtis J. Good, Assistant Dean, Operations and Student Services

College of Podiatric Medicine

- Allan M. Boike, Dean
- Bryan D. Caldwell, Senior Associate Dean
- Mark A. Hardy, Assistant Dean, Clinical Education and Research

College of Public Health

- Sonia A. Alemagno, Dean
- Jeffrey S. Hallam, Senior Associate Dean, Research, Practice and Global Affairs
- Melissa Zullo, Associate Dean, Faculty Affairs

College of the Arts

- Diane H. Petrella, Dean
- Kim H. Hahn, Associate Dean, Graduate Programs
- Wendy K. Matthews, Associate Dean, Undergraduate Programs and Assessment

School Directors

- **School of Art:** Jillian L. Sokso
- **School of Fashion Design and Merchandising:** Mourad Krifa
- **School of Music:** Sarah J. Labovitz
- **School of Theatre and Dance:** Albert A. Hardin

Graduate College

- Scott C. Sheridan, Dean (Interim)

Honors College

- Alison J. Smith, Dean
- Frank S. Congin, Assistant Dean

University College

- Elizabeth E. Piatt, Dean (Interim)
- John G. Jewell, Associate Dean, Academic Student Support Services

University Libraries

- Kenneth J. Burhanna, Dean
- Kara L. Robinson, Associate Dean, Equity, Faculty Affairs and Talent Management
- Mike Collura, Assistant Dean, Technology and Resource Innovation
- Beate Gersch, Assistant Dean, Student and Research Success

Regional Campuses

Ashtabula Campus

- R. William Ayres IV, Dean and Chief Administrative Officer (Interim)
- Adil M. Wadia, Academic Vice Dean

East Liverpool Campus

- Bradley A. Bielski, Dean and Chief Administrative Officer (Interim)
- Stephen Minnick, Academic Vice Dean

Geauga Campus and Twinsburg Academic Center

- Angela S. Spalsbury, Dean and Chief Administrative Officer
- Tiffany Kiphart, Academic Vice Dean

Salem Campus

- Denise A. Seachrist, Dean and Chief Administrative Officer
- Susan Rossi, Academic Vice Dean

Stark Campus

- Denise A. Seachrist, Dean and Chief Administrative Officer
- Susan Rossi, Academic Vice Dean

Trumbull Campus

- R. William Ayres IV, Dean and Chief Administrative Officer
- Adil M. Wadia, Academic Vice Dean

Tuscarawas Campus

- Bradley A. Bielski, Dean and Chief Administrative Officer
- Stephen Minnick, Academic Vice Dean

University Faculty

The listing below represents full-time Kent State employees with faculty status at all campuses and locations who were employed at the start of the academic year. The date in parentheses following each name is the year in which the faculty member initially was hired at Kent State University.

Ambassador Crawford College of Business and Entrepreneurship Faculty

Department of Accounting Faculty

- Ballestero, Ryan C. (2021), Assistant Professor, Ph.D., University of Texas - Austin, 2021
- Fang, Shunlan (2014), Associate Professor, Ph.D., Temple University, 2013
- Laksmana, Indrarini V. (2004), Professor, Ph.D., Georgia State University, 2004
- Li, Wei (2006), Associate Professor, Ph.D., Washington State University, 2006
- Loftus, Serena (2021), Assistant Professor, Ph.D., University Of Washington, 2015
- Miller, Scott E. (2019), Lecturer, M.A., The Ohio State University, 2005
- Nett, Malinda B. (2009), Associate Professor, M.Tax., University of Akron, 1995
- Sellers, R. Drew (2011), Associate Professor, D.M., Case Western Reserve University, 2008
- Tietz, Wendy M. (2000), Professor, Ph.D., Kent State University, 2007
- Zhang, R.Z. (2020), Assistant Professor, Ph.D., Tulane University, 2020

Department of Economics Faculty

- Bagheri, Omid (2017), Associate Professor, Ph.D., Virginia Polytechnic Institute and State University, 2017
- Boyd-Swan, Casey (2015), Associate Professor, Ph.D., Arizona State University , 2015
- Choi, Yoonho (2021), Assistant Professor, Ph.D., Iowa State University, 2017
- Cornelius, Rowena J. (2024), Assistant Professor, Ph.D., University Of Western Ontario
- Dechenaux, Emmanuel (2004), Professor, Ph.D., Purdue University, 2004
- Ellis, Michael A. (1990), Professor, Ph.D., Texas A&M University, Main Campus, 1991
- Engelhardt, Lucas M. (2010), Associate Professor, Ph.D., The Ohio State University, 2010
- Greenhalgh-Stanley, Nadia (2009), Professor, Ph.D., Syracuse University, 2009
- Johnson, Eric D. (2005), Associate Professor, Ph.D., University of California, San Diego , 1997
- Kim, Duhyeong (2023), Assistant Professor, Ph.D., University Of Western Ontario, 2023
- Leontieva, Ludmila (2007), Associate Professor, Ph.D., Rostov State University, 1991
- Liu, Dandan (2008), Professor, Ph.D., Texas A&M University, Main Campus, 2005
- Mukherjee, Deepraj (2012), Professor, Ph.D., University of Memphis, 2010
- Park, Jooyoun (2009), Associate Professor, Ph.D., University of Michigan, 2009
- Reynolds, Curtis Lockwood (2007), Professor, Ph.D., University of Michigan, 2007
- Rohlin, Shawn (2012), Professor, Ph.D., Syracuse University, 2009
- Sahajdack, Thomas (2016), Associate Professor, Ph.D., University of Illinois, 2016
- Shaeye, Abdihafit (2018), Associate Professor, Ph.D., University of Wisconsin, Milwaukee, 2017
- Wilson, Kathryn S. (1996), Professor, Ph.D., University of Wisconsin - Madison, 1996

Department of Finance Faculty

- Baran, Lindsay C. (2011), Associate Professor, Ph.D., University of North Carolina, Charlotte, 2010
- Beier, Lois J. (1985), Professor, J.D., University of Akron, 1980
- Billik, William M. (2009), Associate Professor, Ph.D., Kent State University, 2018
- Deng, Saiying (2019), Professor, Ph.D., Temple University , 2005
- Dennis, Steven A. (2014), Professor, Ph.D., University of Kentucky, 1993
- Harris, Jeremiah R. (2014), Associate Professor, Ph.D., Purdue University, 2014
- Jiang, Lei (2023), Professor, Ph.D., Emory University, 2011
- Lloyd, Albert A. (2022), Lecturer, M.B.A., Kent State University, 1996
- Pelleg, David S. (2018), Associate Lecturer, M.B.A., University of Chicago, 1994
- Pu, Xiaoling X. (2008), Professor, Ph.D., University of Massachusetts-Amherst, 2008
- Shynkevich, Andrei (2009), Associate Professor, Ph.D., Louisiana State University, 2009

Department of Information Systems and Business Analytics Faculty

- Akpan, Ikpe A. (2012), Professor, Ph.D., Lancaster University, 2006
- Asadi, Shahla (2023), Assistant Professor, Ph.D., University Of Technology - Malaysia, 2017
- Benitez, Jose A. (2023), Professor, Ph.D., University of Granada, 2009
- Berardi, Victor L. (1993), Associate Professor, Ph.D., Kent State University, 1998
- Brandyberry, Alan A. (2000), Professor, D.B.A., Southern Illinois University, Carbondale, 1995
- Datta, Pratim (2007), Professor, Ph.D., Louisiana State University, 2003
- Dragan, Natalia (2003), Associate Professor, Ph.D., Kent State University, 2010
- Kamali Ardakani, Mostafa (2022), Associate Professor, Ph.D., Catholic University of America, 2014

- Kwak, Dong-Heon (2014), Associate Professor, Ph.D., University of Wisconsin, Milwaukee, 2014
- Liu, Li (2023), Assistant Professor, Ph.D., University of North Carolina-Charlotte, 2019
- Liu, Si (2024), Assistant Professor, Ph.D., McMaster University, 2024
- Offodile, Onyebuchi F. (1988), Professor, Ph.D., Texas Tech University, 1984
- Patuwo, Eddy B. (1988), Professor, Ph.D., Virginia Polytechnic Institute and State University, 1989
- Polites, Greta L. (2012), Professor, Ph.D., University of Georgia, 2009
- Razavi, Rouzbeh (2017), Associate Professor, Ph.D., University of Essex, 2008
- Uprety, Dambar (2022), Assistant Professor, Southern Illinois University-Carbond, 2016
- Wu, Chaojiang (2019), Associate Professor, Ph.D., University of Cincinnati, 2013
- Zhu, Yi (2024), Assistant Professor, Ph.D., University of Minnesota-Twin Cities, 2024

Department of Management Faculty

- Arikan, Asli M. (2014), Professor, Ph.D., The Ohio State University, 2004
- Arikan, Ilgaz (2014), Professor, Ph.D., The Ohio State University, 2004
- Hogue, Mary B. (2001), Professor, Ph.D., University of Akron, 2000
- Kaur, Vaneet (2019), Assistant Professor, Ph.D., University of Jammu, 2018
- Knapp, Deborah K. (1992), Professor, Ph.D., Kent State University, 1994
- Landingham, Velvet L. (2004), Professor, Ph.D., Case Western Reserve University, 2004
- Palmer-Johnson, Catrina E. (2004), Assistant Professor, Ph.D., Rutgers University, 2021
- Riczo, Steve (2014), Associate Lecturer, M.H.A., Xavier University, 1982
- Whitmore, Mark D. (2011), Associate Professor, Ph.D., The Ohio State University, 1985

Department of Marketing and Entrepreneurship Faculty

- Aimone, Randy C. (2024), Lecturer, M.B.A., Pace University At New York City, 2008
- Bridges, Eileen (1994), Professor, Ph.D., Northwestern University, 1987
- Groening, Christopher (2013), Professor, Ph.D., University of Pittsburgh, 2008
- Heidler, Mary R. (2011), Associate Lecturer, M.B.A., American University, 1995
- Hsieh, Meng-Hua (2018), Associate Professor, Ph.D., University of Washington, 2013
- Jewell, Robert D. (2004), Professor, Ph.D., Ohio State University, 1999
- Jia, Lei (2022), Assistant Professor, Ph.D., Ohio State University, 2020
- Knapp-Blay, Kelly A. (2016), Associate Lecturer, M.B.A., Bowling Green State University, 1997
- Lee, Denise M. (2009), Senior Lecturer, M.B.A., Ashland University, 2006
- Liu, Kun (2018), Associate Professor, Ph.D., University of Utah, 2006
- Mahar, Christopher (2022), Associate Professor
- Mohammadi Darani, Milad (2019), Assistant Professor, Ph.D., Texas A&M University, Main Camp, 2019
- Spake, Deborah F. (2013), Professor, Ph.D., The University of Alabama, 1999
- Stettler, Tatiana R. (2015), Associate Professor, Ph.D., University of Bern, 2014
- Thacker, Donald (1998), Senior Lecturer, M.B.A., Kent State University-Stark Campus, 1996
- Wang, Tuo (2004), Associate Professor, Ph.D., University of Pittsburgh, 2004
- Wiggins, Jennifer A. (2006), Professor, Ph.D., University of Wisconsin-Madison, 2006
- Zourrig, Haithem (2016), Associate Professor, Ph.D., University of Montreal, 2010

College of Aeronautics and Engineering Faculty

- Abdul-Aziz, Ali (2016), Associate Professor, Ph.D., Cleveland State University, 1985
- Al Turk, Abdelhakim (2024), Assistant Professor, Ph.D., Wichita State University, 2024
- An, Xuanhong (2024), Assistant Professor, Ph.D., Illinois Institute of Technology, 2018
- Balcerski, Jeffrey (2024), Assistant Professor
- Bloebaum, Christina L. (2018), Professor
- Boergerhoff, Jason T. (2010), Associate Professor, M.S., University of North Dakota, 2010
- Boyd, Darwin L. (1983), Assistant Professor, Ph.D., Kent State University, 1991
- Del Rosario, Ruben (2024), Professor, Ph.D., Cleveland State University, 2004
- Du, Yanhai (2013), Professor, Ph.D., University of Waikato, 2004
- Fisch, Michael R. (1998), Associate Professor, Ph.D., Harvard College, 1982
- Gurkan, Deniz (2023), Professor, Ph.D., University of Southern California, 2003
- Harrison, Joycelyn S. (2019), Professor
- Harrison, Carl E. (2021), Associate Lecturer
- Hassler, Richard P. (2018), Associate Professor, Ed.S., The Fielding Institute, 2005
- Koptur, Evren (2003), Associate Professor, Ph.D., Kent State University, 2016
- Kwasa, Benjamin (2021), Assistant Professor, Ph.D., Iowa State University, 2017
- LaBerge, Kelsen E. (2018), Professor, Ph.D., Case Western Reserve University, 2009
- Liu, Rui (2019), Assistant Professor, Ph.D., Colorado School of Mines, 2018
- Lorenzon, Jason (2007), Assistant Professor, J.D., Cleveland State University, 2007
- Mangrum, Richard L. (2003), Professor, Ed.D., Oklahoma State University, 2003
- McFarland, Maureen R. (2003), Associate Professor, Ph.D., Kent State University, 2017
- Mirinejad, Hossein (2019), Assistant Professor, Ph.D., University Of Louisville, 2016

- Neff, Carissa M. (2013), Lecturer, B.S., Kent State University, 2015
- Nettey, Richmond I. (2001), Professor, Ph.D., University of Houston-Main Campus, 2000
- Palcho, Timothy L. (2000), Professor, M.S., Mountain State University, 2009
- Ripple, James E. (2008), Associate Professor, B.A., Kent State University, 1991
- Shen, Tao (2019), Assistant Professor
- Shihab, Syed Arbab Mohd (2020), Assistant Professor, Ph.D., Iowa State University, 2020
- Testa, Michael (2017), Associate Lecturer, M.S., University of Akron, 1997
- True, Trent (2004), Associate Lecturer, M.Tech., Kent State University, 2007
- Weaver, Jonathan C. (2023), Associate Lecturer, M.A., The Open University, 2017

College of Applied and Technical Studies Faculty

- Alicea, Megan R. (2013), Associate Lecturer, M.E.T. , Boise State University, 2015
- Andreas, Sarah E. (2020), Assistant Professor, Ph.D., Johnson Bible College, 2019
- Antenucci, Robert P. (2005), Associate Professor, Ph.D., Kent State University, 2013
- Armstrong, Lori (2011), Lecturer, B.A., Kent State University, 2014
- Baker, John J. (2012), Associate Lecturer, M.S., La Roche College, 1990
- Barcus, Laurie D. (2005), Senior Lecturer, M.S.N., University of Phoenix, 2006
- Bears, Lorraine E. (1999), Senior Lecturer, M.Tech., Kent State University, 2004
- Beck, Stacy J. (2008), Senior Lecturer, M.P.H., Kent State University, 2004
- Berlin, Kingsly T. (2013), Associate Lecturer, B.S., The Ohio State University, 2005
- Berndsen, Michelle (2024), Lecturer, M.S.N., Kent State University, 2019
- Blake, Robert M. (2003), Lecturer, M.S., Duke University, 1994
- Bonaduce, Samantha J. (2012), Associate Lecturer, M.S.N., Kent State University, 2015
- Brindley, Meghan A. (2023), Lecturer, M.Ed., University of Cincinnati, 2017
- Burkholder, Maria R. (2006), Senior Lecturer, B.S., The Ohio State University, 2001
- Burnworth, Christina M. (1995), Associate Lecturer, M.Tech., Kent State University, 2006
- Butler, Matt A. (2021), Lecturer, M.S., Case Western Reserve, 2010
- Cameron, Mary M. (2017), Associate Lecturer, B.S., Kent State University, 2013
- Carvalho, Carolyn J. (2004), Senior Lecturer, M.Tech., Kent State University, 2007
- Chen, Jie (2001), Professor, Ph.D., University of Wisconsin-Madison, 1993
- Courey, Tamra J. (1998), Associate Professor, D.N.P., Kent State University, 2014
- Cowling, Vanessa M. (2022), Lecturer, M.S.N, Post University, 2022
- Daniels, Martha E. (2010), Associate Professor, Ed.D., Walden University, 2008
- Darby, Benjamin (2013), Lecturer, M.Tech. , Kent State University, 2020
- DiPofi, Rhonda S. (2018), Associate Lecturer, M.S.N., Kent State University, 2018
- Douglass, Angela T. (2003), Senior Lecturer, M.S.N., Youngstown State University, 2003
- Dragomir, Kelly A. (2012), Senior Lecturer, M.A., Kent State University, 2018
- Emens, Susan (1993), Associate Professor, Ph.D., Trident University International, 2013
- Farag Mohamed Elshahat, Sheren E. (2021), Assistant Professor, Ph.D., University Of Seville, 2011
- Fritz, Timothy E. (2003), Associate Lecturer, M.Tech., Kent State University, 2017
- Ginal, Sharon L. (2006), Associate Lecturer, M.S.N., Ursuline College, 2002
- Golden, Shawn D. (2004), Associate Professor, Ph.D., Kent State University, 2014
- Gump, Traci L. (2016), Associate Lecturer, B.S., Ohio University, 2014
- Hancock, Darryl A. (2012), Associate Professor, Ph.D., Chatham College, 2008
- Harding, Mariann M. (2005), Professor, Ph.D., West Virginia University, 2013
- Hoffman, Susan C. (1983), Assistant Professor, M.B.A., Wheeling College, 1982
- Iagulli, Margie B. (1997), Senior Lecturer, M.Ed., Kent State University, 2002
- Inbanathan, Flavia Princess Nesamani (2023), Assistant Professor, Ph.D., Anna University, 2015
- Irfan, Mohammad A. (2024), Associate Professor, Ph.D., Case Western Reserve University, 1998
- Johnston, Kelly R. (2016), Associate Professor, D.V.M., The Ohio State University, 1992
- Kiphart, Tiffany M. (2002), Senior Lecturer, B.S., Wilmington College of Ohio, 1993
- Koptur, Turan E. (2007), Associate Lecturer, M.Tech., Kent State University, 2013
- Leija, Lynn M. (2005), Senior Lecturer, B.S., Ohio University, 1991
- Littles, La Toya R. (2020), Lecturer, M.S., Robert Morris University, 2003
- Long, Timothy R. (2024), Assistant Professor, D.B.A., New England College of Business and Finance, 2019
- Lowden, Doug M. (2025), Lecturer, M.S.N., Chamberlain University, 2022
- Mariano, Julia (2025), Lecturer, B.S., Kent State University, 2024
- Marshall, Shelley K. (1999), Associate Lecturer, M.Tech., Kent State University, 2008
- McCrea, Justin M. (2017), Lecturer, M.A., Savannah College of Art and Design, 2008
- Migliore, Heidi B. (2023), Lecturer, M.S.W., The Ohio State University, 2011
- Morgan, Donna D. (2016), Associate Lecturer, M.S.N., Kent State University, 2020

- Morris, Lora J. (2003), Associate Professor, M.S.N., Ursuline College, 2002
- Muscatello, Joseph R. (2004), Associate Professor, D.B.A., Cleveland State University, 2002
- Panthi, Dhruba (2016), Associate Professor, Ph.D., University of Tokyo, 2014
- Pate, Corey M. (2007), Associate Lecturer, M.A., Kent State University, 2005
- Peterson, Cynthia L. (1999), Senior Lecturer, M.P.H., Kent State University, 2008
- Pilc, Caitlyn J. (2024), Lecturer, M.S.N., Roberts Wesleyan College, 2020
- Rajagopal, Chitra P. (1993), Associate Professor, M.S., Youngstown State University, 1992
- Ratican, Sean P. (2018), Associate Professor, Ph.D., University Of The Cumberlands, 2019
- Reed, William E. (2022), Lecturer, M.S., Carnegie Mellon University, 2015
- Reed, William E. (2024), Associate Lecturer, M.S., Carnegie Mellon University, 2015
- Rempe, Rebecca D. (2010), Senior Lecturer, M.L.I.S., Kent State Unviersity, 2017
- Rodenhausen, Amy A. (2010), Senior Lecturer, M.Ed., Kent State University, 2014
- Rose, Stacy R. (2001), Associate Professor, M.S.N., Case Western Reserve University, 2000
- Sanguedolce, Kathleen (2024), Lecturer, M.S.N., Ohio University, 2022
- Schlosser, Elizabeth A. (1995), Associate Lecturer, B.S., Bowling Green State University, 1989
- Senita, Julie A. (2004), Associate Professor, Ph.D., Kent State University, 2017
- Senita-Saksa, Jenna R. (2021), Lecturer, B.S., Kent State University, 2020
- Shadduck, Margaret A. (2021), Associate Professor, Ph.D., Southern Illinois University School of Medicine, 1995
- Singer-Bare, Lori B. (2022), Lecturer, M.P.A., Upper Iowa University , 2020
- Spickler, Jamie L. (2019), Lecturer, M.S., Chamberlain College of Nursing-Addison, 2020
- Stefka, Shelly L. (2013), Associate Lecturer, M.S.N., Walden University-Baltimore, 2012
- Sustar, Amy K. (2014), Lecturer, B.S.N., Kent State University, 2004
- Swoboda, Kathy (2008), Associate Lecturer, L.S.M., Kent State University, 2011
- Totten, Christopher W. (2018), Associate Professor, M.Arch., Catholic University of America, 2009
- Tu, Tsunghui (2002), Associate Professor, Ph.D., Iowa State University, 2001
- Upole, Daryl G. (1992), Associate Lecturer, M.B.A., Cleveland State University, 1994
- Vanfossen, Jonathan S. (2007), Lecturer, M.Tech, Kent State University, 2009
- Warino, Shellie I. (2006), Lecturer, M.Ed., Kent State University, 2011
- Zampino, Anthony C. (1998), Associate Lecturer, M.Tech., Kent State University, 2003
- Zarzour, Richard (2019), Lecturer, M.S.N., University of Phoenix, 2014

College of Architecture and Environmental Design Faculty

- Adamtey, Simon (2016), Associate Professor, Ph.D., Indiana State University, 2016
- Bayramzadeh, Sara (2018), Associate Professor, Ph.D., University of Florida, 2015
- Bernal, Ivan A. (2018), Associate Professor, M.Arc., Southern California Institute of Architecture, 2011
- Bielak, Britta (2022), Assistant Professor, M.F.A., Virginia Commonwealth University, 2014
- Brandner, Sara K. (2010), Lecturer, M.Tech., Kent State University, 2018
- Coffman, Reid R. (2012), Professor
- Daniel, Ronn (2018), Associate Professor, M.Arch., University of Illinois at Chicago, 1994
- Davis-Sikora, Diane M. (1997), Professor, M.Arch., Harvard University Graduate & Professional School, 1995
- Fantoni, Marcello (2005), Professor
- Frederick, Charles M. (1996), Assistant Professor, M.L.A., University of Virginia-Main Campus, 1998
- Gunhan, Suat M. (2020), Professor, Ph.D., Illinois Institute of Technology, 2003
- Ho, Brendan T. (2019), Assistant Professor, M.Arc., Southern Calif Institute of Architecture, 2017
- Hughes, David (1985), Professor, M.U.P., New York City College of Technology, 1975
- Humphries, John (2022), Professor, M.F.A., Institute of Art and Design at New England College, 2022
- Jaminet, Jean J. (2017), Associate Professor, M.Arch., Princeton University, 2004
- Kim, Sung Ho H. (2023), Professor
- Lahrmer, Jill (2008), Associate Professor, B.A., Bowling Green University, 1999
- Liu, Rui (2013), Associate Professor, Ph.D., University of Colorado-Denver, 2010
- Lucak, Frederick W. (1986), Associate Professor, B.Arch., Kent State University, 1990
- Marshall, Cathy S. (2017), Associate Professor, M.L.A., Harvard University Graduate and Professional School, 2003
- Meshkani, Taraneh (2018), Assistant Professor, Harvard University Graduate & Professional School, 2016
- Mimms-Scavnicky, Kristen (2021), Assistant Professor, M.Arc., University of Cincinnati, 2014
- Mirando, Anthony M. (2013), Associate Professor, M.S., Colorado State University, 2014
- Mistur, Mark S. (2016), Professor
- Mosley, Paul L. (2022), Assistant Professor, M.A., University of Illinois at Chicago, 2017
- Nolte, Laure (2024), Visiting Assistant Professor
- Onsarigo, Lameck M. (2016), Associate Professor, Ph.D., Indiana State University, 2016
- Patel, Tina (2018), Associate Professor, M.F.A., Iowa State University , 2016
- Poustinchi, Mohammad Ebrahim (2017), Associate Professor, M.Arch., University of California-Los Angeles, 2014

- Robison, Elwin C. (1985), Professor, Ph.D., Cornell University, 1985
- Rugare, Steven N. (1993), Professor
- Safley, Robert N. (2018), Associate Professor, M.Arch., University of Michigan-Ann Arbor, 2013
- Sharag-Eldin, Adil M. (2002), Associate Professor, Ph.D., University of California-Berkeley, 1998
- Sosa Fontaine, Andrea-Louise (2020), Assistant Professor
- Stauffer, Thomas A. (1977), Professor, M.Arch., University of Pennsylvania, 1976
- Strand, Kathryn E. (2003), Associate Professor, M.Arch., University of Pennsylvania, 2003
- Stroh, Gregory S. (1998), Associate Professor, M.Arch., University of Pennsylvania, 1996
- Tippey, Brett D. (2012), Associate Professor, Ph.D., Universidad de Navarra, 2011
- Willoughby, William T. (2013), Associate Professor, M.A., Kent State University, 1991
- Wohl, Sharon (2023), Associate Professor
- Xiong, Ruoxin (2024), Assistant Professor, Ph.D., Carnegie Mellon University, 2024
- Yoder, Jon (2013), Associate Professor, Ph.D., University of California-Los Angeles, 2011

College of Arts and Sciences Faculty

Department of Africana Studies Faculty

- Crawford, Charmaine M. (2019), Associate Professor, Ph.D., York University, 2010
- Gooden, Amoaba (2005), Professor, Ph.D., Temple University, 2005
- Kumah-Abiwu, Felix (2015), Associate Professor
- Okantah, Mwatabu S. (1991), Professor, B.A., Kent State University, 1976
- Piccirillo-Smith, Linda A. (1983), Senior Lecturer, M.A., Kent State University, 1980
- Sunni-Ali, Asantewa (2016), Associate Professor
- Syed, Idris K. (1991), Professor, M.Ed., Kent State University, 2001

Department of Anthropology Faculty

- Bebber, Michelle R. (2019), Assistant Professor, Ph.D., Kent State University , 2019
- Cimino, Aldo N. (2021), Assistant Professor
- Edler, Melissa K. (1998), Assistant Professor, Ph.D., Kent State University, 2016
- Eren, Metin I. (2016), Professor, Ph.D., Southern Methodist University, 2011
- Lovejoy, C. Owen (1968), Distinguished Professor, Ph.D., University of Massachusetts, Amherst, 1970
- Meindl, Richard S. (1979), Professor, Ph.D., University of Massachusetts-Amherst, 1979
- Raghanti, Mary Ann (2000), Professor, Ph.D., Kent State University, 2007
- Spurlock, Linda B. (1993), Professor, Ph.D., Kent State University, 2001
- Stumpf-Carome, Jeanne M. (1994), Associate Professor, Ph.D., University of California, Berkeley, 1992
- Takeshita, Rafaela S. (2019), Associate Professor, D.Sc., Kyoto University, 2018
- Tosi, Anthony J. (2014), Associate Professor, Ph.D., Columbia University, 2000

Department of Biological Sciences Faculty

- Bade, Darren L. (2006), Associate Professor, Ph.D., University of Wisconsin, 2004
- Bagavandoss, Paul (1993), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1986
- Bahlai, Christine (2017), Associate Professor, Ph.D., University Of Guelph, 2012
- Bailey, Erin L. (2012), Associate Professor, Ph.D., Kent State University, 2001
- Bedont, Joseph L. (2023), Assistant Professor, Ph.D., The Johns Hopkins University, 2016
- Caldwell, Heather K. (2007), Professor, Ph.D., Georgia State University, 2004
- Chung, Wilson C. (2011), Associate Professor, Ph.D., University of Amsterdam, 2003
- Clements, Robert J. (1997), Associate Professor, Ph.D., Kent State University, 2004
- Costello, David M. (2014), Associate Professor, Ph.D., University of Notre Dame, 2010
- De Szalay, Ferenc A. (1997), Associate Professor, Ph.D., University of California-Berkeley, 1995
- Delorme, Thierry A. (2004), Associate Professor, Ph.D., University of Lyon, 1997
- Ding, Qunxing (2007), Associate Professor, Ph.D., Beijing University of Agriculture , 1994
- Eichler, Sarah E. (2019), Assistant Professor, Ph.D., University of Tennessee, Knoxville
- Eisermann, Kurtis (2002), Assistant Professor, Ph.D., Kent State University, 2011
- Engohang-Ndong, Jean (2010), Professor
- Gerbig, Donald G. (1996), Associate Professor, Ph.D., University of Tennessee-Knoxville, 1991
- Grafton, Brian W. (1994), Professor, Ph.D., Kent State University, 2004
- Groff, Chi-Hua (2009), Associate Professor, Ph.D., Wayne State University, 1997
- Gupta, Sanhita (2009), Professor, Ph.D., Case Western Reserve University, 1998
- Hamilton, Robert (2005), Associate Professor, Ph.D., Rutgers, State University of New Jersey, 2006
- Hegmann, Elda (2011), Associate Professor, Ph.D., Laval University, 2003
- Hoeh, Walter R. (1998), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1991
- Johnson, John D. (2007), Professor, Ph.D., University of Colorado-Boulder, 2002
- Kershner, Mark W. (1999), Associate Professor, Ph.D., The Ohio State University, 1998
- Kim, Min-Ho (2012), Associate Professor, Ph.D., University of Toledo, 2002
- Kim, Woo-Yang (2018), Associate Professor, Ph.D., University at Buffalo-SUNY, 2004
- Kinsman-Costello, Lauren E. (2013), Associate Professor, Ph.D., Michigan State University, 2012
- Kooijman, Edgar (1998), Professor, Ph.D., Utrecht University, 2006

- Koski, Gary K. (2010), Professor, Ph.D., Johns Hopkins University, 1995
- Kurokawa, Manabu (2017), Associate Professor, Ph.D., University of Massachusetts-Amherst, 2004
- Lamichhaney, Sangeet (2019), Assistant Professor, Ph.D., Uppsala University, 2016
- Leff, Adam A. (1994), Associate Professor, D.V.M., University of Georgia, 1991
- Leff, Laura G. (1994), Professor, Ph.D., University of Georgia, 1992
- Lehman, Michael N. (2019), Professor
- Lehnert, Matthew S. (2012), Professor, Ph.D., University of Florida, 2010
- Lovell, John A. (1995), Associate Professor, Ph.D., Kent State University, 1993
- McDonough, Jennifer A. (2006), Associate Professor
- Meek, Leah M. (1995), Senior Lecturer, Youngstown State University
- Mintz, Eric M. (2002), Professor, Ph.D., University of California-Santa Cruz, 1995
- Model, Michael A. (2004), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1995
- Moore, Aleisha M. (2019), Assistant Professor, Ph.D., University of Otago, 2015
- Mou, Xiaozhen (2008), Professor, Ph.D., University of Georgia, 2006
- Mueller, Devin (2018), Professor, Ph.D., Concordia University, 2005
- Novak-Barnett, Colleen M. (2009), Professor, Ph.D., Michigan State University, 1999
- Piet, Richard (2019), Assistant Professor, Univ De Bordeaux, 2003
- Piontkivska, Olena (2005), Professor, Ph.D., Pennsylvania State University, 2003
- Popescu, Daniela C. (2013), Associate Professor, Ph.D., Vanderbilt University, 2006
- Qutob, Dinah S. (2018), Assistant Professor, Ph.D., University Of Western Ontario, 2002
- Redfearn, James C. (2006), Associate Professor, Ph.D., Kent State University, 2016
- Rocha, Oscar J. (2004), Professor, Ph.D., Penn State University, 1990
- Russell, Mary A. (2003), Professor, Ph.D., The Ohio State University, 1996
- Smith, Gregory A. (2014), Associate Professor, Ph.D., University of Oklahoma, 2007
- Steele, Louise (2012), Associate Professor, Ph.D., Case Western Reserve University, 2002
- Stone, Jonathan F. (2003), Associate Professor, B.S., University of Akron, 1985
- Trevelline, Brian (2023), Assistant Professor, Ph.D., Duquesne University, 2017
- Vash, Sarah R. (2004), Senior Lecturer, M.S., Kent State University, 2003
- Veney, Sean L. (2004), Associate Professor, Ph.D., University of Virginia-Main Campus, 2000
- Ward, David (2015), Professor, Ph.D., University of KwaZulu-Natal, 1988
- Zhu, Haiyan (2010), Associate Professor, Ph.D., University of Kentucky, 2006

Department of Chemistry and Biochemistry Faculty

- Abeysirigunawardena, Sanjaya C. (2015), Associate Professor, Ph.D., Wayne State University, 2008
- Abraham, Ann C. (2004), Associate Professor, Ph.D., University of Pittsburgh, 1983
- Bowers, David J. (2013), Associate Professor
- Bunge, Scott D. (2004), Associate Professor, Ph.D., Georgia Institute of Technology, 2001
- Burns, Andrew (1994), Professor, Ph.D., Brown University, 1990
- Cubon-Bell, Valerie A. (2010), Professor, Ph.D., Princeton University, 2008
- Datta, Bansidhar (2000), Associate Professor, University of Nebraska-Lincoln, 1989
- Dunietz, Barry (2012), Professor
- Ekanayake, Sujeewani K. (2012), Professor
- Fenk, Christopher J. (1990), Professor, Ph.D., University of Pittsburgh, 1987
- Fouad, Farid S. (2008), Professor, Ph.D., Northeastern University, 2003
- Friedrich, Dirk (2016), Associate Professor, Ph.D., Universitat Leipzig, 2013
- Goncalves Schmidt, Diana P. (2019), Assistant Professor
- Hegmann, Torsten (2011), Professor , Ph.D., Martin Luther University, 2001
- Huang, Songping D. (1998), Professor, Ph.D., Michigan State University, 1993
- Konar, Arkaprabha (2019), Assistant Professor, 2019, Michigan State University, 2015
- Leslie, Margaret R. (2004), Professor, Ph.D., Rhodes University, 1995
- Mao, Hanbin (2005), Professor, Ph.D., Texas A&M University, 2003
- Mighion, Jeffrey D. (2017), Assistant Professor, Ph.D., Princeton University, 2014
- Motry, Douglas H. (1996), Associate Professor, Ph.D., Michigan State University, 1996
- Pal Chaudhuri, Urmila (2008), Associate Professor, Ph.D., Indian Institute of Technology Madras, 2004
- Perera, Roshinee S. (2013), Associate Professor, Ph.D., University of Akron, 2011
- Prevot, Marianne (2016), Assistant Professor
- Seed, Alexander J. (1996), Associate Professor, Ph.D., University Of Hull
- Shen, Hao (2018), Assistant Professor, Ph.D., Cornell University, 2015
- Subramanian, Pritha (2006), Associate Professor, Ph.D., Kent State University, 2013
- Tandon, Santokh S. (2004), Professor, Ph.D., Guru Nanak Dev University, 1979
- Tubergen, Michael J. (1995), Professor, Ph.D., University of Chicago, 1991
- Wang, Zhiqiang (2007), Professor, Fudan University, 2000
- Zheng, Yaorong (2015), Associate Professor, Ph.D., University of Utah, 2011

Department of Computer Science Faculty

- Allouzi, Maha A. (2013), Associate Professor, Ph.D., Kent State University, 2022
- Bansal, Arvind K. (1988), Professor, Ph.D., Case Western Reserve University, 1985

- Bektic, Meldin (2024), Lecturer, B.S., Kent State University, 2021
- Bhati, Deepshikha (2017), Lecturer, Uttar Pradesh Tech University, 2016
- Chae, Younghun (2016), Associate Professor, Ph.D., University of Rhode Island, 2017
- DeLozier, Gregory S. (2014), Associate Professor
- Dragan, Feodor F. (2000), Professor, Ph.D., Belarus State University
- Guan, Qiang (2018), Associate Professor, M.S., University of North Texas, 2008
- Guercio, Angela (1999), Associate Professor, Ph.D., Kent State University, 2004
- Hasan, Md Raiful (2023), Assistant Professor
- Jin, Ruoming (2005), Professor, Ph.D., The Ohio State University, 2001
- Khan, Javed I. (1997), Professor , Ph.D., University of Hawaii-Manoa, 1995
- Kim, JungYoon (2019), Associate Professor, Ph.D., Penn State University, 2014
- Kim, Kwangtaek (2019), Associate Professor, Ph.D., Purdue University, 2010
- Kim, Jong-Hoon (2017), Associate Professor
- Lian, Xiang (2016), Associate Professor, Ph.D., Hong Kong University Of Science and Technology, 2009
- Maletic, Jonathan I. (2001), Professor, Ph.D., Wayne State University, 1995
- Nesterenko, Mikhail (1998), Professor, Ph.D., Kansas State University, 1998
- Peyravi, Hassan M. (1985), Professor, Ph.D., University of Oklahoma, 1995
- Samba, Augustine S. (2001), Professor, Ph.D., University of Liverpool, 1983
- Sharma, Gokarna (2015), Associate Professor, Ph.D., Louisiana State University, 2014
- Villalobos Herrera, Giovanni (2024), Lecturer, Tech Institute of Costa Rica, 2019
- Xu, Lei (2022), Assistant Professor, Chinese Academy Of Science, 2011
- Zhao, Ye (2006), Professor, Ph.D., State University of New York, Stony Brook, 2006

Department of Earth Sciences Faculty

- Clement, Susanne M. (1995), Professor, Ph.D., Kent State University, 2005
- Gallagher, Timothy M. (2020), Assistant Professor, Ph.D., University of Michigan, 2016
- Hacker, David B. (1989), Professor, Ph.D., Kent State University, 1998
- Holm, Daniel K. (1992), Professor, Ph.D., Harvard University, 1992
- Ortiz, Joseph D. (2001), Professor, Ph.D., Oregon State University, 1995
- Schweitzer, Carrie E. (1994), Professor, Ph.D., Kent State University, 2000
- Singer, David M. (2012), Associate Professor, Ph.D., Stanford University, 2008
- Singh, Kuldeep (2017), Assistant Professor, Ph.D., University of Texas at Austin, 2013
- Smith, Alison J. (1990), Professor, Ph.D., Brown University, 1991
- Taylor, Eric S. (2012), Professor, Ph.D., The Ohio State University, 2012
- Tessin, Allyson (2020), Assistant Professor, Ph.D, University of Michigan-Ann Arbor, 2016
- Wagner, Courtney L. (2024), Assistant Professor, Ph.D., University Of Utah, 2021
- Wells, Neil A. (1984), Professor, Ph.D., University of Michigan-Ann Arbor, 1984

Department of English Faculty

- Abuzeid, Ayham (2007), Associate Lecturer, M.A., Kent State University, 2010
- Ailiesei, Sorina M. (2013), Assistant Professor, Ph.D., Babes - Bolyai University, 2012
- Baker, Alexis M. (2017), Associate Professor, Ph.D., Kent State University, 2016
- Behney, Jennifer (2024), Associate Professor, Ph.D., Michigan State University, 2011
- Bowles, Noelle K. (2001), Associate Professor, Ph.D., University of Miami, 1996
- Bracher, Mark F. (1985), Professor, Ph.D., Vanderbilt University, 1981
- Brodsky, Adam H. (2008), Senior Lecturer, M.A., Kent State University, 2011
- Byrne, Peter M. (2008), Associate Professor, Ph.D., University of California, Irvine, 2004
- Canacci, James E. (1995), Senior Lecturer, M.A., Youngstown State University, 1995
- Christen-Syed, Shannon L. (2010), Associate Lecturer, M.A., Kent State University, 2004
- Clewell, Tammy (2000), Professor, Ph.D., Florida State University, 2000
- Cunningham, Jennifer M. (2009), Professor, Ph.D., Kent State University, 2012
- Dallacheisa, Tony G. (2008), Associate Lecturer, M.A., Ohio University, 2008
- Dauterich, Edward (1997), Professor, Ph.D., Kent State University, 2006
- Davis Patterson, Kathy S. (2000), Associate Professor, Ph.D., The Ohio State University, 1999
- Devore, Elizabeth E. (2010), Senior Lecturer, M.A., New Mexico Highlands University, 2009
- Dugas, Don-John (2005), Professor, Ph.D., Penn State University, 1999
- Dunmire, Patricia L. (1995), Professor, Ph.D., Carnegie Mellon University, 1995
- Elder, Dolores M. (2009), Associate Lecturer, M.A., Kent State University, 2010
- Ellis, Marnie K. (2003), Associate Lecturer, M.F.A., Bowling Green State University, 1999
- Erritouni, Ali (2005), Associate Professor, Ph.D., University of Miami, 2004
- Faller, Patrick M. (2011), Lecturer, M.F.A., West Virginia University-Morgantown, 2010
- Hall, Elizabeth A. (2011), Lecturer, M.A., University of Akron, 2017
- Harrington, Kristine (2016), Associate Lecturer, M.A., Youngstown State University, 1995
- Hayes, Amanda (2016), Associate Professor, Ph.D., Ohio University, 2015
- Hediger, Ryan R. (2011), Professor, Ph.D., University of Oregon, 2005
- Hendrickx, Jessy A. (2015), Associate Lecturer, M.A., Kent State University, 2002

- Hricko, Mary F. (1994), Professor , Ph.D., Kent State University, 2004
- Huot, Brian A. (2004), Professor, Ph.D., Indiana University of Pennsylvania, 1988
- Jones, Jessica M. (2016), Associate Lecturer, University Of Montana, 2014
- King, Robert J. (1998), Professor, M.F.A., Indiana University-Bloomington, 1998
- Krishnan, Uma S. (2001), Professor, Ph.D., Kent State University, 2014
- Lieske, Pamela J. (1997), Professor, Ph.D., University of Massachusetts, Amherst, 1996
- Lloyd, Keith S. (2002), Professor, Ph.D., University of Louisville, 1996
- Lyons, Janet L. (2010), Associate Lecturer, M.A., Kent State University, 2011
- Lyons, Jo-Leigh (1991), Senior Lecturer, M.A., Kent State University, 1996
- M'baye, Babacar (2006), Professor, Ph.D., Bowling Green State University, 2002
- MacLure, Jennifer (2017), Associate Professor, Ph.D., University of Wisconsin, Madison, 2017
- Martinez, Ann M. (2014), Associate Professor, Ph.D., University of Kansas, 2014
- Mechenbier, Mahli X. (1996), Senior Lecturer, J.D., University of Akron, 2002
- Miller, Ryan T. (2014), Professor, Ph.D., Carnegie Mellon University, 2013
- Mokros, Molly M. (2009), Associate Lecturer, M.A., New York University, 2002
- Neaderhiser, Stephen E. (2009), Associate Professor, M.A., University of Kansas, 2004
- Orr, Katherine M. (1990), Professor, Ph.D., Kent State University, 2010
- Patterson, G. R. (2018), Associate Professor, Ph.D., Miami University, 2013
- Raabe, Wesley (2008), Associate Professor, Ph.D., University of Virginia, Main Campus, 2006
- Remley, Dirk R. (1990), Professor, Ph.D., Kent State University, 2010
- Rilling, Sarah E. (2002), Professor, Ph.D., Northern Arizona University, 1998
- Robinson, Carol L. (2000), Professor, Ph.D., University of Georgia, 1994
- Roman, Christopher M. (1997), Professor, Ph.D., University of Alabama, 2004
- Rooks, Mary A. (2005), Assistant Professor, Ph.D., University of Mexico, 2004
- Rozner, Debbie L. (2010), Professor, M.Ed., George Washington University, 2004
- Sainato, Susan M. (1987), Professor, Ph.D., Kent State University, 2002
- Sanders, Michael T. (1995), Associate Professor, Ph.D., Kent State University, 2006
- Schauffler, Charlene M. (1991), Senior Lecturer, M.A., Kent State University, 1994
- Shaker, Bonnie J. (2013), Associate Professor, Ph.D., Case Western Reserve University, 1998
- Shank, Matthew A. (1983), Senior Lecturer, M.A., University of Akron, 1982
- Smith, Jeanne R. (1998), Senior Lecturer, M.A., State University of New York, Binghamton, 1986
- Sturr, Robert D. (1997), Associate Professor, Ph.D., University of Southern California, 1998
- Swick-Higgins, Chelsea R. (2010), Lecturer
- Takayoshi, Pamela D. (2004), Professor, Ph.D., Indiana University, Purdue University Indianapolis, 1995
- Tognazzini, Anthony C. (2023), Assistant Professor, M.F.A., Indiana University Bloomington, 2002
- Trogdon, Robert W. (1997), Professor, Ph.D., University of South Carolina-Columbia, 1996
- Uhrig, Mindy D. (2006), Senior Lecturer, M.A., University of Indiana, Bloomington, 1994
- Van Ittersum, Derek (2008), Professor, Ph.D., University of Illinois-Urbana, 2008
- Vogel, Lauren A. (2001), Associate Professor, M.A., Kent State University, 2005
- Wagoner, Elizabeth A. (2004), Assistant Professor, Ph.D., Kent State University, 2014
- Wetzl, Ana M. (2007), Professor, Ph.D., Indiana University of Pennsylvania, 2011
- Whiteleather, Hagan F. (2012), Assistant Professor, M.F.A., Iowa State University, 2019
- Willey, Nicole L. (1997), Professor, Ph.D., University of Alabama, 2003
- Wing, Catherine (2010), Associate Professor, M.F.A., University of Washington, 2004
- Winkler, Kyle M. (2018), Associate Professor, Ph.D., University of Pittsburgh, 2018
- Winter, James P. (2008), Associate Professor, M.F.A., Kent State University, 2012
- Wollenzier, Michele M. (2005), Associate Lecturer, M.A.T., Kent State University, 2003

Department of Geography Faculty

- Amey, Katherine S. (2009), Professor, Ph.D., Kent State University, 2011
- Bitterman, Patrick J. (2024), Assistant Professor, Ph.D., University Of Iowa, 2017
- Kaplan, David H. (1995), Professor, Ph.D., University of Wisconsin-Madison, 1991
- Lee, Cameron C. (2008), Associate Professor, Ph.D., Kent State University, 2014
- Mapes, Jennifer E. (2012), Assistant Professor, Ph.D., University of Southern California, 2009
- Munro-Stasiuk, Mandy J. (1999), Professor, Ph.D., University of Alberta, 1999
- Parylak, Rebecca P. (2008), Professor, Ph.D., Texas State University, San Marcos, 2010
- Post, Christopher (2008), Professor, Ph.D., University of Kansas, 2006
- Scholl, Andrew E. (2013), Assistant Professor, Ph.D., Penn State University, 2008
- Sheridan, Scott C. (2000), Professor, Ph.D., University of Delaware, 2000
- Smiley, Sarah L. (2010), Professor, Ph.D., University Of Kansas, 2007
- Tyner, James A. (1997), Professor, Ph.D., University of Southern California, 1995
- Ward, Aimee L. (2020), Assistant Professor, Ph.D., University of Otago, 2018

- Widner, Emariana S. (2009), Professor, Ph.D., Texas State University, 2009
- Yin, He (2019), Assistant Professor

Department of History Faculty

- Adams, Kevin J. (2006), Associate Professor, Ph.D., University of California-Berkeley, 2004
- Bindas, Kenneth J. (1995), Professor, Ph.D., University of Toledo, 1988
- Crawford, Matthew J. (2009), Associate Professor, Ph.D., University of California, San Diego, 2009
- Diacon, Todd A. (2012), Professor, Ph.D., University of Wisconsin-Madison, 1987
- Gruenwald, Kim M. (1995), Associate Professor, Ph.D., University of Colorado, Boulder, 1994
- Hartline, Todd A. (1992), Associate Professor, Ph.D., Kent State University, 2006
- Hayashi, Brian M. (2016), Professor, Ph.D., University of California-Los Angeles, 1990
- Heaphy, Leslie A. (1995), Associate Professor, Ph.D., University of Toledo, 1995
- Heiss, Mary A. (1992), Professor, Ph.D., The Ohio State University, 1991
- Keefer, Bradley S. (1987), Associate Professor, Ph.D., Kent State University, 2006
- Li, Hongshan (1993), Professor, Ph.D., University of Missouri, Columbia, 1992
- Menning, Ralph R. (2006), Assistant Professor, Ph.D., Brown University, 1986
- Ostrum, Nicholas (2023), Assistant Professor, Ph.D., Stony Brook University-SUNY, 2017
- Parsons, Elaine (2017), Professor, Ph.D., Johns Hopkins University, 2000
- Scarnecchia, Timothy L. (2007), Professor, Ph.D., University of Michigan, 1994
- Seelye, James E. (2010), Associate Professor, Ph.D., University of Toledo, 2010
- Sergi, Molly M. (1991), Professor, Ph.D., Kent State University, 2015
- Smith, Elizabeth M. (2001), Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2001
- Starkey, Lindsay J. (2012), Associate Professor, Ph.D., University of Wisconsin, Madison, 2012
- Steigmann-Gall, Richard A. (2000), Associate Professor, Ph.D., University of Toronto, 1999
- Strate, Shane (2013), Associate Professor, Ph.D., University of Wisconsin, Madison, 2009
- Wamsley, E. Sue S. (2005), Associate Professor, Ph.D., The Ohio State University, 1998

Department of Mathematical Sciences Faculty

- Adams, Lynn (2007), Senior Lecturer, M.S., University of Akron, 2007
- Al-Niemi, Fearase (2024), University of Akron
- Alexopoulos, John K. (1994), Associate Professor, Ph.D., Kent State University, 1992
- Allen, Aaron C. (2014), Lecturer, B.S., Rensselaer Polytechnic Institute , 2011
- Allouba, Hassan A. (2002), Associate Professor, Ph.D., Cornell University, 1996
- Altobelli, Joseph A. (1997), Associate Professor, Ph.D., The Ohio State University, 1996
- Andaloro, Paul J. (1994), Assistant Professor, Ph.D., The Ohio State University, 1989
- Andriyevskyy, Volodymyr (2000), Professor, Ph.D., Institute of Mathematics of Ukrainian Academy of Sciences, 1986
- Arokiasamy, Daisy Malini (2015), Lecturer, M.S., Kent State University, 2016
- Barb, Cynthia M. (1990), Associate Professor, Ph.D., Kent State University, 1997
- Benjamin, Judy I. (2002), Assistant Professor, Ph.D., Kent State University, 2022
- Chebotar, Mikhail (2006), Professor, Ph.D., Moscow State University, 1999
- Clos, Timothy G. (2020), Assistant Professor, Ph.D., University of Toledo, 2017
- Das, Lovejoy S. (1989), Professor, Ph.D., University of Lucknow, 1979
- Davidson, Morley A. (1996), Associate Professor, Ph.D., University of Michigan, 1995
- de la Cruz Cabrera, Omar (2016), Associate Professor
- Dhaher, Yaser Y. (1989), Professor, Ph.D., Kent State University, 2007
- Dinh, Hai Q. (2004), Professor, Ph.D., Ohio University, 2003
- Dunlap, Laurie A. (2021), Associate Professor, Ph.D., University of Cincinnati, 2005
- Fesli, Emily E. (2021), Lecturer, M.S., Cleveland State University, 2021
- Gordon, Peter (2017), Associate Professor, Ph.D., Moscow University, 1999
- He, Min (1995), Professor, Ph.D., Southern Illinois University-Carbondale, 1994
- Hovhannisyan, Gro (2003), Professor, Ph.D., Yerevan State University, 1990
- Jahangiri, Jay M. (1994), Professor, Ph.D., University of York, 1986
- Jiafeng, Jin (2014), Lecturer, Ph.D., Kent State University, 2024
- Kasturiarachi, Aloysius B. (1995), Associate Professor, Ph.D., University of North Carolina-Charlotte, 1993
- Khan, Mohammad K. (1981), Professor, Ph.D., Case Western Reserve University, 1980
- Kover, Janice S. (1996), Associate Professor, Ph.D., Kent State University, 2001
- Kracht, Darci L. (1984), Professor, Ph.D., Kent State University, 2011
- Kratky, Joseph J. (2005), Associate Lecturer, M.S., Kent State University, 2011
- Laux, Tracy A. (1990), Senior Lecturer, B.S., Kent State University, 1990
- Law, Chelsea C. (2021), Associate Lecturer, M.S., Clemson University, 2012
- Lewis, Mark L. (1996), Professor, Ph.D., University of Wisconsin-Madison, 1995
- Li, Jing (2003), Associate Professor, Ph.D., New York University, 2002
- Li, Jun (2013), Associate Professor, Ph.D., Iowa State University, 2013
- Lochmueller, Kerri K. (2005), Associate Lecturer, M.S., Youngstown State University, 2008
- Meinke, Ashley M. (2009), Lecturer, M.S., Kent State University, 2011
- Miller, Robert L. (2021), Lecturer, M.S., Miami University, 2006
- Mocioalca, Oana (2004), Associate Professor, Ph.D., University of Florida, 2002

- Mulqueeny, Ellen S. (2005), Professor, M.S., Cleveland State University, 1993
- Najafi, Mahmoud (1995), Professor, Ph.D., Wichita State University, 1994
- Nazarov, Fedor L. (2011), Professor, M.S., Youngstown State University, 1990
- Neal, Todd A. (2010), Assistant Professor, Ph.D., University of Alabama, 2016
- Ngunkeng, Grace (2021), Associate Professor, Ph.D., Bowling Green State University, 2013
- Osikiewicz, Beth-Allyn (1994), Associate Professor, Ph.D., Kent State University, 2000
- Osikiewicz, Jeffrey A. (1990), Associate Professor, Ph.D., Kent State University, 1997
- Palffy-Muhoray, Peter (1987), Professor
- Palocyi, Frank J. (1991), Associate Lecturer, M.S., Youngstown State University, 1990
- Perera, Vicumpriya S. (1998), Associate Professor, Ph.D., Purdue University, 1993
- Pham, Tuyet D. (1988), Senior Lecturer, M.S., University of Akron, 1988
- Rajaram, Rajeev (2008), Professor, Ph.D., Iowa State University, 2005
- Reed, Beverly M. (1986), Professor, Ph.D., Kent State University, 2007
- Reichel, Lothar (1991), Professor, Ph.D., University of Stockholm, 1982
- Ritchey, Nathan P. (2016), Professor
- Ruff, Oliver (2009), Associate Professor, Ph.D., University of Oregon, 2002
- Ryabogin, Dmitry (2007), Professor, Ph.D., University of Jerusalem, 2001
- Sarver, Michael W. (2021), Associate Professor, Ph.D., Bowling Green State University, 2006
- Schmalzried, Robert J. (2017), Associate Lecturer, M.S.Ed., Youngstown State University, 2004
- Smithies, Laura A. (1997), Associate Professor, Ph.D., University of Utah, 1997
- Soprunova, Evgenia (2007), Professor, Ph.D., University of Toronto, 2002
- Spalsbury, Angela S. (2018), Associate Professor, Ph.D., Kent State University, 1996
- Stadden, Jared M. (2013), Associate Lecturer, M.B.A., Kent State University, 2012
- Taha, Nader F. (1990), Senior Lecturer, M.S., Tennessee State University, 1989
- Trehan, Dawn M. (2019), Assistant Professor, M.S., Case Western Reserve, 1996
- Tsai, Tsung-Heng (2019), Associate Professor, Ph.D., Virginia Tech, 2014
- Vezvaei, Mahbobeh (1983), Professor, Ph.D., Case Western Reserve University, 1987
- Vorhauer, Ulrike M. (2001), Associate Professor, Ph.D., University of Ulm, 1996
- Wakita, Hideki (1998), Senior Lecturer, M.A., Kent State University, 2002
- White, Donald L. (1989), Professor, Ph.D., Yale University, 1987
- Wright, Brian M. (1998), Associate Professor, Ph.D., Kent State University, 2007
- Yeon, Hyemin (2024), Assistant Professor, Ph.D., Iowa State University, 2023
- Yu, Gang (2006), Associate Professor, Ed.D., University of Georgia, 2000
- Zheng, Xiaoyu (2006), Professor, Ph.D., University of North Carolina-Chapel Hill, 2006
- Zvavitch, Artem (2004), Professor, Ph.D., Weizmann Institute of Science, 2002

Department of Modern and Classical Language Studies Faculty

- Baer, Brian J. (1996), Professor, Ph.D., Yale University, 1996
- Bilali, Loubna (2008), Associate Professor, Ph.D., Kent State University, 2018
- Brett-Paez, Maria C. (2009), Associate Lecturer, M.A., Kent State Unviersity, 2013
- Carduner, Jessie (1998), Associate Professor, Ph.D., University of Pittsburgh, 1998
- Carl, Michael (2018), Professor, Ph.D., Kent State University
- Castaneda-Vise, Daniel A. (2007), Professor, Ph.D., West Virginia University, 2007
- Chism, Rebecca L. (1999), Associate Professor, Ph.D., Florida State University, 2000
- De Julio, MaryAnn (1986), Professor, Ph.D., University of Iowa, 1979
- Dunne, Keiran J. (2000), Professor, Ph.D., Pennsylvania State University, 2000
- Dzero, Irina (2010), Assistant Professor, Yale University, 2009
- Ehrman, Radd K. (1982), Professor, Ph.D., University of Illinois-Chicago, 1982
- Gallagher, Patrick L. (2001), Associate Professor, Ph.D., University of Iowa, 1997
- Gee, Jacqueline L. (2009), Lecturer, M.Ed., Kent State University, 2016
- Hall, Jennifer E. (2008), Lecturer, M.Ed., University of Akron, 2015
- Harvey, Brian K. (1999), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1998
- Harvey, Sarah M. (2001), Professor, Ph.D., University of Michigan, Ann Arbor, 1999
- Hermosilla, Luis G. (1994), Associate Professor, Ph.D., The Ohio State University, 1994
- Kish-Leland, Farah (2009), Lecturer, B.A., Kent State University, 2012
- Koby, Geoffrey S. (1994), Professor, Ph.D., University of Wisconsin, Madison, 1992
- Lacruz, Isabel (1998), Professor, Ph.D., Kent State University, 2005
- Larson, Jennifer L. (1992), Professor, Ph.D., University of Wisconsin-Madison, 1992
- Lemley, Lauren (2013), Lecturer, M.Ed., Kent State University, 2021
- Mirkin-McGee, Lori L. (1995), Associate Lecturer, M.A., Kent State Unviersity, 1997
- Nehring, Lawrence J. (2008), Associate Lecturer, M.S., University of Rochester, 1991
- Riclet, Aurelien (2022), Lecturer
- Rivera, Olga I. (1999), Professor, Ph.D., The Ohio State University, 1998
- Roberts, Trask P. (2022), Assistant Professor, Ph.D., University Of Pennsylvania, 2022
- Romero-Gonzalez, Mariana (2009), Associate Lecturer, M.A., Kent State University, 2012

- Rossoll, Hildegard M. (1988), Associate Professor, Ph.D., Washington University in St. Louis, 1991
- Sato, Paula K. (2009), Associate Professor, Ph.D., University Of Virginia-Main Campus, 2008
- Shiyab, Said M. (2014), Professor
- Shuman, Mason P. (2005), Associate Lecturer, M.A., Kent State University, 2006
- Siciarz, Stephanie J. (2012), Associate Lecturer, M.A., Johns Hopkins University, 2007
- Song, Yumei (2018), Assistant Professor, Kyoto University, 2017
- Stahler, Bethany C. (2009), Lecturer, M.Ed., Kent State University, 2020
- Stasiowski, Kristin (2013), Assistant Professor
- Talentino, Kimberly L. (2007), Associate Lecturer, M.A., Kent State University, 1991
- Tanaka, Eriko (2010), Associate Lecturer, M.A., Bowling Green State University, 2001
- Trzeciak Huss, Joanna (2006), Professor, Ph.D., University Of Chicago
- Vickery, Steve C. (1997), Lecturer, B.A., Kent State University, 1998
- Villa-Ignacio, Teresa (2022), Associate Professor, Ph.D., Brown University, 2010
- Washbourne, Richard K. (2003), Professor, Ph.D., University of Massachusetts-Amherst, 2002
- Yu, Hui (2012), Associate Lecturer
- Zaldivar, Maria E. (2007), Professor, Ph.D., Pennsylvania State University, 1991

Department of Philosophy Faculty

- Barnbaum, Deborah R. (1997), Professor, Ph.D., University of Massachusetts-Amherst, 1996
- Byron, Michael B. (1997), Professor, Ph.D., University of Notre Dame, 1996
- Coate, Matthew B. (2015), Assistant Professor, Ph.D., Stony Brook University, 2015
- Garchar, Kimberly K. (2008), Associate Professor, Ph.D., University of Oregon, 2006
- Palmer, Daniel E. (2001), Associate Professor, Ph.D., Purdue University, 2000
- Pereplyotchik, David (2013), Associate Professor, Ph.D., City University of New York Graduate Center, 2012
- Ryan, Frank X. (1997), Associate Professor, Ph.D., Emory University, 1996
- Smith, Deborah C. (1997), Professor, Ph.D., University of Washington, 2003
- Zavota, Gina (2003), Professor, Ph.D., State University of New York-Stony Brook, 2003

Department of Physics Faculty

- Antocheviz Dexheimer Strickland, Veronica A. (2013), Associate Professor, Ph.D., Goethe Universitat, 2009
- Balci, Hamza (2009), Professor, Ph.D., University of Maryland, 2004
- Bos, Philip J. (1994), Professor, Ph.D., Kent State University, 1978
- Driscoll, Donald D. (2007), Associate Professor, Ph.D., Case Western Reserve University, 2004
- Dzero, Maxim (2010), Professor
- Ellman, Brett D. (1997), Associate Professor, Ph.D., University of Chicago, 1993
- Fregoso, Benjamin (2017), Associate Professor, University of Illinois-Urbana, 2010
- Gleeson, James T. (1997), Professor, Ph.D., Kent State University, 1991
- Jakli, Antal I. (1989), Professor, Ph.D., University Of Budapest, 1988
- Katramatou, A. Mina T. (1996), Professor, Ph.D., American University, 1988
- Keane, Declan F. (1988), Professor, Ph.D., University College of Dublin
- Lavrentovich, Oleg D. (1992), Trustees Research Professor, Kiev University, 1990
- Li, Ran (2007), Associate Professor, Ph.D., Southern Illinois University, Carbondale, 2007
- Mann, Elizabeth K. (1998), Professor, Ph.D., University of Paris, 1992
- Minnick, Stephen A. (2003), Professor, Ph.D., Pennsylvania State University, 2003
- Petratos, Gerassimos G. (1994), Professor, Ph.D., American University, 1988
- Polak, Robert D. (2022), Associate Professor
- Portman, John J. (2003), Professor, Ph.D., University of Illinois-Urbana, 2000
- Quader, Khandker F. (1990), Professor, Ph.D., State University of New York-Stony Brook, 1983
- Schmidt, Thorsten-Lars (2019), Associate Professor
- Schroeder, Almut (2001), Associate Professor
- Selinger, Jonathan V. (2005), Professor, Ph.D., Harvard College, 1989
- Selinger, Robin L. (2005), Professor, Ph.D., Harvard College, 1989
- Sprunt, Samuel N. (1995), Professor, Ph.D., Massachusetts Institute of Technology, 1989
- Vanfossen, Joseph A. (2004), Associate Professor, Ph.D., Kent State University, 2017
- Yang, Deng-Ke (1989), Professor, Ph.D., University of Hawaii at Manoa, 1989
- Yokoyama, Hiroshi (2009), Professor, Ph.D., Tokyo International University, 1987

Department of Political Science Faculty

- Ayres, William R. (2022), Professor
- Banks, Christopher P. (2006), Professor, Ph.D., University of Virginia, 1995
- Carbonell, Joel R. (2007), Associate Professor, Ph.D., University of California, Riverside, 2007
- Cassell, Mark K. (1998), Professor, Ph.D., University of Wisconsin-Madison, 1998
- Chand, Daniel E. (2016), Associate Professor
- Claassen, Ryan L. (2005), Professor, Ph.D., University of California-Davis, 2005
- Dzordzormenyoh, Michael K. (2022), Assistant Professor, Ph.D., University Of South Dakota, 2019
- Ensley, Michael J. (2009), Professor, Ph.D., Duke University, 2002
- Hawes, Daniel P. (2008), Professor, Ph.D., Texas A&M University, Main Campus, 2008
- McLaughlin, Danielle (2022), Assistant Professor, Ph.D., University of Cincinnati, 2021
- Miller, Patrick R. (2023), Associate Professor, Ph.D., University of North Carolina-Chapel Hill, 2010
- Molina, Anthony D. (2013), Associate Professor, Ph.D., Cleveland State University, 2004

- Paar-Jakli, Gabriella (1991), Associate Professor, Ph.D., Kent State University, 2010
- Schmidt, Sarah (2015), Assistant Professor, Ph.D., Kent State University, 2023

Department of Psychological Sciences Faculty

- Black, Sarah R. (2023), Assistant Professor, Ph.D., Stony Brook University, 2015
- Blasiman, Rachael N. (2010), Associate Professor, Ph.D., Case Western Reserve University, 2010
- Casto, Kathleen V. (2023), Assistant Professor, Ph.D., Emory University, 2016
- Ciesla, Jeffrey (2007), Associate Professor, Ph.D., University at Albany-SUNY, 2004
- Ciesla, Shannon N. (2007), Associate Professor, Ph.D., Kent State University, 2013
- Coifman, Karin G. (2010), Professor, Ph.D., Columbia University, 2008
- Cremeans-Smith, Julie K. (1998), Professor, Ph.D., Kent State University, 2004
- Delahanty, Douglas L. (1997), Professor, Ph.D., University of Pittsburgh, 1997
- Evey, Julie A. (2018), Associate Professor, Ph.D., Kent State University, 1998
- Flessner, Christopher A. (2011), Professor, Ph.D., University of Wisconsin, Milwaukee, 2008
- Folk, Jocelyn R. (1999), Associate Professor, Ph.D., University of South Carolina, Columbia, 1997
- Frey, Katelyn T. (2023), Assistant Professor, M.A., University of Akron, 2021
- Galati, Ashley R. (2013), Associate Professor, Ph.D., University of Kentucky, 2013
- Gere, Judith (2013), Associate Professor
- Gilman, Tracy L. (2020), Assistant Professor, Ph.D., Penn State University, 2013
- Gunstad, John J. (2005), Professor, Ph.D., Ohio University, 2002
- Hamrick, Phillip M. (2013), Associate Professor, Ph.D., Georgetown University, 2013
- Himmelstein, Mary S. (2019), Assistant Professor, Ph.D., Rutgers University, 2016
- Hughes, Joel W. (2003), Professor, Ph.D., The Ohio State University, 2001
- Jones, Bryan A. (2010), Associate Professor, Ph.D., State University of New York-Stony Brook, 2007
- Joynes, Robin L. (2000), Professor, Ph.D., Texas A&M University-Main Campus, 1998
- Keiller, Scott W. (1989), Associate Professor, Ph.D., Kent State University, 1997
- Larwin, David A. (1985), Senior Lecturer, M.A., Kent State University, 1989
- Lechner, William (2017), Associate Professor, Ph.D., Oklahoma State University, 2015
- Miller, Eric D. (1999), Associate Professor, Ph.D., University of Iowa, 1999
- Neal-Barnett, Angela M. (1989), Professor, Ph.D., DePaul University, 1988
- Sato, Amy F. (2012), Professor, Ph.D., University of Wisconsin-Milwaukee, 2009
- Sciartelli, Sharon M. (2007), Professor, Ph.D., Kent State University, 1995
- Sefcek, Jon A. (2011), Associate Professor, Ph.D., University of Arizona, 2007
- Shepherd, James B. (1986), Assistant Professor, Ph.D., Kent State University, 1996
- Spitznagel, Mary Beth (2009), Professor, Ph.D., Ohio University, 2003
- Tabak, Melanie A. (2003), Professor, Ph.D., Kent State University, 2008
- Taber, Jennifer M. (2016), Associate Professor
- Thompson, Clarissa A. (2014), Professor, Ph.D., The Ohio State University, 2008
- Tomich, Patricia L. (1994), Professor, Ph.D., Kent State University, 2000
- Updegraff, Alanna S. (2012), Professor, Ph.D., University of California-Los Angeles, 2003
- Updegraff, John A. (2004), Professor, Ph.D., University of California-Los Angeles, 2002
- Was, Christopher A. (2005), Professor, Ph.D., University of Utah, 2005
- Weigold, Arne (2019), Professor, Ph.D., Texas Tech University, 2008
- Williams, Trevor F. (2024), Assistant Professor, Ph.D., University at Buffalo-SUNY, 2020
- Zaragoza, Maria S. (1984), Professor, Ph.D., Johns Hopkins University, 1984

Department of Sociology and Criminology Faculty

- Adams, Richard E. (2007), Professor, Ph.D., Indiana University-Bloomington, 1989
- Bloch, Katrina R. (2008), Professor, Ph.D., North Carolina State University, 2009
- Campbell, Beth A. (2005), Professor, Ph.D., University of Akron, 2018
- Catto, Rebecca (2016), Associate Professor
- Chopko, Brian A. (2007), Professor, Ph.D., University of Akron, 2007
- Dum, Christopher (2014), Associate Professor, Ph.D., University at Albany-SUNY, 2014
- Fisk, Susan R. (2015), Associate Professor, Ph.D., Stanford University, 2015
- Foster, Michelle L. (2010), Associate Professor, M.A., Kent State University, 2011
- Gallagher, Mary N. (2001), Associate Professor, Ph.D., Kent State University, 2012
- Gibson, Gregory C. (2012), Professor, Ph.D., Purdue University, 2008
- Goar, Carla D. , Professor
- Graff, David R. (1994), Senior Lecturer, M.S., Mercyhurst College, 1984
- Haas, Anne E. (1996), Professor, Ph.D., The Ohio State University, 2005
- Jones, Adrian M. (2001), Associate Professor, Ph.D., Kent State University, 2012
- Kalkhoff, William W. (2002), Professor, Ph.D., University of Iowa, 2002
- Kunkle, Susan M. (2004), Professor, Ph.D., Kent State University, 2011
- Leveto, Jessica A. (2005), Associate Professor, Ph.D., Kent State University, 2012
- Licuanan-Galela, Maria N. (1995), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 1995
- Lowery, Allen (2014), Assistant Professor
- Marcussen, Kristen A. (2000), Professor, Ph.D., University of Iowa, 2000

- Mastriacovo, Paul A. (1982), Senior Lecturer, J.D., University of Akron, 1978
- Nader, Elias (2021), Assistant Professor, Ph.D., University Of Massachusetts-Lowell, 2019
- Nasheri, Hedieh (1990), Professor, Ph.D., Case Western Reserve, 1992
- Pai, Manacy (2008), Associate Professor, Ph.D., Florida State University, 2008
- Pollock, Joshua W. (2014), Associate Professor, Ph.D., University of Akron, 2014
- Ray, Kasey (2015), Associate Professor, Ph.D., University of Akron, 2015
- Robison, Kristenne M. (2019), Assistant Professor, Ph.D., Syracuse University, 2010
- Rose, Lydia (2010), Associate Professor, Ph.D., Purdue University, 1997
- Rose, Norman R. (2007), Associate Professor
- Roxburgh, Susan J. (1994), Professor, Ph.D., University of Toronto, 2020
- Schiller, J. Zach (2006), Assistant Professor, Ph.D., University of California-Davis, 2005
- Shura, Robin A. (2018), Associate Professor, Ph.D., Case Western Reserve, 2010
- Solomon, Starr (2018), Associate Professor, Ph.D., University of Nebraska Omaha, 2018
- Stacey, Clare L. (2006), Associate Professor, Ph.D., University of California-Davis, 2004
- Taylor, Tiffany L. (2008), Professor, Ph.D., North Carolina State University at Raleigh, 2008
- Tontodonato, Pamela (1987), Associate Professor, Ph.D., University of Pennsylvania, 1986
- Vander Horst, Anthony (2011), Professor, The Ohio State University, 2012
- Warren, Deirdre M. (2009), Associate Professor, Ph.D., Sam Houston State University, 2009
- Wilson, Mary G. (1998), Professor, Ph.D., Kent State University, 2010

School of Multidisciplinary Social Sciences and Humanities Faculty

- Barnes, Andrew S. (2001), Associate Professor, Ph.D., Princeton University, 1999
- Bartell, Denise S. (2022), Professor
- Holt, Suzanne L. (1984), Professor, Ph.D., Kent State University, 1994
- Kim, Jung-Yeup (2008), Associate Professor, Ph.D., University of Hawaii-Manoa, 2008
- Mazzei, Julie M. (2004), Associate Professor, Ph.D., American University, 2006
- Odell-Scott, David (1990), Professor, Ph.D., Vanderbilt University, 1989
- Paar Conroy, Amanda M. (2013), Associate Professor, J.D., Cleveland State University, 2005
- Peterson, Mary S. (2016), Associate Professor, J.D., Bowling Green State University, 1987
- Stacher, Joshua A. (2008), Professor
- Vachon, Lauren (2012), Associate Professor, M.F.A., Kent State University, 2013

School of Peace and Conflict Studies Faculty

- Arai, Tatsushi (2019), Associate Professor, Ph.D., George Mason University, 2005
- Bleak, Jacquelyn K. (2014), Associate Lecturer, M.S., George Mason University, 2012
- Cooper, Neil (2019), Professor
- Cunningham, Karen D. (1990), Professor, J.D., Washington and Lee University, 1986
- Hancock, Landon E. (2006), Professor, Ph.D., George Mason University, 2003
- Hsiao, Elaine C. (2021), Assistant Professor
- Koopman, Sara (2017), Associate Professor, Ph.D., University of British Columbia, 2012
- Merryman, Molly B. (1996), Associate Professor, Ph.D., Bowling Green State University, 2007
- Nickels, Ashley E. (2016), Associate Professor, Ph.D., Rutgers University, 2016
- Solomon, Johanna A. (2017), Assistant Professor, Ph.D., University of California, Irvine, 2015

College of Communication and Information Faculty

School of Communication Studies Faculty

- Beam, Michael A. (2014), Associate Professor, Ph.D., The Ohio State University, 2012
- Bentley, Laurie S. (1994), Senior Lecturer, M.A., Kent State University, 1996
- Bihn-Coss, Ginger F. (2014), Associate Professor, Ph.D., Bowling Green State University, 2003
- Cai, Bei (2002), Associate Professor, Ph.D., Bowling Green State University, 2002
- Compton, Cristin (2017), Associate Professor, Ph.D., University of Missouri-Columbia, 2016
- Dillon, Patrick J. (2016), Associate Professor, Ph.D., University of South Florida, 2013
- Egbert-Scheibelhoffer, Nichole L. (2000), Professor, Ph.D., University of Georgia, 2000
- Goodall, Catherine E. (2009), Associate Professor, Ph.D., Ohio State University, 2009
- Haridakis, Paul M. (1996), Professor, Ph.D., Kent State University, 2000
- Hollenbaugh, Erin E. (2003), Professor, Ph.D., Kent State University, 2008
- Kaptan, Yesim (2016), Associate Professor, Ph.D., Indiana University, 2010
- Lin, Mei-Chen (2003), Professor, Ph.D., University of Kansas, 2003
- Maguire, Aaron E. (2015), Senior Lecturer, M.A., University of Delaware, 1999
- McCullough, Jennifer L. (2010), Associate Professor, Ph.D., Ohio State University, 2007
- Ponder, James D. (2007), Associate Professor, Ph.D., Kent State University, 2012
- Sharma, Rekha (2000), Associate Professor, Ph.D., Kent State University, 2017
- Silva, David E. (2019), Assistant Professor, Ph.D., Washington State University, 2019

- Smith, Stephanie D. (2012), Associate Lecturer, M.P.A., Harvard University, 1994
- Toumi, Ikram (2017), Associate Professor, Ph.D., University of Texas at Austin, 2016
- Waite, Lisa A. (1991), Senior Lecturer, M.A., University of Akron, 1985
- Workneh, Tewodros (2016), Associate Professor, Ph.D., University of Oregon, 2014

School of Emerging Media and Technology Faculty

- Baumgartner, Emily E. (2024), Assistant Professor, Ph.D., Kent State University, 2020
- Mis, Thomas A. (2024), Lecturer, M.S., Cleveland State University, 2012

School of Information Faculty

- Albright, Kendra S. (2016), Professor, Ph.D., University of Tennessee-Knoxville, 2002
- Boon, Belinda (2006), Professor, Ph.D., University of Texas, Austin, 2006
- Gracy, Karen F. (2007), Professor, Ph.D., University of California-Los Angeles, 2001
- Hajibayova, Lala (2014), Associate Professor, Ph.D., Indiana University, Bloomington, 2014
- Harper, Sarah M. (2001), Professor, Ph.D., Kent State University, 2003
- Martens, Marianne (2012), Professor, Ph.D., Rutgers University, 2012
- Matteson, Miriam L. (2012), Professor, Ph.D., University of Maryland, 2009
- Meehan, Rebecca A. (2012), Associate Professor, Ph.D., Case Western Reserve University, 1997
- Nichols, Mary Anne (1996), Senior Lecturer, M.L.S., Kent State University, 1993
- Salaba, Athena (1993), Professor, Ph.D., University of Wisconsin-Madison, 2005
- Smith, Catherine L. (2010), Associate Professor, Ph.D., Rutgers University, 2010
- Soyka, Heather (2017), Associate Professor, Ph.D., University of Pittsburgh, 2015
- Stahr, MaryAnn A. (1998), Assistant Professor, Ph.D., Kent State University, 2008
- Zeng, Marcia L. (1992), Professor, Ph.D., University of Pittsburgh, 1992
- Zhang, Yin (1999), Professor, Ph.D., University of Illinois-Chicago, 1999

School of Media and Journalism Faculty

- Armour, Luke L. (2012), Professor, M.A., University of Akron, 2006
- Bailey, Evan B. (2003), Professor, M.A., Kent State University, 2009
- Bobkowski, Piotr S. (2023), Professor, Ph.D., University of North Carolina-Chapel Hill, 2010
- Butler-Wall, Karisa (2019), Assistant Professor, Ph.D., University of Minnesota-Twin Cities, 2016
- Canfora, Roseann C. (2001), Assistant Professor, Ph.D., Kent State University, 2001
- Conley, Tara (2022), Assistant Professor
- Cooper, Kathryn (2022), Assistant Professor, Ph.D., The Ohio State University , 2018
- Ewing, Michele E. (2002), Professor, M.A., Kent State University, 1989
- Foster, David A. (2005), Associate Professor, M.A., Kent State University, 2014
- Hallgren, Scott W. (2016), Associate Professor, M.Mus., Seattle Film Institute, 2015
- Hoak, Gretchen J. (2015), Associate Professor, Ph.D., Kent State University, 2008
- Jackson, Michael A. (2022), Lecturer, M.S., University of Southern California, 1981
- Knoblock, Christopher (2019), Lecturer, B.A., William Paterson University, 1986
- Lambert, Cheryl Ann (2016), Associate Professor, Ph.D., University of Tennessee, 2008
- Marino, Jacqueline A. (1990), Professor, M.A., The Johns Hopkins University, 2002
- McKenney, Mitchell J. (2001), Associate Professor, M.B.A., Kent State University, 2008
- Metzgar, Emily T. (2020), Professor, Ph.D., Louisiana State University, 2008
- Moore, Stefanie A. (2001), Professor, M.S., Kent State University, 2007
- Nenque, Andrea R. (2023), Assistant Professor, Ph.D., University of North Carolina-Chapel Hill, 2023
- Reynolds, Amy L. (2015), Professor
- Rolnick-Fox, Rebecca M. (2017), Associate Professor, M.F.A., University of Southern California, 2000
- Stewart, Mizell (2023), Lecturer, M.S., Northern Kentucky University, 2015
- Tang, Tang (2018), Professor, Ph.D., Ohio University, 2008
- Wasbotten, Thor L. (2012), Professor, M.S., University of Oregon, 1995
- White, Dana (2018), Associate Professor, M.F.A., University of California, Riverside, 2015

School of Visual Communication Design Faculty

- Alenquer, Daniel P. (2019), Professor
- Barness, Jessica S. (2012), Professor, M.F.A., University of Minnesota-Twin Cities, 2012
- Coorey, Jillian S. (2010), Professor, M.F.A., University of Illinois at Chicago, 2010
- Kennedy, Jaime D. (2007), Professor, M.F.A., The Ohio State University, 2006
- Lewis, Chad A. (2017), Assistant Professor, M.F.A., Kent State University, 2016
- Middleton, David A. (1998), Professor, M.A., Kent State University, 1985
- Mooney, Aoife (2013), Associate Professor, M.F.A., Kent State University, 2023
- O'Grady Visocky , Kenneth J. (1997), Professor, M.F.A., Kent State University, 2000
- Rahmati, Hadi (2023), Assistant Professor, M.A., Tarbiat Modares University, 2011
- Rinnert, Gretchen C. (2008), Professor, M.F.A., North Carolina State University at Raleigh, 2008
- Roll, David (2015), Associate Professor, M.A., Kent State University, 2007
- Wilson, David J. (2003), Assistant Professor, M.F.A., Kent State University, 2022

College of Education, Health and Human Services Faculty

School of Foundations, Leadership and Administration Faculty

- Boske, Christa A. (2008), Professor, Ed.D., Northern Illinois University, 2006
- Chuang, Ning Kuang (2005), Associate Professor, Ph.D., Texas Tech University, 2005
- Clark, Debra L. (1995), Professor, Ph.D., Kent State University, 2003
- Damrow, Amy (2014), Associate Professor, Ph.D., Michigan State University, 2011
- Daniels, Michael A. (2024), Assistant Professor, Ph.D., Kent State University, 2022
- Dees, David M. (1991), Associate Professor, Ph.D., Kent State University, 2000
- Devine, Mary Ann (1997), Professor, Ed.D., University of Georgia, 1997
- Eckert, Erica L. (2003), Assistant Professor, Ph.D., Kent State University, 2012
- Eith, Andrew S. (2014), Associate Lecturer, New England Culinary Institute, 2013
- Hall, Kayon (2022), Assistant Professor, Ph.D., Michigan State University, 2021
- Hudson, Tara D. (2017), Associate Professor, Ph.D., North Carolina State, 2015
- Israeli, Aviad A. (2020), Professor, Ph.D., Kent State University , 1997
- Kosmidis, Aryn C. (2010), Associate Professor, Ph.D., The Ohio State University, 2010
- Lee, Kiwon (2017), Associate Professor, Ph.D., Penn State University, 2013
- Lepp, Andrew P. (2004), Professor, Ph.D., University of Florida, 2004
- Levinson, Natasha (1997), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 2001
- Li, Ji-Ann (2012), Professor, Ph.D., The Ohio State University, 2012
- Lyberger, Mark R. (1996), Professor, Ph.D., The Ohio State University, 1996
- Mulrooney, Aaron L. (1992), Associate Professor, J.D., University of Akron, 1990
- Niesz-Kutsch, Tricia (2004), Professor, Ph.D., University of Pennsylvania, 2003
- Parr, Mary G. (1992), Professor, Ph.D., University of Illinois-Urbana, Champaign, 1992
- Porter, Christa J. (2017), Associate Professor, Ph.D., University of Georgia, 2013
- Pringle, Eboni J. (1998), Assistant Professor, Ph.D., Kent State University, 2014
- Ray-Tomasek, Jennifer L. (1998), Associate Professor, Ph.D., Kent State University, 2004
- Sambolin Morales, Astrid N. (2022), Assistant Professor
- Schenker, Jason D. (2000), Professor, Ph.D., Kent State University, 2007
- Walton-Fisette, Theresa A. (2003), Professor, Ph.D., University of Iowa, 2002
- Wang, Philip C. (1990), Associate Professor, Ph.D., Pennsylvania State University, 1991
- Yim, Hyong Il (2015), Associate Professor, Ph.D., University of Georgia, 2015

School of Health Sciences Faculty

- Anderson, Alyssa (2023), Assistant Professor, Ph.D., University of North Carolina at Raleigh, 2023
- Arnold, Hayley S. (2010), Associate Professor, Ph.D., Vanderbilt University, 2007
- Axiotis, Irene R. (1985), Professor, Ph.D., Kent State University, 1996
- Backus, Angela S. (2003), Professor, Ph.D., Kent State University, 2010
- Baker, Emily A. (2012), Associate Lecturer, M.S., Case Western Reserve, 2001
- Barikoo, Ali (2017), Associate Professor, Ph.D., University of Florida, 2017
- Barkley, Jacob E. (2006), Professor, Ph.D., University at Buffalo, SUNY, 2007
- Berk, Lynn V. (2008), Senior Lecturer, M.A., Cleveland State University, 1981
- Bernert, Donna J. (2007), Associate Professor, Ph.D., Southern Illinois University, 2005
- Blakely, Carmen M. (2007), Associate Professor, Ed.D., AT Still University, 2020
- Bolden, William (2024), Lecturer, M.A., Kent State University, 2014
- Caine-Bish, Natalie L. (1997), Associate Professor, Ph.D., Kent State University, 2002
- Ding, Kele (2005), Professor, Ph.D., Indiana University-Bloomington, 2000
- Durant, Kathleen M. (2019), Assistant Professor, Ph.D., University Of Memphis, 2017
- Falcone, Tanya R. (2007), Senior Lecturer, M.S., Kent State University, 2009
- Forbes, Myrna A. (1998), Senior Lecturer, Au.D., University of Florida, 2005
- Glickman, Ellen L. (1995), Professor, Ph.D., University of Pittsburgh, 1988
- Ha, Eun-Jeong (2004), Professor, Ph.D., The Ohio State University, 1999
- Hale, Catherine C. (2000), Senior Lecturer, M.S., Indiana University, Bloomington, 1995
- Harnar, Hannah M. (2011), Associate Professor, M.S., Kent State Unviersity, 2013
- Huston, Jeffery L. (2007), Professor, Ed.D., Capella University, 2017
- Huyck, Julia J. (2013), Associate Professor, Ph.D., Northwestern University, 2010
- Jajtner, Adam (2016), Associate Professor, Ph.D., University of Central Florida, 2016
- Jonas, Jay C. (2006), Professor, Ph.D., Kent State University, 2018
- Kingsley, J. Derek (2013), Professor, Ph.D., Florida State University, 2009
- Kolonich, Erin M. (2017), Associate Lecturer, George Washington University, 2001
- Krumm, Mark P. (2005), Associate Professor, Ph.D., Wichita State University, 1990
- Magee, Meghan K. (2023), Assistant Professor, Ph.D., George Mason University, 2023

- Malone, Megan (2012), Senior Lecturer, M.A., Case Western Reserve University, 2000
- Matthews, Jamie C. (2014), Associate Lecturer, M.S., Kent State University, 2004
- McDaniel, John (2011), Professor, Ph.D., University of Utah, 2009
- Miracle, Amy L. (2012), Associate Professor, Ph.D., University of Nevada-Las Vegas, 2013
- O'Flannigan, Cara M. (2016), Associate Lecturer, M.A., Case Western Reserve University, 2007
- Peer, Kimberly S. (1999), Professor, Ed.D., University of Akron, 2001
- Ridgel, Angela L. (2008), Professor, Sc.D., Marshall University, 2000
- Roche, Jennifer M. (2014), Associate Professor, Ph.D., University of Memphis, 2011
- Visker, Jennifer N. (2016), Associate Lecturer, M.A., Case Western Reserve University, 2001
- Wagner, Laurie M. (1997), Associate Professor, Ph.D., Kent State University, 2008

School of Lifespan Development and Educational Sciences Faculty

- Alexander, Donna C. (2008), Associate Lecturer, M.B.A., Ashland University, 2004
- Anhalt, Karla (2003), Professor, Ph.D., West Virginia University, 2000
- Balan, Christine M. (1986), Professor, Ph.D., Kent State University, 1994
- Barber, Brian R. (2013), Associate Professor, Ph.D., University of Florida, 2013
- Bedesem, Pena L. (2010), Associate Professor, Ph.D., University of Central Florida, 2010
- Bergh, Kathleen A. (2000), Senior Lecturer, M.Ed., University of Akron, 1985
- Blankemeyer, Maureen S. (1996), Associate Professor, Ph.D., Oklahoma State University, 1996
- Borriello, Giulia A. (2023), Assistant Professor, Ph.D., Pennsylvania State University, 2018
- Bruns, Kristin L. (2024), Assistant Professor, Ph.D., Kent State University, 2014
- Burgess, Sloane R. (2008), Associate Professor, Ph.D., Case Western Reserve University, 2007
- Chen, Ching-I (2014), Associate Professor
- Cichy, Kelly E. (2008), Professor, Ph.D., Pennsylvania State University, 2007
- Cimera, Robert E. (2007), Professor, Ph.D., University of Illinois-Urbana, Champaign, 1998
- Cowan, Richard J. (2003), Associate Professor, Ph.D., University of Nebraska, 2003
- Cureton, Jenny (2016), Associate Professor, Ph.D., University of Northern Colorado, 2016
- Erby, Adrienne (2021), Assistant Professor, Ph.D., University of North Carolina-Charlotte, 2014
- Guillot-Miller, Lynne M. (2003), Associate Professor, Ph.D., University of New Orleans, 2003
- Harjusola-Webb, Sanna M. (2006), Associate Professor, Ph.D., University of Kansas, 2006
- Herman McMillan, Emily R. (2024), Assistant Professor, Ph.D., The Ohio State University, 2021
- Jencius, Martin J. (2000), Associate Professor, Ph.D., University of South Carolina, 1996
- Jones, Samantha K. (2020), Assistant Professor, M.A., Kent State University, 2015
- Kenyon, Cynthia (2009), Associate Professor, Ph.D., Kent State University, 2018
- Krise, Olivia B. (2003), Lecturer, M.Ed., Kent State University, 2012
- Kritzer, Karen (2007), Associate Professor, Ph.D., University of Pittsburgh, 2007
- Liou, Chih-Ling (2014), Associate Professor, Ph.D., Virginia Polytechnic Institute and State University, 2011
- Lockwood, Adam B. (2021), Associate Professor, Ph.D., Northern Arizona University, 2015
- Lockwood, Adam B. (2024), Associate Professor, Ph.D., Northern Arizona University, 2015
- Manring, Danielle E. (2013), Lecturer, M.Ed., Kent State University, 2019
- McCartney, Jamie L. (2007), Associate Professor, Ph.D., University of Akron, 2004
- Miller, Jennifer L. (2016), Associate Lecturer, M.Ed., Kent State University, 2019
- Moore, Alma J. (2012), Assistant Professor, Ph.D., Kent State University, 2019
- Morris, Bradley J. (2012), Professor, Ph.D., The Ohio State University, 1998
- Oldham, Bryn (2024), Assistant Professor, M.Ed., Kent State University, 2007
- Osborn, Cynthia J. (1997), Professor, Ph.D., Ohio University, 1996
- Salpietro, Lena (2023), Assistant Professor, Ph.D., University of Toledo, 2020
- Sansosti, Frank J. (2006), Professor, Ph.D., University of South Florida, 2005
- Smith, Gregory C. (2001), Professor, Ph.D., University of Rochester, 1983
- Stevenson, Nathan (2015), Associate Professor, Ph.D., Michigan State University, 2015
- Storlie, Cassandra A. (2013), Professor, Ph.D., University of Iowa, 2013
- Tankersley, Melody J. (1993), Professor, Ph.D., University of Virginia, 1992
- Tobias, Scott A. (2009), Associate Professor, D.Sci., University of Missouri, 2009
- Toepfer, Steven M. (2004), Associate Professor, Ph.D., The Ohio State University, 2001
- Unger, Darlene D. (2016), Professor, Ph.D., Virginia Commonwealth University, 2001
- Walker, Kathleen K. (2002), Associate Professor, Ph.D., Kansas State University, 2002
- Waugh, Jennifer A. (2012), Assistant Professor, Ph.D., Kent State University, 2019
- Wiley, Andrew L. (2008), Associate Professor, Ed.D., University of Virginia, 2008
- Zhang, Jing (2018), Associate Professor, Virgina Tech, 2012

School of Teaching, Learning and Curriculum Studies Faculty

- Bintz, William P. (2004), Professor
- Borgerding, Lisa (2007), Professor, Ph.D., Indiana University, Bloomington, 2007
- Caniglia, Joanne C. (2008), Professor, Ph.D., Kent State University, 1994
- Courtney, Scott A. (2010), Associate Professor, Ph.D., Arizona State University, 2010
- Crowe, Alicia R. (2001), Professor, Ph.D., Vanderbilt University, 2001
- Dever, Robin M. (2018), Associate Professor, Ph.D., Kent State University, 2008
- Durham, Brian S. (2022), Assistant Professor, Ph.D., Michigan State University, 2021
- Eckert, Kevin (2015), Associate Lecturer, M.Ed., Kent State University, 2017
- Ellison, Douglas (2017), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 2016
- Ferdig, Richard E. (2009), Professor, Ph.D., Michigan State University, 2000
- Gandolfi, Enrico (2015), Associate Professor, Ph.D., Sapienza University of Rome, 2014
- Gruhler, Danielle M. (1999), Professor, Ph.D., Kent State University, 2004
- Guivernau, Marta (2007), Assistant Professor, Ph.D., Purdue University, 1999
- Hannon, James C. (2017), Professor
- Hawley, Todd (2008), Professor, Ph.D., University of Georgia, 2008
- Heron, Michele L. (2004), Associate Professor, Ph.D., Kent State University, 2010
- Hollstein, Matthew S. (2015), Associate Professor, Ph.D., Ohio University, 2015
- Hutchins, Pamela K. (1993), Associate Lecturer, M.Ed., Kent State University, 1992
- Irving, Sonya E. (2013), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 2014
- Kamberelis, George (2023), Professor
- Kenyon, Elizabeth (2015), Associate Professor, Ph.D., Michigan State University, 2015
- Kim, Insook (2012), Professor, Ph.D., The Ohio State University, 2011
- Kirin, Melanie D. (2019), Lecturer, M.Ed., Kent State University, 2015
- Knapp, Kathryn A. (2007), Associate Professor, Ph.D., Kent State University, 2013
- Kosko, Karl W. (2012), Professor, Ph.D., Virginia Polytechnic Institute and State University, 2010
- Kroeger, Janice (2002), Professor, Ph.D., University of Wisconsin, Madison, 2003
- Kuo, Chia Ling (2005), Professor, Ph.D., Ohio University, 2005
- Lampe, Jennifer K. (2014), Lecturer, Bowling Green State University, 2010
- McCreight, Jennifer A. (2024), Assistant Professor, University of Georgia, 2012
- Miller Marsh, Monica A. (2012), Associate Professor, Ph.D., University of Wisconsin-Madison, 1997
- Mitchell, Stephen A. (1992), Professor, Ph.D., Syracuse University, 1992
- Monobe, Gumiko (2010), Associate Professor
- Mulvey, Bridget K. (2012), Associate Professor, Ph.D., University of Virginia-Main Campus, 2012
- Mupinga, Davison M. (2008), Professor, Ph.D., Louisiana State University-Baton Rouge, 1999
- Navy, Shannon L. (2017), Associate Professor, Ph.D., University of Georgia, 2014
- Novak, Elena (2015), Associate Professor, Ph.D., Florida State University, 2012
- Pech, Sandra (2000), Associate Professor, Ph.D., Kent State University, 2010
- Porto, Adonia F. (2006), Assistant Professor, Ph.D., Kent State University, 2017
- Potenza-Radis, Cheryl L. (2009), Assistant Professor, M.Ed., Miami University, 1993
- Pytash, Kristine E. (2006), Professor, Ph.D., Kent State University, 2009
- Ridley, Jacqueline N. (2020), Assistant Professor, Ph.D., Ohio University, 2020
- Roginski, Dawn R. (2017), Assistant Professor, Ph.D., Kent State University, 2020
- Sethna, Kim C. (2010), Assistant Professor, Ed.D., Walden University, 2022
- Stoll, Julia A. (2000), Professor, Ph.D., Kent State University, 2015
- Testa, Elizabeth A. (2013), Associate Professor, Ph.D., University of Akron, 2014
- Torres, Francisco L. (2021), Assistant Professor, Ph.D., University of Colorado-Boulder, 2020
- Walker, Amy (2022), Assistant Professor, Ph.D., Indiana University, 2022
- Walton-Fisette, Jennifer L. (2008), Professor, Ed.D., University of Massachusetts-Amherst, 2008
- Wang, Jiahui (2018), Assistant Professor, Ph.D., University of Florida, 2018
- Wilfong, Lori G. (2002), Associate Professor, Ph.D., Kent State University, 2006
- Wisdom, Sonya L. (2012), Professor, Ph.D., Kent State University, 2010
- Zolfaghari, Maryam (2018), Assistant Professor, Ph.D., Kent State University, 2023

College of Nursing Faculty

- Aller, Loretta J. (2010), Assistant Professor, Ph.D., Kent State University, 2019
- Bacha, Mary B. (2007), Associate Lecturer, M.S.N., Kent State University, 1983
- Beckley, Lyndy E. (2017), Associate Lecturer, M.S.N., Kent State University, 2016
- Biggs, Jennifer R. (2011), Senior Lecturer, M.S.N., Kent State University, 2011
- Bixler, Sarah (2013), Associate Lecturer, M.S.N., Kent State University, 2014
- Blackwell, James (2018), Lecturer, M.S.N., Kent State University, 2018
- Bowen, Lucas S. (2013), Associate Lecturer, M.S.N., Kent State University, 2015
- Bracken-Ott, Heather L. (2017), Associate Lecturer, M.S., Chamberlain College of Nursing, Addison, 2017
- Brady, Cheryl L. (1994), Professor, M.S.N., University of Akron, 1994

- Brison, Laura J. (2007), Senior Lecturer, M.A.T., Marygrove College, 2003
- Burhanna, Taryn R. (2006), Associate Lecturer, M.S.N., Kent State University, 2018
- Cascarelli, Lisa J. (2012), Assistant Professor, D.N.P., Case Western Reserve University, 2020
- Cifani, Debra K. (2009), Professor, D.N.P., Kent State University, 2017
- Cleveland, Kimberly A. (2015), Associate Professor, J.D., Cleveland Marshall College of Law, 2003
- Colwell, Alice (2008), Senior Lecturer, M.S.N., Kent State University, 2011
- Davis, Lisa M. (2016), Associate Lecturer, M.S.N., Kent State University-Stark Campus, 2016
- DePaul, Kimberly E. (2011), Associate Lecturer, M.S.N., Kent State University, 2013
- Dodson, Tracy M. (2016), Associate Professor, Ph.D., Kent State University, 2022
- Dwinnells, Kathleen M. (1994), Professor, Ph.D., Kent State University, 2017
- Dyer, Melissa B. (2007), Senior Lecturer, M.S.N., Kent State University, 2003
- Edmondson, Meghan (2023), Assistant Professor
- Eisenhart, Logan (2022), Lecturer, Ohio University, 2022
- Fisher, Benita L. (2008), Associate Lecturer, M.S.N., Case Western Reserve University, 1992
- Fleming, Diana L. (2007), Professor, Ph.D., Kent State University, 2020
- Fox, Tamara A. (2006), Lecturer, M.S.N., Ursuline College, 2001
- Gidden, Tracy L. (2003), Senior Lecturer, M.S.N., Kent State University, 1996
- Haag, Kimberly Ann (2019), Lecturer, M.S., Kent State University, 2019
- Hansen, Dana M. (2012), Associate Professor, Ph.D., Case Western Reserve University, 2013
- Hawkins, Krista L. (2009), Associate Lecturer, M.S.N., Kent State University, Salem, 2017
- Hill, Diane S. (2007), Senior Lecturer, M.S.N., Kent State University, 1993
- Howell, Christina M. (2019), Lecturer, M.S.N., Walden University, 2018
- James, Ann M. (2013), Associate Lecturer, M.S.N., Kent State University, 2015
- Jarzembak, Jeremy M. (1994), Professor, M.A., Kent State University, 2002
- Johnson-Mallard, Versie (2021), Professor
- Kauth, Christine (1993), Professor, Ph.D., Capella University, 2016
- Knox, Louise H. (2012), Professor, D.N.P., Case Western Reserve University, 1998
- Kutchin, Mary F. (2006), Professor, Ph.D., Kent State University, 2022
- Larubina, Jessica L. (2019), Lecturer, M.S.N., Walden University, 2012
- Lickwar, Alisha (2017), Assistant Professor, M.S.N., Kent State University, 2017
- Lukach, Mary B. (1993), Senior Lecturer, M.S.N., Kent State University, 1992
- Martin, Lorene S. (2004), Senior Lecturer, M.S.N., Kent State University, 2005
- Mascolo, Karen L. (2011), Professor, D.N.P., The Ohio State University, 2011
- Metheney, Jennifer R. (2006), Senior Lecturer, M.S.N., Kent State University, 2005
- Miner, Stacy (2021), Assistant Professor
- Mittas, Lisa L. (2016), Lecturer, Walden University, 2012
- Motter, Tracey M. (1993), Associate Professor, D.N.P., Kent State University, 2016
- Mountain, Cherie (2011), Associate Lecturer, M.S.N., Walden University, Baltimore, 2008
- Murphy, Tara L. (2015), Lecturer, M.S.N., Aspen University, 2018
- Myers, Kerry H. (2013), Associate Lecturer, M.S.N., Kent State University, 2013
- Nelson, Andrea L. (2019), Lecturer, University of Akron, 2011
- Nibling, Marilyn (2008), Associate Professor, D.N.P., University of Akron, 2015
- Nicholson, Jacob R. (2015), Lecturer, M.S.N., Kent State University, 2019
- Onesko, Lisa M. (2008), Professor, D.N.P., Rush University, 2013
- Pacholski, Denise C. (2008), Associate Lecturer, M.S.N., University of Akron, 2000
- Petrinec, Amy B. (2016), Associate Professor, Ph.D., Case Western Reserve University, 2014
- Reed, Janet M. (2013), Assistant Professor, Ph.D., Kent State University, 2022
- Revlock, Marna M. (2016), Lecturer, M.S.N., Kent State University, 2017
- Robinson, Laurie B. (2015), Associate Lecturer, M.S.N., Kent State University, 2016
- Saunders, Tina L. (2006), Professor, Ph.D., Kent State University, 2023
- Severino, Gina M. (2006), Professor, M.S.N., Youngstown State University, 2006
- Stephenson, Pamela L. (2009), Associate Professor, Ph.D., Kent State University, 2011
- Thomas, Elaine (2002), Senior Lecturer, M.S.N., University of Akron, 2000
- Tudhope, James (2015), Assistant Professor, Ph.D., Kent State University, 2019
- Walker, Lynne J. (2012), Associate Lecturer, M.S.N., Kent State University, 2011
- Wang, Yafen (2013), Associate Professor, Ph.D., Case Western Reserve University, 2013
- Warner-Stidham, Andrea M. (1994), Assistant Professor, M.S.N., Kent State University, 2013
- Weil, Heather (2012), Associate Lecturer, M.S.N., University of Phoenix, 2012
- Wilk, Cindy A. (2003), Professor, Ph.D., Kent State University, 2023

College of Podiatric Medicine Faculty

- Belovich, Stephanie J. (2012), Associate Professor , Ph.D., Kent State University, 1999
- Blazer, Marie M. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 2004
- Butler, Nick R. (2012), Assistant Professor, D.P.M., Kent State University, 2015
- Connors, James C. (2016), Associate Professor, D.P.M., Ohio College of Podiatric Medicine , 1999

- Dalman, Mark R. (2016), Associate Professor, Ph.D., University of Akron, 2014
- Donovan, Jacqueline K. (2022), Assistant Professor, Ph.D., Kent State University, 2012
- Farnkopf, Ian C. (2016), Assistant Professor, Ph.D., Kent State University, 2022
- Jahan, Israt (2023), Assistant Professor, Ph.D., Gifu University, 2007
- Johnson, Rachel E. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 2008
- Kawalec, Jill S. (2012), Professor and Division Head, Ph.D., Case Western Reserve University, 1997
- Moore, Joshua L. (2023), Professor, D.P.M., Des Moines University, 2009
- Osbourne, Abe G. (2012), Associate Professor and Division Head, D.P.M., Ohio College of Podiatric Medicine, 1990
- Osher, Lawrence S. (2012), Professor, D.P.M., Ohio College of Podiatric Medicine, 1982
- Petrozzi, Rocco A. (2012), Associate Professor , D.P.M., Ohio College of Podiatric Medicine, 2003
- Salameh, Ahlam I. (2023), Assistant Professor, B.A., The Hashemite University, 2003
- Siesel, Kathy J. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 1989
- Spencer, Scott A. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 1987

College of Public Health Faculty

- Alemagno, Sonia A. (2009), Professor, Ph.D., Case Western Reserve University, 1990
- Beaird, Heather (2011), Associate Professor, Ph.D., Case Western Reserve University, 2005
- Benzigar, Sasikumar (2011), Associate Professor, Ed.D., University of Cincinnati, 2014
- Bhargava, Tina D. (2012), Professor, DrPH, University of Pittsburgh, 2012
- Bhatta, Madhav P. (2009), Professor, Ph.D., University of Alabama, Birmingham, 2007
- Brewer, Thomas W. (2002), Professor, Ph.D., University at Albany-SUNY, 2003
- Chatfield, Sheryl L. (2015), Associate Professor, Ph.D., University of Mississippi, 2014
- Cheruvu, Vinay K. (2010), Associate Professor, Ph.D., Case Western Reserve University, 2012
- Eng, Abbey L. (2006), Professor, Ph.D., Bowling Green State University, 2007
- Guan, Tianyuan (2021), Assistant Professor, Ph.D., University of Cincinnati, 2021
- Hallam, Jeffrey S. (2013), Professor, Ph.D., The Ohio State University, 1995
- Hoornbeek, John A. (2006), Professor, Ph.D., University of Pittsburgh, 2004
- Jefferis, Eric S. (2002), Professor, Ph.D., University of Cincinnati, 2004
- Kenne, Deric (2011), Professor, Ph.D., University of Akron, 2010
- King, Jennifer A. (2008), Assistant Professor, Ph.D., Kent State University, 2017
- Kollin, Robert B. (2017), Lecturer, M.S., Case Western Reserve University, 2016
- Lanese, Bethany G. (2015), Associate Professor, Ph.D., Wayne State University, 2004
- Phillips, Lynette (2010), Professor, Ph.D., University of North Carolina-Chapel Hill, 2007
- Smith, Tara C. (2013), Professor, Ph.D., University of Toldeo, 2012
- Step, Mary M. (2015), Associate Professor, Ph.D., Kent State University, 1998
- Tomi, Laurel A. (2015), Associate Lecturer, B.A., Kent State University, 1986
- VanGeest, Jonathan B. (2011), Professor, Ph.D., University of Illinois at Chicago, 1998
- Woolverton, Christopher J. (1995), Professor, Ph.D., West Virginia University, 1986
- Zullo, Melissa D. (2009), Professor, Ph.D., Case Western Reserve University, 2009

College of the Arts Faculty

School of Art Faculty

- Buntin, Phillip D. (2006), Associate Professor, M.F.A., University of Connecticut, 2002
- Commito, Gianna E. (2005), Professor, M.F.A., University of Iowa, 2003
- Curtis, Dadisi A. (2024), Assistant Professor, M.F.A., University of Iowa, 2022
- Ebanks, Davin (2005), Associate Professor, M.F.A., Kent State University, 2010
- Farnsworth, Isabel (1997), Associate Professor, M.F.A., Stanford University, 1995
- Foster, Arron L. (2022), Assistant Professor, M.F.A., University of Georgia, 2017
- Gasper-Hulvat, Marie (2013), Associate Professor, Ph.D., Bryn Mawr College, 2012
- Higgins-Linder, Melissa (2013), Lecturer, M.A., Kent State University, 2017
- Hoeptner-Poling, Linda A. (1986), Associate Professor, Ph.D., Kent State University, 2005
- Johnson, Peter C. (2015), Associate Professor, M.F.A., Penn State University, 2003
- Kan, Koon-Hwee (2003), Associate Professor, Ed.D., University of Illinois-Urbana, 2004
- Kessler, Eli (2019), Assistant Professor, M.F.A., Virginia Commonwealth University, 2008
- Kruse, Anna S. (2023), Assistant Professor , MFA, State University of New York at New York, 2021
- Kuebeck, Andrew (2017), Associate Professor, M.F.A, Indiana University, Bloomington, 2011
- McMahon, Taryn (2013), Associate Professor, M.A., University of Iowa, 2010
- Medicus, Gustav F. (1989), Associate Professor, Ph.D., Indiana University, Bloomington, 1992
- Morabito, John Paul (2022), Assistant Professor, M.F.A., School of Art Institute of Chicago, 2013
- Polo, Darice M. (2004), Associate Professor, M.F.A., University at Albany-SUNY, 1999

- Powell, Shawn K. (2018), Associate Professor, M.F.A., City University of NY-Hunter College, 2009
- Reischuck, Albert W. (1990), Senior Lecturer, M.A., Kent State University, 1991
- Reisig, Shana K. (2018), Associate Professor, Ph.D., University Of New Mexico, 2015
- Roll, Melanie R. (2001), Associate Professor, M.F.A, Kent State University, 2022
- Schatz, Mark K. (2010), Associate Professor, M.F.A., University of Texas-Austin, 2005
- Sokso, Jillian L. (2022), Professor, M.F.A., University of Delaware, 2005
- Underwood, Joseph L. (2017), Associate Professor, Ph.D., SUNY Stony Brook, 2017
- Warner, John-Michael H. (2015), Associate Professor, Ph.D., University of Arizona, 2015

School of Fashion Design and Merchandising Faculty

- Arnett, Joanne M. (2011), Associate Professor, M.F.A., Kent State University, 2013
- Benitez, Margarita (2010), Professor, M.F.A., School of the Art Institute of Chicago, 2008
- Bhaduri, Gargi (2014), Associate Professor, Ph.D., University of Missouri, Columbia, 2014
- Campbell, James R. (2009), Professor, M.F.A., University of California-Davis, 1996
- Copeland, Lauren E. (2017), Associate Professor, Ph.D., Kansas State University, 2015
- Fenn, Joanne (2001), Professor, M.L.I.S., Kent State University, 2007
- Fladung, Daniel J. (2020), Assistant Professor, M.A., Academy of Art University, 2022
- Grieder, Trista L. (2010), Senior Lecturer, M.S., Purdue University Global, 2009
- Hahn, Kim H. (2011), Professor, Ph.D., University of Nebraska-Lincoln, 2005
- Hahn, David H. (2014), Lecturer, M.S., The University of Wisconsin-Stout, 2011
- Hauck, William E. (2000), Assistant Professor, M.A., Northeastern Illinois University, 1981
- Hughes, Jacqueline (2018), Lecturer, B.A., Kent State University, 1994
- Hume, Sara E. (2009), Professor, M.A., Fashion Institute of Technology, 2003
- Hwang, Ja Young (2015), Associate Professor, Ph.D., Iowa State University, 2013
- Kornel, Jasmine A. (2012), Assistant Professor, M.F.A., Kent State University, 2018
- Krifa, Mourad (2017), Associate Professor, Ph.D., University of Haute Alsace, 2001
- LaPolla, Kendra L. (2013), Associate Professor, M.F.A., The Ohio State University, 2010
- Leslie, Catherine A. (2002), Professor, Ph.D., The Ohio State University, 2002
- LoMonaco-Benzing, Rachel E. (2018), Associate Professor, M.S., University of Rhode Island, 2009
- Lou, Xingqiu (2023), Assistant Professor, Ph.D., North Carolina State University, 2020
- Mehta, Archana (2001), Associate Lecturer, B.A., Kent State University, 2002
- Novak, Kathryn E. (2016), Assistant Professor, M.F.A., Kent State University, 2021
- Ohrn, Linda M. (2004), Professor, M.F.A., University of North Texas, 2003
- Palomo-Lovinski, Noel N. (2001), Professor, M.F.A., Kent State University, 2009
- Perrine, William C. (2006), Senior Lecturer, M.A., Western Michigan University, 2004
- Pettys-Baker, Robert (2024), Assistant Professor, Ph.D., University of Minnesota, 2024
- Quevedo, Vincent (2008), Associate Professor, M.F.A., University of Nebraska-Lincoln, 2004
- Riewe, Krissi R. (2019), Assistant Professor, M.F.A., University Of North Texas, 2019
- Stone, Hillary M. (2012), Professor, M.S., School of the Art Institute of Chicago, 1999
- Troy McAndrews, Laura (2024), Associate Professor, Ph.D., University of Missouri, 2015
- Valendza, Lisa A. (2009), Associate Lecturer, M.A., Kent State University, 2015
- Vick, Jihyun (2013), Professor, Ph.D., Iowa State University, 2004
- Walter, Ann Mariko (2008), Associate Lecturer, Ed.D., Kent State University, 2024
- Xepoleas, Lynda M. (2023), Assistant Professor, Ph.D., Cornell University, 2023
- Yoder, Sue J. (2013), Associate Professor, M.F.A., Syracuse University, 2008

School of Music Faculty

- Anderson, Ian (2015), Associate Professor, M.F.A., Middle Tennessee State University, 2009
- Bagwell, Dawn M. (2011), Assistant Professor, M.M., Kent State University, 2012
- Berg, Marla (2009), Associate Professor, M.M., Cleveland Institute of Music, 1983
- Birch, Sebastian A. (2002), Associate Professor, D.M.A., Cleveland Institute of Music, 1997
- Culver, Timothy M. (1999), Professor, M.M., Kent State University, 2002
- Dorfman, Jay (2006), Professor, Ph.D., Northwestern University, 2006
- Fucci, Melissa D. (2002), Professor, M.M., Kent State University, 2009
- Holm, Matthew D. (2017), Associate Professor, Ph.D., Arizona State University, 2006
- Johnstone, Jennifer L. (2002), Associate Professor, Ph.D., Kent State University, 2012
- Ko, Suyeon (2024), Assistant Professor, D.M., Indiana University, 2019
- Labovitz, Sarah J. (2023), Professor, D.M.A., University of Kansas, 2012
- Lee, Donna (1999), Professor, Ph.D., The Johns Hopkins University, 1999
- Lorenzo, Benjamin (2022), Associate Professor, D.M.A., University of Texas at Austin, 2012
- Marshall, Herbert D. (2019), Associate Professor, Ph.D., Temple University, 2002
- Matthews, Wendy K. (2018), Professor, Ph.D., George Mason University, 2007

- McPherson, Eve (2011), Professor, Ph.D., University of California, Santa Barbara, 2009
- McWilliams, Kent M. (2019), Professor
- Mitchell, David E. (2001), Associate Professor, M.M., University of Akron, 1989
- Nanongkham, Priwan (1998), Assistant Professor, Ph.D., Kent State University, 2011
- Noh, Hyunjoo G. (1998), Associate Professor, Ph.D., Kent State University , 2013
- Nowakowski, Mark (2016), Associate Professor, D.M.A., University of Maryland-College Park, 2013
- Olson, Darin K. (2020), Assistant Professor, D.M.A., The Ohio State University, 2011
- Petrella, Diane H. (2021), Professor
- Petrella, Nicholas E. (2021), Assistant Professor, D.M.A., The University of Iowa, 1998
- Resta, Craig M. (2008), Professor, Ph.D., University of Maryland, University College, 2008
- Roberts, Adam (2018), Associate Professor, Ph.D., Harvard University, 2010
- Seachrist, Denise A. (1988), Professor, Ph.D., Kent State University, 1993
- Selvaggio, Robert (2010), Associate Professor, M.M., Manhattan School of Music, 1995
- Sepulveda, Ricardo A. (2003), Associate Professor, M.M., Kent State University, 2008
- Shahriari, Andrew C. (1993), Professor, Ph.D., Kent State University, 2001
- Sundet, Danna S. (2002), Professor, M.M., Kent State University, 2002
- Swope, Matthew B. (2024), Assistant Professor, D.M.A., University of Cincinnati, 2024
- Terceros, Isaac (2024), Assistant Professor, D.M., Indiana University, 2024
- Tiffe, Janine L. (2011), Associate Professor, Ph.D., Florida State University, 2015
- Vardi, Amitai (2012), Associate Professor, M.M., Cleveland Institute of Music, 2002
- Vaughn, Erin M. (2006), Associate Lecturer, M.M., Kent State University, 2015
- Warsaw, Benjamin (2015), Assistant Professor, B.S., Kent State University, 2017
- White, Jay G. (2011), Professor, D.M.A., University of Maryland-College Park, 2005

School of Theatre and Dance Faculty

- Black, Jennifer (2019), Assistant Professor, B.F.A., University of Akron, 1996
- Brown, Courtney (2014), Associate Professor, M.F.A., University of Southern Mississippi, 2008
- Emory-Maier, Ambre G. (2022), Assistant Professor, M.F.A., Ohio State University , 2019
- Fritsche, Amy (2013), Associate Professor, M.F.A., San Diego State University, 2010
- Hardin, Albert A. (2022), Professor, M.F.A., University of Virginia, 1999
- Humes, Thomas W. (2019), Assistant Professor, B.A., Bowling Green State University, 2007
- Hurley, Paul (2018), Associate Professor, M.F.A., University of Delaware, 2007
- Huya, Natalie J. (2003), Senior Lecturer, M.A., Villanova University, 2001
- Kane, Caitlin (2022), Assistant Professor, Ph.D., Cornell University, 2022
- Keenan, Grace A. (2004), Associate Professor, M.F.A., Penn State University, 2012
- Kent, Therese J. (1991), Professor, M.F.A., Michigan State University, 1987
- Kildow, Eric S. (2015), Associate Professor, M.F.A., Savannah College of Art and Design, 2009
- Korecki, Jennifer S. (2012), Associate Professor, M.M., Kent State University, 1996
- Meredith, Catherine E. (2019), Assistant Professor, M.F.A., Hollins University, 2011
- Neuman Lambert, Gennie L. (2023), Assistant Professor, M.F.A., Rutgers University, 2023
- Pauna, Steven R. (2013), Professor, M.F.A., Kent State University, 2000
- Polanco, Fabio J. (2009), Professor, M.F.A., Case Western Reserve University, 1997
- Polunas, Jeffrey W. (2022), Assistant Professor, M.F.A., University of California-Irvine, 2012
- Rockland, Jeffrey M. (2015), Associate Professor, M.F.A., University of California-Irvine, 1992
- Seo, Jakyung (2009), Professor, M.F.A., University of Illinois-Urbana, Champaign, 2004
- Souza, Michelle H. (2019), Assistant Professor, M.F.A., University of San Diego, 2007
- Swoboda, Jonathan F. (2008), Associate Professor, M.M., University of Nebraska, Omaha, 1997
- Wenger, Baz (2009), Assistant Professor, M.F.A., Ohio University, 2022

University Libraries Faculty

- Antell, Haley M. (2018), Associate Professor, Oberlin College, 2009
- Bauer, Melissa M. (2012), Professor, M.L.I.S., Kent State University, 2005
- Burhanna, Kenneth J. (1991), Professor, M.L.S., Kent State University, 2005
- Campion, Elizabeth A. (2013), Assistant Professor, M.L.I.S., Kent State University, 2015
- Clark, Joe (2010), Professor, M.A., University of Arizona, 2003
- Deemer, Kevin L. (2002), Assistant Professor, M.L.S., University of Kentucky, 1999
- Dressler, Virginia A. (1994), Assistant Professor, M.L.I.S., Kent State University, 2007
- Earp, Vanessa J. (2005), Associate Professor , Ed.S., Kent State University, 2016
- Faehnel, Amanda C. (2010), Associate Professor, M.L.I.S., Kent State University, 2007
- Fagan, Nichloas G. (2019), Assistant Professor, M.L.I.S., Kent State University, 2006
- Guedel, Theodore E. (2015), Assistant Professor, M.L.I.S., Kent State University, 2007
- Hall, Virginia A. (1994), Associate Professor, M.L.I.S., Kent State University, 2007

- Hawkins, Michael C. (2014), Assistant Professor, Ph.D., Kent State University, 2022
- Jefferson, Jasmine (2005), Associate Professor, M.L.I.S., Kent State University, 2012
- Kennedy, Hilary M. (2003), Lecturer, B.S., Kent State University, 2002
- Kennedy, Sean P. (2022), Assistant Professor, M.L.I.S., Kent State University, 2014
- Kristof, Cynthia M. (1996), Associate Professor, M.L.S., Kent State University, 1995
- Lisius, Peter H. (2007), Associate Professor, M.L.S., Indiana University-Bloomington, 2000
- MacDonald, Karen I. (2013), Associate Professor, M.L.I.S., Wayne State University, 2002
- McCutcheon, L. Sevim (2006), Associate Professor, M.L.S., Kent State University, 1997
- Medicus, Kathleen S. (1991), Professor, M.L.S., Indiana University-Bloomington, 1988
- Richardson, Elizabeth A. (2008), Professor, M.L.I.S., Kent State University, 2003
- Robinson, Kara L. (1988), Associate Professor, M.L.S., Kent State University, 1989
- Serkownek, Edith W. (2005), Professor, M.L.I.S., Kent State University, 2005
- Sheu, Feng-Ru (2014), Associate Professor
- Slack, Anita J. (2020), Assistant Professor, M.L.I.S., Kent State University, 2011
- Spohn, Melissa M. (1985), Professor, M.L.S., Kent State University, 1986
- Voelker, Tammy J. (1997), Associate Professor, M.L.S., Kent State University, 2000
- Warren, Thomas (1991), Professor, M.L.I.S., Kent State University, 2000
- Yeager, Kristin E. (2013), Associate Professor, M.S., University of Akron, 2012
- Zhang, Yuening (2020), Associate Professor, M.L.S., Indiana University-Bloomington, 2010

INDEX

#

2025-2026 Kent State University Catalog 15

A

A and AS Levels 3899
Academic Policies 3898
Academic Standing - Graduate Student 3899
Academic Standing - Undergraduate Student 3901
Accessories - Minor 3694
Accommodations for Student Religious and Spiritual Beliefs 3902
Accounting - B.B.A. 952
Accounting - M.S.A. 956
Accounting - Minor 957
Accounting (ACCT) 16
Accounting Analytics - Graduate Certificate 958
Accounting Fundamentals - Graduate Certificate 959
Accounting Technology - A.A.B. 1231
Accounting Technology (ACTT) 21
Acting - M.F.A. 3862
Actuarial Mathematics - B.S. 2058
Adapted Physical Education Endorsement Preparation - Non-Degree . 3233
Addictions Counseling - Graduate Certificate 3084
Addictions Counseling - Undergraduate Certificate 3086
Admission of Adult Students 3902
Admission of Former Graduate Students 3903
Admission of Former Undergraduate Students 3903
Admission of Graduate Non-Degree Students 3903
Admission of Graduate Students 3903
Admission of Guest Students 3905
Admission of Home-Schooled Students 3905
Admission of Non-Traditional Master's Degree Students 3905
Admission of Post-Undergraduate Students 3905
Admission of Transient Students 3905
Admission of Undergraduate Non-Degree Students 3906
Admission of Undergraduate Students 3906
Admission of Veteran Students 3910
Admission to International Pathway Program 3910
Adolescent and Adult Education (ADED) 22
Adult Gerontology Acute Care Nurse Practitioner - Graduate Certificate 3433
Adult Gerontology Clinical Nurse Specialist - Graduate Certificate 3435
Adult Gerontology Primary Care Nurse Practitioner - Graduate Certificate 3437
Adult/Adolescent Sexual Assault Nurse Examiner - Graduate Certificate 3439
Advanced Accounting - Graduate Certificate 960
Advanced Placement (AP) 3911
Advanced Semiconductor Manufacturing Technician - Undergraduate Certificate 1233
Advertising - B.S. 2559
Advertising - Minor 2563
Aeronautical Studies - B.S. 1110
Aeronautical Systems Engineering Technology - B.S. 1113
Aeronautics (AERN) 25
Aerospace Engineering - B.S. 1117
Aerospace Engineering - M.S. 1120
Aerospace Engineering - Ph.D. 1122
Aerospace Studies (ASTU) 38
African Studies - Minor 1720
Africana Studies - B.A. 1720
Africana Studies - Minor 1724
Africana Studies (AFS) 40
Agribusiness (AGRI) 45
Air Traffic and Airspace Management - B.S. 1123
Aircraft Dispatch - Minor 1126
Alcohol, Tobacco and Other Drug Prevention - Undergraduate Certificate 2961
Allied Health Sciences (AHS) 47
Alternative Credit Programs 3911
Alternative Credit-Testing Eligibility 3913
Alternative Licensure Professional Development Institute, English/Language Arts - Non-Degree 3234
Alternative Licensure Professional Development Institute, Mathematics - Non-Degree 3236
Alternative Licensure Professional Development Institute, Science - Non-Degree 3237
Alternative Licensure Professional Development Institute, Social Studies - Non-Degree 3239
Ambassador Crawford College of Business and Entrepreneurship 903
American Sign Language - B.A. 2133
American Sign Language - Minor 2136
American Sign Language (ASL) 47
American Sign Language/English Interpreting - B.S. 3087
American Sign Language/English Interpreting Licensure Preparation - Non-Degree 3093
Ancient, Medieval and Renaissance Studies - Minor 2365
Animation Game Design - B.S. 1235

Animation Game Design (AGD) 50
Anthropology - B.A. 1734
Anthropology - B.S. 1737
Anthropology - M.A. 1741
Anthropology - Minor 1743
Anthropology (ANTH) 52
Applied and Technical Studies (ATS) 60
Applied Data and Information - Minor 2527
Applied Engineering - B.S. 1127
Applied Geology - Ph.D. 1914
Applied Mathematics - B.S. 2062
Applied Mathematics - M.A. 2069
Applied Mathematics - M.S. 2071
Applied Mathematics - Minor 2072
Applied Mathematics - Ph.D. 2073
Applied Media - B.A. 2471
Applied Statistics - Minor 2075
Arabic - Minor 2137
Arabic (ARAB) 60
Arabic Translation - Graduate Minor 2138
Architectural History - Minor 1378
Architectural Studies - B.A. 1379
Architectural Studies - Minor 1381
Architectural Studies (ARCS) 63
Architecture - B.S. 1382
Architecture - M.Arch. 1385
Architecture and Environmental Design - M.S. 1389
Architecture and Environmental Design (AED) 74
Architecture (ARCH) 64
Art (ART) 75
Art Education - B.F.A. 3695
Art Education - M.A. 3700
Art Education (ARTE) 77
Art History - B.A. 3701
Art History - M.A. 3704
Art History - Minor 3706
Art History (ARTH) 79
Art Studio Art (ARTS) 87
Artificial Intelligence - M.S. 1881
Arts and Sciences (AS) 100
Arts Entrepreneurship - Minor 3669
ASL English Interpreting (ASEI) 101
Associate of Arts 1239
Associate of Science 1241
Athletic Coaching - Minor 3240
Athletic Training - B.S. 2962
Athletic Training - M.S. 2962
Athletic Training (ATTR) 107
Audio Recording - Minor 3792
Audiology - Au.D. 2964
Audiology - M.A. 2966
Audiology - Ph.D. 2967
Autism Spectrum Disorders - Graduate Certificate 3096
Autism Spectrum Disorders - Minor 3098
Aviation Law and Policy - Minor 1127
Aviation Maintenance Management - B.S. 1128
Aviation Maintenance Technology (AMRT) 113
Aviation Management - B.S. 1130
Aviation Management - Minor 1133
Aviation Management and Logistics - M.S. 1134
Aviation Weather - Minor 1136
Award of a Master's Degree to a Doctoral Student 3914

B

Behavioral Intervention Specialist - Graduate Certificate 3099
Biochemistry - B.S. 1839
Bioethics and Health Humanities - Minor 2196
Bioinformatics - Minor 1882
Biological Sciences - Cell Biology and Molecular Genetics - M.S. 1776
Biological Sciences - Cell Biology and Molecular Genetics - Ph.D. 1778
Biological Sciences - Ecology and Evolutionary Biology - M.S. 1779
Biological Sciences - Ecology and Evolutionary Biology - Ph.D. 1781
Biological Sciences - Integrative Physiology and Neurobiology - M.S. . 1783
Biological Sciences - Integrative Physiology and Neurobiology - Ph.D. 1784
Biological Sciences - Minor 1786
Biological Sciences (BSCI) 114
Biology - B.A. 1787
Biology - B.S. 1791
Biology - M.A. 1797
Biology for Environmental Management and Conservation - Minor ... 1800
Biomedical Sciences - Cellular and Molecular Biology - M.S. 2342
Biomedical Sciences - Cellular and Molecular Biology - Ph.D. 2343
Biomedical Sciences - Human Evolutionary Biology - Ph.D. 2344
Biomedical Sciences - Neurosciences - M.S. 2346
Biomedical Sciences - Neurosciences - Ph.D. 2347

Biomedical Sciences - Pharmacology - M.S. 2348
Biomedical Sciences - Pharmacology - Ph.D. 2349
Biomedical Sciences - Physiology Interdisciplinary - M.S. 2350
Biomedical Sciences - Physiology Interdisciplinary - Ph.D. 2352
Biomedical Sciences (BMS) 141
Biostatistics - M.P.H. 3534
Biostatistics (BST) 148
Biotechnology - B.S. 1801
Biotechnology - B.S. 1844
Biotechnology (BTEC) 150
Botany - B.S. 1804
Brewing Technology - Undergraduate Certificate 1242
Broadcast Engineering Technology - Minor 2500
Business - Minor 1018
Business Administration - M.B.A. 1019
Business Administration - Ph.D. 945
Business Administration Interdisciplinary (BUS) 150
Business Analytics - B.B.A. 996
Business Analytics - Graduate Certificate 999
Business Analytics - M.S. 1001
Business Analytics (BA) 153
Business French - Minor 2138
Business German - Minor 2138
Business Management - B.B.A. 1031
Business Management and Related Technologies (BMRT) 156
Business Management Technology - A.A.B. 1243
Business Russian - Minor 2139
Business Spanish - Minor 2140

C

CAD for Manufacturing - Undergraduate Certificate 1246
Candidacy for Doctoral Degree 3914
Career and Academic Advising - Graduate Certificate 2853
Career and Community Studies - Non-Degree 3100
Career and Community Studies (CCS) 159
Career and Community Studies-College Preparation - Non-Degree 3102
Career and Community Studies-Employment Readiness - Non-Degree 3103
Career and Technical Teacher Education (CTTE) 163
Career-Based Intervention Endorsement Preparation - Non-Degree 3241
Career-Technical Teacher Education - Graduate Certificate 3242
Career-Technical Teacher Education - M.Ed. 3244
Career-Technical Teacher Education - Undergraduate Certificate 3245
Catalog Rights and Exclusions 3914
Ceramics - Minor 3706
Change in Graduate Program of Study 3915
Chemistry - B.A. 1847
Chemistry - B.S. 1851
Chemistry - M.A. 1857
Chemistry - M.S. 1858
Chemistry - Minor 1860
Chemistry - Ph.D. 1861
Chemistry (CHEM) 167
Chinese - Minor 2140
Chinese (CHIN) 182
Class Attendance and Class Absence 3916
Classics - B.A. 2141
Classics - Graduate Minor 2144
Classics - Minor 2145
Classics (CLAS) 183
Classification of Undergraduate Students 3917
Climate Change - Minor 1996
Clinical Education (CLI) 186
Clinical Epidemiology - M.S. 3536
Clinical Laboratory Sciences (CLS) 189
Clinical Mental Health Counseling - M.Ed. 3105
Clinical Psychology - Ph.D. 2273
Clinical Rehabilitation Counseling - M.Ed. 3107
Clinical Research - Graduate Certificate 3537
College Credit Plus 3917
College Level Examination Program (CLEP) 3917
College of Aeronautics and Engineering 1072
College of Aeronautics and Engineering (CAE) 190
College of Applied and Technical Studies 1173
College of Architecture and Environmental Design 1354
College of Arts and Sciences 1410
College of Communication and Information 2406
College of Education, Health and Human Services 2607
College of Nursing 3406
College of Podiatric Medicine 3481
College of Public Health 3508
College of the Arts 3561
College of the Arts (CA) 191
College Teaching - Graduate Certificate 2854
College Tech Prep (CTP) 3917

Colleges 903
Columbus Program in State Issues 2242
Combined Bachelor's/Master's Degree Program 3917
Communication and Advocacy - Graduate Certificate 2486
Communication and Information - Ph.D. 2473
Communication and Information (CCI) 192
Communication Sciences and Disorders - Ph.D. 2969
Communication Studies - B.A. 2488
Communication Studies - M.A. 2492
Communication Studies - Minor 2494
Communication Studies (COMM) 196
Community College Leadership - Graduate Certificate 2856
Community Health Education - B.S. 2970
Community Health Education - Minor 2974
Community Medicine (CMD) 206
Computed Tomography - Undergraduate Certificate 1247
Computer Engineering Technology - B.S. 1137
Computer Engineering Technology - Minor 1140
Computer Forensics and Information Security - Undergraduate Certificate 1248
Computer Forensics and Security - Minor 1249
Computer Information Systems - B.B.A. 1003
Computer Information Systems - Minor 1007
Computer Information Systems (CIS) 206
Computer Science - B.A. 1883
Computer Science - B.S. 1886
Computer Science - M.A. 1893
Computer Science - M.S. 1894
Computer Science - Minor 1896
Computer Science - Ph.D. 1897
Computer Science (CS) 210
Computer Science Endorsement Preparation - Non-Degree 3247
Computer Technology Endorsement Preparation - Non-Degree 3249
Computer-Aided Drafting/Design Technician - Undergraduate Certificate 1250
Computers and Geosciences - Minor 1898
Conducting - M.M. 3792
Construction Management - B.S. 1391
Construction Management - M.S. 1395
Construction Management - Minor 1396
Construction Management (CMGT) 228
Cooperative Education (COOP) 232
Cooperative Education Program 3894
Core and Critical Reading Strategies Placement 3919
Costume Design and Technology - Minor 3864
Counseling - Ed.S. 3108
Counselor Education and Supervision - Ph.D. 3109
Counselor Education and Supervision (CES) 233
Course Numbering System 3919
Course Overload 3919
Course Privilege for Doctoral Students 3920
Course Repeat 3920
Course Withdrawal 3921
Courses A-Z 16
Creative Writing - M.F.A. 1952
Creative Writing - Minor 1954
Credit By Examination (CBE) 3922
Credit-Hour Requirement for Graduation 3922
Criminology and Criminal Justice - M.A. 2313
Criminology and Justice Studies - A.A.S. 1251
Criminology and Justice Studies - B.A. 2315
Criminology and Justice Studies - Minor 2318
Criminology and Justice Studies (CRIM) 244
Cultural Foundations - M.A. 2857
Cultural Foundations - M.Ed. 2859
Cultural Foundations - Ph.D. 2860
Cultural Foundations (CULT) 251
Curriculum and Instruction - Ed.S. 3250
Curriculum and Instruction - M.Ed. 3251
Curriculum and Instruction - Ph.D. 3253
Curriculum and Instruction (CI) 258
Cybercriminology - B.S. 2367
Cybersecurity - A.A.B. 1254
Cybersecurity Engineering - B.S. 1141
Cybersecurity Foundations - Minor 1899

D

Dance - B.F.A. 3864
Dance - Minor 3867
Dance (DAN) 271
Dance Studies - B.A. 3868
DANTES Subject Standardized Tests (DSST) 3922
Data Analytics - Minor 969
Data Science - M.S. 1900
Data Science - M.S. 2075
Data Science (DATA) 277

Deaf Education Multiple Disabilities - Graduate Certificate 3111
Deaf Education Multiple Disabilities - Undergraduate Certificate 3112
Department of Accounting 947
Department of Africana Studies 1714
Department of Anthropology 1725
Department of Biological Sciences 1745
Department of Chemistry and Biochemistry 1822
Department of Computer Science 1862
Department of Earth Sciences 1904
Department of Economics 961
Department of English 1929
Department of Finance 977
Department of Geography 1977
Department of History 2013
Department of Information Systems and Business Analytics 988
Department of Management 1009
Department of Marketing and Entrepreneurship 1054
Department of Mathematical Sciences 2038
Department of Modern and Classical Language Studies 2092
Department of Philosophy 2189
Department of Physics 2203
Department of Political Science 2227
Department of Psychological Sciences 2257
Department of Sociology and Criminology 2295
Design - Minor 2591
Design Innovation (DI) 278
Developmental Coursework 3922
Digital Media Production - B.S. 2563
Digital Media Production - Minor 2567
Disability Studies and Community Inclusion - Graduate Certificate 2862
Disability Studies and Community Inclusion - Minor 2864
Dismissal and Appeal - Graduate 3922
Dismissal, Appeal and Reinstatement - Undergraduate 3924
Dissertation for the Doctoral Degree 3926
Diversity Course Requirement 887
Drawing - Minor 3707
Dual Degrees and Double Majors 3929

E

Early Childhood Education - B.S.E. 3256
Early Childhood Education - M.A.T. 3263
Early Childhood Education - M.Ed. 3265
Early Childhood Education (ECED) 279
Early Childhood Education (P-5) Additional Licensure Preparation - Non-Degree 3254
Early Childhood Education Pre-Kindergarten (3-5 years) Endorsement Preparation - Non-Degree 3268
Early Intervention - Graduate Certificate 3114
Early Intervention - Minor 3115
Early Years Education and Care - A.A.S. 1255
Early Years Education and Care (EYEC) 290
Earth Science - B.A. 1915
Earth Science - B.S.E. 3270
Earth Science - Minor 1918
Earth Science (ESCI) 292
eBusiness - Undergraduate Certificate 1258
Economics - B.A. 2326
Economics - B.B.A. 970
Economics - M.A.E. 974
Economics - Minor 975
Economics (ECON) 301
Education - Minor 2804
Education, Health and Human Services (EHHS) 309
Educational Leadership K-12 - Ed.S. 2865
Educational Leadership K-12 - M.Ed. 2867
Educational Leadership K-12 - Ph.D. 2868
Educational Leadership K-12 (EDLE) 311
Educational Psychology - M.Ed. 3116
Educational Psychology (EPSY) 316
Educational Technology - M.Ed. 3277
Educational Technology (ETEC) 319
Electrical Engineering and Related Technologies (EERT) 324
Electrical/Electronic Engineering Technology - A.A.S. 1258
Electronics - Minor 1144
Eligibility for a Doctoral Degree 3931
Emerging Media and Technology - B.S. 2501
Emerging Media and Technology - M.S. 2504
Emerging Media and Technology (EMAT) 326
Engineering (ENGR) 330
Engineering Technology - B.S. 1260
Engineering Technology - M.E.T. 1145
Engineering Technology (ENGT) 354
English - B.A. 1955
English - M.A. 1960
English - Minor 1961
English - Ph.D. 1962

English - Rhetoric and Composition - Ph.D. 1964
English (ENG) 355
English Placement 3931
Enology - A.A.S. 1268
Enology - Undergraduate Certificate 1268
Enology (ENOL) 377
Enrollment - Graduate 3932
Enrollment Definitions 3932
Entrepreneurship - B.B.A. 1061
Entrepreneurship - Undergraduate Certificate 1269
Entrepreneurship (ENTR) 379
Entrepreneurship for Business Majors - Minor 1064
Entrepreneurship for Non-Business Majors - Minor 1065
Environment Management - A.T.S. 1270
Environment, Peace and Justice - Minor 2399
Environmental and Conservation Biology - B.S. 1804
Environmental Geographic Information Science - Graduate Certificate 1997
Environmental Geology - Minor 1918
Environmental Health Sciences (EHS) 381
Environmental Health Sciences for Natural Science Majors - Minor 3538
Environmental Health Sciences for Non-Natural Science Majors - Minor 3539
Environmental Studies - B.A. 1998
Environmental Studies - Minor 2001
Environmental Studies (ENVS) 383
Epidemiology - M.P.H. 3540
Epidemiology (EPI) 384
Esports - Minor 2869
Essentials for Business Decision Making - Undergraduate Certificate 1270
Ethnomusicology - M.A. 3792
Event Management - Undergraduate Certificate 2870
Event Planning - Minor 2872
Exercise Physiology - M.S. 2974
Exercise Physiology - Ph.D. 2976
Exercise Physiology (EXPH) 389
Exercise Science - B.S. 2977
Exercise Science (EXSC) 392
Experiential Learning Requirement 890
Exploratory and General Majors 3933
Exploratory Program 3895

F

Faculty & Administrators 3965
Family Nurse Practitioner - Graduate Certificate 3441
Fashion Design - B.A. 3739
Fashion Design - B.F.A. 3742
Fashion Design and Merchandising (FDM) 395
Fashion Industry Studies - M.F.I.S. 3745
Fashion Media - Minor 2567
Fashion Media - Minor 3748
Fashion Merchandising - B.S. 3749
Finance - B.B.A. 982
Finance - Minor 986
Finance (FIN) 406
Financial Management - Graduate Certificate 987
Flashes 101 (New Student Orientation) 890
Flexibly Scheduled Course Sections 3933
Floriculture - Undergraduate Certificate 1272
Foreign Language Placement 3933
Forensic Anthropology - Minor 1744
French - B.A. 2146
French - M.A. 2149
French - Minor 2151
French (FR) 411
French Translation - Graduate Minor 2151

G

Game Design - Minor 1273
Game Programming - Minor 1903
Gender and Sexuality Studies - B.A. 2370
Gender and Sexuality Studies (GSS) 414
General Business - B.B.A. 1035
General Medicine (GMD) 415
Geographic Information Science - Graduate Certificate 2002
Geographic Information Science - M.G.I.Sc. 2003
Geographic Information Science - Minor 2004
Geography - B.A. 2005
Geography - M.S. 2009
Geography - Minor 2010
Geography - Ph.D. 2011
Geography (GEOG) 416
Geology - B.A. 1919
Geology - B.S. 1922
Geology - M.S. 1926
Geology - Minor 1928
German - B.A. 2152

German - Minor ... 2155
German (GER) ... 434
German Studies - Minor ... 2156
German Translation - Graduate Minor ... 2157
Gerontology - Graduate Certificate ... 3118
Gerontology - Minor ... 3119
Gerontology (GERO) ... 438
Gifted Education Endorsement Preparation - Non-Degree ... 3120
Glass - Minor ... 3708
Global Issues - Undergraduate Certificate ... 2242
Grade Point Average (GPA) ... 3934
Grade Point Average (GPA) Adjustment ... 3934
Grade-/Mark-To-Grade Change Policy ... 3936
Grading Policies and Procedures ... 3936
Graduate College ... 3886
Graduate College (GCOL) ... 439
Graduation ... 3939
Graduation Planning System (GPS) ... 3940
Greek - Minor ... 2158
Greek (GRE) ... 440
Green and Alternate Energy (GAE) ... 440
Greenhouse Production - Undergraduate Certificate ... 1273

H

Health Education and Promotion - M.Ed. ... 2986
Health Education and Promotion - Ph.D. ... 2988
Health Education (HED) ... 441
Health Informatics - Graduate Certificate ... 2528
Health Informatics - M.S. ... 2530
Health Informatics (HI) ... 449
Health Policy and Management (HPM) ... 454
Health Services Administration - Minor ... 3542
Health Systems and Facilities Design - Graduate Certificate ... 1397
Health Technologies and Informatics - Minor ... 3543
Healthcare Compliance - Graduate Certificate ... 3544
Healthcare Design - M.H.D. ... 1398
Healthcare Design (HCD) ... 457
Healthcare Systems Management for Business Majors - Minor ... 1039
Healthcare Systems Management for Non-Business Majors - Minor ... 1039
Hebrew (HEBR) ... 458
Help Desk Support - Minor ... 1275
Heritage Languages (HRTG) ... 459
Higher Education Administration - Ph.D. ... 2873
Higher Education Administration and Student Affairs - Ed.S. ... 2875
Higher Education Administration and Student Affairs - M.Ed. ... 2876
Higher Education (HIED) ... 459
Historic Preservation - Minor ... 1400
History - B.A. ... 2030
History - M.A. ... 2033
History - Minor ... 2035
History - Ph.D. ... 2037
History (HIST) ... 469
Honors at Graduation ... 3941
Honors College ... 3887
Honors (HONR) ... 485
Honors Program ... 3890
Horticulture - B.A.H. ... 1275
Horticulture (HORT) ... 486
Horticulture Technology - A.A.S. ... 1278
Hospitality and Event Management - B.S. ... 2878
Hospitality and Event Management - Minor ... 2882
Hospitality and Event Management (HEM) ... 490
Hospitality and Tourism Management - M.S. ... 2883
Hospitality and Tourism Management (HTM) ... 493
Hospitality Management - Undergraduate Certificate ... 2885
Human Development and Family Science - B.S. ... 3122
Human Development and Family Science - M.A. ... 3126
Human Development and Family Science - Minor ... 3127
Human Development and Family Science (HDF) ... 495
Human Disease - Minor ... 1809
Human Resource Management - B.B.A. ... 1040
Human Resource Management - Graduate Certificate ... 1044
Human Resource Management - Minor ... 1045
Human Resource Management (HRM) ... 500
Human Services - A.A.S. ... 1281
Human Services (HSRV) ... 503
Human Sexuality - Minor ... 2990

I

Incomplete Mark Policy ... 3943
Individualized Program - A.T.S ... 1283
Industry-Recognized Certifications, Examinations and Professional Training ... 3943
Information Design - Minor ... 2591
Information Technology - A.A.B. ... 1284
Information Technology - B.S.I.T. ... 1287

Information Technology (IT) 504
Innovation - Minor 1148
Institutional Research and Assessment - Graduate Certificate 2886
Insurance Studies - B.S. 1291
Insurance Studies - Minor 1294
Insurance Studies (INS) 510
Integrated Health Studies - B.S. 2991
Integrated Health Studies (IHS) 511
Integrated Language Arts - B.S.E. 3279
Integrated Language Arts Additional Licensure Preparation - Non-Degree 3287
Integrated Mathematics - B.S.E. 3288
Integrated Mathematics Additional Licensure Preparation - Non-Degree 3294
Integrated Science - B.S.E. 3296
Integrated Science Additional Licensure Preparation - Non-Degree ... 3307
Integrated Social Studies - B.S.E. 3309
Integrated Social Studies Additional Licensure Preparation - Non-Degree 3323
Integrative Studies - B.I.S. 2373
Integrative Studies (IGST) 511
Interior Design - B.A. 1400
Interior Design (ID) 512
International Baccalaureate (IB) 3943
International Business - Graduate Certificate 1046
International Business for Business Majors - Minor 1047
International Business for Non-Business Majors - Minor 1048
International Family Science - Minor 3129
International Studies - B.A. 2375
International Studies (INTS) 515
Internationalization of Higher Education - Graduate Certificate 2888
Interprofessional Leadership - Ed.D. 2889
Italian - Minor 2158
Italian (ITAL) 516
Italian Studies - Minor 2159

J

Japanese - Minor 2161
Japanese (JAPN) 518
Japanese Translation - Graduate Minor 2162
Jazz Studies - Minor 3794
Jewelry, Metals and Enameling - Minor 3708
Jewish Studies - Minor 2378
Jewish Studies (JWST) 520
Journalism - B.S. 2568
Journalism - Minor 2571
Journalism Education - Graduate Certificate 2572
Journalism Education - M.A. 2573

K

Kent Blossom Music (KBM) 521
Kent Blossom Theatre (KBT) 522
Kent Core (General Education Requirement) 897
Knowledge Management - Graduate Certificate 2532
Knowledge Management - M.S. 2533
Knowledge Management (KM) 523

L

Landscape Architecture - M.L.A. I 1404
Landscape Architecture - M.L.A. II 1406
Landscape Architecture (LARC) 526
Language Requirement for Graduate Students 3943
Latin - M.A. 2163
Latin - Minor 2164
Latin American Studies - Minor 2379
Latin (LAT) 528
Leadership - Minor 1049
Leadership and Management - Graduate Certificate 1050
Leading Through Challenge - Graduate Certificate 1051
Learning Science - M.A. 3130
Learning Science - Ph.D. 3131
Learning Science (LRNS) 530
Leave of Absence for Graduate Students 3944
Lesbian, Gay, Bisexual, Transgender and Queer Studies - Minor 2380
Lesbian, Gay, Bisexual, Transgender and Queer Studies (LGBT) 531
LGBTQ+ Public Health - Graduate Certificate 3545
Liberal Studies - L.S.M. 2381
Liberal Studies (LSTU) 532
Library and Information Science - M.L.I.S. 2535
Library and Information Science (LIS) 532
Life Science - B.S.E. 3324
Life Science/Chemistry - B.S.E. 3332
Lighting Design and Technology - Minor 3871
Long-Term Care Administration - B.S. 3133
Long-Term Care Administration (LTCA) 542

M

Magnetic Resonance Imaging - Undergraduate Certificate 1295
Mammography - Undergraduate Certificate 1296

Management for Business Majors - Minor 1052
Management for Non-Business Majors - Minor 1053
Management (MGMT) 543
Managerial Marketing - B.B.A. 1066
Managerial Marketing (MMTG) 547
Marketing - B.B.A. 1066
Marketing - Minor 1070
Marketing (MKTG) 547
Materials Science - M.S. 2329
Materials Science - Ph.D. 2331
Materials Science (MTSC) 550
Mathematics - B.A. 2078
Mathematics - B.S. 2081
Mathematics - Minor 2085
Mathematics for Secondary School Teachers - M.A. 2086
Mathematics (MATH) 556
Mathematics Placement 3944
Mechanical Engineering and Related Technology (MERT) 574
Mechanical Engineering Technology - A.A.S. 1297
Mechanical Engineering Technology - B.S. 1148
Mechatronics Engineering - B.S. 1152
Mechatronics Engineering - M.S. 1156
Mechatronics Engineering - Ph.D. 1157
Mechatronics Engineering Technology - B.S. 1159
Media Advocacy - Minor 2475
Media and Journalism - M.A. 2575
Media and Journalism (MDJ) 575
Medical Anthropology - Minor 1744
Medical Assisting - Undergraduate Certificate 1299
Medical Assisting (MA) 588
Medical Billing - Undergraduate Certificate 1301
Medical Laboratory Science - B.S. 1810
Medical Librarianship - Graduate Certificate 2539
Microbiology - Minor 1814
Middle Childhood Education - B.S.E. 3350
Middle Childhood Education (4-9) Language Arts/Reading and Mathematics Initial Licensure Preparation - Non-Degree 3339
Middle Childhood Education (4-9) Language Arts/Reading and Science Initial Licensure Preparation - Non-Degree 3341
Middle Childhood Education (4-9) Mathematics and Science Initial Licensure Preparation - Non-Degree 3342
Middle Childhood Education (4-9) Mathematics and Social Studies Initial Licensure Preparation - Non-Degree 3344
Middle Childhood Education (4-9) Social Studies and Language Arts/Reading Initial Licensure Preparation - Non-Degree 3346
Middle Childhood Education (4-9) Social Studies and Science Initial Licensure Preparation - Non-Degree 3348
Middle Childhood Education (MCED) 589
Middle Childhood Education-Language Arts and Reading (4-9) Additional Licensure Preparation - Non-Degree 3364
Middle Childhood Education-Mathematics (4-9) Additional Licensure Preparation - Non-Degree 3366
Middle Childhood Education-Science (4-9) Additional Licensure Preparation - Non-Degree 3367
Middle Childhood Education-Social Studies (4-9) Additional Licensure Preparation - Non-Degree 3369
Middle Childhood Generalist Science (4-6) Endorsement Preparation 3371
Middle Childhood Generalist Social Studies (4-6) Endorsement Preparation - Non-Degree 3372
Midterm Evaluation 3945
Mild to Moderate Special Education - Minor 3136
Military and Leadership Studies - Minor 1054
Military Science (MSCI) 592
Military Training 3946
Minors 3946
Modeling and Animation - Minor 1302
Modern and Classical Language Studies (MCLS) 594
Multidisciplinary Social Sciences and Humanities (MSSH) 598
Music - B.A. 3795
Music - B.M. 3801
Music - Minor 3809
Music Composition - M.A. 3810
Music Education - B.M. 3810
Music Education - M.M. 3815
Music Education - Ph.D. 3817
Music (MUS) 599
Music Technology - B.S. 3820
Music Technology - Minor 3827
Music Theory - M.A. 3827
Music Theory - Composition - Ph.D. 3829
Musical Theatre - B.F.A. 3871

N

National Student Exchange (NSE) 637
Neuroscience - B.S. 1814
Neuroscience - B.S. 2276
Neuroscience - Minor 2333
Neuroscience (NEUR) 637
Nonprofit Management - Graduate Certificate 2243

Nonprofit Studies - Minor 3137
Not Permitted to Continue 3946
Nurse Educator - Graduate Certificate 3444
Nursing - B.S.N. 3446
Nursing - D.N.P. 3454
Nursing - M.S.N. 3459
Nursing - Ph.D. 3465
Nursing Administration and Health Systems Leadership - Graduate Certificate 3468
Nursing ADN - A.A.S. 1302
Nursing for Registered Nurses - B.S.N. 3471
Nursing Home Administration - Graduate Certificate 3139
Nursing (NURS) 638
Nursing Technology (NRST) 661
Nutrition - B.S. 2998
Nutrition - M.S. 3001
Nutrition (NUTR) 664

O

Occupational Therapy Assistant - A.A.S. 1306
Occupational Therapy Assistant (OTA) 669
Office of Global Education (OGE) 671
Office Software Applications - Undergraduate Certificate 1309
Office Technology - A.A.B. 1310
Office Technology (OTEC) 671
Ohio Articulation and Transfer Policy 3946
Ohio Superintendent's Licensure - Graduate Certificate 2893
Online and Blended Learning - Graduate Certificate 3374
Orientation for Graduate Students 3950

P

Painting - Minor 3709
Paleontology - Minor 1928
Paralegal Studies - B.A. 2382
Paralegal Studies - Minor 2385
Paralegal Studies - Undergraduate Certificate 2386
Paralegal Studies (PLST) 672
Park Management - Minor 2894
Pass/Fail Grade Policy 3950
Peace and Conflict Studies - B.A. 2400
Peace and Conflict Studies - M.A. 2403
Peace and Conflict Studies - Minor 2406
Peace and Conflict Studies (PACS) 675
Peace Officer Training Academy (POTA) 682
Peace Officers Training Academy - Undergraduate Certificate 1313
Pediatric Primary Care Nurse Practitioner - Graduate Certificate 3474
Performance - M.M. 3831
Philosophy - B.A. 2197
Philosophy - M.A. 2200
Philosophy - Minor 2202
Philosophy (PHIL) 683
Photography - B.F.A. 2592
Photography - Minor 2595
Photojournalism - Minor 2575
Physical Activity, Wellness and Sport (PWS) 690
Physical Education and Sport Performance - B.S. 3377
Physical Education and Sport Performance (PESP) 694
Physical Science - B.S.E. 3387
Physical Therapist Assistant Technology - A.A.S. 1314
Physical Therapist Assisting Technology (PTST) 698
Physics - B.A. 2211
Physics - B.S. 2214
Physics - M.A. 2223
Physics - M.S. 2224
Physics - Minor 2225
Physics - Ph.D. 2226
Physics (PHY) 700
Podiatric Biomechanics and Orthopedics (ORT) 708
Podiatric Medicine - D.P.M. 3503
Podiatric Medicine (PMD) 708
Podiatric Surgery (SUR) 710
Political Science - B.A. 2245
Political Science - M.A. 2248
Political Science - Minor 2250
Political Science - Ph.D. 2251
Political Science (POL) 711
Pre-Health - Undergraduate Certificate 2334
Pre-Law - Minor 2253
Preclinical Sciences (PCS) 723
Principal Grades 4-9 Licensure Preparation - Non-Degree 2895
Principal Grades 5-12 Licensure Preparation - Non-Degree 2896
Principal Grades PK-6 Licensure Preparation - Non-Degree 2898
Print Media and Photography - Minor 3710
Professional and Technical Writing - Minor 1964
Professional Pilot - B.S. 1163
Professional Pilot - Minor 1166

Professional Sales - Undergraduate Certificate 1071
Professional Studies - B.S. 2899
Professional Studies (PROS) 725
Psychiatric Mental Health Nurse Practitioner - Graduate Certificate .. 3476
Psychological Science - M.A. 2280
Psychological Science - Ph.D. 2281
Psychology - B.A. 2283
Psychology - B.S. 2288
Psychology - Minor 2294
Psychology (PSYC) 726
Public Administration - M.P.A. 2255
Public Administration (PADM) 740
Public Health - B.S.P.H. 3546
Public Health - M.P.H. 3553
Public Health - Minor 3557
Public Health - Ph.D. 3557
Public Health - Undergraduate Certificate 3560
Public Health (PH) 742
Public Relations - B.S. 2575
Public Relations - Minor 2579
Pure Mathematics - M.A. 2088
Pure Mathematics - M.S. 2089
Pure Mathematics - Ph.D. 2091

Q

Qualifying Examination for Master's Degree 3950
Qualitative Research - Graduate Certificate 2901
Quantitative Business Management - Graduate Certificate 1008
Quantitative Methods in Econometrics - Graduate Minor 976

R

Race, Gender and Social Justice - Graduate Minor 1725
Radiologic and Imaging Science (RIS) 751
Radiologic Imaging Sciences - B.R.I.T. 1318
Radiologic Technology - A.A.S. 1331
Radiologic Technology - A.T.S. 1334
Radiologic Technology (RADT) 756
Reading Endorsement Preparation - Non-Degree 3394
Reading (READ) 758
Reading Specialization - M.Ed. 3395
Recreation Management - Minor 2903
Recreation, Park and Tourism Management - B.S. 2904
Recreation, Park and Tourism Management (RPTM) 759
Registration 3950
Religion (REL) 762
Religion Studies - Minor 2387
Remote Participation in a Thesis or Dissertation Defense 3952
Research, Measurement and Statistics - M.Ed. 2910
Research, Measurement and Statistics - Ph.D. 2911
Research, Measurement and Statistics (RMS) 763
Residence Requirement 3953
Respiratory Care - B.S. 1336
Respiratory Care (RSPC) 769
Respiratory Therapy - A.A.S. 1339
Respiratory Therapy (RESP) 770
Retroactive Credit 3954
Russian - Minor 2165
Russian Literature, Culture and Translation - B.A. 2166
Russian (RUSS) 772
Russian Studies - Minor 2169
Russian Translation - Graduate Minor 2170

S

Safety, Quality and Lean in Manufacturing - Minor 1167
Scene Design - Minor 3875
Scenic Technology - Minor 3875
School Counseling - M.Ed. 3141
School Health Education - B.S.E. 3005
School Health Education (P-12) Additional Licensure Preparation - Non-Degree 3003
School Library Media K-12 - M.L.I.S. 2540
School Library Media Licensure - Non-Degree 2542
School of Art 3669
School of Biomedical Sciences 2335
School of Communication Studies 2476
School of Emerging Media and Technology 2495
School of Fashion Design and Merchandising 3726
School of Foundations, Leadership and Administration 2808
School of Health Sciences 2920
School of Information 2507
School of Lifespan Development and Educational Sciences 3027
School of Media and Journalism 2546
School of Multidisciplinary Social Sciences and Humanities 2353
School of Music 3752
School of Peace and Conflict Studies 2391
School of Teaching, Learning and Curriculum Studies 3183
School of Theatre and Dance 3834

School of Visual Communication Design 2580
School Psychology - Ed.S. 3143
School Psychology - M.Ed. 3144
School Psychology - Ph.D. 3146
School Psychology (SPSY) 774
Sculpture and Expanded Media - Minor 3710
Secondary Education - M.A.T. 3396
Selective Service Requirement 3954
Semester System 3954
Semiconductor Manufacturing Technician - Undergraduate Certificate 1342
Sequential Coursework 3954
Social and Behavioral Sciences (SBS) 780
Social Work - B.S.W. 1343
Social Work (SWK) 784
Society, Health and Medicine - Minor 2318
Sociology - B.A. 2320
Sociology - M.A. 2323
Sociology - Minor 2324
Sociology - Ph.D. 2325
Sociology (SOC) 787
Software Development - Minor 1345
Spanish - B.A. 2171
Spanish - M.A. 2174
Spanish - Minor 2176
Spanish (SPAN) 797
Spanish Translation - Graduate Minor 2177
Special Education - B.S.E. 3148
Special Education - Ed.S. 3159
Special Education - M.Ed. 3161
Special Education - Ph.D. 3163
Special Education Deaf Education Additional Licensure Preparation - Non-Degree 3165
Special Education Deaf Education Initial Licensure Preparation - Non-Degree 3167
Special Education Early Childhood (PK-5) Additional Licensure Preparation - Non-Degree 3169
Special Education Early Childhood (PK-5) Initial Licensure Preparation - Non-Degree 3171
Special Education Mild/Moderate Needs Additional Licensure Preparation - Non-Degree 3172
Special Education Mild/Moderate Needs Initial Licensure Preparation - Non-Degree 3174
Special Education Moderate/Intensive Needs Additional Licensure Preparation - Non-Degree 3176
Special Education Moderate/Intensive Needs Initial Licensure Preparation - Non-Degree 3178
Special Education Pre-K Special Needs Endorsement Preparation - Non-Degree 3180
Special Education (SPED) 804
Special Education Transition-to-Work Endorsement Preparation - Non-Degree 3181
Speech Language Pathology - M.A. 3013
Speech Pathology and Audiology - B.S. 3016
Speech Pathology and Audiology - Minor 3019
Speech Pathology and Audiology (SPA) 820
Sport Administration - B.S. 2912
Sport Administration - M.A. 2916
Sport Administration - Minor 2918
Sport, Exercise and Performance Psychology - B.S. 3399
Sport, Exercise and Performance Psychology - Minor 3402
Sport, Exercise and Performance Psychology (SEPP) 834
Sports Administration (SPAD) 835
Sports Medicine - B.S. 3020
Sports Medicine: Administration - Minor 3023
Sports Medicine: General Medical and Emergency Care - Minor 3025
Sports Medicine: Orthopedic Patient Care - Minor 3026
Standardized Test Score Reports 3955
Student Conduct 3955
Student Responsibilities 3955
Studies in Globalization, Identity and Space - Minor 2388
Studio Art - B.A. 3711
Studio Art - B.F.A. 3714
Studio Art - M.A. 3721
Studio Art - M.F.A. 3722
Sustainability - Minor 1167

T

Teaching and Learning with Technology - Minor 3403
Teaching and Learning with Technology - Undergraduate Certificate . 3405
Teaching English as a Foreign Language - Undergraduate Certificate . 1965
Teaching English as a Second Language - B.A. 1966
Teaching English as a Second Language - M.A. 1969
Teaching English as a Second/Foreign Language - Graduate Certificate 1972
Teaching English as Second Language Endorsement Preparation - Graduate Non-Degree 1973
Teaching English as Second Language Endorsement Preparation - Undergraduate Non-Degree 1975
Technical and Applied Studies - B.T.A.S. 1346

Technical and Applied Studies (TAS) 841
Technical Modeling Design - A.A.S. 1348
Technology - Minor 1168
Textiles - Minor 3725
Theatre and Social Change - Minor 3875
Theatre Design and Technology - M.F.A. 3875
Theatre Design, Technology and Production - B.F.A. 3878
Theatre Management - Minor 3881
Theatre Performance - Minor 3881
Theatre Sound - Minor 3882
Theatre Studies - B.A. 3882
Theatre (THEA) 842
Thesis for the Master's Degree 3955
Time Limits for Graduate Degrees 3957
Tourism Management - Minor 2919
Transcripts 3957
Transfer of Graduate Credit 3958
Transfer of Undergraduate Credit 3959
Translation - B.S. 2177
Translation - M.A. 2184
Translation Studies - Ph.D. 2188
Translation Studies (TRST) 861

U

Undergraduate Students Enrolling in Graduate Courses 3961
University Administrators 3965
University College 3891
University College (UC) 865
University Faculty 3967
University Readiness Standards and Placement Assessment 3961
University Undergraduate Requirements 0
Unmanned Aircraft Systems - Minor 1169
Unmanned Aircraft Systems Flight Operations - B.S. 1170
Upper-Division Requirement 3964
Urban Design - M.U.D. 1407
Urban Design (UD) 868
Urban Studies - Minor 2012
User Experience - M.S. 2544
User Experience Design - Minor 2546
User Experience Design - Minor 2595
User Experience Design (UXD) 871
User Experience (UX) 869

V

Veterinary Technology - A.A.S. 1350
Veterinary Technology (VTEC) 871
Visual Communication Design - B.A. 2596
Visual Communication Design - B.F.A. 2599
Visual Communication Design - M.A. 2603
Visual Communication Design - M.F.A. 2605
Visual Communication Design (VCD) 873
Viticulture - A.A.S. 1352
Viticulture - Undergraduate Certificate 1352
Viticulture and Enology (VIN) 883

W

Washington Program in National Issues 2257
Web Design and Development - Minor 2506
Web Programming - Minor 1903
Women's Health Nurse Practitioner - Graduate Certificate 3478
Women's Studies - Minor 2388
Women's Studies (WMST) 884
Workshops for Graduate Students 3964
World Literature and Cultures - Minor 2390
World Music - Minor 3834
Writing-Intensive Course Requirement 900

Z

Zoology - B.S. 1819